Central Valley Dairy Representative Monitoring Program Year 8 Annual Report (2019)

Part I of V

Prepared by

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Signature Page

We certify under penalty of law that we have personally examined and are familiar with the information submitted in this document and all attachments and that, based on our inquiry of those individuals immediately responsible for obtaining the information, we believe that the information is true, accurate, and complete. We are aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

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Central Area | West Side:	ANT, COR, FG2, GOD, MAC, NUN, MOO, TON
North Area:	BRE, CRE, MTS
South Area:	AUK, DLF, ELK, ZZI, HOL, HYN, JAD, LON, ADO, MAL, MAP, ZON, RIC, SIE, SO2, SOJ

Dairy Production Area and Associated Fields

Central Area | East Side:	MEN, ANC, BET, DIE, DUR, FG1, COT, SAN, GEN, TRO, PLS, CAE, ROB, WOO
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Acronyms, Terminology, and Nomenclature

Anhydrous ammonia	synthetic fertilizer, NH_3 gas with 82% N, stored pressurized and/or cooled
Aqua ammonia	synthetic fertilizer, generic term for ammonia dissolved in water, principally present in the ammonium form; variable strengths available; stored non-pressurized (synonymous terms are aqueous ammonia and ammonium hydroxide)
AR ratio	application/harvest removal ratio
bgs	below ground surface
btc	below top of casing
CAN-9	Calcium Ammonium Nitrate (9% ammonium)
CCA	Certified Crop Advisor
CCID	Central California Irrigation District
CDFA	California Department of Food and Agriculture
CEC	cation exchange capacity
CVDRMP	Central Valley Dairy Representative Monitoring Program (a non-profit organization administrating and overseeing monitoring and reporting activities on behalf of member dairies)
CV-SALTS	Central Valley Salinity Alternatives for Long-Term Sustainability
CVSC	Central Valley Salinity Coalition
DO	dissolved oxygen
DON	dissolved organic nitrogen
ESC	East Side Canal
ET	evapotranspiration
FREP	Fertilizer Research and Education Program
ILRP	Irrigated Lands Regulatory Program
LPSHI	Lagoon Perimeter Subsurface Hydrogeologic Investigation
Med	statistical median
MK	Mann-Kendall trend test
MRP	monitoring and reporting program
Monitoring well location	Pertaining to one borehole in which a well or wells are constructed
Monitoring well site	A monitoring well site is composed of a single well, nested wells, clustered wells or a combination thereof. Groundwater samples for chemical analysis are obtained from one well from each of the RMP's well sites
MW	monitoring well
MWICR	monitoring well installation completion report
MWISP	monitoring well installation and sampling plan
NRCS	Natural Resources Conservation Service
OLSR	ordinary least squares regression
ORP	oxygen reduction potential
PON	particulate organic nitrogen
Porter-Cologne	California's Porter-Cologne Water Quality Control Act

Regional Board(s)	generic reference to Regional Board(s)
RMP	Representative Monitoring Program
SAR	sodium adsorption ratio
SRMP	Summary Representative Monitoring Report
SSURGO	Soil Survey Geographic Database
State Board	State Water Resources Control Board
TDS	total dissolved solids
TID	Turlock Irrigation District
TKN	total Kjeldahl nitrogen (NH_3 + NH_4 + organic N)
TN	total nitrogen
TS	Theil-Sen trend line
UCCE	University of California Cooperative Extension
UN32	synthetic fertilizer with 32% nitrogen content, composed of 45% ammonium nitrate, 35% urea, and 20% water
USDA	US Department of Agriculture
WDRs	Waste Discharge Requirements
WQOs	Water Quality Objectives

Statistical Parameters

cv	coefficient of variance
Med	median
n	sample size
$\bar{x}$	arithmetic mean

Physical Parameters

d	water column above bottom of screen
dh	hydraulic head difference
i	horizontal gradient
i_v	vertical gradient
K	hydraulic conductivity (or potassium, context specific)
K_h	hydraulic conductivity (horizontal)
$K_{sat(min)}$	smallest saturated hydraulic conductivity (SSURGO soil property)
K_v	hydraulic conductivity (vertical)
r	recharge rate
s	monitored source length
v	Darcy velocity of water

Chemical Elements and Components

$5Ca(NO_3)_2 \bullet NH_4NO_3 \bullet 10H_2O$	fertilizer calcium ammonium nitrate
Ca	calcium
$CaCO_3$	calcium carbonate
$CaSO_4$ x $2H_2O$	gypsum

Cl	chloride
$CO(NH_2)_2$	urea (46% N)
CO_3^{2-}	carbonate
HCO_3^-	bicarbonate
K	potassium (or hydraulic conductivity, context specific)
K_2O	potassium oxide
Mg	magnesium
N	nitrogen
Na	sodium
Na_2CO_3	sodium carbonate
$NaHCO_3$	sodium bicarbonate
NH_3	ammonia
NH_4^+	ammonium
NH_3+NH_4^+	ammoniacal N
NH_4NO_3	fertilizer ammonium nitrate (34% N)
$(NH_4)_2SO_4$	fertilizer ammonium sulfate (21% N; 24% S)
NO_2^-	nitrite
NO_3^-	nitrate
OH^-	hydroxide
P_2O_5	phosphorus pentoxide
PO_4^{3-}	phosphate
S	sulfur
SO_4^{2-}	sulfate

Units of Measure

ft	foot
m	meter (1 m = 3.280 839 895 ft)
cm	centimeter (1 cm = 10^{-2} m)
mm	millimeter (1 mm = 10^{-3} m)
ac	acre
ha	hectare (1 ha = 10^4 m^2 = 2.471 053 814 ac)
af	acre foot (1 af = 1,233,481.855 L)
L	liter (10^{-3} m^3) or unit of length
mL	milliliter (1 mL = 10^{-3} L)
gal	gallon
kg	kilogram (1 kg = 10^3 g)
g	gram
mg	milligram (1 mg = 10^{-3} g)
d	day

h	hour
s	second
t	unit of time
cfs	cubic feet per second
gpm	gallons per minute
mV	millivolts
NTU	nephelometric turbidity units

EXECUTIVE SUMMARY

This report was prepared on behalf of the Central Valley Dairy Representative Monitoring Program (CVDRMP), a non-profit group of dairy owners and operators organized in 2010 to conduct representative groundwater monitoring on behalf of member dairies, to conduct related assessments of dairy operational impacts to groundwater quality, and to develop management practice recommendations toward minimizing such impacts. CVDRMP activities generally, and this report specifically, are intended to fulfill requirements for Representative Monitoring Programs (RMPs) as defined in the *Reissued Waste Discharge Requirements General Order No. R5-2013-0122 for Existing Milk Cow Dairies* (2013 General Order), adopted by the Central Valley Regional Water Quality Control Board (Central Valley Regional Board) on October 3, 2013.

Key Regulatory Charge

The key regulatory requirement that CVDRMP seeks to satisfy is the identification of on-farm management practices that are protective of groundwater quality for the range of conditions found at participating facilities. Comprehensive analysis and industry-wide recommendations for solutions and upgrades were included in the Summary Representative Monitoring Report (SRMR), which was submitted to the Central Valley Regional Water Quality Control Board on April 2, 2019 (CVDRMP 2019). This Annual Report presents and discusses the cumulative data collected since January 2012 through December 2019. Results are consistent with findings of previous research by the University of California (Harter, Davis et al. 2001; Harter, Mathews et al. 2001; Harter, Meyer et al. 2001; Mathews, Swenson et al. 2001; Harter, Davis et al. 2002; Van der Schans, Harter et al. 2009; Harter, Lund et al. 2012; Harter, Dzurella et al. 2017). Specifically, RMP observations confirm that first encountered groundwater is affected by historical and/or current dairy farming practices and strongly indicate crop fields as the primary source of subsurface mass emissions.

Per the 2013 General Order, the RMP examines conditions in first encountered groundwater (i.e., groundwater near the water table directly beneath dairy facilities). Therefore, the design of the dedicated monitoring wells is fundamentally different from that of drinking water wells, and data from the monitoring wells are not indicative of actual impacts to drinking water sources. The RMP was not designed for, and does not address, monitoring and assessment of drinking water sources.

Per the 2013 General Order, the examination of the characteristics of first encountered groundwater is coupled with examinations of dairy operations and management practices, particularly as related to nutrient and salt management, to facilitate the evaluation of cause-and-effect relationships between subsurface loading of nutrients and salts, and groundwater conditions.

Program Representativeness

The representativeness of the program was comprehensively reevaluated and confirmed after the 2012 Phase 2 expansion in the *Central Valley Dairy Representative Monitoring Program Evaluation of Representativeness* (LSCE 2013a) and was revisited by CVDRMP's external Multidisciplinary Advisory Committee (MAC) at its January 2014 meeting. As a result of this concerted effort, including independent external review, CVDRMP concluded that the 42 actively monitored RMP dairies exhibit

the range of pertinent site conditions and farm practices that are presently employed on Central Valley dairies. In addition, the extensive RMP well network provides ample redundancy such that no one single dairy is indispensable.

External Advisory Committees

CVDRMP has been collaborating with two external advisory committees, the Groundwater Technical Advisory Committee (GTAC) and the previously mentioned MAC. CVDRMP has successfully solicited participation from experts in a variety of fields that are pertinent to the program and will modify membership as program needs evolve. Presently, the committees are composed of hydrologists, geologists, geochemists, agronomists, agricultural engineers, irrigation and soils experts, dairy producers, and service providers to the dairy community. Committee members span the private, public, non-profit, and academic sectors, including (i) consultants, (ii) staff from the Central Valley Regional Board, California Department of Food and Agriculture, and (iii) research staff from the U.S. Geological Survey, Lawrence Livermore National Laboratory, and the University of California, Davis, including UC Cooperative Extension Service.

Progress Summary

In addition to the requirements for data collection set forth in the General Order, CVDRMP carried out substantial, voluntary investigative efforts regarding lagoons, cropland, and earthen-floored animal housing. The purpose of these initiatives was to help generate technical information that supports the development of recommendations for improved management practices, solutions, and upgrades.

In the years following the founding of CVDRMP in 2010, the primary attention of the program was on maintaining regulatory compliance by developing a representative monitoring program, including the selection of dairy sites and the development of an effective network of monitoring wells that was acceptable to the Executive Officer of the Central Valley Regional Board. Monitoring well installation commenced within weeks of the conditional approval of the 2011 RMP Workplan. This was followed by a second phase of monitoring well installations in 2012, which expanded the program to the Sacramento Valley and the South San Joaquin Valley. Additional wells were installed in 2014 as part of CVDRMP's network refinement. CVDRMP currently operates a total of 439 dedicated monitoring wells.

Simultaneous to the above effort, CVDRMP started systematic investigations to quantify in-situ seepage losses from working earthen liquid dairy manure lagoons, estimate subsurface nitrogen mass emissions, and assess local impacts on groundwater quality. This effort began in 2008, before CVDRMP was formed, with a comprehensive literature review and briefing of the Central Valley Regional Board's Executive Officer. Field work commenced in the winter of 2011/12 for the development of a Technical Field Guide, which provides a detailed protocol for the measurement of lagoon seepage. Extensive seepage testing was continued in the winters of 2013/14 and 2014/15. These efforts were complemented with a lagoon perimeter subsurface hydrogeologic investigation and geophysical surveys in 2014 and 2015.

While CVDRMP carried out extensive lagoon-related field work in 2014, it started engaging its Multidisciplinary Advisory Committee to address nitrogen management. Based on CVDRMP's knowledge at that time, it was thought likely that production agriculture on most dairies (and likely, many if not most other irrigated farms), would continue to exceed the Central Valley Water Board's

standard for being protective of groundwater quality (e.g., the current Water Quality Objectives (WQO) of 10 mg/L for nitrate-N) for possibly decades. Therefore, CVDRMP teamed with University of California Cooperative Extension (UCCE) researchers to pursue a data-supported path to performance improvement of nutrient management with targeted research projects on select dairies. Four two-year NUE research projects were launched in summer 2016 (Merced, Madera and Fresno Counties) and a fifth two-year project was launched in Tulare County in summer 2017. Results are presently being evaluated and results are expected to be shared with Regional Board staff later in 2020.

With respect to earthen-floored animal housing (e.g., corrals), CVDRMP submitted a comprehensive *Corral Subsurface Hydrogeologic Investigation* report in February 2019.

Summary of Key Findings

Key findings regarding groundwater conditions beneath dairies are as follows:

1. RMP observations confirm that first encountered groundwater is affected by historical and/or current dairy farming practices. With few exceptions, nitrate-N concentrations beneath lagoons, animal housing, and crop fields are greater than 10 mg/L.
2. Ordinary least squares regression (OLSR) analysis of 257 individual total nitrogen (TN) data sets[1] (quarterly observations from the first quarter 2012 to the third quarter 2019) from CVDRMP's dedicated monitoring wells indicates the following groundwater TN concentration trends:
    a. 34% (88 data sets) increasing
    b. 26% (63 data sets) decreasing
    c. 41% stable conditions (106 data sets)
3. OLSR was applied to seven different data sets: (i) the full data set of quarterly results; (ii) two reduced data sets, each composed of only half of the data (i.e., data from the first and third quarters (Q1/Q3) and data from the second and fourth quarters (Q2/Q4)), and (iii) quarterly data (Q1, Q2, Q3, and Q4). Trend analyses for the partial data sets produced very similar results to the full data set. There was no systematic bias introduced (e.g., due to seasonal filtering). Spring data (i.e., Q2) were particularly consistent in yielding similar results to the full data set.
4. Aggregated data from all monitoring wells with onsite source areas indicate that TN concentrations beneath dairies exhibit an increasing trend (i.e., 13 mg/L between 2012 and 2019). This trend is nearly the same in shallow (≤55 ft, bgs), light and heavy soil wells, with 8-year concentration increases of 14, 12, and 15 mg/L, respectively. The statistical significance is high in these cases ($p<0.01$). TN concentration increase was smaller in the deep wells (5.7 mg/L since 2012; $p=0.10$).
5. The 2019 mean TN concentration across all dairies was 46 mg/L; it was the highest in light soils and in shallow groundwater (55 and 49 mg/L, respectively); and 33 mg/L in both deep groundwater and heavy soils.

[1] The number of data sets is not a representation of the number of individual monitoring wells, well locations, or well sites. See *Section 2.1* for a definition of these terms and *Section 4.3* for a description of the data sets.

6. TN concentrations associated with offsite wells increased at approximately half the rate than the Onsite Group All (i.e., 6.6 mg/L from 2012 to 2019 compared to 13 mg/L), and the 2019 mean was approximately half that of onsite wells (24 mg/L compared to 46 mg/L).
7. Of the three management units, the 2012-2019 TN concentration increase in wells associated with fields was similar to the Comprehensive (All) subgroup (11 mg/L compared to 13 mg/L). This is consistent with the fact that field wells contribute the largest subset of data points. Groundwater near lagoons exhibited the greatest concentration increase over the 8-year monitoring period (30 mg/L; p=0.02). However, this trend was strongly affected by nine outliers (i.e., nine observations out of 340 observations, all associated with a single well). The removal of the outliers reduces the slope coefficient to 0.0016 (i.e., 4.7 mg/L over 8 years). TN concentrations associated with animal housing held steady (p=0.85)
8. 2019 mean TN concentrations were 62, 42, and 38 mg/L for wells associated with lagoons, fields, and animal housing, respectively. The mean for the lagoon wells was strongly affected by nine outliers as indicated by a much smaller median of 30 mg/L (compared to 40 and 25 mg/L for field and animal housing wells, respectively).

Since the beginning of monitoring activities in what is likely the largest industry-specific monitoring well network of its kind in the United States, it has become increasingly clear that groundwater monitoring alone is not a suitable tool to evaluate on-farm management practices or to develop recommendations for solutions and upgrades. Therefore:

- Annual reports generally do not attempt to explain groundwater quality based on management practices.
- Annual reports do not attempt to infer the adequacy of management practices for the protection of groundwater based on groundwater quality.
- Recommendations in the SRMR aim at improving nitrogen use efficiency on dairies regardless of constituent concentrations in first encountered groundwater.

Other key findings to date are summarized below:

1. Groundwater monitoring with respect to lagoon performance provides no information on the concentration of lagoon seepage, the seepage rate, overall subsurface mass loading rate, or the duration of the loading. Although groundwater monitoring provides quantitative information, this information can only be used qualitatively with respect to lagoon seepage, i.e., supporting a statement such as, “groundwater chemistry is (or is not) indicative of lagoon seepage”.
2. In the context of fields, NUE improvements aim to reduce movement of nutrients below the crop root zone. However, the reduction of subsurface mass emissions does not necessarily result in concentration decreases at the water table below fields. This holds true for conservative salts as well as for nitrate and other minerals taken up by plants.
3. The General Order’s premise that monitoring of first encountered groundwater can universally identify (i) specific management practices that are either protective or not protective of groundwater quality, and (ii) solutions and upgrades that will result in compliance (meaning protectiveness of groundwater quality) is not realistic with possible exceptions in extreme cases.

Stated differently, groundwater protection cannot be assumed or guaranteed based on the implementation of particular management practices (MPs); again, with possible exceptions in extreme cases.

- A MP can be an activity, process, operational range, structure, or use of technology with the aim to reduce N leaching (e.g., conduct irrigation system performance, convert from flood irrigation to subsurface drip irrigation, use weather-based irrigation scheduling, include a deep-rooted perennial crop such as alfalfa in rotation, apply fertilizer in small multiple doses rather than large single doses, install and use a flow meter to quantify lagoon water applications to crops). Management practices can be carried out with different intensity, frequency, and with various amounts of care, all of which may affect their effectiveness. Therefore, any one MP can be expected to have a wide range of effects on groundwater quality or none.
- A MP may have much less of an effect on groundwater quality than the day-to-day decisions that may be associated with a given practice. For example, the determination of cutoff time based on visual observation of the irrigation water advance over the check is a common practice associated with surface irrigation systems. The decision for cutoff has to be made check-by-check, many times during the irrigation season while balancing the need to irrigate the entire field with the desire to minimize leakage losses. Yet, the degree to which this decision optimizes these competing goals (i.e., meet crop water requirement, but minimize leakage loss while maintaining sufficient flushing of salts from the root zone) may vary widely. Fundamentally, many management practices (e.g., optimization of cutoff time) appear to be categorical in nature and, thus, may appear to non-agronomists to inform evaluation of the effects of practices on groundwater quality. However, the farm implementation of a practice is, more often than not, subjective, variable through time, and practically not quantifiable.

4. Whole-lagoon seepage rates (n=17) ranged from zero to 2.2 mm d^{-1} with the exception of one outlier lagoon where exposed gravel strata may be present and a maximum seepage rate of 3.9 mm d^{-1} was determined. The mean and median seepage rates were 1.1 and 0.7 mm d^{-1}, respectively. Ten of the 17 tested lagoons had seepage rates ≤0.8 mm d^{-1}, which is smaller than the most recent and stringent U.S. Department of Agriculture Natural Resources Conservation Service design seepage rate of 0.86 mm d^{-1} (NRCS 1997; NRCS 2009).
    - Due to fairly consistent performance across the range of lagoons evaluated, CVDRMP was unable to identify variables (other than potentially exposed gravel strata) that could be used to predict performance in existing earthen-lined lagoons.
    - The results are consistent with the pertinent academic literature. Specifically, small seepage rates and a narrow range of seepage rates across the soil textures ranging from clay to coarse sand have been documented in other studies, which have been attributed to the moderating effect of a sludge layer of very low hydraulic conductivity.
    - The results contradict seepage rates suggested by *Review of Animal Waste Management Regulations, Task 2 Report: Evaluate Title 27 Effectiveness to Protect Groundwater Quality* (BVA 2003). That report implied seepage rates ranging from centimeters to meters per day

that were based on theoretical hydraulic conductivities associated with soil textures in accordance with Title 27 regulations.

- The mean lagoon nitrogen subsurface loading rate was estimated at 1,045 lbs ac^{-1} y^{-1}.

5. A comprehensive literature review did not find quantitative information indicating the effectiveness of specific management measures in reducing seepage of earthen lagoons below existing levels. Many management measures appear to be based on what is considered common sense. However, whether such measures actually reduce seepage is largely unknown. Given the small seepage rates and the associated quantified imprecision (i.e., uncertainty) inherent in whole-lagoon seepage testing, it is expected that, in most cases, this imprecision would be prohibitively large to identify further incremental seepage reductions due to the implementation of specific management measures. Therefore, additional field studies were deemed unpromising.
6. Results from an extensive corral subsurface hydrogeologic investigation indicate the mean corral nitrogen subsurface loading rate was estimated at 121 lbs ac^{-1} y^{-1}. This rate was computed from groundwater total nitrogen concentrations in samples retrieved from temporary boreholes and an estimate of groundwater recharge. Therefore, it constitutes a mass flux to groundwater. To avoid incidental underestimation of the mass flux, the estimate was made with a high recharge rate (i.e., 40% of liquid deposition comprised of urine, feces, and precipitation) and assumed year-round corral occupation (i.e., open lot dairy) in an area of comparatively high annual precipitation (i.e., 22 in) such as the northern Sacramento Valley.
7. Harter, Dzurella et al. (2017) estimated nitrogen loading from manured dairy cropland by employing a comprehensive approach that accounted for the entirety of the Central Valley dairy industry. The authors estimated that dairies in the Central Valley apply 174 Gg y^{-1} of manure-N on their cropland by accounting for excretion rates, herd size, 40% volatilization losses prior to land application, and manure exports off the dairies. They estimated a mean application rate of 890 lbs ac^{-1} y^{-1} of manure-N to dairy cropland. The authors then used an application-removal ratio of 1.7 and, thus, estimated that of the applied nitrogen, 368 lbs ac^{-1} y^{-1} are not removed from the field with the harvested portion of the crop.
8. Using the subsurface loading estimates that were developed for lagoons, corrals and cropland, in combination with their associated acreage (Harter, Dzurella et al. 2017), the industry-wide proportional N contribution from these management units are 2%, 4%, and 94%, respectively.
9. The injection of liquid manure water into the irrigation system is conceptually identical to the injection of synthetic fertilizers (e.g., anhydrous ammonia). The application rate of synthetic fertilizers can be precisely adjusted due to the homogeneity of the product. In contrast, total nitrogen concentrations and the proportion of plant-available ammonium and plant-unavailable organic nitrogen in liquid manure water applications vary substantially over the duration of the irrigation of a single field. CVDRMP is not aware of existing technology that can make real-time adjustments to maintain a constant N-application rate. This is one of the most fundamental challenges of nutrient management on Central Valley dairies.
10. Chang, Harter et al. (2005) provide the rationale that led to the implementation of an AR ratio of 1.4 in the General Order. Using their theoretical example with 153 lbs N input and 100 lbs N harvest removal (i.e., AR ratio = 1.53), a small inaccuracy of ±15% on the input yields AR ratios

ranging from 1.30 to 1.76. The same ±15% inaccuracy on the harvest removal yields AR ratios ranging from 1.33 to 1.80. Additive and subtractive 15% inaccuracies yield AR ratios of 2.07 and 1.13, respectively.

- This example shows that the AR ratio is very sensitive to small inaccuracies of N-inputs and outputs. This sensitivity may explain, in part, the field-specific variability of AR ratios from one season to the next. It also has significant implications for its utility as a regulatory compliance tool.

1 INTRODUCTION AND OVERVIEW

This report was prepared for the Central Valley Dairy Representative Monitoring Program (CVDRMP), the administrative body managing the Representative Monitoring Program (RMP). It is referred to as the "Year 8" Annual Report and aims to satisfy the regulatory requirements under the *Reissued Waste Discharge Requirements General Order No. R5-2013-0122 for Existing Milk Cow Dairies* (2013 General Order), adopted by the Central Valley Regional Water Quality Control Board (Central Valley Regional Board) on October 3, 2013 (CVRWQCB 2013). *General Order No. R5-2013-0122* rescinds and replaces the 2007 General Order (CVRWQCB 2007). In this Annual Report, the term 'General Order' is used in collective reference to both the 2007 and 2013 General Orders, their respective Monitoring and Reporting Programs (MRPs), and all other attachments. Specificity is added, when needed, by identifying the years of adoption (i.e., 2007 General Order and 2013 General Order).

The key regulatory requirement that CVDRMP seeks to satisfy is the identification of management practices that are protective of groundwater quality for the range of conditions found at participating facilities. Specifically, the 2013 General Order requires (*Item 23b*, page 7):

> *Summary Representative Monitoring Report: Six (6) years following submittal of the first ARMR, the RMP must submit a Summary Representative Monitoring Report (SRMR) to the Board's Executive Officer. The SRMR is to identify management practices that are protective of groundwater quality for the range of conditions found at participating facilities. Based on information supplied in the SRMR, if management practices are found not to be protective of groundwater quality, the SRMR must propose solutions and upgrades that will result in compliance.*

Provision III. 10 (page MRP-24p) states:

> *No later than six (6) years following submittal of the first ARMR, the Representative Monitoring Program shall submit a Summary Representative Monitoring Report (SRMR) identifying management practices that are protective of groundwater quality for the range of conditions found at facilities covered by the Representative Monitoring Program. The identification of management practices for the range of conditions must be of sufficient specificity to allow participants covered by the Representative Monitoring Program and the Central Valley Water Board to identify which practices at monitored facilities are appropriate for facilities with a corresponding range of site conditions, and generally where such facilities may be located within the Central Valley (e.g., the summary report may need to include maps of the Central Valley that identify the types of management practices that should be implemented in certain areas based on specified site conditions). The summary report must include an adequate technical justification for the conclusions incorporating available data and reasonable interpretations of geologic and engineering principles to identify management practices protective of groundwater quality. The summary report is subject to approval by the Executive Officer.*

The 2013 General Order states that it applies to approximately 1,300 milk cow dairies. CVDRMP's membership as of March 2017 was 1,098 dairies.

1.1 Legal and Regulatory Background

Division 7 of the Water Code contains California's Porter-Cologne Water Quality Control Act (Porter-Cologne). The Legislature enacted Porter-Cologne in 1969, providing "activities and factors which may affect the quality of the waters of the state shall be regulated to attain the highest water quality which is reasonable, considering all demands being made and to be made on those waters and the total values involved, beneficial and detrimental, economic and social, tangible and intangible." (Wat. Code, § 13000) The Legislature designated the State Water Resources Control Board (State Board) and nine Regional Water Quality Control Boards (Regional Boards) as the agencies responsible for regulation of water quality under Porter-Cologne. (Id., § 13001.) Each Regional Board is responsible for water quality protection, permitting, inspection, and enforcement within its region. (Id., § 13225(a).)

Porter-Cologne provides two primary tools to Regional Boards to regulate the discharge of waste into waters of the state. Regional Boards may: (1) issue Waste Discharge Requirements (WDRs) prescribing conditions under which a person may discharge waste (Wat. Code, § 13263), or (2) adopt a waiver of WDRs (Wat. Code, § 13269). As with WDRs, a Regional Board may proscribe conditions for waivers of WDRs. (Id., § 13269.) Porter-Cologne's permitting requirements apply to any "person discharging waste, or proposing to discharge waste, within any region that could affect the quality of the waters of the state, other than into a community sewer system." (Id., § 13260(a)(1).)

Sometimes WDRs are issued to an individual discharger who has filed a "report of waste discharge" and requested the permit. (Wat. Code, § 13260.) Other times, a Regional Board may issue general WDRs for a category of dischargers if the Regional Board determines that (i) the discharges are produced by the same or similar operations; (ii) the discharges involve the same or similar types of waste; (iii) the discharges require the same or similar treatment standards; and, (iv) the discharges are more appropriately regulated under general discharge requirements than under individual discharge requirements. (Id., § 13263(i).) The General Order here falls into this category. When issuing WDRs, a Regional Board is required to consider a number of factors, including those specified in Water Code section 13241, which includes economic consideration. (Wat. Code, §§ 13263(a), 13241(d).)

Porter-Cologne further authorizes Regional Boards to conduct investigations and inspections to verify compliance with the act and with the terms of WDRs and waivers. (Wat. Code, § 13267(e).) A Regional Board may also require dischargers to furnish technical or monitoring reports. (Id., § 13267(b).) The first Annual Report (LSCE 2013b), as discussed further below, responded to a monitoring and reporting requirement issued by the Central Valley Regional Board on February 23, 2011 (CVRWQCB 2011b)(rescinded and replaced by the 2013 General Order).

Besides requiring Regional Boards to issue WDRs, Porter-Cologne also requires each Regional Board to adopt "water quality control plans" or "Basin Plans" for areas within each region. (Wat. Code, § 13240.) Basin Plans are required to conform to the policies set forth in Chapter 1 of Porter-Cologne, including the legislative mandate that activities affecting water quality be regulated to the highest quality that is reasonable considering all of the demands being made and to be made upon the waters. (Id. §§ 13000, 13240.) Further, Basin Plans identify and designate the "beneficial uses" for each water body in the region. (Id., § 13050(j).) Examples of "beneficial uses" for groundwater include municipal supply, agricultural supply, and industrial supply. Basin Plans also establish Water Quality Objectives (WQOs), which are defined to mean, "the limits or levels of water quality constituents or characteristics which

are established for the reasonable protection of beneficial uses of water or the prevention of nuisance within a specific area." (Wat. Code, § 13050(h).) WQOs may be numeric or narrative standards. Further, Basin Plans are to include a program of implementation to achieve the adopted WQOs. (Id., § 13242.)

When a Regional Board issues WDRs or conditional waivers, it must do so consistent with applicable Basin Plans. (Wat. Code, §§ 13263(a), 13269(a)(1).) However, instantaneous compliance with WQOs is logically not required by Porter-Cologne. (Ibid. as to both cites) Rather, the Regional Board is given discretion to achieve this consistency, including setting of time schedules. (Id., § 13263(c).) The Central Valley Regional Board adopted two Basin Plans under Porter-Cologne in 1975. They include the Water Quality Control Plan for the Sacramento and San Joaquin River Basins (Sacramento-San Joaquin Basin Plan) and the Water Quality Control Plan for the Tulare Lake Basin (Tulare Lake Basin Plan). Both Basin Plans have been amended several times over the years and are subject to regular review approximately every three years.

Since 2008, various stakeholders in the Central Valley (including dairy industry representatives) have led and funded an initiative to develop a Central Valley-wide salt and nitrate management plan. The initiative is referred to as the Central Valley Salinity Alternatives for Long-term Sustainability (CV-SALTS), and one of its primary objectives was to provide the basis for amendments to the Sacramento-San Joaquin and Tulare Lake Basin Plans to address ongoing salinity and nutrient concerns in the Central Valley Region.

On October 16, 2019 the State Water Resources Control Board voted to approve the Central Valley Regional Board's amendments to the Sacramento and San Joaquin Basin Plan and the Tulare Lake Basin Plan to incorporate a Central Valley-wide Salt and Nitrate Control Program (SWRCB 2019). The Basin Plan amendments were adopted by the Central Valley Regional Board on May 31, 2018 (CVRWQCB 2018). The Salt and Nitrate Control Program provides a new framework for the Regional Water Board to regulate salt and nitrate, while also ensuring a safe drinking water supply. With these amendments, the Central Valley Regional Board will be able to ensure safe drinking water in affected areas and offer greater flexibility for discharger compliance.

1.2 Procedural and Chronological Background

The General Order defines an existing milk cow dairy as a dairy that (i) was operating as of October 17, 2005, (ii) filed a complete Report of Waste Discharge in response to the Central Valley Regional Board's August 8, 2005 Report of Waste Discharge Request Letter, and (iii) has not expanded since October 17, 2005 (i.e., its herd size has not increased by more than 15%). The General Order regulates waste discharges to land and imposes significantly more stringent requirements than in the past.

Relative to groundwater monitoring, the 2007 General Order and its accompanying Monitoring and Reporting Program (MRP) specify two requirements: (1) monitoring of domestic and agricultural supply wells at dairies, and (2) additional groundwater monitoring. The latter requirement can be implemented by the Executive Officer by ordering individual dairies to install monitoring wells ("site-by-site approach"). However, the 2007 General Order also authorizes the

Executive Officer to approve alternative monitoring methods; its Information Sheet (page IS-8) states:

> *In the future, the Executive Officer or Central Valley Water Board may determine that a proposed alternative method of environmental monitoring is appropriate to determine if groundwater protection is being achieved. One suggested alternative has been to allow regional groundwater monitoring as a substitute for groundwater monitoring at individual dairies. Any proposed alternative will require sufficient details for consideration by either the Executive Officer or Central Valley Water Board. The Executive Officer or the Central Valley Water Board must issue a monitoring and reporting program order for any alternative environmental monitoring.*

In response to a preliminary evaluation of options (CVRWQCB 2009), and to further the development of an alternative environmental monitoring method, Dairy Cares (www.dairycares.com) submitted a proposal on October 5, 2009 (Cares 2009) to the Central Valley Regional Board Executive Officer for the development of a collaborative plan that would allow a representative groundwater monitoring approach to satisfy the additional groundwater monitoring requirements in lieu of the site-by-site approach of the General Order MRP.

The Central Valley Regional Board held a February 4, 2010 stakeholder meeting in Rancho Cordova where Luhdorff and Scalmanini, Consulting Engineers (LSCE) presented an initial outline of the representative groundwater monitoring approach, which was developed based on over a decade of dairy-specific and groundwater-related research in the Central Valley and a regional monitoring approach proposed by Dr. Thomas Harter of the University of California Cooperative Extension (UCCE) in September 2008 (Harter 2008). The monitoring approach was discussed in greater detail at the meeting of the Central Valley Regional Board's Groundwater Advisory Workgroup in Rancho Cordova on March 9, 2010.

Concurrently, LSCE evaluated dairy farm characteristics along with environmental parameters to determine an area in the Central Valley that is most sensitive to dairy management practices in the *Report of Results* (LSCE 2010). This area was identified to be in Stanislaus and Merced Counties between the San Joaquin River and Highway 99, and was selected for initiating the RMP based on delineation of those areas in the Central Valley where high groundwater nitrogen and salt concentrations are thought to be substantially attributable to dairy operations and where changes in water quality are most likely to be detected quickly due to adoption of management practices required by the General Order. The analysis included comparison of key information such as:

- Relative dairy farm/milk cow densities and other historical livestock operations data
- Historical average depths to groundwater
- Soil permeability
- Historical recharge to groundwater
- Observed historical groundwater nitrate and total dissolved solids (TDS) concentrations
- Whole farm nitrogen balances submitted to the Central Valley Regional Board in response to the General Order

This work effort recommended that the representative groundwater monitoring be initiated in Stanislaus and Merced Counties (i.e., from the Stanislaus River in the north and the Chowchilla River in the south) between the San Joaquin River and Highway 99 (this area is referred to as the high priority

area). Results of this work effort were presented at the April 5, 2010 stakeholder meeting held at the Central Valley Regional Board's offices in Rancho Cordova.

Subsequently, two concurrent work efforts ensued. One was the formation of an administrative body to manage the RMP. This occurred on May 17, 2010 with the founding of the CVDRMP. The other effort concerned the modification of the MRP to provide regulatory support for the RMP. The revised General Order MRP was issued by the Central Valley Executive Officer on February 23, 2011 (CVRWQCB 2011b).

On June 16, 2011, CVDRMP submitted the *Public Review Draft Monitoring and Reporting Workplan and Monitoring Well Installation and Sampling Plan Phase 1: Initiation of Representative Groundwater Monitoring Network Design & Monitoring Program, Existing Milk Cow Dairies – Stanislaus and Merced Counties, California* (finalized without changes January 11, 2012 (LSCE 2012b)), which was followed by a 30-day public review period and subsequent conditional approval on September 9, 2011 (CVRWQCB 2011a). The Phase 1 well installation campaign commenced without delay and was concluded with the installation of 108 nested well structures, each with two monitoring wells in one borehole, for a total of 216 monitoring wells in November 2011. The Phase 1 RMP well network also includes 18 pre-existing monitoring wells. The results of this work effort were described in the *Monitoring Well Installation Completion Report Phase 1 Representative Monitoring Program, Existing Milk Cow Dairies – Stanislaus and Merced Counties, California* (LSCE 2012d).

On June 6, 2012, CVDRMP submitted the *Public Review Draft Monitoring and Reporting Workplan and Monitoring Well Installation and Sampling Plan, Phase 2: Representative Groundwater Monitoring Network Design & Monitoring Program, Existing Milk Cow Dairies – Central Valley, California (LSCE 2012c; LSCE 2013c)*, which was followed by a 30-day public review period and the *Addendum Monitoring and Reporting Workplan and Monitoring Well Installation and Sampling Plan, Phase 2: Representative Groundwater Monitoring Network Design & Monitoring Program, Existing Milk Cow Dairies – Central Valley, California* (LSCE 2012a). Conditional approval was given on August 27, 2012 (CVRWQCB 2012). The Phase 2 well installation campaign commenced without delay and was concluded with the installation of 55 monitoring wells in October 2012 (LSCE 2014d). The Phase 2 RMP well network also incorporated 146 pre-existing monitoring wells. Groundwater data collection in the Phase 1 network of wells commenced in January 2012. Groundwater data collection in the Phase 2 network of wells commenced in January 2013.

CVDRMP submitted its first annual report on April 1, 2013 (LSCE 2013b). The representativeness of the program was comprehensively evaluated and confirmed after the 2012 Phase 2 expansion in the *Central Valley Dairy Representative Monitoring Program Evaluation of Representativeness* (LSCE 2013a) and was revisited by the Multidisciplinary Advisory Committee at its January 2014 meeting. As a result of this concerted effort, including independent external review, it was concluded that the 42 actively monitored RMP dairies exhibit the range of pertinent site conditions and farm practices that are presently employed on Central Valley dairies.

In 2014, CVDRMP carried out well network improvements including several new well installations and the abandonment of one pre-existing monitoring well in Stanislaus and Merced Counties (LSCE 2014b; LSCE 2015a), which brought the total number of monitoring wells to 443. In November 2019, two

nested well structures were abandoned bringing the total number of monitoring wells to 439 as of December 2019 (CVRWQCB 2019; LSCE 2019c; LSCE 2020).

The General Order was reissued on October 3, 2013 and provides more explicit language than the previous General Order and the revised MRP regarding the options of individual groundwater monitoring and participation in a Representative Monitoring Program. Specifically, *Item 23* (page 6) states.

> *Under the MRP, Dischargers have the option of either implementing individual groundwater monitoring or participating in a Representative Monitoring Program (RMP) to identify whether or not their specific management practices are resulting in adverse impacts to groundwater (i.e., whether the discharge is in compliance with the groundwater limitations of this Order).*

The Summary Representative Monitoring Report (SRMR) was submitted to the Central Valley Regional Water Quality Control Board on April 2, 2019 (CVDRMP 2019).

1.3 CVDRMP Initiatives

CVDRMP has carried out substantial, voluntary work efforts including literature review and field data collection in addition to requirements for data collection set forth in the Dairy Order (LSCE 2008; LSCE 2012e; LSCE 2014a; LSCE 2015b; LSCE 2015d; LSCE 2016b; LSCE 2017c; LSCE 2017a; LSCE 2019b). One of the most important findings pertains to the estimation of the absolute and proportional subsurface loading of lagoons, corrals, and manured cropland. Based on extensive field work, measurement and data collection, CVDRMP developed loading estimates for lagoons and corrals. In addition, Harter, Dzurella et al. (2017) developed a loading estimate for manured cropland for Central Valley dairies and digitized lagoons (including settling basins), corrals, and manured cropland. Based on these combined efforts, industry-wide proportional N contribution from corrals, lagoons, and manured cropland was 2%, 4%, and 94%, respectively.

1.4 External Advisory Committees

CVDRMP is collaborating with two external advisory committees, the Groundwater Technical Advisory Committee (GTAC) and the Multidisciplinary Advisory Committee (MAC). CVDRMP has successfully solicited participation from experts in a variety of fields that are pertinent to the program and will continue to expand and modify membership as program needs evolve. Presently, the committees are comprised of hydrologists, geologists, geochemists, agronomists, agricultural engineers, irrigation and soils experts, dairy producers, and service providers to the dairy community. Committee members span the private, public, non-profit, and academic sectors, including (i) consultants, (ii) staff from the Central Valley Regional Board, California Department of Food and Agriculture, and (iii) research staff from the U.S. Geological Survey, Lawrence Livermore National Laboratory, and UC Davis including its Cooperative Extension Service.

The focus of the GTAC has included:

- The concept of the representative monitoring approach.

- Selection criteria for of dairy farm locations to ensure that the monitoring well network is representative of hydrogeologic conditions such that conclusions developed from their monitoring data are relevant to non-monitored dairies.
- Scope of RMP groundwater data collection effort.
- Soundness of analytical tools and interpretations.

A selection of specific GTAC input and factual observations that are supported by the GTAC are summarized below[2].

1. Documentation of management practices is important to support the evaluation of cause/effect relationships between surface processes (i.e., management practices) and the quality of first encountered groundwater. These relationships are most clearly established in areas of thin, sandy vadose zones and well-documented current management practices.
2. Notwithstanding Item 1, a groundwater constituent concentration yields no information on the lagoon seepage rate, the strength of the seepage, overall subsurface loading rate, or duration of the loading. This means that a high concentration of an indicator parameter does not support the conclusion of "lots of seepage." Similarly, a low concentration of an indicator parameter does not support the conclusion of "little seepage." Also, the absence of detectable impacts to groundwater quality does not provide conclusive evidence for zero-seepage or no impact to groundwater quality.
3. The thicker the vadose zone (other variables held constant), the more attenuated management practice-related signals will become in first encountered groundwater. This confounds interpretation of groundwater quality data with respect to management practices and may introduce uncertainty surrounding interpretations and conclusions. Therefore, well-documented historical management practices (in addition to current management practices) become even more important for dairies situated on thick unsaturated zones. Additional favorable attributes for these dairies are minimal change of management practices over time, or at least well-documented management practices that are typical for a region.
4. To support the examination of cause/effect relationships and conclusions with high confidence, the data set needs to facilitate analysis based on source loading rather than reactive transport. This favors data collection efforts in areas of shallow groundwater and thin vadose zone.
5. Distinguishing transport processes (e.g., denitrification) from source loading in controlling groundwater nitrate concentrations will be important in identifying management practices that minimize nutrient loading to the water table. To address this, the redox characteristics[3] of groundwater samples should be documented with field measurements of (at least) dissolved oxygen and (preferably also) the oxidation-reduction potential. Laboratory analyses of Fe, Mn, and sulfide were suggested as useful constituents to be added to the current monitoring effort.
6. Groundwater age dating can be a useful tool to supplement the current data collection effort, particularly in areas of thick vadose zones. However, it may also provide insights in areas of thin vadose zones.

[2] Items 1 and 3-12 first (GTAC meeting, July 2012); Item 2 (GTAC, February 2015).

[3] This term refers to the groundwater's oxygen content, i.e., whether it provides a reducing or oxidizing environment.

7. All dairies should be sampled at the same sampling interval for at least two years to document variability in groundwater nitrate and salt concentrations and to allow more robust statistical comparisons.
8. Sampling frequencies should be sufficient to support the evaluation of seasonal trends.
9. Identification of the depth to groundwater and the relation of the water table to the monitoring well screen is important for the interpretation of groundwater quality data.
10. Synchronized depth-to-water readings should be obtained from shallow and deep nested monitoring wells (MWs) during sampling campaigns.
11. Synchronized groundwater quality sampling from shallow and deep nested MWs may benefit the program by providing insight into the depth dependence of groundwater quality and for interpreting seasonal variations in groundwater quality.
12. During well drilling, continuous core sampling (as opposed to retrieval of 18-inch cores with a split barrel sampler every 5 feet) may provide additional lithologic information that can be helpful in the interpretation of groundwater quality.

The focus of the MAC has included:

- The concept of the representative monitoring approach.
- Selection criteria for dairy farm locations to ensure that the monitoring well network is representative of dairy farming practices such that conclusions developed from their monitoring data are relevant to non-monitored dairies.
- Insights on innovative methodologies, approaches, and analytical tools (e.g., whole farm nitrogen use efficiency modeling, modeling of nitrogen and salt movement in the root zone, and groundwater modeling) to support the RMP.

Additional tasks include:

- Review and evaluation of results from implemented methodologies, approaches, and analytical tools.
- Review and/or development of approaches to improved, comprehensive nutrient management.
- Identification of potential research needs.
- Identification of potential solutions in response to findings of the RMP.

At a January 2015 meeting, the MAC deemed the following four components indispensable for good nutrient management on dairies:

1. Accurate measurements of irrigation water, nutrient inputs, and nutrient harvest removal
2. Ability to apply specific amounts of manure nutrients at the target rates and times they are needed
3. On-farm record keeping which provides timely computation of application amounts
4. A means of estimating organic N release, expected leaching losses and other dynamic nitrogen processes throughout the season and integrating this information into management decisions to identify the need for adjustment of application rates from the pre-season plan

Key components of the RMP were developed with input from the MAC and include the variety of:

- Flush and scrape dairies

- Lagoons with different construction characteristics including unlined lagoons, earthen-lined, and synthetically lined lagoons
- Crops and crop rotations
- Irrigation systems
- Irrigation water sources
- Irrigation practices
- Nutrient sources for crop fertilization
- Nutrient applications

A selection of specific input received from the MAC prior to the expansion of the RMP from 18 to 42 dairies is summarized below.

1. Tile drain sampling is a suitable, low-cost alternative to groundwater sampling.
2. The collection of sufficiently accurate information regarding irrigation and nutrient management is critical to the evaluation of management practices.
    a. Major challenges are the lack of accurate, quantifiable flow control and the lack of accurate quantification of nitrogen (inorganic and organic components) and mineral content in irrigation water and lagoon water during irrigation events.
3. Inclusion of dairies in the south San Joaquin Valley is necessary in order to capture different irrigation systems, cropping practices, and soil types.
4. It was recognized that groundwater monitoring in areas of deeper groundwater is not a preferred choice due to (i) the increasing delay between surface processes and groundwater quality changes and (ii) the decreased "signal strength"[4] of the groundwater quality changes in response to distinct irrigation/nutrient management practices. Deep groundwater poses major difficulties for groundwater quality analysis and establishing a causal link between surface practices and groundwater quality changes.
5. Nevertheless, many dairy farmers located in areas of deep groundwater are unlikely to be accepting of recommendations developed based on a data collection and analysis effort limited to areas of shallow groundwater.
6. Dairy farmers need to be made part of the process of recommendations development.

1.5 Outreach and Status Updates

CVDRMP held semi-annual public meetings through the submittal of the Summary Representative Monitoring Report (CVDRMP 2019) to brief interested parties on RMP activities, findings, progress, and planned future activities. Meeting locations alternate between the Central Valley Regional Board's offices in Rancho Cordova and Fresno. In addition, CVDRMP meets with Central Valley Regional Board staff on an as-needed basis and provided several formal status updates to Central Valley Regional Board staff (LSCE 2014e; LSCE 2015e; LSCE 2016c; LSCE 2016d). CVDRMP's Annual Reports (LSCE 2013b; LSCE 2014c; LSCE 2015c; LSCE 2016a; LSCE 2017b; LSCE 2018; LSCE 2019a) and many other pertinent documents are available at

[4] Essentially, the increased travel time and differential flow velocities through a thick unsaturated zone obscure a clearly identifiable response to management practices on the surface.

(https://www.waterboards.ca.gov/centralvalley/water_issues/confined_animal_facilities/groundwater_monitoring/

2 THE REPRESENTATIVE MONITORING PROGRAM

2.1 Monitored Dairies and Well Network

The RMP started groundwater monitoring activities in January 2012 on 18 dairies in Stanislaus and Merced Counties. In January 2013, monitoring activities were expanded to a total of 42 dairies[5], including facilities as far north as Tehama County and as far south as Kern County (**Table 2-1**, **Figure 2-1**). As of November 2014, the monitoring well network on these dairies comprised 443 dedicated monitoring wells (**Table 2-2**). This includes seven wells that were installed in fall 2014. Two nested monitoring well structures were destroyed in November 2019 (CVRWQCB 2019; LSCE 2019c; LSCE 2020). Therefore, as of December 2019, there were 439 monitoring wells in the network. Many of the wells were installed as nested wells (i.e., two or more wells in one borehole) or in well clusters (i.e., two or more wells installed adjacent to each other as a pair or group) to facilitate groundwater sample retrieval from the uppermost zone of first encountered groundwater under variable groundwater level conditions. The following terms are used throughout this document:

Monitoring Well. Monitoring well refers to a single well casing. As of December 2019, the network comprises 439 monitoring wells. A monitoring well may share the borehole with another monitoring well (i.e., a nested well structure).

Well Location. A well location is a single well structure comprising one or more monitoring wells. The number of well locations is equal to the number of boreholes that were drilled to install monitoring wells. As of December 2019, the network comprises 277 well locations.

Well Site. A well site comprises either one or more single wells, or a nested well structure, or a combination thereof. As of December 2019, the network comprises 248 well sites. At each well site, one groundwater sample is retrieved from the monitoring well that intersects the uppermost portion of first encountered groundwater. Therefore, the number of well sites indicates the number of samples to be retrieved during a groundwater quality sampling campaign.

Shallow and deep nested wells that were installed by CVDRMP were identified with an “s” or “d”, respectively. The “s” and “d” designation does not imply that these wells are completed in distinct and separate water bearing zones at any one well location. Monitoring well networks that were installed by UC Davis for research purposes feature well clusters with a single completion well and up to three nested wells. In these cases, the single completion well is identified with an “A”, and subsequently deeper monitoring wells in the nested facility are identified with “B, C, and D”, respectively (**Table 2-3**). At these well clusters, the “A” wells were purposefully constructed as dry wells above first encountered groundwater (as encountered at the time of drilling) to accommodate a well structure

[5] Since then, one dairy converted to a heifer ranch and four dairies converted to farms without livestock. Monitoring wells remain in place and continue to be part of this program.

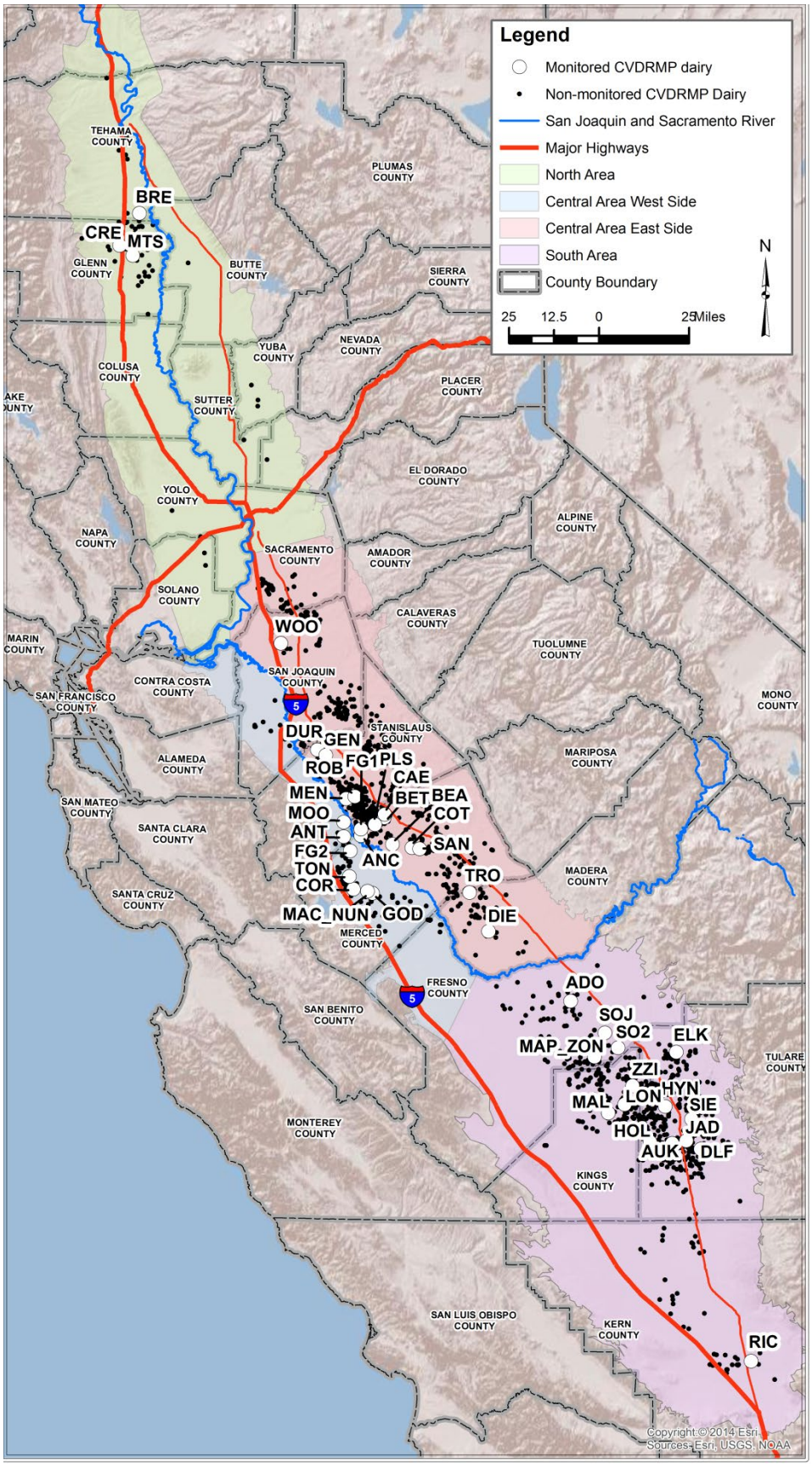

Figure 2-1: Location Map of Monitored CVDRMP Dairies. Identification of geographic areas (i.e., North, Central – East, Central – West, and South) is for organizational purposes, only. Areas do not imply similar site conditions or operational similarities.

that continues to monitor the uppermost zone of first encountered groundwater should groundwater levels substantially rise in the future. Unlike CVDRMP-installed wells, "A, B, C, and D" wells are typically separated by materials of low hydraulic conductivity. Wellhead survey coordinates are summarized in **Table 2-4**. Monitoring wells are shown on maps of the dairy's production areas and associated field maps (**Map Series**).

2.2 Groundwater Data Collection

The RMP consists of monthly depth-to-water measurements in its 443 network wells and quarterly groundwater sampling campaigns at 250 well sites (**Tables 2-5** and **2-6**). At each well site, a groundwater sample is retrieved from the monitoring well that intersects the uppermost portion of first encountered groundwater. When groundwater levels decline below the shallow well screen, a sample is retrieved from the next deeper well. Monitoring field activities were carried out by Del-Tech Geotechnical Support in the Central Area and by Blaine Tech Services in the North and South Areas. Laboratory analytical services are provided by BC Laboratories. BC Laboratories is certified through the State of California (Department of Health Services Environmental Laboratory Accreditation Program).

2.3 Concept of the Source Area of a Well

The concept of the source area of a well is fundamental to the RMP as it relates to the monitoring well design and the interpretation of groundwater chemical characteristics as a result of dairy management practices specific to management units.

The source area of a well is the area which supplies water to the well. The size of the source area depends on many variables, including the well's construction details, the rate and duration of groundwater extraction, physical properties of the aquifer, and hydrologic conditions. Under absence of pumping, the well's source area essentially becomes a source line, referred to as the monitored source length, s[6]. The monitored source length in recharge dominated hydrologic systems, such as encountered in irrigated agricultural settings, can be conceptualized as follows (Harter, Davis et al. 2002):

eq. 1

$$s = d\frac{v}{r}$$

where,

eq. 2

$$v = K\,i$$

s = monitored source length [L]

[6] Conceptually, the width of the source area approaches zero when a well is not pumped (or in practice, the well diameter). Also, even monitoring wells are pumped during purging and sample retrieval activities. Therefore, the term "source area" will be used in later discussions throughout this document.

d = length of screen below water table [L]
v = horizontal flow [L t^{-1}]
r = recharge rate [L t^{-1}]
K = hydraulic conductivity [L t^{-1}]
i = horizontal gradient [L L^{-1}]

Eq. 1 states that s increases linearly with increasing d and v; and it decreases nonlinearly with increasing r. Importantly, when r approaches zero (i.e., no recharge), s becomes infinitely large. This condition may be encountered at synthetically lined lagoons and also, for example, at clay lined lagoons and lagoons constructed in clay soils.

Eq. 1 represents a simplification of the actual system, and the monitored source length is not constant. As water table elevations fluctuate, d changes. Also, v and r are nonsteady. Furthermore, the groundwater flow direction (this is not included in the scalar form of K used in eq. 2) is variable. The single most influential variable on s is the hydraulic conductivity, K. This is due to the wide range of hydraulic conductivities that occur in even relatively homogeneous subsurface materials. The *Handbook of Hydrology* (Maidment 1993) suggests the following ranges of K [m d^{-1}] for subsurface materials comparable to those investigated at the CVDRMP monitoring sites:

Clays: $10^{-7} – 10^{-4}$
Silts: $10^{-4} – 10^{0}$
Sands (fine to coarse): $10^{-2} – 10^{+3}$

For typical values of d (10 ft), i (0.003), and r (1 ft y^{-1}), below are estimates of monitored source lengths (ft) for a range of K (ft d^{-1}) values (values are shown with one significant figure):

K = 1 s = 10
K = 10 s = 100
K = 50 s = 500
K = 100 s = 1,000
K = 500 s = 5,000

Using the above parameters, the largest primary hydraulic conductivity of clay would result in a source length significantly shorter than 1 foot. A well of this characteristic would yield almost no water and would tend to go dry during purging activities. In practice, it is believed that secondary porosity in clay and silt rich soils, caused by fractures and other heterogeneities, effectively increases the RMP wells' monitored source length. This is supported by the fact that RMP monitoring wells that are constructed in clay and silt rich materials generally exhibit good yield characteristics during purging.

2.4 Technical Limitations of Groundwater Monitoring in the Context of the Dairy General Order

2.4.1 Source Area Considerations

Groundwater constituents that have been linked to agricultural activity are nitrogen components and general minerals such as potassium, chloride, sulfate, phosphorous, calcium, and magnesium. These constituents can impart a distinctive agricultural-chemical trademark to groundwater on a regional scale, and elevated concentrations of these constituents have become ubiquitous in shallow groundwater systems in agricultural landscapes, including in the Central Valley. In the absence of a unique identifier (i.e., a constituent present in groundwater that can be directly linked to a specific source), interpretation of groundwater quality data is most successful with consideration of the well's source area. Therefore, RMP monitoring wells positioned downgradient of a management unit are intended to intercept groundwater which originates under the targeted management unit, only. It is important to recognize that this is not physically possible when recharge from a management unit approaches zero, such as may be the case with synthetically lined lagoons, clay lined lagoons, or lagoons constructed in clay soils. Furthermore, nonsteady groundwater flow directions can readily confound the interpretation of groundwater quality and corresponding land uses and management practices.

Monitoring well design options with respect to source areas relate to the placement and length of the well screen. In practice, these options are limited; the placement of the well screen is based on the occurrence of first encountered groundwater during well construction. Regarding screen length, well screens that are too short tend to produce highly variable groundwater quality results that are difficult to interpret in this context. On the other hand, increasing the screen length has been found to contribute significantly to vertical flow components (both upward and downward) within the well structure that can yield misleading and ambiguous data concerning solute concentrations. Therefore, the length of screen sections in RMP wells was typically kept between 5 and 20 feet. The RMP attempts to address the above design challenges with nested wells (i.e., two wells in one borehole with relatively short well screens located at different depth intervals). However, the limited monitoring well design options cannot address the full range of environmental conditions.

With regard to management units on dairies, the monitored source length for fields is expected to be shorter than the extent of the upgradient management unit because these are the largest management units. In addition, recharge to groundwater from irrigated fields is comparatively high. Well design and groundwater monitoring specific to animal housing are more difficult because these areas are typically smaller than the fields, and they are sloped and constructed to reduce infiltration and deep percolation (i.e., recharge to groundwater). The lagoons are often the smallest management unit. If lagoon seepage approaches zero, the source area of a downgradient monitoring well will extend beyond its footprint. In this case, groundwater chemical characteristics cannot be unambiguously attributed to the lagoon, and the identification of seepage impacts on groundwater relies on unique identifiers such as elevated ammoniacal nitrogen.

With increasing depth to first encountered groundwater, the correlation of management unit specific farming practices to groundwater characteristics becomes more difficult. As travel time through the vadose zone increases, the correlation between management practices and groundwater quality impacts diminishes (i.e., the relationship between individual irrigation/fertilization events and groundwater quality diminishes). Physical dispersion, including transport along preferential flow paths and lateral water movement on top of sedimentary deposits of low hydraulic conductivity causes the original signature of the percolate to be attenuated. Even when considering a theoretical homogenous and isotropic porous medium, dispersion will soon moderate the pulses that are signals of individual irrigation and fertilization events and generate an aggregate signal that combines an unknown number of pulse signals, eventually over the course of years. In addition, reactive transport, including sorption and desorption, oxidation, nitrification, denitrification and cation exchange, have the potential to change the chemical characteristics of the percolate along its flow paths before it reaches groundwater. These natural processes impart technical limitations on the interpretation of groundwater monitoring results that cannot be reconciled with monitoring well design.

2.4.2 Concentration and Mass Loading

Groundwater constituent concentrations do not yield information on subsurface mass emissions. In contrast, agricultural improvements in nutrient use efficiencies manifest themselves in subsurface emission reductions, not necessarily in concentration decreases at the water table.

Under ideal conditions, a groundwater constituent concentration may yield information on the effect of a single source on groundwater quality at a specific point in the aquifer. Fundamentally, groundwater constituent concentrations do not yield information on the source's subsurface mass emissions or loading rate. However, agricultural improvements in nutrient use efficiencies manifest themselves in subsurface emission reductions, not necessarily in concentration decreases at the water table. For example, increased water use efficiency, broadly accepted as a desirable goal for irrigated agriculture, directly increases the salinity of the percolate traveling below the crop root zone. For conservative minerals (salts), the basic physical relationship is as follows:

eq. 3

$$C_d = \frac{C_i}{LF}$$

C_d = salt concentration in deep percolating water [mass/volume]
C_i = salt concentration in irrigation water [mass/volume]
LF = leaching fraction [unitless]

where,

eq. 4

$$LF = \frac{(AW - ET)}{AW}$$

AW = applied water that infiltrates the soil [L]
ET = evapotranspiration [L]

A similar technical limitation exists for nitrate in the percolate because improved nutrient management has a non-unique concentration signature at the water table. The fact that plants take up nitrogen does not mean that it cannot become concentrated in the soil water and percolate. In the example below, reducing both water and N-input by 17 percent leads to a 33 percent mass loading reduction. Yet, the concentration of the percolate remains unchanged (i.e., 100 lbs of N in 1.0 af of percolate).

Parameter	Input	ET and Plant Nitrogen Uptake	Deep Percolation
Base Scenario			
Water (af)	3	1.5	1.5
Nitrogen (lbs)	300	150	150
Improved Water and Nutrient Efficiency			
Water (af)	2.5	1.5	1.0
Nitrogen (lbs)	250	150	100

The nature of irrigated agriculture and pertinent physical relationships demonstrate that groundwater *monitoring is not suitable as a primary tool for agricultural management practice evaluation. Instead,* the concept of subsurface loading in the context of irrigated agriculture in California is ultimately key to identifying practices that are protective of groundwater quality at the scale relevant to the protection of beneficial uses. This is achieved by improving nutrient management.

Although groundwater monitoring generates quantitative information, this information can only be used qualitatively such as, "groundwater chemistry is indicative of lagoon seepage." However, seepage is to be expected from lagoons, animal housing, and crop land. Therefore, groundwater monitoring is of limited usefulness.

Groundwater monitoring with respect to lagoon performance is similarly limited. It provides no information on the concentration of lagoon seepage, the seepage rate, overall subsurface mass loading rate, or the duration of the loading. This means that the presence of a high concentration of an indicator parameter does not necessarily equate to "lots of seepage." A high concentration may be associated with a small seepage rate and an overall small subsurface mass loading rate. Similarly, a low concentration of an indicator parameter does not necessarily equate to "little seepage." A low concentration may be associated with a high seepage rate and an overall high subsurface mass loading rate. Although groundwater monitoring generates quantitative information, this information can only be used qualitatively. For example, with respect to lagoon seepage, i.e., supporting a statement such as, "groundwater chemistry is (or is not) indicative of lagoon seepage." Since guidelines, standards, and laws that guided the construction of existing earthen lagoons intended to control seepage but not to

stop it, seepage is to be expected and a data collection effort (e.g., groundwater sampling via monitoring wells or other means) that supports a qualitative statement of whether a lagoon seeps or not, is of limited usefulness.

2.4.3 Management Practices and Groundwater Quality

Groundwater protection cannot be assumed or guaranteed based on the implementation of particular management practices, with possible exceptions in extreme cases.

Agricultural land use and its associated management practices (MPs) affect groundwater quality. This Annual Report and previous annual reports have presented evidence to that end. However, the General Order's premise that monitoring of first encountered groundwater can universally identify (i) specific MPs that are either protective or not protective of groundwater quality, and (ii) solutions and upgrades that will result in compliance (meaning protectiveness of groundwater quality) is not realistic with possible exceptions in extreme cases. Stated differently, groundwater protection cannot be assumed or guaranteed based on the implementation of particular MPs; again, with possible exceptions in extreme cases.

A MP can be an activity, process, operational range, structure, or use of technology with the aim to reduce N leaching (e.g., conduct irrigation system performance, convert from flood irrigation to subsurface drip irrigation, use weather-based irrigation scheduling, include a deep-rooted perennial crop such as alfalfa in rotation, apply fertilizer in small multiple doses rather than large single doses, install and use a flow meter to quantify lagoon water applications to crops). MPs can be carried out with different intensity, frequency, and with various amounts of care, all of which may affect their effectiveness. Therefore, any one MP can be expected to have a wide range of effects on groundwater quality or none. This is exacerbated by the fact that farmers implement many MPs at the same time and/or in sequence. For example, in a border irrigated system, a farmer may choose a certain field slope, irrigation onflow rate, and cultivation practice. This simplified system (slope "1", slope "2", harrowed vs. not harrowed, onflow rate "1" and onflow rate "2") already produces eight treatment permutations. While any one of these permutations may result in substantial irrigation water savings during the pre-irrigation (and thus, contribute to reduced leaching and improved NUE), it may or may not have an effect on the first irrigation or any subsequent irrigations over the course of one growing season. Other factors that may profoundly influence findings include the run length, antecedent soil water conditions, check width, and soil type. Further, even subtle soil (textural) differences on adjacent fields or within fields can produce significantly different results in replicated trials. Finally, in practice, the system is much more complex because there are different types of harrows and other implements available to modify surface roughness, and both slope and onflow rate provide many more options than used in the above example.

The notion to identify specific management practices that are either protective or not protective of groundwater quality via groundwater monitoring is not realistic.

It is important to recognize that a MP may have a lesser effect on groundwater quality than the day-to-day decisions that may be associated with a given practice. For example, the determination of cutoff time based on visual observation of the irrigation water advance over the check is a common practice associated with surface irrigation systems. The decision for cutoff has to be made check-by-check, many times during the irrigation season, while balancing the need to irrigate the entire field with the desire to minimize leakage losses. Yet, the degree to which this decision optimizes these competing goals (i.e., meet crop water requirement, but minimize leakage loss while maintaining sufficient flushing of salts from the root zone) may vary widely. Fundamentally, many MPs (e.g., optimize cutoff time) appear to be categorical in nature and, thus, may appear to non-agronomists to inform evaluation of the effects of practices on groundwater quality. However, the farm implementation of a practice is, more often than not, subjective, variable through time, and practically not quantifiable. Furthermore, farmers are compelled to routinely try new MPs or modify traditional MPs in order to stay competitive. Therefore, the notion to identify specific MPs that are either protective or not protective of groundwater quality via groundwater monitoring is not realistic.

2.4.4 Groundwater Confinement

With increasing depth to first encountered groundwater, confinement also increases. “First encountered groundwater” is not synonymous to “unconfined aquifer”. First encountered groundwater may exist in both unconfined and confined conditions. To explain the occurrence of increasing confinement, characteristics of both unconfined and confined aquifers are detailed below.

The top of an unconfined aquifer is the water table, which is the plane where groundwater pressure is equal to atmospheric pressure. The water table height corresponds to the equilibrium water level in a well penetrating the aquifer. Above the water table is the vadose zone. The lower boundary of an unconfined aquifer is a layer of much smaller hydraulic conductivity. When groundwater flows from an unconfined aquifer into a pumped well, air moves through the vadose zone and replaces water that has drained from the pore space in the upper aquifer material.

A confined aquifer is a layer of water bearing material between two layers of much less permeable material, such as a sand layer between two clay layers. Confined aquifers are completely filled with groundwater; there is no water table. The pressure condition in a confined aquifer is characterized by the piezometric surface, which is the surface obtained by connecting equilibrium water levels in tubes, or piezometers, penetrating the aquifer. Due to the confinement of the aquifer, its water is under pressure, and the equilibrium water level in a well penetrating the aquifer will be above the aquifer, i.e., above the screened interval in the blank casing. When groundwater flows from a confined aquifer into a pumped well, water is primarily yielded by compression of the confining layers (and other fine-

grained material interspersed with the coarse aquifer material) due to a lowering of the piezometric surface[7].

Unconfined and confined aquifers describe two extremes of groundwater occurrence with aquifers of varying degrees of confinement in between these extremes. Confinement also occurs without the presence of an upper confining layer by the mere presence of a thick unsaturated zone if it sufficiently reduces airflow. In this case, confinement increases with increasing depth, i.e., it is a gradual change of pressure conditions rather than an abrupt change.

Whether first encountered groundwater exists under unconfined conditions or confined conditions, the concept of the source area still applies. However, it is important to recognize that, under increasingly confined conditions, the equilibrium water level of a well will not necessarily be within the screen. Instead, it may be above the screened section in the blank casing. Similar to the processes of dispersion and reactive transport discussed above, these pressure phenomena, which become increasingly characteristic with increasing depth, cannot be reconciled with monitoring well design.

2.4.5 Implications for Analysis and Recommendations Development

It is clear from the preceding discussions in *Section 2.4* that groundwater monitoring is not a suitable tool to evaluate individual on-farm management practices or to develop recommendations for solutions and upgrades. Therefore:

1. CVDRMP's Annual Reports do not attempt to explain groundwater quality based on MPs (with few exceptions).
2. Annual Reports do not attempt to infer the adequacy of MPs for the protection of groundwater based on groundwater quality.
3. Recommendations in the Summary Representative Monitoring Report (CVDRMP 2019) aim at improving nitrogen use efficiency on dairies regardless of constituent concentrations in first encountered groundwater, and at increasing manure exports from dairies.

2.5 Sampling Procedures and Instrumentation

2.5.1 Groundwater Level Measurements

An electrical sounder is used to measure the depth to groundwater from a specified reference point (usually the top, north side of the well casing). Measurements are recorded to the nearest 0.01 foot. Measurements on any one dairy are collected near in time to obtain a data set resembling a "snapshot in time".

During groundwater quality sampling campaigns, a depth to water measurement is obtained prior to sampling a monitoring well. The static water level in conjunction with well construction information is

[7] Other sources of water may be seepage through the confining layers and lowering of the water table at the outcrop of the aquifer.

used to calculate the volume of water in the well. This information is used to determine the minimum volume of water to be purged prior to sample collection.

2.5.2 Purging Protocol

Monitoring wells are purged and sampled using dedicated HDPE tubing equipped with stainless steel foot valves. Where groundwater is sufficiently shallow, this assembly is used in combination with a centrifugal pump on the surface. Prior to sample collection, the dedicated tubing is disconnected from the pump, and sample bottles are filled with groundwater using the inertial pump process. Using this equipment and process eliminates the need for decontamination because the groundwater sample does not come into contact with equipment shared between wells.

Monitoring wells are purged of three or more wet casing volumes and until indicator parameters (temperature, pH, and specific conductance) have stabilized prior to sample retrieval. Stabilization is defined as consecutive readings at approximately 5-minute intervals (or at intervals of casing volumes) where parameters do not vary by more than 5 percent. Purged groundwater is disposed of by spreading it on the ground at a reasonable distance from the sampled well to avoid the potential for purge water to enter the well casing again during the purging process.

The following parameters are monitored during the well purging:

- Temperature (°C)
- pH (standard pH-units)
- Specific Conductance (µS/cm)
- Dissolved oxygen (mg/L)
- Dissolved oxygen (percent saturation) (added in February 2013)
- Oxygen reduction potential (mV)
- Turbidity (NTU)

Visual (color, occurrence of solids), olfactory (odor) and other observations (e.g., wellhead conditions, well access, ground conditions, weather) are noted as appropriate.

2.5.3 Instrumentation and Maintenance

Shop and field calibration of instrumentation is conducted following the manufacturer's instructions and guidelines using appropriate standard solutions and procedures and at manufacturer recommended intervals. The electrical sounder and thermometer are factory calibrated and are not field calibrated.

Due to the use of dedicated equipment, there are no decontamination procedures in place. If additional analyses are incorporated into the program in the future, procedures for purging, sample retrieval, and decontamination will be adjusted, as needed.

2.5.4 Sample Handling and Recordation

Upon completion of purging activities, groundwater quality samples are collected in laboratory-supplied bottles with or without preservative (depending on analyses to be conducted and

recommendation from the analyzing laboratory) according to laboratory instructions. Bottles are labeled with laboratory-supplied labels, immediately placed on ice, and kept in a dark ice chest (at 4 °C) until received by the laboratory. Sample pick-up is coordinated between the field technicians and the laboratory's courier service under observance of applicable holding times.

A chain-of-custody (COC) form is used to record sample identification numbers, type of samples (matrix), date and time of collection, analytical tests requested, and blind duplicate samples. In addition, times, dates, and individuals who had possession of the samples are documented to record sample custody. A field sheet is used to document field activities and measurements.

2.5.5 Quality Assurance Procedures

Quality assurance (QA) is an overall management plan used to guarantee the integrity of data collected by the monitoring program. This includes the above guidelines for groundwater level measurements, purging protocol, and sample handling and recordation. Quality control (QC) is a component of QA that includes analytical measurements used to evaluate the quality of the data. A brief discussion of field QC is followed by a discussion of laboratory QC requirements.

2.5.5.1 Field Quality Control

"Blind" duplicate field samples (duplicate samples) are collected to assess the precision (i.e., repeatability) of sampling results as influenced by natural variability of constituent concentrations in the sample and laboratory performance. Therefore, concentration differences between sample pairs, even large differences, do not necessarily indicate poor laboratory performance. Laboratory performance is addressed via laboratory quality control measures (see next section) and the cation/anion balance. This field quality control program is not used to adjust individual sample results.

The identified sample and its duplicate sample are retrieved immediately following each other to limit natural variability. The true identity of duplicate samples is not noted on the COC form, rather a unique identifier is provided. The identities of the duplicate samples are recorded on the field sheet, but the sampling locations of the duplicate samples are not revealed to the laboratory. Duplicate samples are collected from at least 5 percent (1 in 20) of the total number of sample locations (i.e., in these cases two samples are collected from the same sample location).

2.5.5.2 Laboratory Quality Control

Quality assurance and quality control samples (e.g., spiked samples, blank samples, duplicates) are employed by the laboratory to document the laboratory performance. Results of this testing are provided with each laboratory report.

2.5.5.3 Review of Laboratory Data Reports

Data validation includes a data completeness check of each laboratory analytical report. Specifically, this review includes:

- Review of data package completeness (ensuring that required QC and analytical results are provided);
- Review of the required reporting summary forms to determine if the QC requirements were met and to determine the effect of exceeded QC requirements on the precision, accuracy, and sensitivity of the data;
- Review of the overall data package to determine if contractual requirements were met; and
- Review of additional QA/QC parameters to determine technical usability of the data.

In addition, the data validation includes a comprehensive review of the following QA/QC parameters:

- Holding times (to assess potential for degradation that may affect accuracy)
- Blanks (to assess potential laboratory contamination)
- Matrix spikes/matrix spike duplicates and laboratory control samples (to assess accuracy of the methods and precision of the method relative to the specific sample matrix)
- Internal standards (to assess method accuracy and sensitivity)
- Constituent reporting limits and method detection limits
- Field duplicate relative percent differences

3 PROGRAM REPRESENTATIVENESS

3.1 The Concept of Subsurface Loading

For purposes of groundwater quality research, California dairy farms have previously been conceptualized to consist of three main management units (liquid manure lagoons, animal housing, and land application areas (i.e., the fields where lagoon liquor and/or solid manure are used to fertilize crops))(Harter, Davis et al. 2001; Harter 2008; Van der Schans, Harter et al. 2009). This concept has been incorporated into the RMP (LSCE 2012b). The RMP is tasked to identify dairy farm practices specific to these management units that are protective of groundwater quality.

This necessitates the evaluation of cause-and-effect relationships between farming practices on the ground surface and groundwater chemical characteristics, and begins with those practices that are currently employed in response to the General Order.

The RMP is a data collection and analysis effort designed to develop a knowledge base from a subset of Central Valley dairy farms that will support conclusions with respect to practices and their ability to protect groundwater quality that are applicable to non-monitored dairy farms under the General Order. For this purpose, the selection of dairy farms was based on two types of data:

- Physical parameters that control subsurface loading
- Additional dairy farm features

The concept of subsurface loading was introduced in the Phase 1 Workplan (LSCE 2012d) and recognizes fundamental similarities and differences between Central Valley dairy farms. Therefore, it is integral to the application of the RMP's conclusions to non-monitored dairy farms. The subsurface loading rate (also referred to as subsurface mass emissions) is determined by the product of its two components: the rate of deep percolation (i.e., the amount of infiltrated water reaching first encountered groundwater) and the constituent concentration of the infiltrate. Therefore, measurement or estimation of either component is not a conclusive management evaluation tool on its own (*Section 2.4*). The subsurface loading rate is a flux that describes a particular management unit's performance. It is controlled by key physical parameters. Therefore, these parameters directly support the analysis and interpretation of groundwater quality data. Physical parameters essentially serve as explanatory variables for groundwater chemical characteristics beneath specific management units[8]. Static physical parameters refer to site conditions. Dynamic physical parameters refer to dairy farm practices, i.e., they are subject to change.

[8] Importantly, an infinite number of combinations of deep percolation and constituent concentrations can result in the same groundwater chemical concentrations in a groundwater sample. For example, high rates of deep percolation can result in relatively low mineral concentrations in groundwater. Similarly, low rates of deep percolation associated with water conservation efforts may result in higher mineral concentrations in groundwater.

3.2 Static Physical Parameters (Site Conditions)

Static physical parameters that were considered in the design of a representative network of monitored dairy farms are soil texture and annual precipitation depth. Although the depth to groundwater and the age of a management unit do not control subsurface loading rates, they are discussed in this section because these parameters are taken into consideration in the evaluation of groundwater chemical characteristics.

3.2.1 Soil Texture

Soil texture, and particularly its clay content, relates to the soil's hydraulic properties, including the water holding capacity, permeability, the infiltration rate and its rate of change during individual and consecutive irrigation and precipitation events. For example, soil properties in conjunction with the rate of irrigation application (e.g., in a furrow irrigated system) relate to the spatial variability of deep percolation losses along the furrow profile. Farmers employ irrigation types (e.g., furrow, border, or sprinkler) and practices (e.g., rate of irrigation application, timing and duration of irrigation events) to complement their particular soil type. Similarly, the frequency and rate of fertilizer applications to satisfy a particular crop's demand depend, in part, on the soil.

Soil types in the current RMP range from coarse-textured, highly permeable sand over a variety of different loams to fine-textured, clay soils of low permeability (**Attachment 1** [**Tables 3-1** and **3-2**]). These are all highly mineralized soils, typical of soils beneath dairies in the Central Valley. CVDRMP is not aware of Central Valley dairies that are situated on soil types, such as peat, weathered limestone (Karst), fractured rock, or gravel beds, that would indicate fundamentally different hydraulic behavior or chemical processes in the subsurface. Therefore, the current RMP is considered representative of the range of soil types encountered on Central Valley dairies.

3.2.2 Annual Precipitation Depth

Precipitation, while typically not a major contributor to deep percolation beneath crop fields in the Central Valley, poses a complicating variable to the farmer, as it can affect decisions relating to the timing of sowing, planting, harvest, irrigation, and manure/fertilizer applications. In addition, it can potentially cause unwanted flushing of the root zone. Since the long-term sustainability of irrigated agriculture depends on the flushing of excess salts below the root zone (to prevent a detrimental accumulation of salts), the interaction between the soil, irrigation and precipitation, and manure/fertilizer application is key to the interpretation of groundwater quality beneath cropped manure application fields.

The Central Valley is characterized by semi-arid climate with dry, hot summers and mild, typically snow-free winters with the great majority of precipitation falling from November to March. Aridity generally increases from north to south and from east to west (**Figure 3-1**).

The RMP accounts for the geographic distribution of precipitation in the Central Valley by including some of the northernmost and southernmost dairies regulated under the General Order (i.e., from Tehama to Kern counties), and it captures the range of annual precipitation depths from less than 8 to

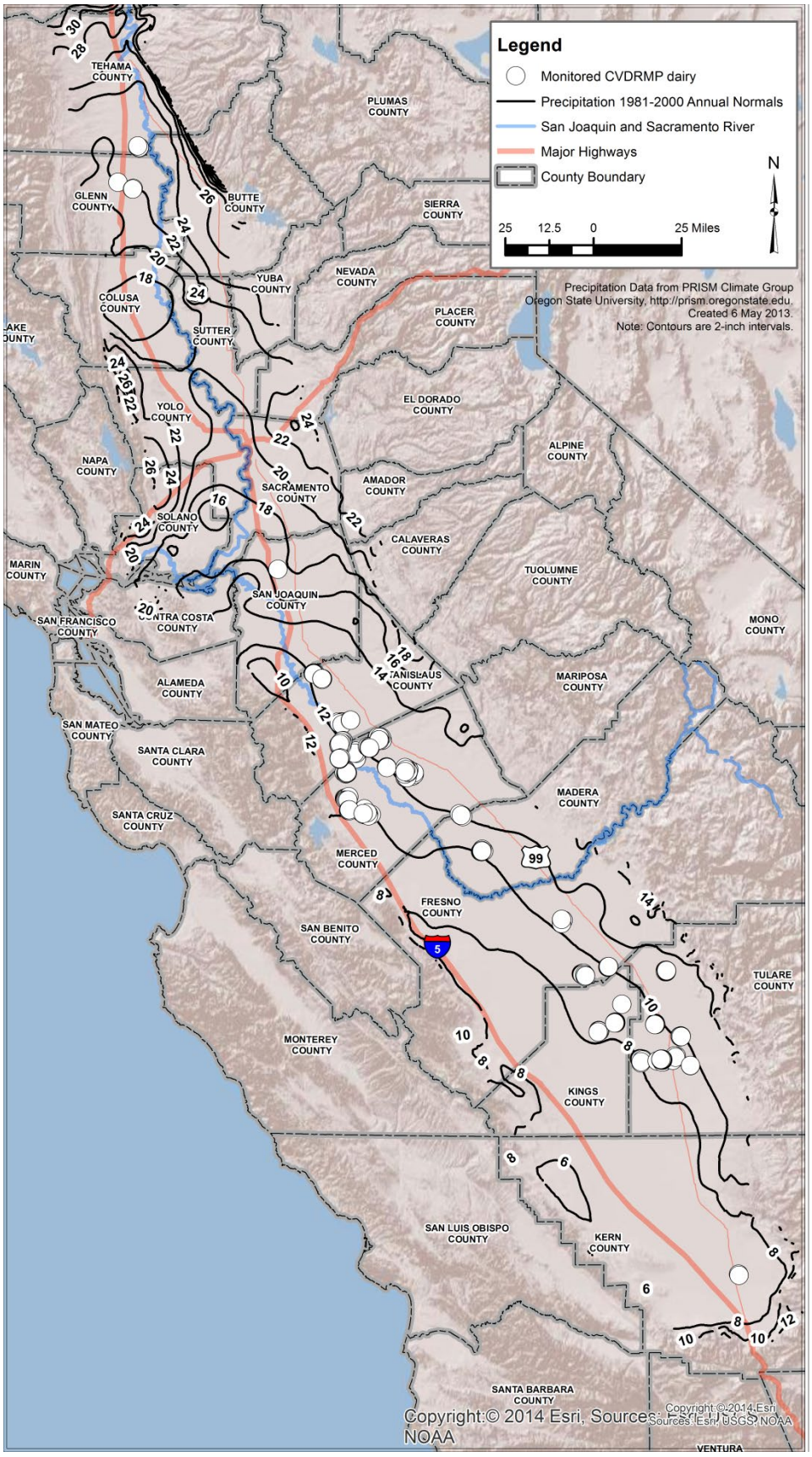

Figure 3-1: Isohyetal Contour Map for California's Central Valley.

slightly over 22 inches. Therefore, the current RMP is considered sufficiently representative of the range of precipitation under which dairies regulated by the General Order operate.

3.2.3 Depth to Groundwater and Age of a Management Unit

The depth to groundwater does not control subsurface loading rates. Therefore, it was not considered for the representativeness of the program. However, the thickness of the unsaturated zone (i.e., the zone that separates groundwater from the ground surface) affects constituent travel time and reactive transport. Therefore, the depth to groundwater is a consideration when groundwater chemical characteristics are evaluated. Importantly, the RMP focuses on the evaluation of subsurface loading and not on reactive transport. In addition, the shorter the response time between management practices at the ground surface and effects on groundwater quality, the sooner conclusions can be drawn from the data, and the higher the confidence in the identified linkage between management practices and groundwater quality trends. Therefore, the RMP favors dairies situated on relatively shallow groundwater.

Similar to the depth to groundwater, the age of a management unit does not control subsurface loading rates. Therefore, it was not considered for the representativeness of the program. However, the age of a unit may be a consideration when interpreting groundwater quality, as it relates to the lag time between management practices at the ground surface and groundwater quality. For example, subsurface loading emanating from new animal housing may not be detectable in groundwater for many years, and a 'no-impact' conclusion based on groundwater quality data without consideration of lag time may be drawn prematurely. Therefore, during the selection of dairies in 2011 and 2012, the RMP placed emphasis on older management units (i.e., 10 years and up to 30 and more years in operation) such as to favor those with a history of nitrogen and salt loading.

3.3 Dynamic Physical Parameters (Dairy Farming Practices)

3.3.1 Crop Fields

Dynamic physical parameters that were considered for the selection of a representative group of monitored fields include:

- Crops and crop rotations
- Irrigation systems
- Irrigation water sources
- Irrigation practices
- Nutrient sources for crop fertilization
- Nutrient applications

3.3.1.1 Crops and Crop Rotations

Dairy farms in the Central Valley grow much of the feed for the cows on the farm. The climate allows for double cropping which refers to the harvest of a summer crop and a winter crop on the same field in one year. The summer crop is commonly corn and the winter crop is a cereal grain, most typically oats and wheat (**Attachment 1** [**Table 3-3**]). Oats are more popular in the northern San Joaquin Valley, and wheat is more popular in the southern San Joaquin Valley. Many dairy farmers keep a portion of their land out of the summer corn-winter grain rotation to grow perennial alfalfa, which is harvested several times a year. This is done on a multi-year rotation from one field to the next as alfalfa yields decline below desired levels. The homogeneity of cropping patterns throughout the dairy industry is advantageous for the RMP. There are less common winter crops grown on Central Valley dairy farms, such as sudan, triticale, and sorghum. However, these comprise a very small portion of the overall feed production, and they typically do not replace the more popular winter crops (oats and wheat) on any one dairy farm. Rather, they are used in a supplemental form. The only significant exception to the above are the few pasture dairies, where cows spend a large portion of their life on pasture, where they graze and fertigate the soil with their excretions.

The RMP captures the three major crops grown on Central Valley dairies (i.e., corn, oats, and wheat). It also includes a variety of less common winter grains such as sudan, triticale, and sorghum, and a pasture dairy. Therefore, the RMP is considered representative of the range of forage crops typically encountered on Central Valley dairies.

3.3.1.2 Irrigation Systems

Dairy farms in the Central Valley irrigate their forage crops most typically using either a furrow or border system. Furrow irrigation is used for summer corn and border irrigation is used for the winter crop. In areas of non-cohesive (e.g., sandy) soil that cannot support furrows, the border system is also used in the summer. A very small subset of dairy farms uses center pivot irrigation systems (i.e., overhead sprinklers).

The RMP captures the above irrigation systems, including the furrow/border rotation, border only, and center pivot (i.e., overhead) sprinklers (see **Attachment 1** [**Table 3-3**]). It is, therefore, considered representative of typical irrigation systems encountered on Central Valley dairies.

3.3.1.3 Irrigation Water Sources

Dairy farmers irrigate their crops with surface water delivered by local water purveyors (i.e., irrigation or water districts), groundwater from their own irrigation wells, or a combination thereof (lagoon liquor is discussed below under *Nutrient Sources for Crop Fertilization*). Groundwater is typically of higher mineral content than surface water. The reliability of surface water to the farms can vary substantially from year to year and depends greatly on the surface water rights held by the purveyor. For example, CCID holds very senior water rights and can deliver nearly 100% of allocations often even in drought years. In other districts, some farmers may only receive 20% or less of their allocation in normal water years.

The RMP captures the spectrum of dairy fields that are irrigated exclusively with surface water, those that are irrigated exclusively with groundwater, and those that are irrigated with variable proportions of these sources (see **Attachment 1** [**Table 3-3**]). It is, therefore, considered representative of irrigation water source conditions under which Central Valley dairy farmers operate.

3.3.1.4 Irrigation Practices

Irrigation practices pertain to the farmer's choice of the field's run length (i.e., the length of the field that irrigation water travels between the head ditch and the tail end); whether fields are operated with or without tailwater runoff; and when, at what rate, and how long to irrigate. The run length is clearly identifiable and ranges from less than an eighth of a mile to almost half a mile among the monitored fields. This is an important parameter because high levels of irrigation uniformity are difficult to attain with longer run lengths.

Other irrigation practices are less defined and vary according to farmers' preferences and estimations. However, they are also strongly influenced by the resources available to the individual farmer, especially with regard to the irrigation water source(s) and systems they work with, the crops they grow, and soil properties. For example, farmers decide when to irrigate based on their field observations and agronomic experience, but the exact timing of irrigations may also be influenced by the water district's ability to deliver the water.

Importantly, the many combinations of irrigation practices have the potential to greatly affect irrigation water application uniformity and water use efficiency. Relatively subtle modifications may translate into significant reductions of water and mineral losses to deep percolation. Therefore, the RMP does not attempt to select a group of fields based on the many individual choices that are available to farmers and pertain to their exact irrigation water use and management. Rather, the RMP focuses on readily quantifiable differences (i.e., the run length, tailwater management, and irrigation durations).

Based on the range of run lengths, and indirectly based on the range of captured irrigation water sources and systems, crops, and soil properties, the RMP is considered representative of irrigation practices employed on Central Valley dairy farms.

3.3.1.5 Nutrient Sources for Crop Fertilization

Dairy farmers fertilize their crops with manure, synthetic fertilizers, or varying proportional combinations thereof. Manure may be applied in liquid form or solid form. Similarly, synthetic fertilizers are applied in both liquid and solid forms.

The RMP captures the spectrum of dairy fields that are fertilized with manure, synthetic fertilizers, or a combination thereof. Therefore, it is considered representative of nutrient sources relied upon by dairy farmers in the Central Valley.

3.3.1.6 Nutrient Application Practices

Nutrient applications involve the farmer's choice regarding the total application, the application rate, and its timing. Field-scale mass balance calculations can help evaluate the efficiency of nutrient

management. Field-scale nitrogen AR ratios exhibited a wide range for summer crops and also for winter crops.

Based on the above, the RMP is considered representative of generally attained levels of nutrient management on a field scale.

3.3.2 Animal Housing

The RMP monitors animal housing, including corrals that are used by cows year-round and those where cows can be removed during the rainy season (**Attachment 1** [**Table 3-4**]). This is independent of whether a dairy operates as a flush or scrape dairy, and cow occupancy may be the most prominent distinguishing factor for corrals as it relates to the manure excretion rate on soil. Year-round cow occupancy also affects slope maintenance and the rate of manure removal during the rainy season, because wet soil conditions can make it challenging to maintain an adequate slope for drainage and can make it difficult to keep up with manure removal. Fundamentally, the assessment of corral conditions is largely non-quantitative and subjective.

Based on the above, the RMP is considered representative of animal housing in operation by dairy farmers in the Central Valley.

3.3.3 Liquid Manure Lagoons

The RMP monitors liquid manure lagoons ranging from earthen pits without construction information, to clay-lined lagoons with varying construction details, and clay-lined and synthetically lined lagoons with QA/QC documentation (**Attachment 1** [**Table 3-5**]). Typical management practices include solids separation via settling basins and/or mechanical separators; agitation and pump-out, dilution and pump-out, pump-out from varying depths; removal of solids with minimal waste level fluctuation; and purposeful drawdown of the waste level prior to solids removal. Nutrient and salt concentrations vary widely in the monitored lagoons. All monitored dairies use a lagoon for storage, including one dairy which is identified as a scrape dairy.

Based on the above, the RMP is considered representative of liquid manure lagoons that are in operation on dairy farms in the Central Valley.

3.4 Additional Dairy Farm Features

There is a notion that large dairy farms have resources available to them (including advantages due to economies of scale) that are not available to small dairy farms, and that this could manifest itself in categorically advanced nutrient management. To address this, the RMP included dairies ranging in size from less than 200 to approximately 5,500 mature milk cows, with various amounts of support livestock (i.e., calves, heifers, and dry cows).

Also, there is a notion that the overall performance of a flush dairy farm with respect to groundwater quality may be different than that of a scrape dairy (i.e., open lot dairy). Scrape dairy farms are rare in the Central Valley, and while the RMP includes two scape dairies (HOL and HYN), it is important to note

that on flush dairies, animal housing occurs under roofed areas (freestalls), but typically also on open lots where manure is scraped. These features and dairy farm information pertaining to select physical parameters are summarized in **Attachment 1** (**Table 3-6**).

3.5 Program Representativeness Affirmed

In summary, the concept of subsurface loading recognizes fundamental similarities and differences between Central Valley dairy farms. The subsurface loading rate is determined by the product of its two components: the rate of deep percolation (i.e., the amount of infiltrated water reaching first encountered groundwater) and the constituent concentration of the infiltrate. It is a chemical flux that describes a particular management unit's performance. The subsurface loading rate is controlled by key physical parameters. Therefore, these parameters directly support the analysis and interpretation of groundwater quality data. Physical parameters essentially serve as explanatory variables for groundwater chemical characteristics beneath specific management units. Static physical parameters refer to site conditions. Dynamic physical parameters refer to dairy farm practices, i.e., they are subject to change. CVDRMP, with the input from its advisory committees, identified the following parameters to be significant to the program's representativeness:

- Soil texture
- Annual precipitation depth
- Crops and crop rotations
- Irrigation systems
- Irrigation water sources
- Irrigation practices
- Nutrient sources for crop fertilization
- Nutrient applications
- Animal housing
- Liquid manure lagoons

These parameters were taken into consideration during the Phase 1 dairy selection process and again during the Phase 2 dairy selection process. The representativeness of the program was comprehensively evaluated and confirmed after the 2012 Phase 2 expansion in the *Central Valley Dairy Representative Monitoring Program Evaluation of Representativeness* (LSCE 2013a) and was revisited by the Multidisciplinary Advisory Committee at its January 2014 meeting. As a result of this concerted effort, including independent external review, CVDRMP concluded that the 42 actively monitored RMP dairies exhibit the range of pertinent site conditions and farm practices that are presently employed on Central Valley dairies. In addition, the extensive RMP well network provides ample redundancy such that no one single dairy is indispensable[9].

[9] CRE may be the only exception as it is the only pasture dairy in the program (representing a very small fraction of dairies in the Central Valley).

4 RESULTS

4.1 Groundwater Data Quality Control

Information collected during groundwater purging activities in 2019 was extracted from the field service provider's field sheets (**Attachment B1**). Purging protocols were generally adhered to and stabilization of indicator parameters (i.e., T, pH, and SC) was achieved prior to sample collection (**Table 4-1**). Laboratory reports from the quarterly sampling campaigns are compiled in **Attachments B2** to **B5**.

- **Stabilization of indicator parameters.** Instances where a stabilization criterion for an indicator parameter was not fully attained are flagged in **Table 4-1**. In all of these cases, more than 3 casing volumes were evacuated from the well prior to sample retrieval. Analytical results resided within the range of the historical record or did not appear to be an outlier. Cation/anion balances were within ±6% during the 2019Q1 sampling campaign.
- **Purge volume.** In some cases, the well dewatered during purging activities and the field services provider opted to retrieve a sample although less than three casing volumes were purged from the well. In some of these cases, full stabilization could not be documented. Analytical results resided within the range of the historical record or did not appear to be an outlier. Cation/anion balances were within ±2.4% during the 2019Q1 sampling campaign.
- **Sample hold time.** In six cases, NO_3 was analyzed slightly out of hold time. Based on communications with the laboratory, potential imprecisions due to the hold time exceedances are expected to be insignificant in comparison to other sources of imprecisions, such as those specified for each analytical method. Furthermore, all results were comparable to other sampling campaigns.
- **Duplicate samples.** The duplicate sample results document high precision (i.e., repeatability) of the sampling/analysis process with identical analytical results or very small differences in most cases (**Table 4-2**). Differences between major cations and anions rarely exceeded 10 percent. Small absolute, yet proportionally larger discrepancies tend to occur in conjunction with concentrations near reporting limits, including J-flagged values below the reporting limit. Constituents that are frequently present in such small concentrations are nitrite, ammoniacal N, TKN, potassium, and phosphate. Analytical results resided within the range of the historical record or did not appear to be an outlier. The importance of the duplicate sample data set is to recognize that imprecisions exist (and are unavoidable); furthermore, the integrity of a data set in general and particularly the interpretations of groundwater quality data improve as a monitoring effort continues with repeat samples retrieved from the same sampling points.
- **Cation-anion balance.** Complex chemical makeup (including several species of nitrogen), high salinity, and turbidity of samples can make it difficult to attain the same level of ion agreement as customary in drinking water analysis. However, the cation/anion balances indicate overall high-quality results for the expanded suite of constituents with 18 samples exceeding a cation/anion balance of ±5 percent and a maximum of -10.4 percent.

Based on the examination of field activities and laboratory data reports, including the above observations, and specific laboratory inquiry, the 2019 groundwater data set is deemed technically usable with one exception. The field reading of SC (DUR-MW8, 2019Q4) was flagged as a questionable measurement. Three previous SC data entry errors were also rectified (ANC-MW5, 2016Q2; DUR-MW8, 2014Q3; and LON-MW6C, 2013Q2). Also, several field SC measurements were found to be erroneous in 2019. They were flagged questionable in **Table 4-1** and, where possible, a laboratory SC reading was obtained.

LSCE has been very conservative when removing anomalously high or low values (outliers) from the dataset. Unless clear, documentable conditions exist that would warrant the removal of a particular measurement, measurements have not been removed. This approach intends to avoid premature elimination of valid data that might appear inexplicable without the benefit of the examination of a longer data record. Field measurements of SC exhibit several such outliers. Based on the review of the totality of the SC data record, several outliers (pre-2019) were deemed questionable measurements and flagged appropriately. Tables, graphics, and summary statistics were updated. Previously made conclusions were not affected.

4.2 Site Specific Groundwater Evaluation

In 2019, groundwater levels were below the deepest well screen at 44 well sites and, consequently, water quality samples were not retrieved. Water levels at these sites severely declined during the 2012-2016 drought and have not recovered since then.

4.2.1 Data Types

This section focuses on the evaluation of groundwater level and chemistry data. Since the groundwater discussions pertain to individual dairies, the 3-letter identification of the monitoring wells is not needed, and monitoring well sites are referred to as MW1, MW2, etc. The distinction between shallow and deeper wells at a particular well site is made with the more complete identification MW1s, MW1d, etc.

4.2.1.1 Groundwater Levels

This section discusses the cumulative record of depth-to-groundwater beneath the dairies, water level fluctuations, horizontal groundwater flow patterns and gradients, and vertical gradients. **Table 4-3** shows the depth to water measurements with the associated dates and times and the calculated water level elevations. For each location of nested wells, this table also shows the hydraulic head differences (dh) and vertical gradients (i_v) between the shallow and deep wells. The hydraulic head difference was calculated as the difference in water level elevations between the shallow and deep wells. Dividing dh by the distance between the midpoints of the shallow and deep well screens yields an estimate of the vertical gradient. By definition in this context, a positive i_v indicates a downward gradient and a negative i_v indicates an upward gradient. Summary statistics of depth to water and derived information are shown in **Table 4-4**.

Groundwater elevation hydrographs are compiled in **Attachments A2** and **A3**. For each nested well location installed by CVDRMP there is one plot. Thus, plots for nested well locations show two hydrographs, one for the shallow well and one for the deeper nested well. Hydrographs for pre-existing nested wells in the South Area are shown individually. The depth to groundwater below ground surface (bgs) is shown on the left ordinate and the groundwater elevation in feet (NAVD88) is shown on the right ordinate. The wells' screen intervals are delineated with dashed lines. For each dairy, a selection of wells was made including the shallowest wells with the most complete data record for a compilation of group hydrographs (**Attachment A4**).

Maps showing the last year's contours of equipotential groundwater elevations for 12 monthly monitoring campaigns are provided in **Attachment A5**. These maps are important as they provide insight into local groundwater flow conditions and temporal changes throughout the year. For each monitoring well site, these maps are used to determine if the well's source area can be attributed to a single management unit with a reasonable degree of confidence. The sections on Well Network Description and Assessment provide tabulated lists of wells and source areas. Source areas include three management units (i.e., lagoons, animal housing, and crop fields). When nonsteady groundwater flow directions do not permit the allocation of a source area that is confined to a single management unit, combinations are used, such as "field/animal housing" or "field/other". In these cases, the source area is identified as "mixed" in **Table 2-2**. "Field (animal housing)" indicates that the primary source area is associated with fields, while a smaller contribution is thought to be associated with animal housing. "Other" indicates source areas associated with the dairy but not related to one of the three investigated management units. "Off-site" indicates wells with off-site source areas.

Source areas were evaluated in the context of the recent year's conditions. Apparent horizontal gradients between a selection of well pairs are summarized in **Table 4-5** and plotted in **Attachment A6**. These gradients are computed based on water level elevation differences and distances between well pairs. Therefore, these gradients are not always computed along an actual particle flow path and they are never computed along curvilinear flow paths. Apparent gradients are an approximation of actual gradients.

4.2.1.2 Groundwater Chemistry

When a well's source area can be attributed to a single management unit, groundwater chemistry at that location is substantially attributed to recharge (i.e., management unit specific subsurface loading) occurring on the investigated management unit. The cause-and-effect relationship between source loading and groundwater chemistry is based on the physical linkage of the source area to the well. As such, this relationship is independent of absolute and/or relative proportional constituent concentrations in the groundwater sample, and independent of water chemistry observed at upgradient or crossgradient wells. In the case of lagoons, consideration was given to key constituents, including ammoniacal N, TKN, organic N, nitrate-N, nitrite-N, and elevated concentrations of potassium and bicarbonate. Consideration was also given to elevated concentrations of calcium and magnesium that can occur as a result of sorption/desorption processes due to high concentrations of other anions (e.g., potassium and ammonium).

The discussion of groundwater quality data focuses on the data record aggregated by the CVDRMP effort and summary statistics (e.g., ranges and medians) apply to the CVDRMP record unless specified otherwise. Groundwater quality data (field measurements and laboratory results) are summarized in **Table 4-6** and summary statistics are shown in **Table 4-7**. Time series plots for specific conductance and TDS are provided in **Attachment A7**. Time series plots for nitrogen components are provided in **Attachment A8**. Time series plots for general mineral concentrations are provided in **Attachment A9**. Bar charts of proportional cation and anion concentrations are compiled in **Attachment 10** and stiff diagrams are compiled in **Attachment A11**. Piper diagrams are provided in **Attachment A12**.

4.2.2 MEN

4.2.2.1 Well Network Description and Assessment

There are 16 dedicated monitoring wells at this dairy. CVDRMP installed MWs 1 through 7 in 2011 using a nested structure design such that two wells were installed in each borehole. In fall 2014, MW8 was constructed to improve the utility of the well network around the dairy's animal housing. The wells in the nested structures were completed in the same water-bearing zone but at different depth intervals to facilitate monitoring and sampling of the uppermost zone of first encountered groundwater under non-steady groundwater conditions.

4.2.2.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from 2.96 to 14.89 ft (btc) beneath the dairy since 2012. Water levels did not exhibit distinct seasonality and the hydrographs indicated stable water table conditions over the period of record despite the recent 5-year drought (2012-2016).

Vertical gradients were very small. At seven of the eight monitoring well locations, the median hydraulic head difference resided within the precision of depth-to-water measurements. Therefore, dh was assigned a zero value and the resulting vertical gradient is also zero. The median vertical gradient at MW3 was -0.01 ft ft^{-1} (i.e., slightly upward) with an associated median dh of -0.12 ft. With the exception of MWs 3 and 8, vertical gradients rarely exceeded |0.01| ft ft^{-1}.

2019 contours of equipotential water level elevations indicate generally northwesterly groundwater flow beneath the western portion of the farm and northerly to northeasterly flow beneath the production area and the fields south of the production area. Well sites and associated 2019 source areas are shown in **Table 4.2.2.2**.

The mean northwesterly gradient from 2012 through 2018 was $6.0x10^{-4}$ ft ft^{-1} (cv=0.38) and the mean northeasterly gradient was $1.8x10^{-3}$ ft ft^{-1} (cv=0.46). The mean northwesterly gradient in 2019 was $3.9x10^{-4}$ ft ft^{-1} (cv=0.31) and the mean northeasterly gradient was $1.7x10^{-3}$ ft ft^{-1} (cv=0.26). Gradients do not exhibit seasonal patterns.

Table 4.2.2.2: 2019 Source Areas at MEN

Well Site	Source Area
MEN-MW1	lagoon/field
MEN-MW2	lagoon/field
MEN-MW3	field (animal housing)
MEN-MW4	field (animal housing)
MEN-MW5	animal housing
MEN-MW6	field
MEN-MW7	field
MEN-MW8	animal housing

4.2.2.3 2019 Groundwater Chemistry

MEN-MW1

1. Ammoniacal N concentrations ranged from 2.0 to 2.5 mg/L.
2. TKN concentration was 4.3 mg/L.
3. Comparison of TKN and ammoniacal N indicates organic N concentrations of 1.9 mg/L.
4. Nitrite-N concentration was nondetect.
5. Nitrate-N concentrations ranged from 45 to 84 mg/L.
6. K concentration was 210 mg/L.
7. SO_4 concentration was 360 mg/L.
8. TDS concentrations were significantly higher than in non-lagoon wells (3,300-4,000 mg/L). Na, Cl, and HCO_3 were the main contributors to the elevated salinity.

2019 groundwater chemistry at this location is indicative of lagoon seepage.

MEN-MW2

1. Ammoniacal N concentrations ranged from 1.6 to 2.5 mg/L.
2. TKN concentration was 3.3 mg/L.
3. Comparison of TKN and ammoniacal N indicates organic N concentrations of 1.6 mg/L.
4. Nitrite-N concentration was 0.17 mg/L.
5. Nitrate-N concentrations ranged from 25 to 40 mg/L.
6. K concentration was 170 mg/L.
7. SO_4 concentration was 260 mg/L.
8. TDS concentrations were significantly higher than in non-lagoon wells (2,700-3,700 mg/L). Na, Cl, and HCO_3 were the main contributors to the elevated salinity.

2019 groundwater chemistry at this location is indicative of lagoon seepage.

MEN-MW3

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields, although effects from the adjacent animal housing on water chemistry are conceivable. This includes nitrate-N concentrations ranging from 96 to 120 mg/L.

MEN-MW4

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields, although effects from the adjacent animal housing on water chemistry are conceivable. This includes nitrate-N concentrations ranging of 120 mg/L.

MEN-MW5

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within animal housing. This includes nitrate-N concentrations ranging from 46 to 63 mg/L.

MEN-MW6

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within Field 5. This includes nitrate-N concentrations ranging from 8.2 to 17 mg/L.

MEN-MW7

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within Field 2. This includes nitrate-N concentrations ranging from 74 to 82 mg/L.

MEN-MW8

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within animal housing. This includes a nitrate-N concentration of 21 to 24 mg/L. This well exhibits a particularly high Na concentration and a hydrofacies distinctly different from the other wells (**Attachment A12**).

4.2.3 ANC

4.2.3.1 Well Network Description and Assessment

There are 10 dedicated monitoring wells at this dairy. Four of these wells were installed in 1994 in first encountered groundwater. CVDRMP installed 6 additional wells in 2011 using a nested structure design such that two wells were installed in each borehole. The wells in the nested structures were completed in the same water-bearing zone but at different depth intervals to facilitate monitoring and sampling of the uppermost zone of first encountered groundwater under non-steady groundwater conditions.

4.2.3.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from 5.16 to 23.71 ft (btc) beneath the dairy since 2012, excluding MW2 and MW4 (these wells are located on top of the lagoon's berm and, as a result, the depth to water is slightly deeper in these wells). Water levels exhibited little, if any seasonal variability from 2012 to 2014. In

2015 and 2016, seasonally high water levels were observed in late winter and spring; and low water levels were observed in late summer. The hydrographs indicate a slight overall water table decline from 2012 to 2016, coinciding with the 2012-2016 drought. In early 2017, water levels steeply recovered to several feet above historical high levels and, since then, declined to 2012-2013 levels with no clear seasonal variability.

Vertical gradients at MW6 and MW7 were very small. Their median hydraulic head difference resided within the precision of depth-to-water measurements. Therefore, dh was assigned a zero value and the resulting vertical gradient was also zero. At MW5, vertical gradients were slightly greater with a median of 0.01 ft ft^{-1} and an associated median dh of 0.10 ft.

2019 contours of equipotential water level elevations indicate predominantly westerly to northwesterly groundwater flow beneath the dairy. Higher water levels at MW4 starting in July, suggest a southerly flow component primarily on the western side of the dairy production area. Well sites and associated 2019 source areas are shown in **Table 4.2.3.2**.

The mean gradient across the facility from 2012 through 2018 was $9.3x10^{-4}$ ft ft^{-1} (cv=0.40). The mean gradient in 2019 was $6.1x10^{-4}$ ft ft^{-1} (cv=0.37). Gradients exhibit a seasonal pattern with steeper gradients in the summer and flatter gradients in the winter.

Table 4.2.3.2: 2019 Source Areas at ANC

Well Site	Source Area
ANC-MW1	lagoon
ANC-MW2	lagoon/other
ANC-MW3	animal housing
ANC-MW4	lagoon/other
ANC-MW5	animal housing (other)
ANC-MW6	field/animal housing/other
ANC-MW7	off site (animal housing)

4.2.3.3 2019 Groundwater Chemistry

ANC-MW1

1. Ammoniacal N concentrations were below the reporting limit.
2. TKN concentration was 1.1 mg/L.
3. Comparison of TKN and ammoniacal N indicates that TKN essentially reflected organic N concentrations.
4. Nitrite-N concentration was 0.070 mg/L.
5. Nitrate-N concentrations ranged from nondetect to 1.7 mg/L.
6. K concentration was 8.5 mg/L
7. HCO_3 concentration was the highest of all wells (1,000 mg/L).
8. TDS concentrations ranged from 1,400 to 1,700 mg/L.

2019 groundwater chemistry at this location does not exhibit typical indications of lagoon seepage. Only the elevated HCO_3 concentration may be an indication of seepage.

ANC-MW2

1. Ammoniacal N concentrations ranged from below the reporting limit to 0.32 mg/L.
2. TKN concentration was 1.7 mg/L.
3. Comparison of TKN and ammoniacal N indicates that TKN essentially reflected organic N concentrations.
4. Nitrite-N concentration was 0.64 mg/L.
5. Nitrate-N concentrations ranged from 40 to 49 mg/L.
6. K concentration was 11 mg/L
7. HCO_3 concentration was the second highest of all wells (780 mg/L).
8. TDS concentrations ranged from 2,000 to 2,100 mg/L.

2019 groundwater chemistry at this location does not exhibit typical indications of lagoon seepage. Only the elevated HCO_3 concentration may be an indication of seepage.

ANC-MW3

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the animal housing. This includes nitrate-N concentrations ranging from 15 to 28 mg/L. Based solely on the proximity of this well to the lagoon, effects of lagoon seepage on its water chemistry are conceivable. However, presently, groundwater chemistry at this location is not indicative of lagoon seepage.

ANC-MW4

1. Ammoniacal N concentrations were below the reporting limit.
2. TKN was nondetect.
3. Nitrite-N was nondetect.
4. Nitrate-N concentrations ranged from 23 to 57 mg/L.
5. TDS concentrations and individual general mineral concentrations were similar to non-lagoon wells.

2019 groundwater chemistry at this location is not indicative of lagoon seepage.

ANC-MW5

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the animal housing, although effects from fertilizer use on a nearby irrigated lawn on water chemistry are conceivable. This includes nitrate-N concentrations ranging from 5.7 to 13 mg/L. This well's hydrofacies exhibits a proportionally greater Na presence than the other wells (**Attachment A12**).

ANC-MW6

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the upgradient field, animal housing, and a nearby manure stacking area. This includes a nitrate-N concentration of 29 to 66 mg/L.

ANC-MW7

Groundwater chemistry at this location is substantially attributed to recharge occurring in an off-site source area. Nitrate-N concentrations ranged from 24 to 29 mg/L.

4.2.4 BET

4.2.4.1 Well Network Description and Assessment

There are 16 dedicated monitoring wells at this dairy. CVDRMP installed these wells in 2011 using a nested structure design such that two wells were installed in each borehole. The wells in the nested structures were completed in the same water-bearing zone but at different depth intervals to facilitate monitoring and sampling of the uppermost zone of first encountered groundwater under non-steady groundwater conditions.

4.2.4.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from 5.33 to 27.79 ft (btc) beneath the dairy since 2012. The MWs in the fields (i.e., MWs 5 through 8) exhibited a characteristic pattern of rising water levels in early summer and elevated water levels that correspond to the corn growing season. This pattern is less pronounced and less consistent in the other monitoring wells. Water levels in MWs 1 through 4 are suspected to be variably affected by a shallow extraction well that is operated by TID to keep groundwater levels below the crop root zone during the summer irrigation season. The hydrographs indicate overall water table declines of several feet during the 2012-2016 drought. By 2018, water levels in MWs 1 through 6 fully recovered. Water levels in MWs 7 and 8 are affected by modified field run-lengths in Fields 6, 7, and 12, which resulted in significant irrigation water savings and decreased local groundwater recharge starting with the 2017 corn season. Overall, water levels is all MWs remained relatively constant through 2019.

Vertical gradients were very small. At most wells, the median hydraulic head difference resided within the precision of depth-to-water measurements. Therefore, dh was assigned a zero value and the resulting vertical gradient was also zero. At these wells, vertical gradients rarely exceeded |0.01| ft ft^{-1}.

2019 contours of equipotential water level elevations indicate westerly to northwesterly groundwater flow beneath most of the dairy through July. In August and through the remainder of the year, low water levels in MW4 suggest easterly groundwater flow components beneath the production area. Throughout the year, comparatively high groundwater elevations in MWs 5 and 6, cause southerly to southeasterly flow in the southeast area of the dairy. This is due to substantial irrigation water savings (resulting in less recharge) on Fields 6, 7, and 12, which was achieved by shortening the run-lengths of these fields prior to the 2017 corn season. Well sites and associated 2019 source areas are shown in **Table 4.2.4.2**.

The mean northwesterly gradient from 2012 through 2018 was $2.3x10^{-3}$ ft ft^{-1} (cv=0.61) while the mean southeasterly gradient was $1.0x10^{-3}$ ft ft^{-1} (cv=0.52). In 2019, the mean northwesterly gradient was $1.8x10^{-3}$ ft ft^{-1} (cv=0.85) and the mean southeasterly gradient was $8.8x10^{-4}$ ft ft^{-1} (cv=0.23).

Northwesterly gradients exhibit a seasonal pattern with steeper gradients in the summer and flatter gradients in the winter.

Table 4.2.4.2: 2019 Source Areas at BET

Well Site	Source Area
BET-MW1	lagoon/field
BET-MW2	animal housing/field
BET-MW3	animal housing/field
BET-MW4	animal housing/off site
BET-MW5	field
BET-MW6	field
BET-MW7	field
BET-MW8	field

4.2.4.3 2019 Groundwater Chemistry

BET-MW1

1. Ammoniacal N concentrations were below the reporting limit.
2. TKN was below the reporting limit.
3. Nitrite-N was nondetect.
4. Nitrate-N concentrations ranged from 36 to 140 mg/L.
5. TDS concentrations were relatively low ranging from 440 to 1,400 mg/L.
6. K concentration was 21 mg/L.
7. HCO_3 concentration was 100 mg/L.

2019 groundwater chemistry at this location does not exhibit typical indications of lagoon seepage. However, it is possible that ammoniacal N is rapidly oxidized to nitrate-N in the coarse-textured subsurface.

BET-MW2

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within animal housing and nearby fields 21 and 23. This includes a nitrate-N concentration of 0.45 to 120 mg/L.

BET-MW3

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within animal housing and nearby field 21. This includes a nitrate-N concentration of 34 to 130 mg/L.

BET-MW4

Due to variable groundwater flow directions in this well's vicinity, its source area cannot be uniquely attributed to the animal housing or adjacent non-dairy field. Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the field to the east, and the animal housing to the south. This includes nitrate-N concentrations ranging from 50 to 61 mg/L, high K (470 mg/L) and Cl (440 mg/L) concentrations. MW4 exhibits a hydrofacies distinctly different from the other wells.

BET-MW5

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations ranging from 41 to 58 mg/L.

BET-MW6

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations ranging from 35 to 45 mg/L.

BET-MW7

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations ranging from 35 to 39 mg/L.

BET-MW8

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations ranging from 34 to 44 mg/L.

4.2.5 DIE

4.2.5.1 Well Network Description and Assessment

There are 4 dedicated monitoring wells at this dairy. These wells were installed in 2003 in first encountered groundwater. Hydrologic and well construction information indicates a substantial unsaturated zone beneath the dairy. Long travel times of percolating water from the ground surface to the water table, including the associated potential for dispersion and reactive transport confound the interpretation of groundwater chemical results with regard to management practices.

4.2.5.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from 85.84 to more than 126.63 ft (btc) beneath the dairy since 2013. Seasonally high and low water levels occurred in the winter and summer, respectively. This seasonality was most pronounced in MWs 2 and 3. In these wells, water levels declined 15 to 20 feet from January 2013 to December 2014. During large portions of 2015 and 2016, water levels declined below the bottom of these wells. In 2017, water levels recovered significantly, and winter 2017/18 levels were similar to the comparable time in 2013 levels. Water levels in MWs 2 and 3 remained sustained in 2018 and 2019. Water levels in MW4 were overall stable through 2018 and then increased approximately 10 feet in

2019. Water levels in MW1 sharply rose about 15 feet in summer 2015 and remained stable since 2016. Seasonal water level variability is much less pronounced in this well, and highest water levels since 2016 have been observed late summer and fall.

2019 contours of equipotential groundwater level elevations indicate consistent southwesterly to southerly flow. Well sites and associated 2019 source areas are shown in **Table 4.2.5.2**.

The mean southwesterly gradient between well pair MW4 and MW2 from 2013 to mid-2015 was $3.7x10^{-3}$ ft ft^{-1} (cv=0.24). Southwesterly gradients exhibited a seasonal pattern with steeper gradients in the summer and flatter gradients in the winter in 2013 and 2014, and again from 2017 through 2019. The mean southwesterly gradient between well pair MW1 and MW2 from mid-2014 to 2018 was $7.8x10^{-3}$ ft ft^{-1} (cv=0.31). The southwesterly gradients exhibited seasonal patterns with steeper gradients in the summer and flatter gradients in the winter. The mean southerly gradient between MW1 and MW3 from mid-2015 through 2018 (during months when sufficient data were available) was $1.0x10^{-2}$ ft ft^{-1} (cv=0.22). In 2019, the mean southwesterly gradient between MW1 and MW2 was $6.6x10^{-3}$ ft ft^{-1} (cv=0.19) and the mean southerly gradient was $7.4x10^{-3}$ ft ft^{-1} (cv=0.16).

Table 4.2.5.2: 2019 Source Areas at DIE

Well Site	Source Area
DIE-MW1	field
DIE-MW2	other (field)
DIE-MW3	lagoon (animal housing)
DIE-MW4	field/off site

4.2.5.3 2019 Groundwater Chemistry

DIE-MW1

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations ranging from 97 to 100 mg/L.

DIE-MW2

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area used for manure stacking although effects from the adjacent fields on water chemistry are conceivable. This includes nitrate-N concentrations ranging from 14 to 18 mg/L.

DIE-MW3

1. Ammoniacal N concentrations were below the reporting limit.
2. TKN concentration was 0.21 mg/L.
3. Comparison of TKN and ammoniacal N indicates that TKN essentially reflected organic N concentrations.
4. Nitrite-N was nondetect.
5. Nitrate-N concentrations ranged from 30 to 44 mg/L.
6. K concentration was 7.4 mg/L.

7. HCO_3 concentration was 590 mg/L.

2019 groundwater chemistry at this location is not indicative of lagoon seepage.

DIE-MW4

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields and off-site. This includes nitrate-N concentrations ranging from 27 to 54 mg/L.

Historical Groundwater Chemistry

Comparison of results of CVDRMP's recent monitoring efforts to historical analytical results available from 2003 to 2006 indicate that nitrate-N concentrations increased in MW1, 3, and 4 but remained similar in MW2.

4.2.6 DUR

4.2.6.1 Well Network Description and Assessment

There are 10 dedicated monitoring wells at this dairy including two wells that CVDRMP installed in 2012 using a nested structure design such that two wells were installed in one borehole (at well site MW10). The wells in the nested structure were completed in the same water-bearing zone but at different depth intervals to facilitate monitoring and sampling of the uppermost zone of first encountered groundwater under non-steady groundwater conditions. The other wells were installed in 1993 in first encountered groundwater.

4.2.6.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from 7.01 to 18.12 ft (btc) beneath the dairy since 2013. MW2 is located in the side of the lagoon's berm and, as a result, the depth to water is approximately 4 ft deeper in this well. Seasonal water level fluctuations were very slight. The hydrographs indicate stable water levels across the facility with slightly declining levels during the 2012-2016 drought and subsequent recovery.

Vertical gradients at the animal housing well, MW10, were very small. The median hydraulic head difference resided within the precision of depth-to-water measurements. Therefore, dh was assigned a zero value and the resulting vertical gradient was also zero.

2019 contours of equipotential groundwater level elevations indicate overall westerly groundwater flow. Occasionally, lower water levels in MW2 or MW8, or MW4 cause the gradient to shift slightly to the northwest or southwest, respectively. Well sites and associated 2019 source areas are shown in **Table 4.2.6.2**.

The mean gradient across the facility from 2013 through 2018 was 1.9×10^{-3} ft ft^{-1} (cv=0.44). The mean gradient in 2019 was 1.7×10^{-3} ft ft^{-1} (cv=0.51). Gradients exhibit a seasonal pattern with steeper gradients in the summer and flatter gradients in the winter.

Table 4.2.6.2: 2019 Source Areas at DUR

Well Site	Source Area
DUR-MW1	lagoon
DUR-MW2	lagoon/field
DUR-MW3	lagoon/animal housing
DUR-MW4	lagoon/animal housing
DUR-MW6	field
DUR-MW7	field (other)
DUR-MW8	field/off site
DUR-MW9	field
DUR-MW10	animal housing

4.2.6.3 2019 Groundwater Chemistry

DUR-MW1

1. Ammoniacal N concentrations were below the reporting limit.
2. TKN was nondetect.
3. Nitrite-N was nondetect.
4. Nitrate-N concentrations ranged from 97 to 130 mg/L.
5. TDS concentrations ranged from 1,400 to 1,600 mg/L.
6. K concentration was 3.2 mg/L.
7. HCO_3 concentration was 530 mg/L.

2019 groundwater chemistry at this location does not exhibit typical indications of lagoon seepage. However, it is possible that ammoniacal N is rapidly oxidized to nitrate-N in the coarse-textured subsurface.

DUR-MW2

1. Ammoniacal N concentrations ranged from 0.35 to 50 mg/L.
2. TKN concentration was 110 mg/L.
3. Comparison of TKN and ammoniacal N indicates that TKN reflected ammoniacal N.
4. Nitrite-N concentration was j flagged below the reporting limit at 0.018 mg/L.
5. Nitrate-N concentrations ranged from 14 to 23 mg/L.
6. TDS concentrations ranged from 1,500 to 1,900 mg/L.
7. K concentration was 230 mg/L.
8. HCO_3 concentration was high at 1,100 mg/L.).

2019 groundwater chemistry at this location is indicative of lagoon seepage.

DUR-MW3

1. Ammoniacal N concentrations ranged from below the reporting limit to 1.4 mg/L.

2. TKN concentration was 7.0 mg/L.
3. Comparison of TKN and ammoniacal N indicates organic N concentrations of 5.6 mg/L.
4. Nitrite-N concentration was 2.1 mg/L.
5. Nitrate-N concentrations ranged from 4.6 to 110 mg/L.
6. TDS concentrations ranged from 1,400 to 2,400 mg/L.
7. K concentration was 190 mg/L.
8. HCO_3 concentration was 900 mg/L.

2019 groundwater chemistry, including TKN and K concentrations, suggest possible lagoon seepage. It is possible that ammoniacal N is rapidly oxidized to nitrate-N in the coarse-textured subsurface.

DUR-MW4

1. Ammoniacal N concentrations ranged from 62 to 120 mg/L.
2. TKN concentration was 54 mg/L.
3. Comparison of TKN and ammoniacal N indicates that TKN reflected ammoniacal N.
4. Nitrite-N was nondetect.
5. Nitrate-N concentrations ranged from 89 to 150 mg/L.
6. TDS concentrations ranged from 2,500 to 3,000 mg/L.
7. K concentration was 180 mg/L.
8. HCO_3 concentration was high at 1,300 mg/L.

2019 groundwater chemistry at this location is indicative of lagoon seepage.

DUR-MW6

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the upgradient field. This includes nitrate-N concentrations ranging from 71 to 130 mg/L.

DUR-MW7

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the upgradient field. This well is also located directly next to a subsurface concrete pipeline for manure water, and groundwater chemistry is could potentially be affected by pipe leakage. This includes high concentrations of ammoniacal N (1.4 to 84 mg/L, nitrate-N (70-120 mg/L), TKN (40 mg/L), and K (250 mg/L).

DUR-MW8

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area including fields and also neighboring cropland. This includes nitrate-N concentrations ranging from 1.0 to 52 mg/L.

DUR-MW9

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the upgradient field. This includes nitrate-N concentrations ranging from 7.2 to 10 mg/L.

DUR-MW10

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the animal housing. This includes nitrate-N concentrations ranging from 2.3 to 74 mg/L.

4.2.6.4 Comments

MWs 1 to 4 were installed immediately adjacent to the lagoon in its berm. It is remarkable that at MW1, which is most consistently downgradient of the lagoon, nitrogen occurred almost completely in its oxidized form as nitrate. However, MWs 2 and 4, which had more variable source areas, exhibited high concentrations of ammoniacal N. Marked spatial variability of groundwater chemical characteristics near lagoons is a well-documented phenomenon and is largely attributed to heterogeneous hydraulic conductivity distribution and associated preferential groundwater flow (LSCE 2008). This lack of correlation between lagoon performance and groundwater quality is symptomatic of technical limitations of groundwater monitoring (*Section 2.4*).

4.2.7 FG1

4.2.7.1 Well Network Description and Assessment

There are 18 dedicated monitoring wells at this dairy. CVDRMP installed these wells in 2011 using a nested structure design such that two wells were installed in each borehole. The wells in the nested structures were completed in the same water-bearing zone but at different depth intervals to facilitate monitoring and sampling of the uppermost zone of first encountered groundwater under non-steady groundwater conditions.

This dairy closed in 2015. In 2016, the associated cropland was planted in almonds.

4.2.7.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from 3.72 to 23.00 ft (btc) beneath the dairy since 2012. Across the facility, hydrographs indicate stable conditions with very slightly declining water levels from 2012 to 2016 with comparatively small seasonal variability, followed by steep water level rises to within a few feet of the ground surface (especially in the wells adjacent to the Merced River, namely MW5, MW8, and MW9) in response to large stream discharge associated with the wet 2016/17 winter. The seasonality of high and low water levels differs across the facility.

Seasonal water level variability was very small in MW1 (i.e., adjacent to the lagoon) and downgradient of the animal housing (i.e., MW2 and MW3) from 2012-2014 but increased in 2015 and 2016 with seasonal highs in the winter. Seasonal water level fluctuations were greater in the MWs located nearest the Merced River (MW5, MW8, and MW9) but the timing was similar. In contrast, MW4, MW6, and MW7, all centrally located in the fields, exhibited the effect of summer irrigations during the corn season (double cropped at this facility). This is reflected in the elevated summer water levels. Since 2017, seasonal water level fluctuations have been larger and seasonal highs in all of the MWs typically occurred late winter to spring.

Vertical gradients were very small. At eight of the nine monitoring well locations, the median hydraulic head difference resided within the precision of depth-to-water measurements. Therefore, dh was assigned a zero value and the resulting vertical gradient was also zero. At these wells, vertical gradients

rarely exceeded |0.01| ft ft^{-1}. The median vertical gradient at MW9 was 0.01 ft ft^{-1} (i.e., slightly downward).

2019 contours of equipotential groundwater level elevations indicate overall northwesterly to southwesterly groundwater flow during most of the year. During several months, a groundwater mount developed beneath the cropland east of the corrals leading to a pattern of radial flow. Well sites and associated 2019 source areas are shown in **Table 4.2.7.2**.

The mean northerly gradient between MW6 and MW5 was $1.1x10^{-3}$ ft ft^{-1} (cv=-0.80) from 2012 through 2018. During the same period, the mean southwesterly gradient between MW6 and MW3 was $7.4x10^{-4}$ ft ft^{-1} (cv=-0.61). In 2019, the mean northerly gradient was $7.5x10^{-4}$ ft ft^{-1} (cv=-0.62) and the mean southwesterly gradient was $8.1x10^{-4}$ ft ft^{-1} (cv=-0.37). Gradients exhibited seasonal patterns with steepest gradients in the summer from 2012 to 2015. Since the closure of the dairy, this pattern has been less pronounced. This is consistent with the conversion from surface irrigated forage crops to the establishment of a subsurface drip irrigated almond orchard.

Table 4.2.7.2: 2019 Source Areas at FG1

Well Site	Source Area
FG1-MW1	lagoon/field
FG1-MW2	animal housing (field)
FG1-MW3	animal housing
FG1-MW4	field (animal housing)
FG1-MW5	field (off site)
FG1-MW6	field
FG1-MW7	field
FG1-MW8	field (off site)
FG1-MW9	off site

4.2.7.3 2019 Groundwater Chemistry

FG1-MW1

1. Ammoniacal N concentrations ranged from below the reporting limit to 9.6 mg/L.
2. TKN concentration was 0.70 mg/L.
3. Comparison of TKN and ammoniacal N indicates that TKN essentially reflected ammoniacal N.
4. Nitrite-N was nondetect.
5. Nitrate-N concentrations ranged from below the reporting limit to 0.28 mg/L.
6. K concentration was 3.3 mg/L
7. HCO_3 concentration was the greatest among the wells (900 mg/L).
8. TDS concentrations ranged from 1,100 to 1,600 mg/L.

2019 groundwater chemistry at this location, such as elevated ammoniacal N and HCO_3, may be an indication for lagoon seepage. However, this well may not be favorably located for purposes of lagoon seepage detection.

FG1-MW2

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the animal housing, although effects from the adjacent field on water chemistry are conceivable. This includes nitrate-N concentrations ranging from 42 to 89 mg/L.

FG1-MW3

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the animal housing. This includes nitrate-N concentrations ranging from 9.9 to 19 mg/L.

FG1-MW4

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields although effects from animal housing on water chemistry are conceivable. This includes nitrate-N concentrations ranging from 83 to 130 mg/L and TDS ranging from 1,600 to 1,900 mg/L.

FG1-MW5

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields although this location may also be affected by recharge from the Merced River. This includes nitrate-N concentrations ranging from 8.1 to 28 mg/L and TDS ranged from 1,000 to 1,300 mg/L.

FG1-MW6

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations ranging from 31 to 40 mg/L and TDS ranging from 630 to 1,100 mg/L.

FG1-MW7

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations ranging from 28 to 56 mg/L and TDS ranging from 580 to 750 mg/L.

FG1-MW8

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields, although this location may also be affected by recharge from the Merced River. This includes nitrate-N concentrations ranging from 3.1 to 35 mg/L and TDS ranged from 760 to 940 mg/L.

FG1-MW9

Groundwater chemistry at this location is substantially attributed to recharge occurring off site. This includes nitrate-N concentrations ranging from below the reporting limit to 1.2 mg/L. Measurements

during purging exhibit lower groundwater temperatures than in the other monitoring wells, which may be indicative of recharging river water.

4.2.7.4 Comments

Salinity in MW4 increased significantly from 2015 to 2017. Nitrate-N concentrations also increased and were substantially greater in 2018-2019 than in 2014-2015. MW6 and MW7, both located in the center of the monitored fields, exhibited steep salinity increases in 2015, and high salinity in 2016 that was followed by considerable salinity declines. MW6 exhibits gradual nitrate-N concentration increases over its period of record, whereas concentrations at MW7 increased more rapidly in 2019. It is possible that these groundwater quality changes are related to the changed land use associated with the closure of the dairy in 2015; specifically, the conversion of surface irrigated forage crops to a subsurface drip irrigated almond orchard.

4.2.8 BEA

4.2.8.1 Well Network Description and Assessment

There are 10 dedicated monitoring wells at this dairy. CVDRMP installed MWs 1 through 4 in 2011 using a nested structure design such that two wells were installed in each borehole. In fall 2014, MW1dd and MW2dd were constructed to address significantly declining groundwater levels. The wells in the nested structures and the two new wells were completed in the same water-bearing zone but at different depth intervals to facilitate monitoring and sampling of the uppermost zone of first encountered groundwater under non-steady groundwater conditions.

This dairy was sold and converted to a heifer ranch in 2013.

4.2.8.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from 17.30 to more than 51.57 ft (btc) beneath the dairy since 2012. Water levels were the highest in winter/spring 2012 and then gradually declined up to 17 feet until lowest levels were reached in the summer months. Water levels subsequently rose through spring 2013 but remained at least 5 ft short of a full recovery. Low water levels in 2013 were approximately 6-8 ft lower than in 2012 and showed virtually no recovery in winter 2013/14. In MWs 1, 2, and 3, water levels fell below the deep casing and these wells remained dry in 2015/16. The hydrographs of MW1dd, MW2dd and MW4d indicate slowing of water level declines and stabilization in 2015/16. MW4 has the most complete record and this well experienced an overall water level decline of 31.02 ft between January 2012 and September 2015. By December 2017, water levels had recovered twelve feet and have remained stable through 2019.

Vertical gradients at MW4 were very small. At this well, the median hydraulic head difference resided within the precision of depth-to-water measurements. Therefore, dh was assigned a zero value and the resulting vertical gradient was also zero. Median vertical gradients ranged from 0.01 ft ft^{-1} at MW1 and MW3 to 0.02 ft ft^{-1} at MW2.

2019 contours of equipotential groundwater level elevations indicate predominantly southerly to easterly groundwater flow beneath the facility. Well sites and associated 2019 source areas are shown in **Table 4.2.8.2**.

The mean southeasterly gradient between MW2 and MW4 was $2.6x10^{-3}$ ft ft^{-1} (cv=0.41) between 2012 and 2018. The mean easterly gradient between MW1 and MW4 was $2.5x10^{-3}$ ft ft^{-1} (cv=0.31). In 2019, the mean southeasterly gradient was $2.2x10^{-3}$ ft ft^{-1} (cv=0.40) and the mean easterly gradient was $2.2x10^{-3}$ ft ft^{-1} (cv=0.31). Gradients tend to be steeper in the summer and flatter in the winter.

Table 4.2.8.2: 2019 Source Areas at BEA

Well Site	Source Area
BEA-MW1	lagoon
BEA-MW2	animal housing/off site
BEA-MW3	animal housing
BEA-MW4	animal housing

4.2.8.3 2019 Groundwater Chemistry

BEA-MW1dd

1. Ammoniacal N concentrations ranged from 11 to 18 mg/L.
2. TKN concentration was 11 mg/L.
3. Comparison of TKN and ammoniacal N indicates that TKN reflected ammoniacal N.
4. Nitrite-N was nondetect.
5. Nitrate-N was nondetect.
6. TDS concentrations ranged from 600 to 840 mg/L.
7. K concentration was higher than at other monitoring wells (32 mg/L).
8. HCO_3 concentration was 550 mg/L.

2019 groundwater chemistry at this location is indicative of lagoon seepage.

BEA-MW2dd

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the animal housing and an upgradient, off-site field. This includes nitrate-N concentrations ranging from 5.7 to 12 mg/L and TDS concentrations ranging from 400 to 600 mg/L.

BEA-MW3

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the animal housing. This includes high nitrate-N concentrations ranging from 120 to 150 mg/L and high overall salinity (TDS range=2,400-2,700 mg/L) associated with elevated cation and anion concentrations.

BEA-MW4

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the animal housing. This includes nitrate-N concentrations ranging from 6.4 to 17 mg/L and TDS ranging from 610 to 860 mg/L.

4.2.9 COT

4.2.9.1 Well Network Description and Assessment

There are 19 dedicated monitoring wells at this dairy. Ten of these wells were installed in 2004 in first encountered groundwater (MWs 1-10). CVDRMP installed 8 additional wells in 2011 using a nested structure design such that two wells were installed in each borehole. An additional well (COT-MW1d) was installed next to MW1 in fall 2014 to address declining water levels at this location. The wells in the nested structures were completed in the same water-bearing zone but at different depth intervals to facilitate monitoring and sampling of the uppermost zone of first encountered groundwater under non-steady groundwater conditions.

4.2.9.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from 5.14 to 51.78 ft (btc) since 2012. Most of the pre-existing MWs experienced declining water levels in 2012 and 2013 and went dry soon thereafter (MWs, 1-6 and MW8). The screens of several of these wells are deeper than in the southern portion of the facility, yet, the southernmost wells (MWs 7, 9, and 10) did not go dry. Seasonally high water levels in MW7 declined approximately 10 ft over the period of record. In MWs 9 and 10, water levels declined about 15 ft from 2012 to 2015 but exhibited full or nearly full recovery by 2017. Since then, water levels in MW9 declined again while water levels in MW10 were stable. The maximum dtw was approximately 25 ft (bgs) in these wells. The hydrographs from the new wells (MW1d and MWs 11-14) indicate that water level declines slowed in 2015, remained overall stable in 2016 and 2017, and then gradually declined approximately 3 feet from 2018 to 2019.

Vertical gradients at MW 14 were very small. At this well, the median hydraulic head difference resided within the precision of depth-to-water measurements. Therefore, dh was assigned a zero value and the resulting vertical gradient was also zero. Median vertical gradients at MW11-MW13 ranged from 0.00 to 0.02 ft ft^{-1}.

2019 contours of equipotential groundwater level elevations indicate predominantly northerly to northeasterly groundwater flow components beneath the COT fields and the production area. Well sites and associated 2019 source areas are shown in **Table 4.2.9.2**.

Mean gradients computed between five well pairs between 2012 and 2018 ranged from $1.4x10^{-3}$ ft ft^{-1} (cv=0.33) to $3.0x10^{-3}$ ft ft^{-1} (cv=0.40). In 2019, gradients for two of the well pairs ranged from $2.8x10^{-3}$ ft ft^{-1} (cv=0.12) to $3.0x10^{-3}$ ft ft^{-1} (cv=0.12). During years when sufficient water level information is available, gradient tend to be steeper in the summer and flatter in the winter.

Table 4.2.9.2: 2019 Source Areas at COT

Well Site	Source Area
COT-MW1	field
COT-MW2	no sample
COT-MW3	no sample
COT-MW4	no sample
COT-MW5	no sample
COT-MW6	no sample
COT-MW7	field
COT-MW8	no sample
COT-MW9	field
COT-MW10	field/off site
COT-MW11	lagoon (animal housing)
COT-MW12	field/animal housing
COT-MW13	field/animal housing
COT-MW14	animal housing

4.2.9.3 2019 Groundwater Chemistry

COT-MW1

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations ranging from 41 to 47 mg/L.

COT-MW2 to MW6

These wells did not yield sufficient water for groundwater sample collection.

COT-MW7

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes a nitrate-N concentration of 56 mg/L.

COT-MW8

This well did not yield sufficient water for groundwater sample collection.

COT-MW9

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations ranging from 32 to 55 mg/L.

COT-MW10

This well's source area varies from facility fields to off-site fields and its water chemistry is attributed to these variable sources. Nitrate-N concentrations ranged from 13 to 26 mg/L.

COT-MW11

1. Ammoniacal N concentrations were below the reporting limit.
2. TKN concentration was 0.24 mg/L.
3. Comparison of TKN and ammoniacal N indicates that TKN essentially reflected organic N concentrations.
4. Nitrite-N concentration was nondetect.
5. Nitrate-N concentrations ranged from 0.66 to 6.2 mg/L.
6. K concentration was 30 mg/L.

2019 groundwater chemistry at this location does not exhibit typical indications of lagoon seepage with the exception of elevated potassium concentrations. It is possible that ammoniacal N is rapidly oxidized to nitrate-N in the coarse-textured subsurface. Also, it is conceivable that the source area of this well extended beyond the footprint of the North Settling Basin into the animal housing area.

COT-MW12

Due to variable groundwater flow directions in this well's vicinity, its source area cannot be uniquely attributed to the animal housing or adjacent dairy fields. Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields to the west and the animal housing to the east. This includes nitrate-N concentrations ranging from 61 to 82 mg/L.

COT-MW13

Due to variable groundwater flow directions in this well's vicinity, its source area cannot be uniquely attributed to the animal housing or adjacent dairy fields. Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields to the west and the animal housing to the east. This includes nitrate-N concentrations ranging from 49 to 53 mg/L.

COT-MW14

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the animal housing. This includes nitrate-N concentrations ranging from 88 to 93 mg/L.

4.2.10 SAN

4.2.10.1 Well Network Description and Assessment

There are 16 dedicated monitoring wells at this dairy. CVDRMP installed these wells in 2011 using a nested structure design such that two wells were installed in each borehole. The wells in the nested structures were completed in the same water-bearing zone but at different depth intervals to facilitate monitoring and sampling of the uppermost zone of first encountered groundwater under non-steady groundwater conditions.

4.2.10.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from 13.04 to 53.70 ft (btc) beneath the dairy since 2012, with the three southern field

wells (MW6, 7, and 8) exhibiting shallower water levels than others (similar to the adjacent COT). Seasonal water level fluctuations were on the order of 10 to 15 ft (less at MW6) with highest water levels typically occurring in the winter and early spring. At MWs 2 and 3, water levels dropped below the bottom of their screens in 2014 and remained dry through most of 2018. Water levels temporarily dropped below the screens of MWs 1, 4, and 5 in the summers of 2015 and 2016, indicating declines of over 25 ft in the northern part of the facility. Water levels in these wells have remained relatively stable since 2017. In the southern part of the facility, hydrographs indicate water table declines of 15 to 24 ft between 2012 and 2015, followed by recovery in 2016 and 2017, and dropping water levels in 2018 and 2019.

Vertical gradients were very small. Hydraulic head difference resided within the precision of depth-to-water measurements. Therefore, dh was assigned a zero value and the resulting vertical gradient was also zero.

2019 contours of equipotential groundwater level elevations indicate generally northeasterly to northerly groundwater flow beneath the SAN fields and northerly to northwesterly under the production area. Well sites and associated 2019 source areas are shown in **Table 4.2.10.2**.

The mean northeasterly gradient between MW6 and MW5 was $2.5x10^{-3}$ ft ft^{-1} (cv=0.40) from 2012 through 2018 and the mean easterly gradient between MW6 and MW7 was $2.0x10^{-3}$ ft ft^{-1} (cv=0.41) through 2018. Both gradients exhibited a seasonal pattern with steeper gradients in the summer and flatter gradients in the winter. In 2019, the mean northeasterly gradient was $2.4x10^{-3}$ ft ft^{-1} (cv=0.11).

Table 4.2.10.2: 2019 Source Areas at SAN

Well Site	Source Area
SAN-MW1	lagoon/field
SAN-MW2	no sample
SAN-MW3	no sample
SAN-MW4	field (animal housing)
SAN-MW5	field
SAN-MW6	field
SAN-MW7	field
SAN-MW8	field

4.2.10.3 2019 Groundwater Chemistry

SAN-MW1

1. Ammoniacal N concentrations were below the reporting limit.
2. TKN concentration was 0.46 mg/L.
3. Comparison of TKN and ammoniacal N indicates that TKN essentially reflected organic N concentrations.
4. Nitrite-N concentration was nondetect.
5. Nitrate-N concentrations ranged from 28 to 32 mg/L.
6. K concentration was 4.6 mg/L.

7. HCO_3 concentration was 900 mg/L.

2019 groundwater chemistry at this location is not indicative of lagoon seepage, with the possible exception of the elevated HCO_3 concentration.

SAN-MW2

This well did not yield sufficient water for groundwater sample collection.

SAN-MW3

This well did not yield sufficient water for groundwater sample collection.

SAN-MW4

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields, although effects from the adjacent animal housing on water chemistry are conceivable. This includes nitrate-N concentrations ranging from 48 to 55 mg/L.

SAN-MW5

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations ranging from 44 to 62 mg/L.

SAN-MW6

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations ranging from 41 to 47 mg/L.

SAN-MW7

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations ranging from 24 to 30 mg/L.

SAN-MW8

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations ranging from 21 to 31 mg/L.

4.2.11 GEN

4.2.11.1 Well Network Description and Assessment

There are 14 dedicated monitoring wells at this dairy. Ten of these wells were installed in 1993 in first encountered groundwater. CVDRMP installed 4 additional wells in 2012 using a nested structure design such that two wells were installed in each borehole. The wells in the nested structures were completed in the same water-bearing zone but at different depth intervals to facilitate monitoring and sampling of the uppermost zone of first encountered groundwater under non-steady groundwater conditions. MW4 was abandoned by destruction in fall 2014, without replacement (LSCE 2015a). This well was constructed in a subsurface vault in a flush lane; it was very difficult to access for monitoring purposes and posed a risk as a conduit for flush water. This well was non-critical to the monitoring well network at this dairy.

4.2.11.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from 7.20 to 25.89 ft (btc) beneath the dairy since 2013. Water level trends were very similar across the dairy with the highest levels observed in summer 2013, a period of steadily declining levels through 2015 (up to approximately 10 ft), about five ft of recovery in 2017, and relatively stable conditions through 2019. The hydrographs exhibit virtually no seasonal water level fluctuations.

Vertical gradients at the two nested well locations were very small. The median hydraulic head difference resided within the precision of depth-to-water measurements. Therefore, dh was assigned a zero value and the resulting vertical gradient was also zero.

2019 contours of equipotential water level elevations indicate a rather flat water table with mostly northerly to easterly flow. Well sites and associated 2019 source areas are shown in **Table 4.2.11.2**.

Mean gradients were less than $1.0x10^{-3}$ ft ft^{-1}, without consistent seasonal patterns.

Table 4.2.11.2: 2019 Source Areas at GEN

Well Site	Source Area
GEN-MW1	lagoon/animal housing/other
GEN-MW2	animal housing
GEN-MW3	lagoon
GEN-MW5	field/animal housing/other
GEN-MW6	field/off site
GEN-MW7	field/animal housing/off site
GEN-MW8	lagoon/animal housing
GEN-MW9	lagoon/field/off site
GEN-MW10	lagoon/animal housing/field
GEN-MW11	field/off site
GEN-MW12	field/off site

4.2.11.3 2019 Groundwater Chemistry

GEN-MW1

1. Ammoniacal N concentrations ranged from nondetect to 8.3 mg/L.
2. TKN concentration was 5.9 mg/L.
3. Comparison of TKN and ammoniacal N indicates that TKN essentially reflected organic N concentrations.
4. Nitrite-N concentration was below the reporting limit mg/L.
5. Nitrate-N concentrations ranged from 0.88 to 2.9 mg/L.
6. TDS concentrations ranged from 1,800 to 1,900 mg/L.

7. K was 42 mg/L.
8. HCO_3 was 1,300 mg/L).

2019 groundwater chemistry at this location is indicative of lagoon seepage.

GEN-MW2

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the animal housing. This includes nitrate-N concentrations ranging from 54 to 56 mg/L.

GEN-MW3

1. Ammoniacal N concentrations ranged from 0.27 to 4.1 mg/L.
2. TKN concentrations was 5.5 mg/L.
3. Comparison of TKN and ammoniacal N indicates that TKN essentially reflected organic N concentrations.
4. Nitrite-N concentration was 0.55 mg/L.
5. Nitrate-N concentrations ranged from 40 to 340 mg/L.
6. TDS concentrations ranged from 4,400 to 5,800 mg/L and were higher than at any other well at this site.
7. K was very high (830 mg/L).
8. HCO_3 was high (2,100 mg/L).

2019 groundwater chemistry at this location is indicative of lagoon seepage.

GEN-MW5

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the upgradient field, animal housing, and a feed storage area. This includes nitrate-N concentrations ranging from 100 to 150 mg/L.

GEN-MW6

Groundwater quality at this location is substantially attributed to recharge occurring within upgradient fields and in a source area extending into the adjacent neighbor's field. Nitrate-N concentrations ranged from 25 to 100 mg/L.

GEN-MW7

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area in the upgradient dairy field, off-site beyond the field, and animal housing. This includes nitrate-N concentrations ranging from 25 to 69 mg/L.

GEN-MW8

1. Ammoniacal N concentrations ranged from nondetect to 90 mg/L.
2. TKN concentrations was 62 mg/L.
3. Comparison of TKN and ammoniacal N indicates that TKN represented organic N concentrations.
4. Nitrite-N concentration was 0.13 mg/L.
5. Nitrate-N concentrations ranged from 30 to 89 mg/L.
6. TDS concentrations ranged from 2,400 to 2,800 mg/L.
7. K was 100 mg/L.

8. HCO_3 was very high (2,300 mg/L).

2019 groundwater chemistry at this location is indicative of lagoon seepage.

GEN-MW9

1. Ammoniacal N concentrations ranged from nondetect to 0.25 mg/L.
2. TKN concentrations was 2.2 mg/L.
3. Comparison of TKN and ammoniacal N indicates that TKN represented organic N concentrations.
4. Nitrite-N concentration was 0.32 mg/L.
5. Nitrate-N concentrations ranged from 45 to 89 mg/L.
6. TDS concentrations ranged from 1,000 to 1,400 mg/L.
7. K was relatively high (180 mg/L).
8. HCO_3 was 380 mg/L.

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the upgradient field and the lagoons as well as off-site crop land. 2019 groundwater chemistry at this location is not indicative of lagoon seepage with the exception of the relatively high potassium concentration.

GEN-MW10

1. Ammoniacal N concentrations ranged from below the reporting limit to 0.20 mg/L.
2. TKN concentrations was 1.6 mg/L.
3. Comparison of TKN and ammoniacal N indicates that TKN represented organic N concentrations.
4. Nitrite-N concentration was 0.62 mg/L.
5. Nitrate-N concentrations ranged from 36 to 72 mg/L.
6. TDS concentrations ranged from 1,400 to 1,800 mg/L.
7. K was 34 mg/L.
8. HCO_3 was relatively high (860 mg/L).

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the animal housing, fields, and the lagoons. Moderately elevated K and HCO_3 concentrations may be an indication that groundwater is somewhat affected by lagoon seepage at this location. However, K and HCO_3 are also elevated at well locations that are not associated with the lagoons (e.g. MW11 with K=160 mg/L and MW2 with HCO_3=800 mg/L).

GEN-MW11

Groundwater chemistry at this location is substantially attributed to a source that includes the neighboring orchard as well as the northern field of the dairy. Nitrate-N concentrations ranged from 49 to 110 mg/L.

GEN-MW12

Groundwater chemistry at this location is substantially attributed to a source that includes neighboring farmland and the dairy's field. Nitrate-N concentrations ranged from 47 to 70 mg/L.

4.2.12 TRO

4.2.12.1 Well Network Description and Assessment

There are 3 dedicated monitoring wells at this dairy. These wells were installed in 1995 and 2005 in first encountered groundwater. Hydrologic and well construction information indicates a substantial unsaturated zone beneath the dairy. Long travel times of percolating water from the ground surface to the water table, including the associated potential for dispersion and reactive transport confound the interpretation of groundwater chemical results with regard to management practices. This condition has been exacerbated by sustained drought conditions in the Central Valley (2012-2016) during which water levels in MW1 have declined below the screen intake.

4.2.12.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from 73.25 to 108.29 ft (btc) beneath the dairy since 2013. Seasonally high water levels occurred in late summer and fall. Low water levels occurred in late spring and early summer. Water levels in MW1 declined approximately 10 ft in 2013/14 before this well went dry. Water levels rose back up into the well in late 2016 and fully recovered to early 2013 levels by winter 2017. Water levels rose an additional 7 feet in 2019. MWs 2 and 3 exhibit distinct seasonal water level fluctuations of up to 12 ft. Overall, hydrographs exhibit slightly declining water levels from 2013 to 2015, and rising water levels since then.

2019 contours of equipotential groundwater level elevations indicate consistent southwesterly groundwater flow beneath the facility. Well sites and associated 2019 source areas are shown in **Table 4.2.12.2**.

The mean gradient across the facility from 2013 to 2018 was $4.5x10^{-3}$ ft ft^{-1} (cv=0.25). In 2019, the mean gradient was $4.8x10^{-3}$ ft ft^{-1} (cv=0.14). Gradients exhibited a seasonal pattern with the smallest gradients occurring in summer.

Table 4.2.12.2: 2019 Source Areas at TRO

Well Site	Source Area
TRO-MW1	off site
TRO-MW2	field
TRO-MW3	animal housing

4.2.12.3 2019 Groundwater Chemistry

TRO-MW1

Groundwater chemistry at this location is substantially attributed to recharge occurring in an off-site source area. This includes nitrate-N concentrations ranging from 13 to 20 mg/L and TDS concentrations ranging from 560 to 740 mg/L.

TRO-MW2

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the field. Nitrate-N concentrations ranged from 89 to 94 mg/L and TDS concentrations ranged from 1,300 to 1,400 mg/L.

TRO-MW3

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the animal housing. This includes nitrate-N concentrations ranging from 30 to 43 mg/L and TDS concentrations ranging from 610 to 770 mg/L.

Historical Groundwater Chemistry

In MW1, nitrate-N concentrations ranged from 9.4 to 12.9 mg/L in 2006 (n=3) and from 11 to 15 mg/L in 2018. In MW2, nitrate-N concentrations ranged from 40.4 to 54.8 mg/L in 2006 (n=3) and from 36 to 45 mg/L in 2018. In MW3, nitrate-N concentrations ranged from 6.9 to 32.1 mg/L in 2006 (n=3) and from 36 to 45 mg/L in 2018.

4.2.13 PLS

4.2.13.1 Well Network Description and Assessment

There are 14 dedicated monitoring wells at this dairy. CVDRMP installed these wells in 2011 using a nested structure design such that two wells were installed in each borehole. The wells in the nested structures were completed in the same water-bearing zone but at different depth intervals to facilitate monitoring and sampling of the uppermost zone of first encountered groundwater under non-steady groundwater conditions.

This dairy closed in 2019 and converted to non-animal farming.

4.2.13.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from 4.03 to 17.50 ft (btc) beneath the dairy since 2012. Seasonal water level fluctuations were generally less than 5 feet with the lowest levels observed in spring and the highest levels typically observed in the summer and fall. Overall, the hydrographs indicate an overall water table decline of 6 to 10 ft from 2012 to 2015, and full recovery by 2017. Water levels remained stable through 2019.

Vertical gradients were very small. At five of the seven monitoring well locations, the median hydraulic head difference resided within the precision of depth-to-water measurements. Therefore, dh was assigned a zero value and the resulting vertical gradient was also zero. MW6 has the largest median vertical gradient, 0.06 ft ft^{-1}.

2019 contours of equipotential groundwater level elevations indicate predominantly southeasterly to southerly groundwater flow beneath the fields and southerly to southwesterly groundwater flow beneath the production area. Well sites and associated 2019 source areas are shown in **Table 4.2.13.2**.

Overall, gradients were small. From 2012 to 2018, the mean southeasterly gradient beneath the fields (from MW6 to MW2) was $1.0x10^{-3}$ ft ft^{-1} (cv=0.31) compared to a mean southeasterly gradient of $9.6x10^{-4}$ ft ft^{-1} (cv=0.60) in 2019. From 2012 to 2018, the mean southwesterly gradient beneath the production area was $9.8x10^{-4}$ ft ft^{-1} (cv=0.26) compared to a mean gradient of $1.1x10^{-3}$ ft ft^{-1} (cv=0.32) in 2019. Gradients do not exhibit consistent seasonal patterns.

Table 4.2.13.2: 2019 Source Areas at PLS

Well Site	Source Area
PLS-MW1	lagoon/field
PLS-MW2	lagoon/field
PLS-MW3	off site
PLS-MW4	field/animal housing
PLS-MW5	animal housing
PLS-MW6	field
PLS-MW7	field

4.2.13.3 2019 Groundwater Chemistry

PLS-MW1

1. Ammoniacal N concentrations ranged from below the reporting limit to 0.20 mg/L.
2. TKN concentration was 1.7 mg/L.
3. Comparison of TKN and ammoniacal N indicates that TKN essentially reflected organic N concentrations.
4. Nitrite-N concentration was 0.087 mg/L.
5. Nitrate-N concentrations ranged from 76 to 83 mg/L.
6. TDS concentrations and individual general mineral concentrations were similar to non-lagoon wells.

Groundwater chemistry at this location does not exhibit typical indications of lagoon seepage. However, it is possible that ammoniacal N is rapidly oxidized to nitrate-N in the coarse-textured subsurface. Also, this well may not be favorably located for purposes of lagoon seepage detection.

PLS-MW2

1. Ammoniacal N concentrations ranged from below the reporting limit to 0.22 mg/L.
2. TKN concentration was 1.7 mg/L.
3. Comparison of TKN and ammoniacal N indicates that TKN essentially reflected organic N concentrations.
4. Nitrite-N concentration was 0.15 mg/L.
5. Nitrate-N concentrations ranged from 44 to 99 mg/L.
6. TDS concentrations and individual general mineral concentrations were similar to non-lagoon wells.

Groundwater chemistry at this location does not exhibit typical indications of lagoon seepage. However, it is possible that ammoniacal N is rapidly oxidized to nitrate-N in the coarse-textured subsurface. Also, this well may not be favorably located for purposes of lagoon seepage detection.

PLS-MW3

This well provides hydraulic control and its water chemistry is substantially attributed to recharge occurring in a source area within neighboring, off-site, farmland. This includes nitrate-N concentrations ranging from 45 to 65 mg/L.

PLS-MW4

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields and the animal housing. This includes nitrate-N concentrations ranging from 27 to 45 mg/L.

PLS-MW5

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the animal housing. This includes nitrate-N concentrations ranging from 71 to 84 mg/L.

PLS-MW6

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations ranging from 34 to 43 mg/L.

PLS-MW7

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations ranging from 81 to 130 mg/L.

4.2.14 CAE

4.2.14.1 Well Network Description and Assessment

There are 12 dedicated monitoring wells at this dairy. CVDRMP installed these wells in 2011 using a nested structure design such that two wells were installed in each borehole. The wells in the nested structures were completed in the same water-bearing zone but at different depth intervals to facilitate monitoring and sampling of the uppermost zone of first encountered groundwater under non-steady groundwater conditions.

4.2.14.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from 7.27 to 25.05 ft (btc) beneath the dairy since 2012. Seasonal water level fluctuations were generally small (i.e., less than 5 feet) but were more pronounced in 2014, 2015, and 2016 with low water levels occurring in the summer (MWs 1 to 4). Seasonal water level fluctuations were more subdued at MW5 and MW6, located in the fields. Overall, the hydrographs indicate water table declines across the facility of up to 12 ft between 2012 and 2015, and full or almost full recovery through 2019.

Vertical gradients were very small. The median hydraulic head difference resided within the precision of depth-to-water measurements. Therefore, dh was assigned a zero value and the resulting vertical gradient was also zero.

2019 contours of equipotential groundwater level elevations indicate predominantly southwesterly to westerly groundwater flow beneath the site. Flow. Well sites and associated 2019 source areas are shown in **Table 4.2.14.2**.

The mean gradient across the facility was $2.1x10^{-3}$ ft ft^{-1} (cv=0.55) from 2012 to 2018. In 2019, the mean gradient was $7.7x10^{-4}$ ft ft^{-1} (cv=0.25). Gradients exhibit a seasonal pattern with steeper gradients in the summer and flatter gradients in the winter.

Table 4.2.14.2: 2019 Source Areas at CAE

Well Site	Source Area
CAE-MW1	lagoon
CAE-MW2	animal housing/other
CAE-MW3	animal housing
CAE-MW4	field (animal housing)
CAE-MW5	field
CAE-MW6	off site

4.2.14.3 2019 Groundwater Chemistry

CAE-MW1

1. Ammoniacal N concentrations were high ranging from 81 to 130 mg/L.
2. TKN concentration was high (78 mg/L).
3. Comparison of TKN and ammoniacal N indicates that TKN reflected ammoniacal N.
4. Nitrite-N was nondetect.
5. Nitrate-N concentrations ranged from 0.91 to 21 mg/L.
6. K concentration was the highest of all wells at this site (290 mg/L).
7. HCO_3 concentration was the highest of all wells at this site (1,200 mg/L).

2019 groundwater chemistry at this location is indicative of lagoon seepage.

CAE-MW2

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the animal housing and the area immediately north of the animal housing. This includes nitrate-N concentrations ranging from 29 to 44 mg/L.

CAE-MW3

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the animal housing. This includes nitrate-N concentrations ranging from 20 to 54 mg/L.

CAE-MW4

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields although effects from the adjacent animal housing on water chemistry are conceivable. This includes high nitrate-N concentrations (140-210 mg/L).

CAE-MW5

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations ranging from 50 to 88 mg/L.

CAE-MW6

Groundwater chemistry at this location is substantially attributed to off-site sources. This includes high nitrate-N concentrations ranging from 100 to 120 mg/L.

4.2.15 ROB

4.2.15.1 Well Network Description and Assessment

There are 16 dedicated monitoring wells at this dairy. CVDRMP installed these wells in 2011 using a nested structure design such that two wells were installed in each borehole. The wells in the nested structures were completed in the same water-bearing zone but at different depth intervals to facilitate monitoring and sampling of the uppermost zone of first encountered groundwater under non-steady groundwater conditions.

4.2.15.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from 7.37 to 33.58 ft (btc) beneath the dairy since 2012. Through 2016, MWs 3 through 8 exhibited distinct seasonal water level fluctuations with the highest water levels in winter and spring and the lowest levels in late summer and fall. Spring water levels declined approximately 12 ft from 2012 to 2016. MW1 and MW2 exhibited similar seasonal fluctuations and overall water level declines. In addition, their hydrographs exhibited shorter-term water level fluctuations, possibly caused by agricultural groundwater pumping near these wells. At MW1, 2, and 5, water levels declined below the well screens in the summer of 2015 and 2016. In 2017, water levels across the facility fully or nearly fully recovered to Spring 2012 levels. Water levels remained stable through 2018 and exhibited additional recovery in 2019.

Vertical gradients were very small. At seven of the eight monitoring well locations, the median hydraulic head difference resided within the precision of depth-to-water measurements. Therefore, dh was assigned a zero value and the resulting vertical gradient was also zero. MW7 had a median vertical gradient of 0.02 ft ft^{-1}.

2019 contours of equipotential groundwater level elevations indicate mainly southwesterly to northwesterly groundwater flow. Well sites and associated 2019 source areas are shown in **Table 4.2.15.2**.

Mean gradients computed for four well pairs between 2012 and 2018 ranged from $7.5x10^{-4}$ ft ft^{-1} to $2.5x10^{-3}$ ft ft^{-1} (cv = 0.17 and 0.50, respectively). Mean gradients in 2019 ranged from $7.1x10^{-4}$ to $7.7x10^{-4}$ ft ft^{-1} (cv=0.29). Gradients do not exhibit clear seasonal patterns.

Table 4.2.15.2: 2019 Source Areas at ROB

Well Site	Source Area
ROB-MW1	lagoon
ROB-MW2	lagoon
ROB-MW3	animal housing
ROB-MW4	animal housing/off site
ROB-MW5	off site (animal housing)
ROB-MW6	field
ROB-MW7	field/off site
ROB-MW8	field

4.2.15.3 2019 Groundwater Chemistry

ROB-MW1

1. Ammoniacal N concentrations ranged from 13 to 52 mg/L.
2. TKN concentration was 13 mg/L.
3. Comparison of TKN and ammoniacal N indicates that TKN reflected ammoniacal N.
4. Nitrite-N concentration was below the reporting limit.
5. Nitrate-N concentrations ranged from 76 to 130 mg/L.
6. K concentration was 83 mg/L.
7. HCO_3 concentration was 400 mg/L.

2019 groundwater chemistry at this location is indicative of lagoon seepage.

ROB-MW2

1. Ammoniacal N concentrations were below the reporting limit.
2. TKN concentration was 1.0 mg/L.
3. Comparison of TKN and ammoniacal N indicates that TKN essentially reflected organic N.
4. Nitrite-N concentration was below the reporting limit.
5. Nitrate-N concentrations ranged from 140 to 150 mg/L.
6. K concentration was 150 mg/L.
7. HCO_3 concentration was 980 mg/L.

Elevated K and HCO_3 concentrations may be an indication that groundwater is somewhat affected by lagoon seepage at this location. However, K and/or HCO_3 concentrations are also elevated at well locations that are not associated with the lagoons (e.g. MW3, 6, and 9).

ROB-MW3

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the animal housing. This includes nitrate-N concentrations ranging from 46 to 52 mg/L.

ROB-MW4

Due to variable groundwater flow directions in this well's vicinity, its source area cannot be uniquely attributed to the animal housing or adjacent off-site fields. Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the animal housing and adjacent off-site fields. This includes nitrate-N concentrations ranging from 45 to 55 mg/L.

ROB-MW5

Groundwater chemistry at this location is substantially attributed to off-site recharge although effects from the adjacent animal housing on water chemistry are conceivable. This includes nitrate-N concentrations ranging from 64 to 84 mg/L.

ROB-MW6

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the adjacent fields and almond orchards. This includes nitrate-N concentrations ranging from 4.8 to 16 mg/L and high K and HCO_3 concentrations (150 and 1,200 mg/L, respectively).

ROB-MW7

This well provides mainly hydraulic control and its water chemistry is substantially attributed to recharge occurring in the almond orchard and adjacent off-site fields. This includes nitrate concentrations ranging from 59 to 88 mg/L.

ROB-MW8

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the almond orchards. This includes nitrate-N concentrations ranging from 53 to 95 mg/L.

4.2.16 WOO

4.2.16.1 Well Network Description and Assessment

There are 3 dedicated monitoring wells at this dairy. These wells were installed in 2010 in first encountered groundwater.

4.2.16.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from 34.95 to 50.58 ft (btc) beneath the dairy since 2013. Seasonal water level fluctuations were on the order of 6 to 8 ft, with high water levels in the spring and low levels in the summer. The hydrographs exhibit a very slight overall water level decline from 2013 to 2016 and substantial water level rises in the wet winter of 2016/2017. Since then water levels have remained stable.

2019 contours of equipotential groundwater level elevations indicate predominantly southeasterly to south-southeasterly groundwater flow. Well sites and associated 2019 source areas are shown in **Table 4.2.16.2**.

From 2012 to 2018, the mean southerly and southeasterly gradients were $8.4x10^{-4}$ ft ft^{-1} (cv=0.64) and $6.7x10^{-4}$ ft ft^{-1} (cv=0.27), respectively. In 2019, the mean gradients were $5.6x10^{-4}$ ft ft^{-1} (cv=0.24) and $6.0x10^{-4}$ ft ft^{-1} (cv=0.19). Gradients exhibit a seasonal pattern with steeper gradients typically occurring in the fall and winter.

Table 4.2.16.2: 2019 Source Areas at WOO

Well Site	Source Area
WOO-MW1	off site
WOO-MW2	field
WOO-MW3	lagoon/field

4.2.16.3 2019 Groundwater Chemistry

WOO-MW1

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within off-site fields. Nitrate-N concentrations ranged from 29 to 60 mg/L and TDS concentrations ranged from 960 to 1,000 mg/L.

WOO-MW2

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations ranging from 17 to 27 mg/L and TDS concentrations ranging from 580 to 700 mg/L.

WOO-MW3

1. Ammoniacal N concentrations were below the reporting limit.
2. TKN concentration was 0.31 mg/L.
3. Comparison of TKN and ammoniacal N indicates that TKN essentially reflected organic N concentrations.
4. Nitrite-N was nondetect.
5. Nitrate-N concentrations ranged from 31 to 48 mg/L.
6. TDS concentrations ranged from 780 to 980 mg/L.

Groundwater chemistry at this location does not exhibit typical indications of lagoon seepage. However, it is possible that ammoniacal N is rapidly oxidized to nitrate-N in the coarse-textured subsurface. Also, this well's source area included portions of the fields adjacent to the lagoon and recharge from these fields may mask a signal introduced by the lagoon.

4.2.17 ANT

4.2.17.1 Well Network Description and Assessment

There are 12 dedicated monitoring wells at this dairy. CVDRMP installed these wells in 2011 using a nested structure design such that two wells were installed in each borehole. The wells in the nested structures were completed in the same water-bearing zone but at different depth intervals to facilitate monitoring and sampling of the uppermost zone of first encountered groundwater under non-steady groundwater conditions.

4.2.17.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from 8.81 to 44.14 ft (btc) beneath the dairy since 2012. Seasonally high water levels occurred in the summer and low water levels occurred in late fall and winter with an amplitude ranging from < 5 ft to approximately 20 ft, and were most apparent in the wells near irrigated cropland (MW1, MW3, MW5, and MW6). The hydrographs indicate an overall decline of summer water levels across the facility of up to 18 ft from 2012 to 2015, followed by a moderate recovery through 2019.

Vertical gradients were very small at five of the six monitoring well locations. At four monitoring well locations, the median hydraulic head difference resided within the precision of depth-to-water measurements. Therefore, dh was assigned a zero value and the resulting vertical gradient was also zero. At MW6, the median vertical gradient was 0.05 ft ft^{-1}.

2019 contours of equipotential groundwater level elevations indicate southwesterly to southeasterly flow directions. Well sites and associated 2019 source areas are shown in **Table 4.2.17.2**.

From 2012 to 2018, the mean southwesterly gradient between MW6 and MW2 was $4.2x10^{-3}$ ft ft^{-1} (cv=0.42) and $2.0x10^{-3}$ ft ft^{-1} (cv=0.20) in 2019. From 2012 to 2018, the mean southeasterly gradient between MW1 and MW2 was $4.3x10^{-3}$ ft ft^{-1} (cv=0.53) and $2.8x10^{-3}$ ft ft^{-1} (cv=0.43) in 2019. Gradients exhibit a seasonal pattern with steeper gradients in the summer/fall and flatter gradients in the winter/spring.

Table 4.2.17.2: 2019 Source Areas at ANT

Well Site	Source Area
ANT-MW1	lagoon/field
ANT-MW2	animal housing (other)
ANT-MW3	field (animal housing)
ANT-MW4	animal housing
ANT-MW5	field/off site
ANT-MW6	field

4.2.17.3 2019 Groundwater Chemistry

ANT-MW1

1. Ammoniacal N concentrations were below the reporting limit.
2. TKN concentration was 0.74 mg/L.
3. Comparison of TKN and ammoniacal N indicates that TKN essentially reflected organic N concentrations.
4. Nitrite-N concentration was j-flagged below the reporting limit at 0.010 mg/L.
5. Nitrate-N concentrations ranged from 52 to 150 mg/L.
6. TDS concentrations and individual general mineral concentrations were similar to those observed at non-lagoon wells.

2019 groundwater chemistry at this location is not indicative of lagoon seepage. However, this well may not be favorably located for purposes of lagoon seepage detection.

ANT-MW2

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the animal housing, including an area occupied by heifer hutches. This includes nitrate-N concentrations ranging from 47 to 68 mg/L.

ANT-MW3

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within Field 80 although effects from the adjacent animal housing on water chemistry are conceivable. This includes nitrate-N concentrations ranging from 37 to 68 mg/L.

ANT-MW4

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the animal housing. This includes nitrate-N concentrations ranging from 20 to 24 mg/L.

ANT-MW5

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within Field 80 and also influenced by adjacent non-dairy fields. This includes nitrate-N concentrations ranging from 20 to 45 mg/L.

ANT-MW6

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations ranging from 30 to 44 mg/L.

4.2.18 COR

4.2.18.1 Well Network Description and Assessment

There are 10 dedicated monitoring wells at this dairy. CVDRMP installed these wells in 2011 using a nested structure design such that two wells were installed in each borehole. The wells in the nested structures were completed in the same water-bearing zone but at different depth intervals to facilitate

monitoring and sampling of the uppermost zone of first encountered groundwater under non-steady groundwater conditions.

4.2.18.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from 4.03 to 13.77 ft (btc) beneath the dairy since 2012. Seasonal water level variability was very small in 2012 and increased in amplitude through 2015 (up to approximately 6 ft) with high water levels in the early spring and low water levels in the summer. Spring water levels declined approximately 2 to 3 ft from 2012 to 2015. The water table across this facility reached its low in late 2015. From late 2015 through early 2017, water levels continuously recovered without noticeable seasonal high/low in 2016. Spring 2017 water levels were the highest on record and remained stable since then.

Vertical gradients were very small. The median hydraulic head difference resided within the precision of depth-to-water measurements. Therefore, dh was assigned a zero value and the resulting vertical gradient was also zero.

2019 contours of equipotential groundwater level elevations indicate consistent east-northeasterly to northeasterly groundwater flow. Well sites and associated 2019 source areas are shown in **Table 4.2.18.2**.

The mean gradient across the facility from 2012 to 2018 was $1.1x10^{-3}$ ft ft^{-1} (cv=0.27). In 2019, the mean gradient was $1.2x10^{-3}$ ft ft^{-1} (cv=0.17). Gradients do not exhibit clear seasonal patterns.

Table 4.2.18.2: 2019 Source Areas at COR

Well Site	Source Area
COR-MW1	lagoon
COR-MW2	off site
COR-MW3	off site
COR-MW4	animal housing
COR-MW5	animal housing (other)

4.2.18.3 2019 Groundwater Chemistry

COR-MW1

1. Ammoniacal N concentrations were below the reporting limit.
2. TKN concentration was 1.1 mg/L.
3. Comparison of TKN and ammoniacal N indicates that TKN essentially reflected organic N concentrations.
4. Nitrite-N concentration was below the reporting limit.
5. Nitrate-N concentrations ranged from 41 to 58 mg/L.
6. K concentration was 2.9 mg/L.

7. HCO_3 concentration was 820 mg/L.
8. TDS concentrations were higher than in non-lagoon wells ranging from 2,600 to 3,000 mg/L.

2019 groundwater chemistry at this location does not exhibit typical indications of lagoon seepage with the possible exception of an elevated HCO_3 concentration and overall high salinity compared to most other wells at this site (not MW5).

COR-MW2

Groundwater chemistry at this location is substantially attributed to recharge occurring in an off-site source area. This includes nitrate-N concentrations ranging from 8.4 to 11 mg/L.

COR-MW3

Groundwater chemistry at this location is substantially attributed to recharge occurring in an off-site source area. This includes nitrate-N concentrations ranging from 6.7 to 11 mg/L.

COR-MW4

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the animal housing. This includes nitrate-N concentrations ranging from 6.1 to 31 mg/L.

COR-MW5

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the animal housing although it may also be affected by areas south of the animal housing. This includes nitrate-N concentrations ranging from 2.5 to 20 mg/L.

4.2.19 FG2

4.2.19.1 Well Network Description and Assessment

There are 10 dedicated monitoring wells at this dairy. CVDRMP installed these wells in 2011 using a nested structure design such that two wells were installed in each borehole. The wells in the nested structures were completed in the same water-bearing zone but at different depth intervals to facilitate monitoring and sampling of the uppermost zone of first encountered groundwater under non-steady groundwater conditions.

4.2.19.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from 1.18 to 13.02 ft (btc) beneath the dairy since 2012. Seasonal water level variability was generally small (i.e., less than 5 ft) and particularly subdued at MWs 1 and 5. Seasonally high water levels occurred in the summer. Low water levels occurred in the winter. Overall, water levels appear stable. MW1 may be an exception. At this location, water levels dropped approximately 8 ft in late 2014 and recovered 1 to 2 feet since then.

Vertical gradients were very small. At four of the five monitoring well locations, the median hydraulic head difference resided within the precision of depth-to-water measurements. Therefore, dh was

assigned a zero value and the resulting vertical gradient was also zero. At MW1, the median vertical gradient was slightly upward (-0.03 ft ft^{-1}).

2019 contours of equipotential groundwater level elevations indicate predominantly northeasterly to easterly flow. The groundwater level in MW4 during March 2019 was relatively high compared to the otherwise upgradient MW5 indicating groundwater flow to the southwest from MW4 toward MW5. Well sites and associated 2019 source areas are shown in **Table 4.2.19.2**.

The mean northerly to northeasterly gradient between MW5 and MW3 from 2012 to 2018 was $1.4x10^{-3}$ ft ft^{-1} (cv=0.55). Northerly flow components were minor in 2019 and, thus, the gradient was not computed between these wells. The mean northeasterly to easterly gradient between MW5 and MW1 from 2012 to 2018 was $2.3x10^{-3}$ ft ft^{-1} (cv=0.42) and $3.0x10^{-3}$ ft ft^{-1} (cv=0.17) in 2019. Gradients between MW5 and MW1 tend to be the steepest during the summer.

Table 4.2.19.2: 2019 Source Areas at FG2

Well Site	Source Area
FG2-MW1	lagoon/field
FG2-MW2	field (animal housing)
FG2-MW3	animal housing
FG2-MW4	field (animal housing)
FG2-MW5	field

4.2.19.3 2019 Groundwater Chemistry

FG2-MW1

1. Ammoniacal N concentrations were below the reporting limit.
2. TKN concentration was 0.48 mg/L.
3. Comparison of TKN and ammoniacal N indicates that TKN essentially reflected organic N concentrations.
4. Nitrite-N was nondetect.
5. Nitrate-N concentrations ranged from below the reporting limit to 0.94 mg/L.
6. TDS concentrations ranged from 3,100 to 3,500 mg/L.

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within Field 6 and, based on adjacency, within the lagoon system. groundwater chemistry at this location is not indicative of lagoon seepage.

FG2-MW2

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields although effects from the adjacent animal housing are conceivable. This includes nitrate-N concentrations ranging from 12 to 21 mg/L and a SO_4 concentration of 580 mg/L.

FG2-MW3

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the animal housing. This includes nitrate-N concentrations ranging from 6.1 to 11 mg/L and a SO_4 concentration of 1,600 mg/L.

FG2-MW4

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within Kniebes Field although effects from the adjacent animal housing are conceivable. This includes nitrate-N concentrations ranging from 19 to 24 mg/L and a SO_4 concentration of 830 mg/L.

FG2-MW5

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations ranging from 4.5 to 7.9 mg/L and a SO_4 concentration of 620 mg/L.

4.2.20 GOD

4.2.20.1 Well Network Description and Assessment

There are 14 dedicated monitoring wells at this dairy. CVDRMP installed these wells in 2011 using a nested structure design such that two wells were installed in each borehole. The wells in the nested structures were completed in the same water-bearing zone but at different depth intervals to facilitate monitoring and sampling of the uppermost zone of first encountered groundwater under non-steady groundwater conditions. In November 2019, MW3 and MW4 were abandoned to facilitate expansion of animal housing.

4.2.20.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from 3.51 to 19.79 ft (btc) beneath the dairy since 2012. Water levels did not exhibit clear seasonality with the exception of MW1 where summer water levels were 2 to 4 ft higher than in the winter. Water levels beneath the production area (MWs 1 to 4) exhibited a slight decline between 2012 and early 2015 followed by the lowest levels on record in 2015 and 2016. Since then, water levels nearly or fully recovered in these wells. Water levels in the wells associated with the fields (MWs 5 to 7) appear relatively stable.

Vertical gradients were very small. The median hydraulic head difference resided within the precision of depth-to-water measurements. Therefore, dh was assigned a zero value and the resulting vertical gradient was also zero.

2019 contours of equipotential groundwater level elevations indicate northeasterly groundwater flow beneath the monitored fields and much of the production area. Water levels in MW1, located just east of the lagoon system, were elevated relative to other wells in this part of the dairy (i.e., MW3 and MW4). This indicates westerly groundwater flow toward the area of the lagoon from the fields to the east of the lagoon. Well sites and associated 2019 source areas are shown in **Table 4.2.20.2**.

From 2012 to 2018, the mean northeasterly gradient beneath the fields and animal housing was $2.2x10^{-3}$ ft ft^{-1} (cv=0.31) and the mean westerly gradient in the northeastern part of the dairy was $1.9x10^{-3}$ ft ft^{-1} (cv=0.54). Mean 2019 gradients were similar. Seasonal fluctuations of gradients between MW5 and MW3 are indistinct, whereas they exhibit a distinctive seasonal pattern with steeper gradients in the summer and flatter gradients in the winter between MW1 and MW3.

Table 4.2.20.2: 2019 Source Areas at GOD

Well Site	Source Area
GOD-MW1	lagoon/other
GOD-MW2	field
GOD-MW3	animal housing
GOD-MW4	animal housing/field
GOD-MW5	off site
GOD-MW6	field
GOD-MW7	field

4.2.20.3 2019 Groundwater Chemistry

GOD-MW1

1. Ammoniacal N concentrations were below the reporting limit.
2. TKN concentration was 0.32 and was similar to non-lagoon wells.
3. Comparison of TKN and ammoniacal N indicates that TKN essentially reflected organic N concentrations.
4. Nitrite-N concentration was below the reporting limit.
5. Nitrate-N concentrations were among the lowest on this dairy ranging from 6.7 to 12 mg/L.
6. TDS concentrations and individual general mineral concentrations were similar to non-lagoon wells.

2019 groundwater chemistry at this location is not indicative of lagoon seepage. However, this well may not be favorably located for purposes of lagoon seepage detection. Also, the high clay content of the soils at this facility may create conditions favorable to denitrification. This may explain overall low nitrate-N concentrations.

GOD-MW2

Groundwater chemistry at this location is substantially attributed to recharge occurring in a monitored source area within the upgradient fields. This includes nitrate-N concentrations ranging from 35 to 40 mg/L and a SO_4 concentration of 520 mg/L.

GOD-MW3

Groundwater chemistry at this location is substantially attributed to recharge occurring in a monitored source area within the animal housing. This includes nitrate-N concentrations ranging from 30 to 31 mg/L and a SO_4 concentration of 320 mg/L.

GOD-MW4

Groundwater chemistry at this location is substantially attributed to recharge occurring in a monitored source area within the animal housing and adjacent non-dairy fields. This includes nitrate-N concentrations ranging from 18 to 20 mg/L and a SO_4 concentration of 680 mg/L.

GOD-MW5

Groundwater chemistry at this location is substantially attributed to recharge occurring in an off-site source area. This includes nitrate-N concentrations ranging from 12 to 14 mg/L and a SO_4 concentration of 400 mg/L.

GOD-MW6

Groundwater chemistry at this location is substantially attributed to recharge occurring in a monitored source area within the upgradient field. This includes nitrate-N concentrations ranging from 44 to 50 mg/L and a SO_4 concentration of 800 mg/L.

GOD-MW7

Groundwater chemistry at this location is substantially attributed to recharge occurring in a monitored source area within the upgradient field. This includes low nitrate-N concentrations ranging from 0.58 to 1.7 mg/L and a SO_4 concentration of 570 mg/L.

4.2.21 MAC and NUN

4.2.21.1 Well Network Description and Assessment

There are 20 dedicated monitoring wells at these dairies. CVDRMP installed 18 of these wells in 2011 using a nested structure design such that two wells were installed in each borehole. In fall 2014, NUN-MW5 was constructed to improve the utility of the well network around the dairy's animal housing. The wells in the nested structures were completed in the same water-bearing zone but at different depth intervals to facilitate monitoring and sampling of the uppermost zone of first encountered groundwater under non-steady groundwater conditions.

4.2.21.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from 1.53 to 9.97 ft (btc) beneath these dairies since 2012. Groundwater levels on the MAC dairy were generally slightly shallower than on the NUN dairy. None of the hydrographs exhibited clear seasonal water level fluctuations. Monthly water level variability was more pronounced on the MAC dairy. Overall, water levels appear stable.

Vertical gradients were very small. At nine of the ten monitoring well locations, the median hydraulic head difference resided within the precision of depth-to-water measurements. Therefore, dh was assigned a zero value and the resulting vertical gradient was also zero. MAC-MW4 had a slightly downward median vertical gradient (0.01 ft ft^{-1}).

2019 contours of equipotential groundwater level elevations indicate northeasterly to northerly groundwater flow. Northerly groundwater flow was more prevalent under the production areas and northeasterly flow was more prevalent under the fields between MAC-MW3 and NUN-MW5. Well sites and associated 2019 source areas are shown in **Table 4.2.21.2**.

The mean northerly gradient across the two facilities (between MAC-MW2 and NUN-MW1) from 2012 to 2018 was $2.0x10^{-3}$ ft ft^{-1} (cv=0.27) and similar in 2019. The mean gradient between MAC-MW3 and NUN-MW1 from 2012 to 2018 was $1.7x10^{-3}$ ft ft^{-1} (cv=0.26) and similar in 2019. Gradients do not exhibit seasonal patterns.

Table 4.2.21.2: 2019 Source Areas at MAC and NUN

Well Site	Source Area
MAC-MW1	lagoon
MAC-MW2	lagoon
MAC-MW3	field
MAC-MW4	field/animal housing
MAC-MW5	field/animal housing
NUN-MW1	lagoon/animal housing/field
NUN-MW2	field (other)
NUN-MW3	field/animal housing
NUN-MW4	field/animal housing
NUN-MW5	animal housing

4.2.21.3 2019 Groundwater Chemistry

MAC-MW1

1. Ammoniacal N concentrations were below the reporting limit.
2. TKN concentration was 1.0 mg/L.
3. Comparison of TKN and ammoniacal N indicates that TKN essentially reflected organic N concentrations.
9. Nitrite-N concentration was 0.12 mg/L and similar to concentrations at non-lagoon wells.
4. Nitrate-N concentrations ranged from 23 to 27 mg/L and were similar to concentrations at non-lagoon wells.
5. Overall salinity and individual general mineral concentrations were similar or lower than in non-lagoon wells.

2019 groundwater chemistry at this location is not indicative of lagoon seepage.

MAC-MW2

1. Ammoniacal N concentrations were below the reporting limit.
2. TKN concentration was 0.21 mg/L.

3. Nitrite-N concentration was nondetect.
4. Nitrate-N concentrations ranged from 28 to 48 mg/L and were similar to concentrations at non-lagoon well MAC-MW3.
5. TDS concentrations and individual general mineral concentrations were similar or lower than at non-lagoon wells.

2019 groundwater chemistry at this location is not indicative of lagoon seepage.

MAC-MW3

Groundwater chemistry at this location is substantially attributed to recharge occurring in a monitored source area within MAC Field 2. This includes nitrate-N concentrations ranging from 35 to 50 mg/L, a low concentration of organic N, very high TDS (5,300-9,800 mg/L), and a high SO_4 concentration of 4,600 mg/L.

MAC-MW4

Groundwater chemistry at this location is substantially attributed to recharge occurring in a monitored source area within the animal housing and MAC Field 3. This includes nitrate-N concentration ranging from 17 to 19 mg/L.

MAC-MW5

Groundwater chemistry at this location is substantially attributed to recharge occurring in a monitored source area within the animal housing and MAC Field 3. This includes nitrate-N concentrations from 19 to 22 mg/L.

NUN-MW1

1. Ammoniacal N concentrations were below the reporting limit.
2. TKN concentration was 0.84 mg/L.
3. Comparison of TKN and ammoniacal N indicates that TKN essentially reflected organic N concentrations.
4. Nitrite-N was nondetect.
5. Nitrate-N concentrations ranged from 1.5 to 3.9 mg/L.
6. TDS concentrations and individual general mineral concentrations were similar or lower than at non-lagoon wells.

2019 groundwater chemistry at this location is not indicative of lagoon seepage. However, due to its crossgradient position to the lagoon, this well may not be favorably located for purposes of lagoon seepage detection. Also, the high clay content of the soils at this facility may create conditions favorable to denitrification. This may explain overall low nitrate-N concentrations.

NUN-MW2

Groundwater chemistry at this location is substantially attributed to recharge occurring in a monitored source area within NUN Field 1 and MAC Field 3 and may also be influence by nearby manure stacking. This includes nitrate-N concentrations ranging from 5.5 to 18 mg/L.

NUN-MW3

Groundwater chemistry at this location is substantially attributed to recharge occurring in a monitored source area within the animal housing and NUN Field 2. This includes nitrate-N concentrations ranging from 9.1 to 21 mg/L.

NUN-MW4

Groundwater chemistry at this location is substantially attributed to recharge occurring in a monitored source area within the animal housing and NUN Field 2. This includes nitrate-N concentrations ranging from 1.4 to 11 mg/L.

NUN-MW5

Groundwater chemistry at this location is substantially attributed to recharge occurring in a monitored source area within the animal housing. This includes nitrate-N concentrations below its reporting limit.

4.2.22 MOO

4.2.22.1 Well Network Description and Assessment

There are 12 dedicated monitoring wells at this dairy. Four of these wells were installed in 2003 in first encountered groundwater. CVDRMP installed 8 additional wells in 2011 using a nested structure design such that two wells were installed in each borehole. The wells in the nested structures were completed in the same water-bearing zone but at different depth intervals to facilitate monitoring and sampling of the uppermost zone of first encountered groundwater under non-steady groundwater conditions.

4.2.22.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from 9.00 to 32.48 ft (btc) since 2012. Seasonally high water levels occurred in the late summer and low water levels occurred in winter and spring. Seasonal water level fluctuations were generally small (< 5 ft), with some as high as approximately 12 ft. Hydrographs exhibit slight water level declines in monitoring wells across the facility between 2012 and 2016 (approximately 3-5 ft) and substantial recovery from 2016 to 2017. The recovery was most pronounced in the field well (MW6) and the two wells nearest to the San Joaquin River (MWs 7 and 8) where 2017 brought the highest water levels on record. These three wells also exhibit the most water level declines since 2017. Overall, water levels appear stable across the facility.

Vertical gradients were very small at the wells near the river (MW7 and MW8). At the animal housing well location (MW5) and the field well location (MW6), median vertical gradients were 0.17 and 0.14 ft ft^{-1}, respectively.

2019 contours of equipotential groundwater level elevations indicate easterly to northerly groundwater flow beneath the production area and cropland. The groundwater gradient flattens considerably near the San Joaquin River and there are indications of groundwater mounding in the vicinity of MW7. Well sites and associated 2019 source areas are shown in **Table 4.2.22.2**.

The mean gradient between MW3 and MW2 from 2012 to 2018 was $4.5x10^{-3}$ ft ft^{-1} (cv=0.28) and similar in 2019. The mean gradient between MW3 and MW8 from 2012 to 2018 was $2.5x10^{-3}$ ft ft^{-1} (cv=0.17) and similar in 2019. Gradients tend to be the steepest during the summer and fall.

Table 4.2.22.2: 2019 Source Areas at MOO

Well Site	Source Area
MOO-MW1	lagoon
MOO-MW2	lagoon
MOO-MW3	field/animal housing
MOO-MW4	off site
MOO-MW5	animal housing
MOO-MW6	field
MOO-MW7	field
MOO-MW8	field/off site

4.2.22.3 2019 Groundwater Chemistry

MOO-MW1

1. Ammoniacal N concentrations ranged from 0.28 to 1.9 mg/L
2. TKN concentration was 0.72 mg/L.
3. Comparison of TKN and ammoniacal N indicates approximately 0.44 mg/L was organic N.
4. Nitrite-N concentration was below the reporting limit.
5. Nitrate-N concentrations ranged from 0.75 to 6.4 mg/L.
6. K concentration was relatively low (2.4 mg/L) and comparable to concentrations at non-lagoon wells.
7. TDS concentrations ranged from 1,400 to 1,600 mg/L, comparable to concentrations in non-lagoon wells.

2019 groundwater chemistry at this location is not indicative of lagoon seepage.

MOO-MW2

1. Concentrations of ammoniacal N ranged were below the reporting limit.
2. TKN concentration was 0.48 mg/L.
3. Comparison of TKN and ammoniacal N indicates that TKN essentially reflected organic N.
4. Nitrite-N was nondetect.
5. Nitrate-N concentrations ranged from 22 to 30 mg/L.
6. K concentration was relatively low (2.8 mg/L) and comparable to concentrations in other wells.
7. Na concentration was substantially higher than in any of the other wells (410 mg/L).
8. HCO_3 concentration was higher than at the non-lagoon wells (970 mg/L).

2019 groundwater chemistry at this location does not exhibit typical indications of lagoon seepage.

MOO-MW3

Groundwater chemistry at this location is substantially attributed to recharge occurring in a monitored source area within the animal housing and Field 250. This includes nitrate-N concentrations ranging from 1.6 to 10 mg/L.

MOO-MW4

Groundwater chemistry at this location is substantially attributed to recharge occurring off-site. This includes nitrate-N concentrations ranging from 5.1 to 9.3 mg/L.

MOO-MW5

Groundwater chemistry at this location is substantially attributed to recharge occurring in a monitored source area within the upgradient animal housing. This includes nitrate-N concentrations ranging from 17 to 25 mg/L.

MOO-MW6

Groundwater chemistry at this location is substantially attributed to recharge occurring in a monitored source area within the upgradient fields. This includes nitrate-N concentrations ranging from 1.8 to 9.2 mg/L.

MOO-MW7

Groundwater chemistry at this location is substantially attributed to recharge occurring in a monitored source area within the upgradient fields. This includes nitrate-N concentrations ranging from 38 to 42 mg/L.

MOO-MW8

Groundwater chemistry at this location is substantially attributed to recharge occurring in a monitored source area within the upgradient dairy fields, neighboring non-dairy fields, and possibly the San Joaquin River. This includes nitrate-N concentrations ranging from 11 to 14 mg/L.

4.2.23 TON

4.2.23.1 Well Network Description and Assessment

There are 16 dedicated monitoring wells at this dairy. CVDRMP installed these wells in 2011 using a nested structure design such that two wells were installed in each borehole. The wells in the nested structures were completed in the same water-bearing zone but at different depth intervals to facilitate monitoring and sampling of the uppermost zone of first encountered groundwater under non-steady groundwater conditions.

4.2.23.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from 4.50 to 34.37 ft (btc) since 2012. The western MWs, including MW1 and MWs 3 through 5, exhibited distinct seasonal groundwater level fluctuations with high water levels in the

winter/spring, low water levels in the summer, and an amplitude of up to 20 ft. Seasonally high water levels declined 8 to 12 ft between 2012 and 2016, and summer water levels in 2016 were up to approximately 17 ft deeper than in summer 2012. There was substantial recovery in winter 2016/17 and the recovered water levels were sustained through 2019. MW2 and MWs 6 through 8 exhibited much less water level variability.

Vertical gradients were very small. At seven of the eight monitoring well locations, the median hydraulic head difference resided within the precision of depth-to-water measurements. Therefore, dh was assigned a zero value and the resulting vertical gradient is also zero. The median vertical gradient at MW6 was 0.01 ft ft^{-1}.

2019 contours of equipotential groundwater level elevations generally indicate easterly to northeasterly flow between the production area and TON-MW8. This is well is located near a sump pump evacuating tile drainage from Fields 14 and 12. The pump operates year-round and is triggered by groundwater level fluctuations in the sump. Its operation causes a cone of depression resulting in radial flow toward TON-MW8 from Fields 14 and 12, and from adjacent non-dairy areas. Groundwater flow conditions beneath the production area were highly variable in 2019. Well sites and associated 2019 source areas are shown in **Table 4.2.23.2**.

The mean northeasterly gradient between MW3 and MW8 (across entire dairy) from 2012 to 2018 was $2.2x10^{-3}$ ft ft^{-1} (cv= 0.14) and similar in 2019. Steeper northwesterly gradients were sometimes observed beneath the lagoons and animal housing between MW2 and MW4.

Table 4.2.23.2: 2019 Source Areas at TON

Well Site	Source Area
TON-MW1	lagoon/off site
TON-MW2	lagoon/field
TON-MW3	field/animal housing/other
TON-MW4	animal housing/off site
TON-MW5	field/animal housing
TON-MW6	off site
TON-MW7	field/off site
TON-MW8	field/off site

4.2.23.3 2019 Groundwater Chemistry

TON-MW1

1. Ammoniacal N concentrations ranged from 43 to 48 mg/L.
2. TKN concentration was 45 mg/L.
3. Comparison of TKN and ammoniacal N indicates organic N concentrations of approximately 2.0 mg/L.
4. Nitrite-N was nondetect.

5. Nitrate-N concentrations ranged from 26 to 46 mg/L.
6. K concentration was 130 mg/L (i.e., higher than non-lagoon wells with the exception of MW3).
7. HCO_3 concentration was 970 mg/L (i.e., higher than non-lagoon wells with the exception of MW3).
8. SO_4 concentration was 160 mg/L (i.e., comparatively low).
9. TDS concentrations were lower than at most other wells (1,700 to 1,800 mg/L).

2019 groundwater chemistry at this location is indicative of lagoon seepage.

TON-MW2

1. Ammoniacal N concentrations ranged from 0.8 to 4.9 mg/L.
2. TKN concentration was 8.4 mg/L.
3. Comparison of TKN and ammoniacal N indicates organic N concentrations of approximately 3.5 mg/L.
4. Nitrite-N concentration was 0.47 mg/L.
5. Nitrate-N concentrations ranged from 16 to 28 mg/L.
6. K concentration was 100 mg/L (i.e., higher than non-lagoon wells with the exception of MW3).
7. HCO_3 concentration was high (1,500 mg/L).
8. SO_4 concentration was 240 mg/L.

2019 groundwater at this location exhibits a blend of characteristics attributed to both lagoon seepage and deep percolation of the adjacent fields.

TON-MW3

Groundwater chemistry at this location is substantially attributed to recharge occurring in a monitored source area within the upgradient fields, animal housing, and an area used for feed storage. This includes nitrate-N concentrations ranging from 9.0 to 47 mg/L.

TON-MW4

Groundwater chemistry at this location is substantially attributed to recharge occurring in a monitored source area within the upgradient animal housing as well adjacent off-site fields. This includes nitrate-N concentrations ranging from 28 to 40 mg/L.

TON-MW5

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the animal housing to the west and the fields to the east. This includes nitrate-N concentrations ranging from 4.8 to 87 mg/L.

TON-MW6

Groundwater chemistry at this location is substantially attributed to recharge occurring in an off-site monitored source area. This includes nitrate-N concentrations ranging from 6.3 to 9.8 mg/L and low concentrations of ammoniacal N and organic N.

TON-MW7

Groundwater chemistry at this location is substantially attributed to recharge occurring in a monitored source area within the upgradient Field 14 but may also be peripherally influenced by an off-site component. Groundwater quality at this location was characterized by the lowest salinity (TDS ranging

from 920 to 1,100 mg/L) and nitrate-N concentrations (i.e., ranging from 0.51 to 1.7 mg/L). Similarly, ammoniacal N, nitrite-N, and TKN were below their respective reporting limits.

TON-MW8

Groundwater chemistry at this location is substantially attributed to recharge occurring in a monitored source area within the upgradient Field 14, but it is also influenced by an off-site component. Due to the continuous (on demand) operation of the tile pump that causes a cone of depression, and the resulting radial flow toward the tile pump, off-site influence on groundwater chemistry at this location may also be relatively continuous. Groundwater samples retrieved from MW8 are characterized by much higher salinity than at MW7 (TDS ranging from 2,900 to 4,000 mg/L) including a high SO_4 concentration of 1,100 mg/L and moderate nitrate-N concentrations (32-46 mg/L).

4.2.24 BRE

4.2.24.1 Well Network Description and Assessment

There are 6 dedicated monitoring wells at this dairy. CVDRMP installed these wells in 2012 using a nested structure design such that two wells were installed in each borehole, except MW2s and MW2d, which were installed as a well pair. The wells at MW2 and MW3 were completed in the same water-bearing zone but at different depth intervals to facilitate monitoring and sampling of the uppermost zone of first encountered groundwater under non-steady groundwater conditions. These water-bearing deposits are at depths below 85 ft (bgs). Unsaturated zone materials include thick layers of clay and clay-rich deposits. At MW1, a much shallower, water-bearing zone was identified at a depth of approximately 15-30 ft (bgs). MW1s was completed in this zone. MW1d was completed in the deeper aquifer, i.e., the same zone as the wells at MW2 and MW3. Hydrologic and well construction information indicates a substantial unsaturated zone beneath the dairy. Long travel times of percolating water from the ground surface to the water table, including the associated potential for dispersion and reactive transport confound the interpretation of groundwater chemical results with regard to management practices.

4.2.24.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at two significantly different depth intervals. Water levels in the main body of first encountered groundwater ranged from approximately 45 to 85 ft (bgs) (approximately 10-15 ft deeper at MW2 because this well is located on a topographic high point). Water levels exhibited marked seasonality with winter/spring elevations approximately 30 ft higher than summer elevations. Water levels are stable over the period of record. At MW1, a shallower water bearing zone exists with water levels in MW1s ranging from 11.20 to 33.30 ft (btc) and exhibiting a different pattern of water level fluctuations. MW1s was temporarily dry from February to July 2014.

Vertical gradients at MW2 and MW3 were very small. The median hydraulic head difference resided within the precision of depth-to-water measurements. Therefore, dh was assigned a zero value and the

resulting vertical gradient is also zero. Vertical gradients at MW1 are not computed because the nested wells at this location were completed in different water bearing zones.

2019 contours of equipotential water level elevations indicate predominantly northeasterly to southeasterly groundwater flow beneath the center-pivot irrigated field. Well sites and associated 2019 source areas are shown in **Table 4.2.24.2**.

From 2013 to 2018, the mean gradient across the field was $8.6x10^{-4}$ ft ft^{-1} (cv=1.03). In 2019, the mean gradient was $2.3x10^{-3}$ ft ft^{-1} (cv=0.71). Gradients tend to be slightly steeper in the summer than in the winter.

Table 4.2.24.2: 2019 Source Areas at BRE

Well Site	Source Area
BRE-MW1	off site
BRE-MW2	field/off site
BRE-MW3	field (animal housing)

4.2.24.3 2019 Groundwater Chemistry

BRE-MW1

Groundwater chemistry at this location is substantially attributed to off-site sources. This includes nitrate-N concentrations ranging from 5.0 to 8.4 mg/L.

BRE-MW2

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within Field 1-A and off-site sources. This includes nitrate-N concentrations ranging from 3.5 to 4.2 mg/L.

BRE-MW3

Groundwater chemistry at this location is substantially attributed to recharge occurring in a monitored source area within the upgradient field under center pivot sprinkler irrigation although effects from the adjacent animal housing on water chemistry are conceivable. This includes nitrate-N concentrations ranging from 2.7 to 3.2 mg/L.

4.2.25 CRE

4.2.25.1 Well Network Description and Assessment

There are 6 dedicated monitoring wells at this dairy. CVDRMP installed these wells in 2012 using a nested structure design such that two wells were installed in each borehole. MW1s, 2s, and 3s were installed in thin zones of first encountered groundwater to a depth of not more than 20 ft. This shallow, thin water-bearing zone is underlain by various thicknesses of unsaturated deposits of wide-

ranging textural composition before saturated materials were again encountered during drilling. MW1d, 2d, and 3d target these deeper zones.

4.2.25.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from 0.07 to 9.17 ft (btc). Seasonal water level fluctuations were typically 2 to 4 ft, and up to 6 ft in 2015. Overall, water levels were stable over the period of record. Water levels in the deeper wells exhibited increasing seasonality with increasing depth. Specifically, water levels at MW2d were almost identical to those at MW2s. Water levels at MW3d were approximately 30 to 45 ft deeper than in MW3s, and they displayed more pronounced seasonality with summer/fall water levels approximately 5 to 10 ft lower than winter/spring water levels. Water levels at MW1d were about 80-110 ft deeper than in MW1s, and they displayed more pronounced seasonality than MW3d, with summer/fall water levels approximately 10 to 20 ft lower than winter/spring water levels. Water levels at the three deep wells occurred at three distinct elevation intervals. From top to bottom, these elevations average approximately 210, 170, and 115 ft (NAVD88) at MW2d, MW3d, and MW1d, respectively.

The median vertical gradient at MW2 was 0.03 ft ft^{-1}. Vertical gradients at MW1 and MW3 are not computed because the nested wells at these locations were completed in different water bearing zones.

2019 contours of equipotential groundwater level elevations indicate consistent east-southeasterly to southeasterly groundwater flow. Well sites and associated 2019 source areas are shown in **Table 4.2.25.2**.

From 2013 to 2019, the mean gradient across the fields was $2.8x10^{-3}$ ft ft^{-1} (cv=0.17) and it was similar in 2019. Gradients do not exhibit a seasonal pattern.

Table 4.2.25.2: 2019 Source Areas at CRE

Well Site	Source Area
CRE-MW1	field
CRE-MW2	field
CRE-MW3	field

4.2.25.3 2019 Groundwater Chemistry

CRE-MW1

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations ranging from 52 to 94 mg/L.

CRE-MW2

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations of 16 to 28 mg/L.

CRE-MW3

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations ranging from 0.20 to 5.8 mg/L.

4.2.26 MTS

4.2.26.1 Well Network Description and Assessment

There are 6 dedicated monitoring wells at this dairy. CVDRMP installed these wells in 2012 using a nested structure design such that two wells were installed in each borehole, except at MW1. At MW1, first groundwater was encountered at a depth of approximately 60 ft (bgs) associated with approximately 20 ft of coarse-grained deposits. MW2d and MW3d were installed in the same water-bearing zone. At MW2 and MW3, a much shallower, water-bearing zone was identified and wells were installed to a depth of 25 to 28 ft. Hydrologic and well construction information indicates a substantial unsaturated zone beneath the dairy. Long travel times of percolating water from the ground surface to the water table, including the associated potential for dispersion and reactive transport confound the interpretation of groundwater chemical results with regard to management practices. This condition has been exacerbated by sustained drought conditions in the Central Valley (2012-2016) during which water levels have sometimes declined below the well screens.

4.2.26.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at two significantly different depth intervals. Groundwater levels at MW2s and MW3s ranged from 21.08 to 25.43 ft (btc) but were only intermittent. During much of the 2013-2019 record, this zone was not saturated. Groundwater persisted in the deeper wells at intervals below circa 50 ft (bgs). Water levels in this zone exhibited seasonal fluctuations of up to approximately 17 ft with high levels occurring in the winter/spring and low levels in the summer. Water levels declined approximately 17 ft from spring 2013 to spring 2016. Water levels intermittently dropped below the well screen in MW2d in 2014, 2015, and most of 2016; and in the summer/fall 2015 in MW3d. Hydrographs show nearly full recovery to spring 2013 levels in 2017, and relatively stable water levels since then.

Vertical gradients are not computed because the nested wells were completed in different water bearing zones.

2019 contours of equipotential groundwater level elevations indicate mainly southeasterly groundwater flow. Well sites and associated 2019 source areas are shown in **Table 4.2.26.2**.

From 2013 to 2018, the mean southeasterly gradient across the fields was 1.1×10^{-3} ft ft^{-1} (cv=1.68) and the same in 2019. Gradients do not exhibit a seasonal pattern.

Table 4.2.26.2: 2019 Source Areas at MTS

Well Site	Source Area
MTS-MW1	animal housing/other/off site
MTS-MW2	field
MTS-MW3	field

4.2.26.3 2019 Groundwater Chemistry

MTS-MW1

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within animal housing, the adjacent feed storage area, and likely extends beyond the animal housing into the neighboring orchard during much of the year. Nitrate-N concentrations ranged from 20 to 25 mg/L.

MTS-MW2

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations ranging from 21 to 22 mg/L.

MTS-MW3

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations ranging from 31 to 34 mg/L.

4.2.27 AUK

4.2.27.1 Well Network Description and Assessment

There are 3 dedicated monitoring wells at this dairy. MW1 was installed in 1995, and MW2 and 3 were installed in 2005; all well are installed in first encountered groundwater. Hydrologic and well construction information indicates a substantial unsaturated zone beneath the dairy. Long travel times of percolating water from the ground surface to the water table, including the associated potential for dispersion and reactive transport confound the interpretation of groundwater chemical results with regard to management practices.

4.2.27.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from 51.00 to 92.98 ft (btc). MW1 exhibited season variability with higher water levels in the winter and lower water levels in the summer. In MWs 2 and 3, seasonal water level variability was subdued by longer-term water level trends. Overall, water levels declined between 21 and 25 ft from January 2013 to December 2016. In 2017, water levels recovered 17 to 21 ft. Since then, water levels recovered to the highest on record.

2019 contours of equipotential groundwater level elevations indicate consistent southerly to southwesterly groundwater flow. Well sites and associated 2019 source areas are shown in **Table 4.2.27.2**.

From 2013 to 2018, the mean westerly gradient between MWs1 and 2 was $1.5x10^{-3}$ ft ft^{-1} (cv=0.35). From 2013 through 2016, gradients exhibit a seasonal pattern with flatter gradients in the summer and steeper gradients in the winter. The mean southwesterly gradient between MW1 and MW3 was $1.7x10^{-3}$ ft ft^{-1} (cv=0.33) from 2013 through 2018, and similar in 2019. During times of groundwater flow reversal in 2017, the mean northeasterly gradient between MWs 3 and 1 was $1.1x10^{-3}$ ft ft^{-1} (cv=0.68).

Table 4.2.27.2: 2019 Source Areas at AUK

Well Site	Source Area
AUK-MW1	field
AUK-MW2	lagoon/field
AUK-MW3	lagoon/field

4.2.27.3 2019 Groundwater Chemistry

AUK-MW1

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations ranging from 54 to 56 mg/L.

AUK-MW2

1. Ammoniacal N concentrations were below the reporting limit.
2. TKN concentration was 0.58 mg/L.
3. Comparison of TKN and ammoniacal N indicates that TKN essentially reflected organic N.
4. Nitrite-N was nondetect.
5. Nitrate-N concentrations ranged from 67 to 73 mg/L.
6. TDS concentrations ranged from 1,100 to 1,400 mg/L.

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields and the settling basins. 2019 groundwater chemistry at this location is not indicative of lagoon seepage.

AUK-MW3

1. Ammoniacal N concentrations were below the reporting limit.
2. TKN concentration was 0.36 mg/L.
3. Comparison of TKN and ammoniacal N indicates that TKN essentially reflected organic N.
4. Nitrite-N was nondetect.
5. Nitrate-N concentrations ranged from 33 to 56 mg/L.
6. TDS concentrations ranged from 1,000 to 1,200 mg/L.

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields and the lagoon. 2019 groundwater chemistry at this location is not indicative of lagoon seepage.

Historical Groundwater Chemistry

MWs 1, 2, and 3 were each sampled a single time in 2006 and nitrate-N concentrations were 41.9, 21.1, and 26.4 mg/L, respectively. In 2018, the respective nitrate-N concentrations were 58-62 mg/L, 65-75 mg/L, and 44-55 mg/L.

4.2.28 DLF

4.2.28.1 Well Network Description and Assessment

There are 13 dedicated monitoring wells at this dairy. MWs 1 to 3 were installed in 2004 to a depth of 120 to 122 ft (bgs). In 2007, under the direction of UC Davis, 10 additional wells were installed using a well pair/nested well design at three locations (MWs 4 to 6). Wells identified with "A" were purposefully installed in unsaturated (i.e., "dry"), coarse textured aquifer materials just above first encountered groundwater to facilitate continued monitoring of the uppermost zone of first encountered groundwater if water levels were to rise in the future (i.e., MW4A, 5A, and 6A). Additional wells were grouped in nested structures to facilitate depth-specific groundwater monitoring in deeper, saturated, coarse textured aquifer materials[10].

At MW5B and 5C, the well screens are in direct vertical sequence, i.e., there is no separation between the bottom of the upper screen and the top of the deeper screen. Vertical separation between well screens is small at MW6 and between MW4A and 4B (i.e., 3 to 15 ft) and clay layers between the screened intervals are thin. This suggests that these wells are completed in the same aquifer system rather than in hydraulically separated water-bearing zones. More substantive separation exists between MW4B and 4C, and between MW5A and 5B.

The UC Davis wells were installed with the recognition that MWs 1 to 3 were not sufficiently deep to monitor groundwater consistently. Therefore, UC Davis' network of 10 wells at MWs 4 to 6 constitute their own, complete network. Hydrologic and well construction information indicates a substantial unsaturated zone beneath the dairy. Long travel times of percolating water from the ground surface to the water table, including the associated potential for dispersion and reactive transport confound the interpretation of groundwater chemical results with regard to management practices. This condition has been exacerbated by sustained drought conditions in the Central Valley (2012-2016) during which water levels have declined below the screens of most of the monitoring wells.

[10] At any one of the well sites (e.g., MW4), the alphabetical sequence of the wells indicates successively deeper well screens (i.e., C is deeper than B). This does not mean that wells of the same alphabetical identification across a dairy are completed at the same depth interval. The alphabetical identifications are also not intended to suggest a grouping scheme by aquifer.

4.2.28.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at different depth intervals and suggest a heterogeneous subsurface and spatial distribution of water-bearing zones. In MW1, first groundwater was encountered at a depths between 100 to 115 ft (bgs) or deeper, when the well was dry. MWs 2 and 3 were mostly dry over the period of record. Historically, first groundwater at MW4 was encountered in the "C" well where water levels dropped from approximately 140 ft (bgs) in January 2013 to 170 ft (bgs) in late summer, followed by approximately 10 ft of recovery through December, and continued water level decline below 180 ft (bgs) in summer 2014 when the well went dry. MW4C recovered in early 2015 but went dry again by summer and remained dry until winter 2017. Water levels were stable around 175 ft (bgs) in 2018. In 2019, first groundwater was encountered in MW4A for the first time since monitoring began in 2013. Water levels were encountered in MW4A at around 75 to 100 ft bgs. First encountered groundwater was recorded at circa 120 ft (bgs) at MW5A in 2013/2014 prior to the well going dry. In 2019, water levels recovered in MW5A to as high as 55 ft bgs. Water levels in MW6A range between 80 to 100 ft (bgs) although this well has been mainly dry.

Water levels in MW5C exhibited a similar pattern to that in MW4C, suggesting their completion in a hydraulically connected aquifer system despite the wells' different screen intervals. MW6B, C, and D exhibited successively deeper water levels, but only minimally and with very similar seasonality. This, too, suggests their completion in a hydraulically connected aquifer system despite the wells' different screen intervals. Overall, seasonal water level fluctuations at MW6 were more subdued than at MWs 4 and 5. Seasonally high water levels occurred in the winter/spring and low water levels in the summer. The wells with the most consistent water level records (MW6) show a 10-14 ft decline of seasonally high water levels from 2013 to 2016 and nearly full recovery in 2017. Water levels remained stable in MW6 wells through 2019.

2019 contours of equipotential groundwater level elevations indicate southeasterly groundwater flow from MW6 toward MW4, and westerly flow from MW5 to MW4. Several months in 2019 were not contoured due to dry wells. Well sites and associated 2019 source areas are shown in **Table 4.2.28.2**.

The mean gradient between MW6 and MW4 from 2013 through 2018 was 9.1×10^{-3} ft ft^{-1} (cv=0.15). In 2019, the mean gradient was 5.9×10^{-3} ft ft^{-1} (cv=0.34). Gradients did not exhibit a clear seasonal pattern.

Table 4.2.28.2: 2019 Source Areas at DLF

Well Site	Source Area
DLF-MW1	no sample
DLF-MW2	lagoon/animal housing/field
DLF-MW3	no sample
DLF-MW4	lagoon/animal housing/field
DLF-MW5	field
DLF-MW6	field

4.2.28.3 2019 Groundwater Chemistry

DLF-MW1

This well did not yield sufficient water for groundwater sample collection.

DLF-MW2

1. Ammoniacal N concentration below the reporting limit.
2. Nitrate-N concentration was 31 mg/L.
3. TDS concentration was 600 mg/L.

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields, animal housing, and the lagoon. 2019 groundwater chemistry at this location is not indicative of lagoon seepage.

DLF-MW3

This well did not yield sufficient water for groundwater sample collection.

DLF-MW4

1. Ammoniacal N concentrations were below the reporting limit.
2. Nitrate-N concentrations ranged from 23 to 37 mg/L.
3. TDS concentrations ranged from 450 to 640 mg/L.

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields, animal housing, and the lagoon. 2019 groundwater chemistry at this location is not indicative of lagoon seepage.

DLF-MW5

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations ranging from 6.3 to 27 mg/L.

DLF-MW6

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations ranging from 7.7 to 69 mg/L.

Historical Groundwater Chemistry

MWs 1, 2, and 3 have water quality data available for 2004 and/or 2005 but no recent data to compare to because these wells were dry 2013-2017. These data were collected at the time the dairy was built. Nitrate-N concentrations ranged from 7.2 to 23.7 mg/L.

4.2.29 ELK

4.2.29.1 Well Network Description and Assessment

There are 6 dedicated monitoring wells at this dairy. MWs 2A, 3A, and 4 were installed in 2000 to a depth of 35 ft (bgs). In 2004, 3 additional wells were installed to depths ranging from 65 to 80 ft (bgs). These wells were installed with the recognition that MWs 2A, 3A, and 4 were not sufficiently deep to

monitor groundwater consistently. MWs 2B and 3B were installed next to MWs 2A and 3A, respectively, to allow depth specific monitoring under declining water levels at these locations. Hydrologic and well construction information indicates a substantial unsaturated zone beneath the dairy. Long travel times of percolating water from the ground surface to the water table, including the associated potential for dispersion and reactive transport confound the interpretation of groundwater chemical results with regard to management practices. This condition has been exacerbated by sustained drought conditions in the Central Valley (2012-2016) during which water levels have declined below the screens of the monitoring wells.

4.2.29.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater generally occurred at depths ranging from approximately 40 to 80 ft (bgs) before wells went dry. Water levels gradually declined from January 2013 to early summer and showed little recovery in the winter. Wells 1, 2B, and 3B went dry in 2014. MW2B and 3B remained dry until water levels recovered in 2019. Water levels were recorded in MW4 for the first time since 2013 in 2019.

2019 contours of equipotential groundwater level elevations (October to December) indicate southwesterly groundwater flow under the production area of the dairy. Well sites and associated 2019 source areas are shown in **Table 4.2.29.2**.

The mean gradient across the facility from 2013 through 2018 was $9.4x10^{-3}$ ft ft^{-1} (cv=0.22). In 2019, the mean gradient was $7.8\ x10^{-3}$ ft ft^{-1} (cv= 0.02).

Table 4.2.29.2: 2019 Source Areas at ELK

Well Site	Source Area
ELK-MW1	no sample
ELK-MW2	no sample
ELK-MW3	no sample
ELK-MW4	no sample

4.2.29.3 2019 Groundwater Chemistry

ELK-MW1 to MW4

These wells did not yield sufficient water for groundwater sample collection.

4.2.30 ZZI

4.2.30.1 Well Network Description and Assessment

There are 27 dedicated monitoring wells at this dairy. These wells were installed in 2007 under the direction of UC Davis using a well cluster/nested well design. Wells identified with “A” were purposefully installed in unsaturated (i.e., “dry”), coarse textured aquifer materials just above first

encountered groundwater to facilitate continued monitoring of the uppermost zone of first encountered groundwater if water levels were to rise in the future. Additional wells were grouped in clusters or nested structures to facilitate depth-specific groundwater monitoring in deeper, saturated, coarse textured aquifer materials[11].

At two of the well structures, screens are in direct vertical sequence, i.e., there is no separation between the bottom of the upper screen and the top of the deeper screen. These are MW1C and 1D, and MW5C and 5D. At most of the other wells, vertical separation between well screens is small (i.e., 10 to 17 ft but often less) and clay layers between the screened intervals are thin. This suggests that these wells are completed in the same aquifer system rather than in hydraulically separated water-bearing zones. More substantial separation exists in four cases: between MW1A and 1B, between MW2B and 2C, between MW3A and 3AA, and between 3AA and 3B.

Hydrologic and well construction information indicates a substantial unsaturated zone beneath the dairy. Long travel times of percolating water from the ground surface to the water table, including the associated potential for dispersion and reactive transport confound the interpretation of groundwater chemical results with regard to management practices.

4.2.30.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from approximately 25 to 45 ft (bgs) at MWs 1A, 2A, and 3A; and were relatively invariable.

Water levels in the deeper wells (i.e., MWs 1C, 1D, 2C, 2D, 3B, 5C, 5D, 6C, 6D, 7B, 7C, 7D, 9C, and 9D) were extremely similar to each other. Water levels in these wells ranged from a depth of approximately 90 to 130 ft (bgs). The hydrographs of these wells showed 20 to 30 ft of water level declines from 2013 to 2016, up to 17 ft recovery in 2017, and relatively stable conditions through 2019. The similarities across the well network, in addition to the lithologic observations discussed above, strongly suggest that these wells are completed in the same connected aquifer system.

2019 contours of equipotential groundwater level elevations indicate consistent westerly groundwater flow. Well sites and associated 2019 source areas are shown in **Table 4.2.30.2**.

From 2013 to 2018, the mean westerly to northwesterly gradient across the facility was 4.2×10^{-3} ft ft^{-1} (cv=0.35) and 6.7×10^{-3} ft ft^{-1} (cv=0.08). Gradients do not exhibit clear seasonal patterns.

[11] At any one of the well sites (e.g., MW4), the alphabetical sequence of the wells indicates successively deeper well screens (i.e., C is deeper than B). This does not mean that wells of the same alphabetical identification across a dairy are completed at the same depth interval. The alphabetical identifications are also not intended to suggest a grouping scheme by aquifer.

Table 4.2.30.2: 2019 Source Areas at ZZI

Well Site	Source Area
ZZI-MW1	animal housing
ZZI-MW2	lagoon/animal housing
ZZI-MW3	lagoon
ZZI-MW5	field
ZZI-MW6	field
ZZI-MW7	lagoon/animal housing
ZZI-MW9	field/animal housing

4.2.30.3 2019 Groundwater Chemistry

ZZI-MW1

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the animal housing. This includes nitrate-N concentrations ranging from 1.7 to 2.9 mg/L.

ZZI-MW2

1. Ammoniacal N concentrations were below the reporting limit.
2. TKN concentration was 0.20 mg/L.
3. Nitrite-N concentration was 0.11 mg/L.
4. Nitrate-N concentrations ranged from 1.3 to 1.8 mg/L.
5. TDS concentrations ranged from 220 to 250 mg/L.

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the lagoon system and the animal housing. 2019 groundwater chemistry at this location is not indicative of lagoon seepage.

ZZI-MW3

1. Ammoniacal N concentrations were below the reporting limit.
2. TKN concentration was 0.30 mg/L.
3. Nitrite-N concentration was below the reporting limit.
4. Nitrate-N concentration was 13 mg/L all four quarters.
5. K concentration was below the reporting limit.
6. HCO_3 concentration was 260 mg/L.
7. TDS concentrations ranged from 510 to 570 mg/L.

2019 groundwater chemistry at this location is not indicative of lagoon seepage.

ZZI-MW5

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the upgradient field. This includes nitrate-N concentrations ranging from 33 to 46 mg/L.

ZZI-MW6

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the upgradient field. This includes nitrate-N concentrations ranging from 35 to 42 mg/L.

ZZI-MW7

1. Ammoniacal N concentrations were below the reporting limit.
2. TKN concentration was 0.90 mg/L.
3. Nitrite-N was nondetect.
4. Nitrate-N concentrations ranged from 5.7 to 13 mg/L.
5. TDS concentrations ranged from 670 to 900 mg/L.

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area that includes animal housing and the lagoon system. 2019 groundwater chemistry at this location is not indicative of lagoon seepage.

ZZI-MW9

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area that includes the upgradient field and animal housing. This includes nitrate-N concentrations ranging from 2.2 to 5.4 mg/L.

4.2.31 HOL

4.2.31.1 Well Network Description and Assessment

There are three dedicated monitoring wells at this dairy. These wells were installed in 2005 in first encountered groundwater. Hydrologic and well construction information indicates a substantial unsaturated zone beneath the dairy. Long travel times of percolating water from the ground surface to the water table, including the associated potential for dispersion and reactive transport confound the interpretation of groundwater chemical results with regard to management practices. This condition has been exacerbated by sustained drought conditions in the Central Valley (2012-2016) during which water levels have declined below the screens of the monitoring wells.

4.2.31.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from approximately 115 to 137 ft (bgs) over the period of record. However, water levels declined below the well screens in the wells between 2014 and 2017. Therefore, the actual depth to first encountered groundwater during that time is unknown. Water levels exhibited substantial recovery in 2018 and 2019 but remained spotty in MW3.

2019 contours of equipotential groundwater level elevations could only be prepared for August and November. The contours suggest southwesterly to southeasterly groundwater flow. Well sites and associated 2019 source areas are shown in **Table 4.2.31.2**.

The mean west-northwesterly gradient across the facility prior to the wells going dry was $7.9x10^{-4}$ ft ft^{-1} (cv=0.55) and the mean west-southwesterly gradient was $4.8x10^{-4}$ ft ft^{-1} (cv=0.62).

Table 4.2.31.2: 2019 Source Areas at HOL

Well Site	Source Area
HOL-MW1	off site
HOL-MW2	lagoon/field
HOL-MW3	no sample

4.2.31.3 2019 Groundwater Chemistry

HOL-MW1

Groundwater chemistry at this location is substantially attributed to sources off-site. MW1 was only sampled once in 2019 and not during a full suite of analysis campaign. The nitrate-N concentration was 12 mg/L.

HOL-MW2

1. Ammoniacal N was nondetect.
2. Nitrate-N concentration was 37 mg/L.
3. TDS concentration was 960 mg/L.

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area that includes Field 1 and the lagoon system. 2019 groundwater chemistry at this location is not indicative of lagoon seepage.

HOL-MW3

This well did not yield sufficient water for groundwater sample collection.

Historical Groundwater Chemistry

MWs 1, 2, and 3 were sampled in 2005 and 2006 (n=2) and mean nitrate-N concentrations were 15.3, 25.6, and 18.9 mg/L, respectively. The most recent nitrate-N concentrations in MW1 ranged from 9.5 to 11 mg/L (2014, n=4). The most recent nitrate-N concentrations in MW2 ranged from 16 to 17 mg/L (2014, n=2). The most recent nitrate-N concentrations in MW3 ranged from 25 to 28 mg/L (2013, n=4).

4.2.32 HYN

4.2.32.1 Well Network Description and Assessment

There are three dedicated monitoring wells at this dairy. These wells were installed in 2006 in first encountered groundwater. Hydrologic and well construction information indicates a substantial unsaturated zone beneath the dairy. Long travel times of percolating water from the ground surface to the water table, including the associated potential for dispersion and reactive transport confound the interpretation of groundwater chemical results with regard to management practices. This condition

has been exacerbated by sustained drought conditions in the Central Valley (2012-2016) during which water levels have declined below the screens of the monitoring wells.

4.2.32.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from approximately 127 to 137 ft (bgs) in the first half of 2013. Water levels gradually declined from January and then dropped below the well screens. Wells remained dry through 2019. Therefore, the actual depth to first encountered groundwater during that time is unknown.

Contours of equipotential groundwater elevation could not be prepared for 2019 due to dry wells. Well sites and associated 2019 source areas are shown in **Table 4.2.32.2**.

The mean gradient across the facility prior to the wells going dry was $1.5x10^{-3}$ ft ft^{-1} (cv=0.11). Gradients do not exhibit clear seasonal variability.

Table 4.2.32.2: 2019 Source Areas at HYN

Well Site	Source Area
HYN-MW3	no sample
HYN-MW4	no sample
HYN-MW5	no sample

4.2.32.3 2019 Groundwater Chemistry

HYN-MW3 to MW5

These wells did not yield sufficient water for groundwater sample collection.

4.2.33 JAD

4.2.33.1 Well Network Description and Assessment

There are 11 dedicated monitoring wells at this dairy. Three of these wells were installed in 2004 in first encountered groundwater. CVDRMP installed 8 additional wells in 2012 using a nested structure design such that two wells were installed in one borehole. The wells in the nested structures at MWs 4 and 5 were completed in the same water-bearing zone but at different depth intervals. MW6s was completed in sand. MW6d was completed just below MW6s in a sequence of clayey sand and sandy clay. The wells in the nested structure at MW7 were completed in two sand strata that are separated by about 5 ft of silty clay. The nested well design facilitates monitoring and sampling of the uppermost zone of first encountered groundwater under non-steady groundwater conditions. Hydrologic and well construction information indicates a substantial unsaturated zone beneath the dairy. Long travel times of percolating water from the ground surface to the water table, including the associated potential for dispersion and reactive transport confound the interpretation of groundwater chemical results with regard to management practices. This condition has been exacerbated by sustained drought conditions

in the Central Valley (2012-2016) during which water levels have declined below the screens of most of the monitoring wells.

4.2.33.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from 45.01 to 95.89 ft (bgs) beneath the dairy; and deeper when water levels declined below the well screens. Water levels gradually declined across the facility by approximately 35 ft from 2013 to 2016 with little or no recovery in the winter months. MW1 and MW2 went dry in 2013. MWs 3 and 7 went dry in 2014 and MWs 4 and 5 went dry in 2015. MW6 was briefly dry in late 2016 to early 2017 and then exhibited 20 ft of recovery in 2017. Water levels in MWs 3, 4, 5 and 7 recovered above the well screen in winter 2017 and, despite an overall declining trend, remained above the well screen for most of 2018. There was additional recovery in 2019.

The median hydraulic head difference at MW4 resided within the precision of depth-to-water measurements. Therefore, dh was assigned a zero value and the resulting vertical gradient is also zero. Median vertical gradients at MW6 and 7 were 0.04 and 0.02 ft ft^{-1}, respectively.

2019 contours of equipotential groundwater level elevations indicate southwesterly to southeasterly groundwater flow. In January, contours were limited to the southwestern part of the facility due to several wells being dry. Well sites and associated 2019 source areas are shown in **Table 4.2.33.2**.

From 2013 through 2018, the mean gradient across the facility was $2.4x10^{-3}$ ft ft^{-1} (cv=0.18) and slightly smaller in 2019.

Table 4.2.33.2: 2019 Source Areas at JAD

Well Site	Source Area
JAD-MW1	no sample
JAD-MW2	no sample
JAD-MW3	field/off site
JAD-MW4	field/off site
JAD-MW5	field
JAD-MW6	field
JAD-MW7	field/off site

4.2.33.3 2019 Groundwater Chemistry

JAD-MW1 and MW2

These wells did not yield sufficient water for groundwater sample collection.

JAD-MW3

Groundwater chemistry at this location is substantially attributed to recharge occurring within on-site and off-site fields. This includes a nitrate-N concentration of 33 mg/L.

JAD-MW4

Groundwater chemistry at this location is substantially attributed to recharge occurring within on-site and off-site fields. This includes nitrate-N concentrations ranging from 3.9 to 14 mg/L.

JAD-MW5

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes a nitrate-N concentrations ranging from 15 to 16 mg/L.

JAD-MW6

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations ranging from 18 to 31 mg/L.

JAD-MW7

Groundwater chemistry at this location is substantially attributed to recharge occurring within on-site and off-site fields. This includes a nitrate-N concentration of 26 mg/L.

Historical Groundwater Chemistry

MWs 1, 2, and 3 were sampled in 2004 and 2007 (n=2) and mean nitrate-N concentrations were 20.0, 22.0, and 15.5, respectively. The most recent nitrate-N concentrations in MW1 ranged from 23 to 47 mg/L (2013, n=4). The most recent nitrate-N concentrations in MW2 ranged from 52 to 55 mg/L (2013, n=2). The most recent nitrate-N concentrations in MW3 ranged from 18 to 26 mg/L (2014, n=4).

4.2.34 LON

4.2.34.1 Well Network Description and Assessment

There are 23 dedicated monitoring wells at this dairy. These wells were installed in 2007 under the direction of UC Davis using a well cluster/nested well design. Wells identified with "A" were purposefully installed in unsaturated (i.e., "dry"), coarse textured aquifer materials just above first encountered groundwater to facilitate continued monitoring of the uppermost zone of first encountered groundwater if water levels were to rise in the future. Additional wells were installed in nested structures to facilitate depth-specific groundwater monitoring in deeper, saturated, coarse textured aquifer materials[12].

At some of the well structures, screens are in direct vertical sequence, i.e., there is no separation between the bottom of the upper screen and the top of the deeper screen. These are MW3B and 3C, MW4C and 4D, and MW6A and 6B. At most of the other wells, vertical separation between well screens is small (i.e., 10 to 16 ft but often less) and clay layers between the screened intervals are thin. This suggests that these wells are completed in the same aquifer system rather than in hydraulically separated water-bearing zones. More substantive separation exists between MW3A and 3B.

[12] At any one of the well sites (e.g., MW4), the alphabetical sequence of the wells indicates successively deeper well screens (i.e., C is deeper than B). This does not mean that wells of the same alphabetical identification across a dairy are completed at the same depth interval. The alphabetical identifications are also not intended to suggest a grouping scheme by aquifer.

Hydrologic and well construction information indicates a substantial unsaturated zone beneath the dairy. Long travel times of percolating water from the ground surface to the water table, including the associated potential for dispersion and reactive transport confound the interpretation of groundwater chemical results with regard to management practices.

4.2.34.2 Groundwater Levels

Monthly groundwater level measurements indicate mostly dry A wells. Water levels were very similar across the dairy facility in the C and D wells (and the B wells before they went dry). Water levels in these wells ranged from a depth of approximately 95 to 130 ft (bgs). The hydrographs of these wells showed consistent water level declines from 2013 to 2016 with minimal or no recovery at year end and overall water levels declines of approximately 25 to 28 ft. From 2017 to spring 2018, water levels recovered up to 15 ft in MWs 1 to 3 (beneath the production area) and remained relatively stable since then. Recovery in the field wells (MWs 4 to 7) was more moderate. The similarities across the well network, in addition to the lithologic observations discussed above, strongly suggest that these wells are completed in the same connected aquifer system.

2019 contours of equipotential groundwater level elevations indicate principally northerly flow beneath the cropland and more variable flow conditions beneath the production area. Well sites and associated 2019 source areas are shown in **Table 4.2.34.2**.

From 2013 to 2018, the mean northerly gradient between MW4 and MW6 was 1.7×10^{-3} ft ft^{-1} (cv=0.25) and the same in 2019. Gradients do not exhibit seasonal patterns.

Table 4.2.34.2: 2019 Source Areas at LON

Well Site	Source Area
LON-MW1	animal housing/off site
LON-MW2	lagoon/animal housing
LON-MW3	lagoon/animal housing
LON-MW4	field
LON-MW5	no sample
LON-MW6	no sample
LON-MW7	no sample

4.2.34.3 2019 Groundwater Chemistry

LON-MW1

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the animal housing and off-site sources. This includes nitrate-N concentrations ranging from 11 to 14 mg/L.

LON-MW2

1. Ammoniacal N concentrations ranged from below the reporting limit to 0.28 mg/L.
2. The TKN concentration was 0.49 mg/L.
3. Comparison of TKN and ammoniacal N indicates an organic N concentration of approximately 0.21 mg/L.
4. The nitrite-N was nondetect.
5. Nitrate-N concentrations ranged from 6.4 to 7.1 mg/L.
6. The K concentration was below the reporting limit.
7. The HCO_3 concentration was 320 mg/L.
8. The TDS concentrations ranged from 690 to 810 mg/L.

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the lagoons and animal housing. 2019 groundwater chemistry at this location is not indicative of lagoon seepage.

LON-MW3

1. Ammoniacal N concentrations were below the reporting limit.
2. The TKN concentration was 0.75 mg/L.
3. Comparison of TKN and ammoniacal N indicates that TKN essentially reflected organic N.
4. The nitrite-N concentration was 0.27 mg/L.
5. Nitrate-N concentrations ranged from 11 to 14 mg/L.
6. The K concentration was 0.76 mg/L
7. The HCO_3 concentration was 260 mg/L.
8. TDS concentrations ranged from 940 to 1,100 mg/L.

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the lagoons and animal housing. 2019 groundwater chemistry at this location is not indicative of lagoon seepage.

LON-MW4

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations ranging from 49 to 57 mg/L.

LON-MW5, MW6 and MW7

These wells did not yield sufficient water for groundwater sample collection.

4.2.35 ADO

This dairy closed in early 2013 and moved all livestock off site. The entire dairy was dismantled by April 2014 including animal housing structures and the earthen and the synthetically lined lagoons. The two wells are now located in the western field.

4.2.35.1 Well Network Description and Assessment

There are 4 dedicated monitoring wells at this dairy. CVDRMP installed these wells in 2012 using a nested structure design such that two wells were installed in each borehole. The wells in the nested structures were completed in the same water-bearing zone but at different depth intervals to facilitate monitoring and sampling of the uppermost zone of first encountered groundwater under non-steady groundwater conditions. Hydrologic and well construction information indicates a substantial unsaturated zone beneath the dairy. Long travel times of percolating water from the ground surface to the water table, including the associated potential for dispersion and reactive transport confound the interpretation of groundwater chemical results with regard to management practices.

4.2.35.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from approximately 77 to 104 ft (bgs). Water levels declined approximately 12 ft from January 2013 through the fall, exhibited minimal recovery in the winter, and had a similar pattern in 2014 and 2015. Overall, water levels declined approximately 25 ft from 2013 through 2016, recovered up to 8 feet by spring 2018, and remained stable since then.[13]

The median hydraulic head difference resided within the precision of depth-to-water measurements. Therefore, dh was assigned a zero value and the resulting vertical gradient is also zero.

Groundwater flow directions beneath this dairy were not inferred based on water level information and contours of equipotential groundwater level elevations. Well sites and associated 2019 source areas are shown in **Table 4.2.35.2**.

Table 4.2.35.2: 2019 Source Areas at ADO

Well Site	Source Area
ADO-MW1	off site
ADO-MW2	off site

4.2.35.3 2019 Groundwater Chemistry

ADO-MW1 and ADO-MW2

Groundwater quality in these two wells was extremely similar and exhibited nitrate-N concentrations ranging from 15 to 25 mg/L, nitrite-N and ammoniacal N below their respective reporting limits, low TKN concentrations (0.31-0.32 mg/L), and moderate TDS (690-780 mg/L).

[13] Since the closure of this dairy, these wells are in the middle of irrigated cropland. As a result, well access is not always possible, for example due to irrigation, pesticide applications, and cultivation activities.

4.2.36 MAL

4.2.36.1 Well Network Description and Assessment

There are 8 dedicated monitoring wells at this dairy. Six of these wells were installed in 2005 in first encountered groundwater. CVDRMP installed 2 additional wells in 2012 in first encountered groundwater. First encountered groundwater occurs perched on a shallow, clay-rich and aerially extensive deposit which impedes deep percolation through a thick unsaturated zone into a much deeper aquifer system.

4.2.36.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from 1.98 to 18.59 ft (btc) beneath the dairy. Water levels across this facility were stable. The wells located beneath the facility (MWs 1 to 5) exhibited very little seasonal variability and slightly rising water levels over the last few years. The wells located in the fields (MWs 6 to 8) exhibited slightly increased seasonal variability since 2016 with the highest water levels observed in the summer months.

2019 contours of equipotential water level elevations generally indicate northwesterly to northerly groundwater flow beneath the facility. However, due to a relatively flat water table, small differential water level fluctuations sometimes resulted in nonsteady flow conditions. Well sites and associated 2019 source areas are shown in **Table 4.2.36.2**.

From 2013 to 2018, the mean gradient across the facility was $1.4x10^{-3}$ ft ft^{-1} (cv=0.32). In 2019, the mean gradient was $7.3x10^{-4}$ ft ft^{-1} (cv=0.68). Gradients do not exhibit seasonal patterns.

Table 4.2.36.2: 2019 Source Areas at MAL

Well Site	Source Area
MAL-MW1	field (animal housing)
MAL-MW2	lagoon/off site*
MAL-MW3	field (other)
MAL-MW4	lagoon/field*
MAL-MW5	field (lagoon)
MAL-MW6	field/off site
MAL-MW7	field/off site
MAL-MW8	field

*The source area likely extends beyond the footprint of the lagoons because they are synthetically lined.

4.2.36.3 2019 Groundwater Chemistry

MAL-MW1

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields and possibly extends into the northern animal housing. This includes nitrate-N concentrations ranging from 23 to 44 mg/L.

MAL-MW2

1. Ammoniacal N concentrations were below the reporting limit.
2. TKN concentration was 0.80 mg/L.
3. Comparison of TKN and ammoniacal N indicates that TKN essentially reflected organic N.
4. Nitrite-N concentration was 1.1 mg/L.
5. Nitrate-N concentrations were high and range from 150 to 170 mg/L.
6. The K concentration was 1.2 mg/L
7. The HCO_3 concentration was 930 mg/L.
8. The TDS concentrations ranged from 2,500 to 2,800 mg/L.

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the lagoon and upgradient fields. 2019 groundwater chemistry is not indicative of lagoon seepage.

MAL-MW3

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields although effects from the adjacent feed storage area on water chemistry are conceivable. This includes nitrate-N concentrations ranging from 5.8 to 49 mg/L and high TDS concentrations ranging from 4,200 to of 5,000 mg/L.

MAL-MW4

1. Ammoniacal N concentrations were below the reporting limit.
2. TKN concentration was 1.2 mg/L.
3. Comparison of TKN and ammoniacal N indicates that TKN essentially reflected organic N.
4. Nitrite-N concentration was 0.059 mg/L.
5. Nitrate-N concentrations range from 7.2 to 160 mg/L.
6. K concentration was 1.3 mg/L.
7. The HCO_3 concentration was 1,500 mg/L.
8. The TDS concentrations ranged from 1,700 to 2,600 mg/L.

Given that the lagoons have synthetic liners (see **Attachment 1 Table 3-5**), seepage through the liner should approach zero and (even if leakage were to occur through undetected liner defects), the source area of this well likely extends beyond the footprint of the lagoons into the field. 2019 groundwater chemistry is not indicative of lagoon seepage with the exception of the high HCO_3 concentration.

MAL-MW5

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. Based solely on the adjacency of this well to the lined lagoons, effects of lagoon

seepage on its water chemistry are conceivable. Nitrate concentrations were higher than at other wells at this site (260-350 mg/L). Likewise, TDS concentrations were higher than at other wells ranging from 4,600-5,600 mg/L. Ammoniacal N was below or near the reporting limit. The TKN concentration was 2.6 mg/L. The HCO_3 concentration was 1,900 mg/L. 2019 groundwater chemistry at this location does not exhibit typical indications of lagoon seepage. Note that this dairy is located on highly saline alkali soils.

MAL-MW6

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields as well as from off-site fields. This includes nitrate-N concentrations ranging from 35 to 76 mg/L.

MAL-MW7

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields and, secondarily, within off-site fields. This includes nitrate-N concentrations ranging from 26 to 87 mg/L.

MAL-MW8

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations ranging from 36 to 75 mg/L.

4.2.37 MAP and ZON

4.2.37.1 Well Network Description and Assessment

There are 15 dedicated monitoring wells at these dairies. The wells were installed in 2002 and 2003[14] using a combination of individual wells and well cluster/nested well design. ZON-MW1A and 1B were completed in what may be a local perched zone in the vicinity of the lagoon (i.e., first encountered groundwater at that location). Screen intervals are above those of the MAP wells and "A" wells. MAP-MW8, 9, 10 and ZON-MW2A, 3A, 4A, and 5A were installed in first encountered groundwater; and the screen of ZON-MW1C is at a similar depth interval. The "B" wells (i.e., at ZON-MWs 2, 3, 4, and 5) were installed in a deeper water bearing zone. At these nested structures, the screens are vertically separated by 33 to 35 ft (20 ft at ZON-MW3), and the intervals between the upper and lower screen sections include considerable amounts of fine-grained materials (i.e., silts and silty sands), which may inhibit vertical hydraulic communication. Hydrologic and well construction information indicates a substantial unsaturated zone beneath the dairy. Long travel times of percolating water from the ground surface to the water table, including the associated potential for dispersion and reactive transport confound the interpretation of groundwater chemical results with regard to management practices. This condition has been exacerbated by sustained drought conditions in the Central Valley (2012-2016) during which water levels have declined below the screens of several of the monitoring wells.

[14] MAP-MW10 and the well cluster at ZON-MW1 were likely installed at that time but explicit documentation could not be obtained.

The wellhead of ZON-MW2 was damaged in late 2014 such that water level measurements could not be retrieved from October to December. The wellhead was repaired in January 2015.

4.2.37.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at different depth intervals and suggests a heterogeneous subsurface and spatial distribution of water-bearing zones. First groundwater at the ZON-MW1 cluster was encountered at less than 15 ft (bgs). Across the remaining area of the dairy, first encountered groundwater occurred at depths ranging from approximately 87 to 137 ft (bgs). Many of the wells were already dry or went dry in 2013 (i.e, MAP-MW8 and 9, ZON-MW1B, 3A, 4A, 5A, and 7). Water levels recovered above the well screens in MAP MW 8 (December) and ZON MW1B (February and December) 2019.

Water levels in the deeper wells (e.g., ZON-MW2B, 3B, 4B, and 5B) exhibited very similar trends with seasonally high levels in the winter and low levels in the summer. Overall, the "B" wells exhibited a water level decline of up to approximately 37 feet from 2013 to 2016, with the steepest rate of decline in 2013/14, before water levels declined below the well screens. Water levels moderately recovered after the 2012-2016 drought and remained relatively stable in 2019.

2019 contours of equipotential groundwater level elevations indicate consistent northwesterly to northerly groundwater flow. Due to declining water levels and several dry wells, contours were limited to the eastern part of the facility. Well sites and associated 2019 source areas are shown in **Table 4.2.37.2**.

Prior to 2019, the mean gradient between MAP-MW10 and ZON-MW5 was 6.8×10^{-3} ft ft^{-1} (cv=0.21) and the same in 2019. Gradients exhibit a seasonal pattern with steeper gradients in the summer and flatter gradients in the winter.

Table 4.2.37.2: 2019 Source Areas at MAP and ZON

Well Site	Source Area
ZON-MW1	no sample
ZON-MW2	off site
ZON-MW3	field (off site)
ZON-MW4	no sample
ZON-MW5	no sample
ZON-MW7	no sample
MAP-MW8	no sample
MAP-MW9	no sample
MAP-MW10	off site

4.2.37.3 2019 Groundwater Chemistry

ZON-MW1

This well did not yield sufficient water for sample retrieval.

ZON-MW2

Groundwater chemistry at this location is substantially attributed to recharge occurring in a monitored source area within upgradient fields that are not associated with the dairy. This includes TDS concentrations ranging from 270 to 310 mg/L and nitrate-N ranging from 10 to 18 mg/L.

ZON-MW3

Groundwater chemistry at this location is substantially attributed to recharge occurring in a monitored source area within the upgradient fields although effects from the adjacent off-site fields on water chemistry are conceivable. This includes TDS concentrations ranging from 600 to 780 mg/L and nitrate-N concentrations ranging from 48 to 50 mg/L.

ZON-MW4 to MW7

These wells did not yield sufficient water for sample retrieval.

MAP-MW8 and MW9

These wells did not yield sufficient water for sample retrieval.

MAP-MW10

Groundwater chemistry at this location is substantially attributed to recharge occurring in a monitored source area within upgradient fields that are not associated with the dairy. This includes TDS concentrations ranging from 410 to 870 mg/L and nitrate-N concentrations ranging from 11 to 53 mg/L.

Historical Groundwater Chemistry

Nitrate-N concentrations at ZON-MW1 (A and C) increased from a median of 5.7 mg/L (n=15; 2001-2006) to a median of 19 mg/L in 2018 (n=3).

Nitrate-N concentrations at ZON-MW2 (A and B) increased from a median of 2.3 mg/L (n=9; 2002-2006) to a median of 17 mg/L in 2018 (n=3) (MW2B, only).

Nitrate-N concentrations at ZON-MW3 (A and B) increased from a median of 32 mg/L (n=8; 2002-2006) to a median of 52 mg/L in 2018 (MW3B, only).

Nitrate-N concentrations at ZON-MW4 (A and B) increased from a median of 31 mg/L (n=8; 2003-2006) to a median of 52 mg/L in 2018 (MW4B, only).

Nitrate-N concentrations at ZON-MW5A decreased from a median of 44 mg/L in 2003-2006 (n=6) to 1.2 to 11 mg/L (n=2) in 2017.

Nitrate-N concentrations at ZON-MW5B increased from 37.5 to 39.2 mg/L in 2005 and 2006 (n=2) to 25 to 51 mg/L in 2018 (n=2).

Nitrate-N concentrations in MAP-MW8 ranged from 9.5 to 14 mg/L (2002-2004), 23.5 mg/L in 2006, and 54-55 mg/L in 2013 (dry since 2013Q3).

4.2.38 RIC

4.2.38.1 Well Network Description and Assessment

There are 12 dedicated monitoring wells at this dairy. Six of these wells were installed in three well pairs in 2005. These wells were completed in the same water-bearing zone but at different depth intervals to facilitate monitoring and sampling of the uppermost zone of first encountered groundwater under non-steady groundwater conditions. CVDRMP installed 6 additional wells in 2012 using a nested structure design such that two wells were installed in one borehole. The wells in the nested structure were also completed in the same water-bearing zone but at different depth intervals to facilitate monitoring and sampling of the uppermost zone of first encountered groundwater under non-steady groundwater conditions.

4.2.38.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from 5.13 to 18.80 ft (btc) beneath the dairy. Seasonal water level fluctuations in MWs 1 to 6 were very small, and these wells experienced a water level decline of up to approximately 7 ft from 2013 to 2016 followed my variable recovery. The monitoring wells adjacent to the fields (MWs7, 8, and 9) exhibited up to approximately 5 ft of seasonal variability with high levels in the summer and low levels in the fall and winter. Overall, water levels in the field wells were stable over the period of record.

At MW8, the median hydraulic head difference resided within the precision of depth-to-water measurements. Therefore, dh was assigned a zero value and the resulting vertical gradient is also zero. The median vertical gradient at MW7 was 0.00 ft ft^{-1} and 0.06 ft ft^{-1} at MW9.

2019 contours of equipotential water level elevations indicate predominantly southerly and southeasterly groundwater flow beneath the animal housing and lagoons, and southerly to southwesterly flow beneath the eastern fields that are under center pivot irrigation. Well sites and associated 2019 source areas are shown in **Table 4.2.38.2**.

The mean southeasterly gradient between MW6 and MW9 from 2013 to 2018 was $1.6x10^{-3}$ ft ft^{-1} (cv=0.41) and slightly shallower in 2019. The mean southerly gradient between MW7 and MW8 from 2013 to 2018 was $2.1x10^{-3}$ ft ft^{-1} (cv=0.15) and very similar in 2019. The southerly gradient sometimes exhibits a slight seasonal pattern with steeper gradients in the summer and flatter gradients in the winter.

Table 4.2.38.2: 2019 Source Areas at RIC

Well Site	Source Area
RIC-MW1 & MW2	field (animal housing)
RIC-MW3 & MW4	lagoon
RIC-MW5 & MW6	field (animal housing)
RIC-MW7	off site
RIC-MW8	field
RIC-MW9	field

4.2.38.3 2019 Groundwater Chemistry

RIC-MW1 (deep)

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the field although effects from the nearby animal housing on water chemistry are conceivable. Nitrate-N concentrations were at or below the reporting limit and ammoniacal N concentrations ranged from 0.20 to 0.23 mg/L.

RIC-MW3 (deep) & MW4 (shallow)

1. Ammoniacal N concentrations ranged from below the reporting limit to 0.87 mg/L.
2. TKN concentration was 0.71 mg/L.
3. Comparison of TKN and ammoniacal N indicates organic N concentrations approximately 0.51 mg/L.
4. Nitrite-N concentration was 0.074 mg/L.
5. Nitrate-N concentrations ranged from 0.42 to 2.9 mg/L.
6. K concentration was 3.7 mg/L.
7. HCO_3 concentration was 800 mg/L.
8. TDS concentrations ranged from 930 to 1,300 mg/L.

2019 groundwater chemistry at this location does not exhibit typical indications of lagoon seepage with the exception of an elevated HCO_3 concentration.

RIC-MW5 (deep) & MW6 (shallow)

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the upgradient field although effects from the nearby animal housing on water chemistry are conceivable. Nitrate-N concentrations ranged from 0.8 to 3.0 mg/L.

RIC-MW7

Groundwater quality at this location is attributed to off-site sources. Nitrate-N concentrations range from nondetect to 3.1 mg/L.

RIC-MW8

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the northern center pivot irrigated Field P10. This includes nitrate-N concentrations near or below the reporting limit.

RIC-MW9

Groundwater chemistry at this location is substantially attributed to recharge occurring in a source area within the fields. This includes nitrate-N concentrations ranging from 0.57 to 54 mg/L.

Historical Groundwater Chemistry

Comparison of results of CVDRMP's recent monitoring efforts to historical analytical results available for 2005 and 2008 indicate that nitrate-N concentrations remained stable and low.

At MW1, nitrate-N concentrations ranged from 0.1 to 0.5 mg/L (n=3) between 2005 and 2008, and they were nondetect in 2018.

At MW2, nitrate-N concentrations ranged from 0.8 to 19.7 mg/L (Med=6 mg/L, n=5) between 2004 and 2008. This well has been dry during the CVDRMP monitoring effort (2013-2018).

At MW3, only one historical nitrate-N measurement exists (0.1 mg/L in 2008). In 2008, three concentrations were nondetect and one was 4.4 mg/L.

At MW4, nitrate-N concentrations ranged from 0.1 to 44 mg/L (n=7) between 2003 and2008). The most recent groundwater samples in this well were retrieved in 2015, and concentrations ranged from 0.11 to 3.8 mg/L.

At MW5, nitrate-N concentrations ranged from 0.5 to 5.5 mg/L (n=6) between 2003 to 2008. In 2018, concentrations ranged from 0.41 to 2.4 mg/L (n=4).

At MW6, nitrate-N concentrations ranged from 2.4 to 8.7 mg/L (Med=6.5 mg/L; n=8; 2003-2008). The most recent groundwater samples in this well were retrieved in 2015, and concentrations ranged from 2.6 to 7.3 mg/L.

4.2.39 SIE

4.2.39.1 Well Network Description and Assessment

There are 4 dedicated monitoring wells at this dairy. These wells were installed between 2003 and 2006 in first encountered groundwater. Hydrologic and well construction information indicates a substantial unsaturated zone beneath the dairy (and water levels dropped below the well screens in summer 2013 and recovered in only one of the wells). Long travel times of percolating water from the ground surface to the water table, including the associated potential for dispersion and reactive transport confound the interpretation of groundwater chemical results with regard to management practices. This condition has been exacerbated by sustained drought conditions in the Central Valley (2012-2016) during which water levels have declined below the screens of several of the monitoring wells.

4.2.39.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from 78.04 to 126.47 ft (bgs) beneath the dairy. Water levels declined approximately 30 ft from January to August 2013 in MW1 before levels dropped below its well screen. In this well, there was full recovery by December 2013. Water levels in MW1 have been relatively stable since 2014. In MW3, water levels declined approximately 20 ft from January to November 2013 before levels dropped below its screen. Water levels rose into the screen again in May 2015. From 2015 to 2017, water levels rose approximately 20 ft and have remained at that level through 2019. MWs 1 and 3 exhibit seasonally high levels in the summer and lowest levels in late winter and early spring. MWs 2 and 4 were mostly dry.

2019 contours of equipotential groundwater level elevations indicate easterly to southerly flow. Ten months in 2019 were not contoured due to dry wells. Well sites and associated 2019 source areas are shown in **Table 4.2.39.2**.

The mean easterly groundwater gradient between MW1 and MW2 prior to 2019 was $1.0x10^{-2}$ ft ft^{-1} (cv=0.24) and similar in 2019.

Table 4.2.39.2: 2019 Source Areas at SIE

Well Site	Source Area
SIE-MW1	off site
SIE-MW2	no sample
SIE-MW3	off site
SIE-MW4	no sample

4.2.39.3 2019 Groundwater Chemistry

SIE-MW1

Groundwater chemistry at this location is substantially attributed to off-site sources. This includes nitrate-N concentrations ranging from 9.5 to 33 mg/L, ammoniacal N concentrations below the reporting limit, and TDS concentrations ranging from 190 to 560 mg/L.

SIE-MW2

This well did not yield sufficient water for groundwater sample collection.

SIE-MW3

Groundwater chemistry at this location is substantially attributed to off-site sources. This includes nitrate-N concentrations ranging from 21 to 22 mg/L, ammoniacal N concentrations below the reporting limit, and TDS concentrations ranging from 410 to 450 mg/L.

SIE-MW4

This well did not yield sufficient water for groundwater sample collection.

Historical Groundwater Chemistry

Comparison of results of CVDRMP's recent monitoring efforts to historical analytical results available for 2004 to 2006 indicate that Nitrate-N concentrations

At MW1, nitrate-N concentrations ranged from 85.8 to 107 mg/L (Med=100 mg/L; n=5; 2004-2006). In 2018, concentrations ranged from 32 to 34 mg/L.

At MW2, nitrate-N concentrations ranged from 34.1 to 46.7 mg/L (Med=39 mg/L; n=7; 2004-2006). This well has been dry during the CVDRMP monitoring effort (2013-2018).

At MW3, nitrate-N concentrations ranged from 20.7 to 46.7 mg/L (Med=31.1 mg/L; n=5; 2004-2006). In 2018, concentrations ranged from 22 to 28 mg/L (n=4).

At MW4, nitrate-N concentrations ranged from 35.5 to 39.2 mg/L (n=3; 2006). This well has been dry during the CVDRMP monitoring effort (2013-2018).

4.2.40 SO2

4.2.40.1 Well Network Description and Assessment

There are 12 dedicated monitoring wells at this dairy. Four of these wells were installed in 2002 in first encountered groundwater. CVDRMP installed 8 additional wells in 2012 using a nested structure design such that two wells were installed in one borehole. The wells in the nested structures were completed in the same water-bearing zone of predominantly silty sands and fine to medium textured sands, and including a low plastic clay at MW5. At MW8, located adjacent to the lagoon, a very shallow perched zone was encountered during drilling. However, the well that was installed in this zone (i.e., MW8s) has not produced water to date. The nested well design facilitates monitoring and sampling of the uppermost zone of first encountered groundwater under nonsteady groundwater conditions. Hydrologic and well construction information indicates a substantial unsaturated zone beneath the dairy (and water levels in MWs 1 to 4 dropped below the well screens during much of 2013). Long travel times of percolating water from the ground surface to the water table, including the associated potential for dispersion and reactive transport confound the interpretation of groundwater chemical results with regard to management practices. This condition has been exacerbated by sustained drought conditions in the Central Valley (2012-2016) during which water levels have declined below the screens of most of the monitoring wells.

4.2.40.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from approximately 60 to over 100 ft (bgs) beneath the dairy. MWs 5 to 8 exhibited swift water level declines of 40 ft and more from the beginning of the monitoring record in 2013 to 2015/2016, at which time water levels declined below the well screens. The single completion wells (i.e., MWs 1 to 4) were mostly dry over the period of record.

Median vertical gradients at the nested well structures in the fields (MWs 5 to 7) ranged from 0.00 to 0.01 ft ft^{-1}.

Contours of equipotential groundwater elevation were not prepared for 2019 due to dry wells. Well sites and associated 2019 source areas are shown in **Table 4.2.40.2**.

In early 2013, the mean northwesterly gradient was $1.9x10^{-3}$ ft ft^{-1} (cv=0.13). From 2013 through June 2015, the mean westerly gradient across the facility was $2.3x10^{-3}$ ft ft^{-1} (cv=0.28). Gradients do not exhibit seasonal patterns.

Table 4.2.40.2: 2019 Source Areas at SO2

Well Site	Source Area
SO2-MW1	no sample
SO2-MW2	no sample
SO2-MW3	no sample
SO2-MW4	no sample
SO2-MW5	no sample
SO2-MW6	no sample
SO2-MW7	no sample
SO2-MW8	no sample

4.2.40.3 2019 Groundwater Chemistry

SO2-MW1 to MW-8

These wells did not yield sufficient water for groundwater sample collection.

Historical Groundwater Chemistry

At MW1, nitrate-N concentrations ranged from 4.7 to 33.2 mg/L (Med=21.9 mg/L; n=7; 2003-2006). The most recent groundwater samples in this well were retrieved in 2013, and concentrations ranged from 2.9 to 3.1 mg/L.

At MW2, nitrate-N concentrations ranged from 2.1 to 102 mg/L (Med=80 mg/L; n=8; 2003-2006). The most recent groundwater sample in this well was retrieved in 2013, and the nitrate-N concentration was 110 mg/L.

At MW3, nitrate-N concentrations ranged from <0.1 to 0.1 mg/L (n=3; 2005 and 2006). This well has been dry during the CVDRMP monitoring effort (2013-2018).

At MW4, nitrate-N concentrations ranged from nondetect to 70 mg/L (med=65 mg/L; n=8; 2003-2006). The most recent groundwater sample in this well was retrieved in 2013, and the nitrate-N concentration was 53 mg/L.

4.2.41 SOJ

This dairy closed in early 2017 and moved livestock off site.

4.2.41.1 Well Network Description and Assessment

There are 8 dedicated monitoring wells at this dairy. Four of these wells were installed in 2002 in first encountered groundwater. CVDRMP installed 4 additional wells in 2012 using a nested structure design such that two wells were installed in one borehole. The wells in the nested structures were completed in the same water-bearing zone of predominantly silty and clayey sands. The nested well design facilitates monitoring and sampling of the uppermost zone of first encountered groundwater under nonsteady groundwater conditions. Hydrologic and well construction information indicates a substantial unsaturated zone beneath the dairy. Long travel times of percolating water from the ground surface to the water table, including the associated potential for dispersion and reactive transport confound the interpretation of groundwater chemical results with regard to management practices. This condition has been exacerbated by sustained drought conditions in the Central Valley (2012-2016) during which water levels have declined below the screens of most of the monitoring wells.

4.2.41.2 Groundwater Levels

Monthly groundwater level measurements indicate that first encountered groundwater occurred at depths ranging from approximately 75 to 108 ft (bgs) beneath the dairy. Water levels in the nested wells (MWs 5 to 8), declined some 30 to 40 ft from 2013 to 2015 before they fell below the well screens. The single completion wells (i.e., MWs 1 to 4) were mostly dry over the period of record.

The median hydraulic head difference at MW5 resided within the precision of depth-to-water measurements. Therefore, dh was assigned a zero value and the resulting vertical gradient is also zero. At MW6, the median vertical gradient was 0.01 ft ft^{-1}.

Contours of equipotential groundwater elevation were not prepared for 2019 due to dry wells. Well sites and associated 2019 source areas are shown in **Table 4.2.41.2**.

Table 4.2.41.2: 2019 Source Areas at SOJ

Well Site	Source Area
SOJ-MW1	no sample
SOJ-MW2	no sample
SOJ-MW3	no sample
SOJ-MW4	no sample
SOJ-MW5	no sample
SOJ-MW6	no sample

4.2.41.3 2019 Groundwater Chemistry

SOJ-MW1 to MW6

These wells did not yield sufficient water for groundwater sample collection.

4.3 Trend Groundwater Quality Analysis

Concentration trends of total nitrogen (TN) and TDS were analyzed for data record from the first quarter 2012 through the third quarter 2019 using Minitab® (i.e., 31 quarterly measurements). TN is defined here as the sum of nitrate and ammoniacal-N, and it was computed from quarterly measurements.[15] Consistent with the approach employed for the site-specific data analysis, data from "s" and "d" wells were grouped at each well site[16], and data from wells designated with "A, B, C, and/or D" were analyzed individually. This created 268 TN data sets and 268 TDS data sets (each with n≤31).[17]

4.3.1 Ordinary Least Squares Regression

Probably, the most common way to evaluate a linear trend is to compute an ordinary least square regression (OLSR) of concentration data plotted against the time or date of sample collection. Time is the independent variable and concentration is the dependent variable. Each point along a linear regression trend line is an estimate of the true mean concentration at that point in time. A positive regression (or slope) coefficient (i.e., the slope of the regression line) indicates increasing concentrations whereas a negative slope coefficient indicates decreasing concentrations. The null hypothesis states that there is no discernable linear trend in the concentration data over time. In this context, the p-value indirectly conveys the degree of confidence in the slope coefficient. More specifically, the p-value is the probability of incorrectly rejecting the null hypothesis when it is in fact true. Therefore, a small p-value indicates strong evidence against the null hypothesis, so it is rejected in favor of the alternative hypothesis (i.e., the slope coefficient exhibits a statistically significant correlation between the variables). A large p-value provides weak evidence against the null hypothesis, so it is not rejected. The p-value ranges from 0 to 1. For example, a p-value of 0.03 indicates that there is a 3% probability that the slope coefficient does not represent a true correlation between variables. Typically, the p-value is compared to a significance level, often denoted by α. The significance level is set prior to the analysis. We use a significance level of α=0.1 herein. This means, if p≤α, the null hypothesis is rejected, and the slope coefficient is accepted as statistically significant.

The coefficient of determination, r^2, is a statistic that gives information about the goodness of fit of a model to a data set. It is the proportion of the variance in the dependent variable that is predictable from the independent variable. Like the p-value, r^2 ranges from 0 to 1. For example, r^2=0.61 means that 39% of the variance is not explained by the independent variable.

In the Year 6 Annual Report (LSCE 2018), OLSR was compared to two nonparametric trend tests, the Theil-Sen trend line and the Mann-Kendall trend test. This did not yield substantively different results and, therefore, these methods are not revisited herein. Similarly, locally weighted scatter smoothing (LOWESS) did not provide sufficiently useful insight and, therefore, is not revisited herein.

[15] For consistency, annual measurements of nitrite were not added to the TN. Also, for consistency, annual measurements of ammoniacal-N were not replaced with TKN.
[16] See *Section 2.1* the definition of a well site.
[17] The number of data sets is not a representation of the number of individual monitoring wells, well locations, or well sites.

Eleven of the 268 data sets consist of a single data point. OLSR requires a minimum of two data points. Therefore, OLSR was performed on 257 data sets. **Attachment 13** compares the regression trend line for the full data set of quarterly results to the trend lines of two halved data sets (i.e., data from the first and third quarters (Q1/Q3) and data from the second and fourth quarters (Q2/Q4)). **Attachment 14** compares the regression trend line for the full data set to the trend lines of four further reduced data sets (i.e., Q1, Q2, Q3, and Q4).

4.3.1.1 Full Data Set

Of the 257 data sets, 151 exhibit a TN slope coefficient that is significant at α=0.1 (**Table 4-8**). Of those, 88 are positive (34%) and 63 negative (25%). The remaining 106 data sets (41%) do not show an increasing or decreasing TN concentration trend over the examined period (i.e., concentrations are stable). 140 data sets exhibit a TDS slope coefficient that is significant at α=0.1. Of those, 79 are positive (31%) and 61 are negative (24%). The remaining 117 data sets (46%) exhibit stable conditions.

For TN, the median coefficient of determination is only 0.22; 69 data sets have an $r^2 \geq 0.5$, which means that for 73% of data sets, more than half of the variance is not explained by the independent variable. Only 22 data sets have both a slope coefficient that is significant at α=0.1 and a coefficient of determination that is greater or equal to 0.8; and 10 of these data sets are comprised of only two data points.

For TDS, the median coefficient of determination is only 0.23; 58 data sets have an $r^2 \geq 0.5$, which means that for 77% of data sets, more than half of the variance is not explained by the independent variable. Only 12 data sets have both a slope coefficient that is significant at α=0.1 and a coefficient of determination that is greater or equal to 0.8; and 3 of these data sets are comprised of only two data points.

Despite overall poor coefficients of determination, OLSR is useful. A qualitative impression of the goodness of fit and unique patterns (e.g., nonlinearity or outliers) can be discerned by visual inspection of the concentration plots with their associated regression lines even when the coefficient of determination is low. Specifically, while OLSR is not a good model for seasonal variability or longer-term sinuosity, it can decisively convey long-term concentration trends even when the coefficient of determination is relatively low as demonstrated by the fact that the median coefficients of determination for data sets with TN (TDS) slope coefficients significant at α=0.1 are only 0.42 and 0.36, respectively.

4.3.1.2 Partial Data Sets

The regression lines for the two reduced data sets (i.e., Q1/Q3 and Q2/Q4) exhibit very similar slopes compared to the full data set (see **Attachment 13**). Exceptions are few, and they are typically associated with data sets that are characterized by large data gaps and/or relatively few data points (e.g., wells that went temporarily dry during the 2012-16 drought) because in these cases, a single outlier can have a substantial effect on the slope of the regression line, especially when it is located toward either end of the data record. Consequently, the Q1, Q2, Q3, and Q4 data sets exhibit greater trend variability than the Q1/Q3 and Q2/Q4 data sets (see **Attachment 14**). However, deviations between trends exhibited by the full data set and individual quarters' data sets are small for both total

nitrogen and total dissolved solids. Spring data (i.e., Q2) are particularly consistent in yielding similar results to the full data set. Also, based on visual inspection, none of the quarterly data sets exhibit systematically steeper/shallower slope coefficients than the full data set.

These findings support CVDRMP's recommendations to reduce sampling frequencies for long-term representative monitoring activities (CVDRMP 2019).

4.3.1.1.3 Group Analysis of Groundwater Total Nitrogen Concentrations

Group analyses were conducted on the data set from the first quarter 2012 to the fourth quarter 2019. To facilitate aggregate total nitrogen (TN)[18] trend analysis, data were grouped as follows:

- Comprehensive Onsite Group consists of observations primarily attributed to onsite source areas. This includes fields (F), animal housing (AH), lagoons (L), and mixed source areas. This group consists of the Management Unit Group plus additional observations for which either multiple onsite sources were identified, or secondary minor onsite/offsite sources were identified.
- Offsite Group consists of observations attributed to offsite source areas.
- Management Unit Group consists of observations attributed to a single MU (i.e., F, AH, or L) without secondary minor contributing source(s). All observations in this group are part of the Comprehensive Onsite Group.

Subgroups were established for data retrieved from shallow (i.e., screen intake section ≤55 feet, bgs) and deep monitoring wells, and differentiated by soil texture. Specifically, light soils include sandy loam, loamy sand, and sand. The remaining soils were grouped as heavy soils for a total of five subgroups (i.e., All, Shallow, Deep, Light, and Heavy). The Management Unit Group was further sub-grouped by management unit for a total of three additional subgroups (i.e., F, AH, and L). This scheme resulted in a total of 20 data sets for trend analysis.

Comprehensive Onsite Group The slope coefficient for All was 0.0044, which translates to an 8-year concentration increase of 13 mg/L (**Table 4.3.1.3**). The slope coefficients for Shallow, Light, and Heavy were very similar to All yielding 8-year concentration increases of 14, 12, and 15 mg/L, respectively. Groundwater TN concentrations in wells in the subgroup Deep exhibit less of a concentration increase (5.7 mg/L).

Coefficients of determination communicate very poor goodness of fit ($r^2 \leq 0.02$) indicating that 98% or more of the variability is not explained by the independent variable. This is consistent with the many site-specific conditions contributing to the large concentration variability exhibited by the data set. The statistical significance is strong across the subgroups, as indicated by small p-values ($p \leq 0.1$).

2019 mean annual concentration for the subgroup All was 46 mg/L. Mean Deep and Heavy subgroup concentrations were 33 mg/L, whereas the Shallow exhibited a slightly greater mean annual concentration than All (49 mg/L) and the greatest mean annual concentration was associated with

[18] See *Section 5.3* for definition of TN.

Light (55 mg/L). Trend lines associated with the Comprehensive Onsite Group are depicted in (**Figures 4.3.1.3a-e**).

Table 4.3.1.3: Group analysis regression statistics

Subgroup	MU	Slope	8-Year Trend	r^2	p-value	n	2019 Mean	2019 Median
Comprehensive Onsite Group								
All		0.0044	13	0.01	<0.01	4789	46	35
Shallow		0.0048	14	0.01	<0.01	4081	49	37
Deep		0.0020	5.7	<0.01	0.10	708	33	30
Light		0.0042	12	<0.01	<0.01	2831	55	44
Heavy		0.0051	15	0.02	<0.01	1958	33	24
Offsite Group								
All		0.0023	6.6	0.01	0.07	477	24	13
Shallow		0.0030	8.7	0.01	0.05	346	24	10
Deep		-0.0008	-2.4	<0.01	0.70	131	24	21
Light		0.0019	5.4	<0.01	0.30	265	36	24
Heavy		0.0006	1.8	0.01	0.19	212	8	8
Management Unit Group								
All	F	0.0038	11	0.01	<0.01	1618	42	40
All	AH	-0.0003	-1.0	<0.01	0.85	578	38	25
All	L	0.0104§	30§	0.01	0.07	340	62	30
Shallow	F	0.0027	7.9	0.01	<0.01	1285	40	39
Shallow	AH	-0.0008	-2.2	<0.01	0.67	540	39	25
Shallow	L	0.0109	32	0.01	0.08	314	66	40
Deep (a)	F	0.0083	24	0.07	<0.01	333	48	40
Deep (a)	AH	0.0092	27	0.13	0.02	38	21	30
Deep (a)	L	-0.0029	-8.6	0.21	0.02	26	13	13
Light	F	0.0045	13	0.02	<0.01	904	48	44
Light	AH	-0.0013	-3.9	<0.01	0.56	380	48	48
Light	L	0.0095	28	0.01	0.27	218	81	89
Heavy	F	0.0036	10	0.01	<0.01	714	35	35
Heavy	AH	0.0012	3.4	0.01	0.26	198	18	19
Heavy	L	0.0056	16	0.08	<0.01	122	29	28

* Deep wells were incorporated in the representative monitoring well network in 2013. For practicality and comparability to other subgroups, all slope coefficients (daily rate) were multiplied by 2921 days to yield an 8-year concentration trend.

§ Strongly affected by a few extreme values and outliers from one well (see text).

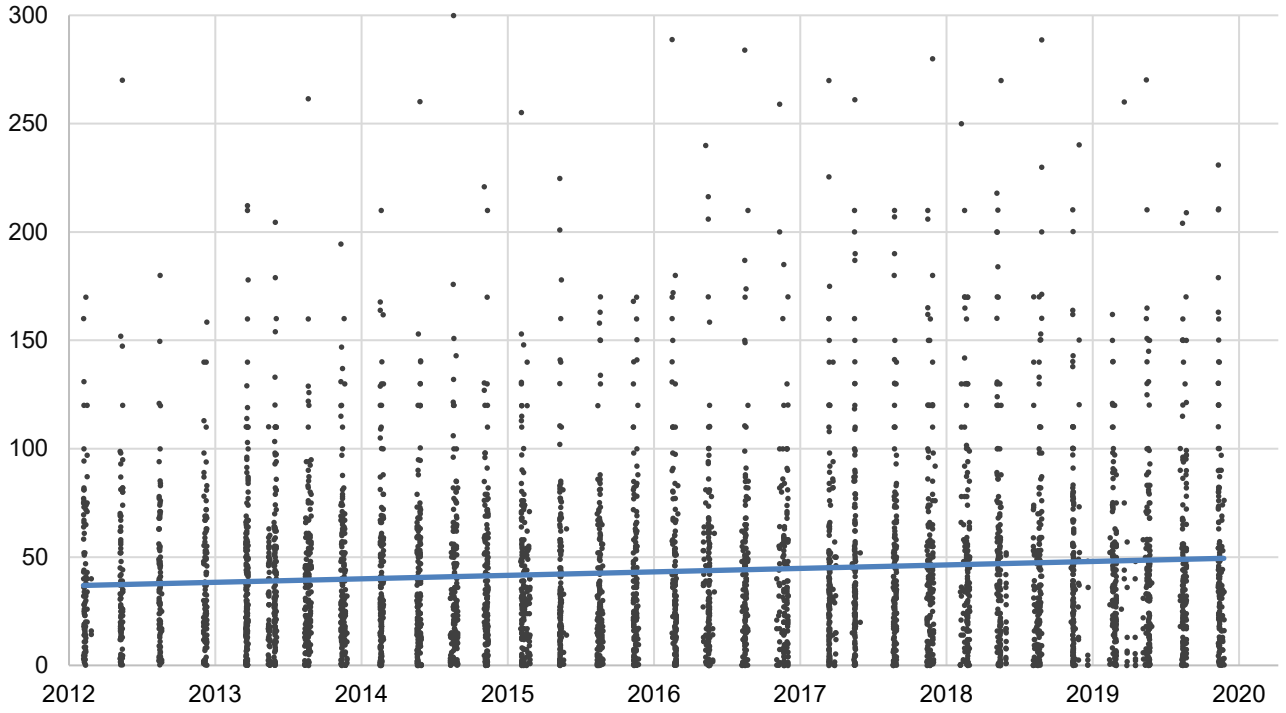

Figure 4.3.1.3a: TN concentrations, all wells with onsite source areas (15 observations >300 mg/L are not shown), p<0.01

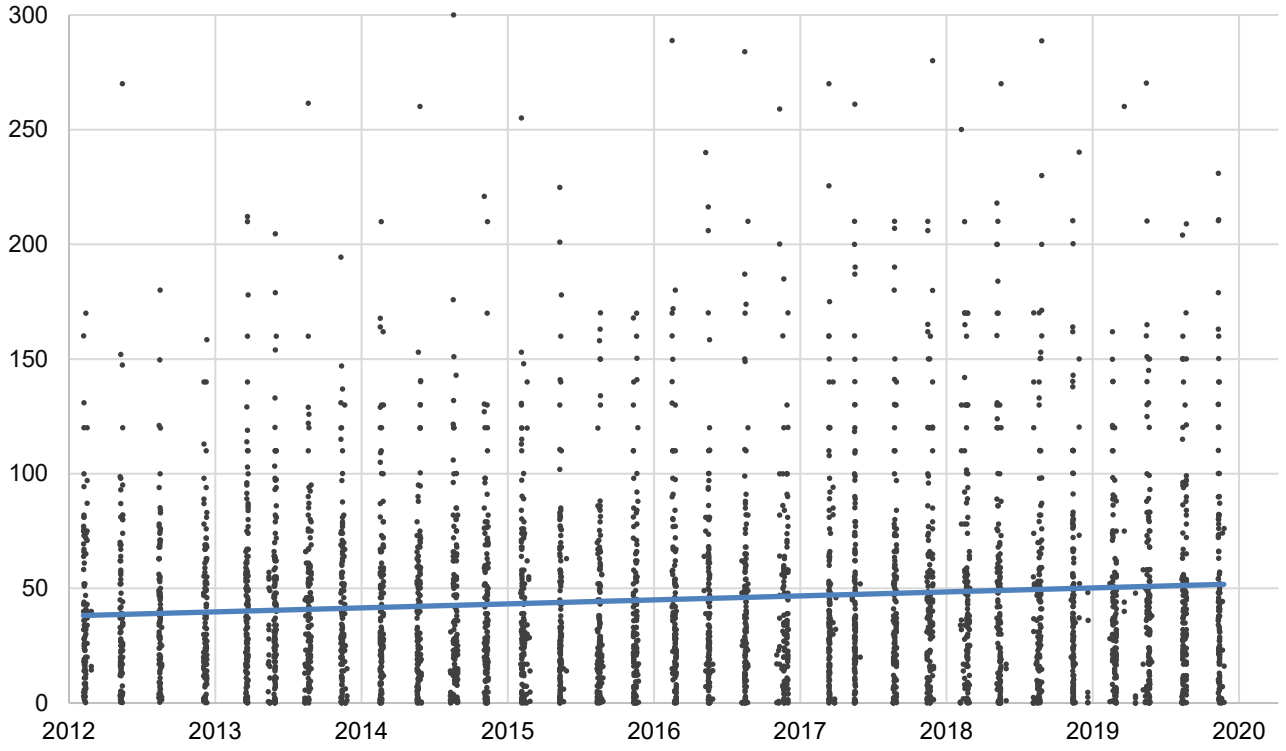

Figure 4.3.1.3b: TN concentrations, shallow wells with onsite source areas (15 observations >300 mg/L are not shown), p<0.01

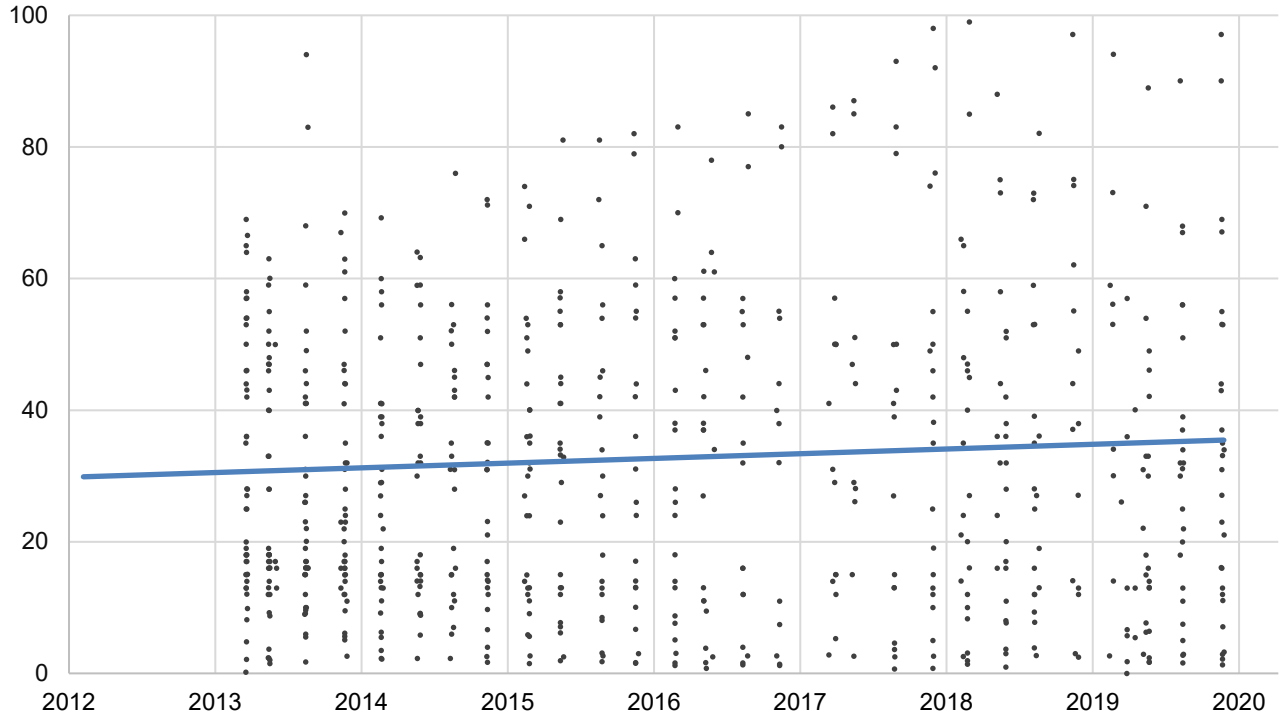

Figure 4.3.1.3c: TN concentrations, deep wells with onsite source areas (12 observations >100 mg/L are not shown), p=0.10

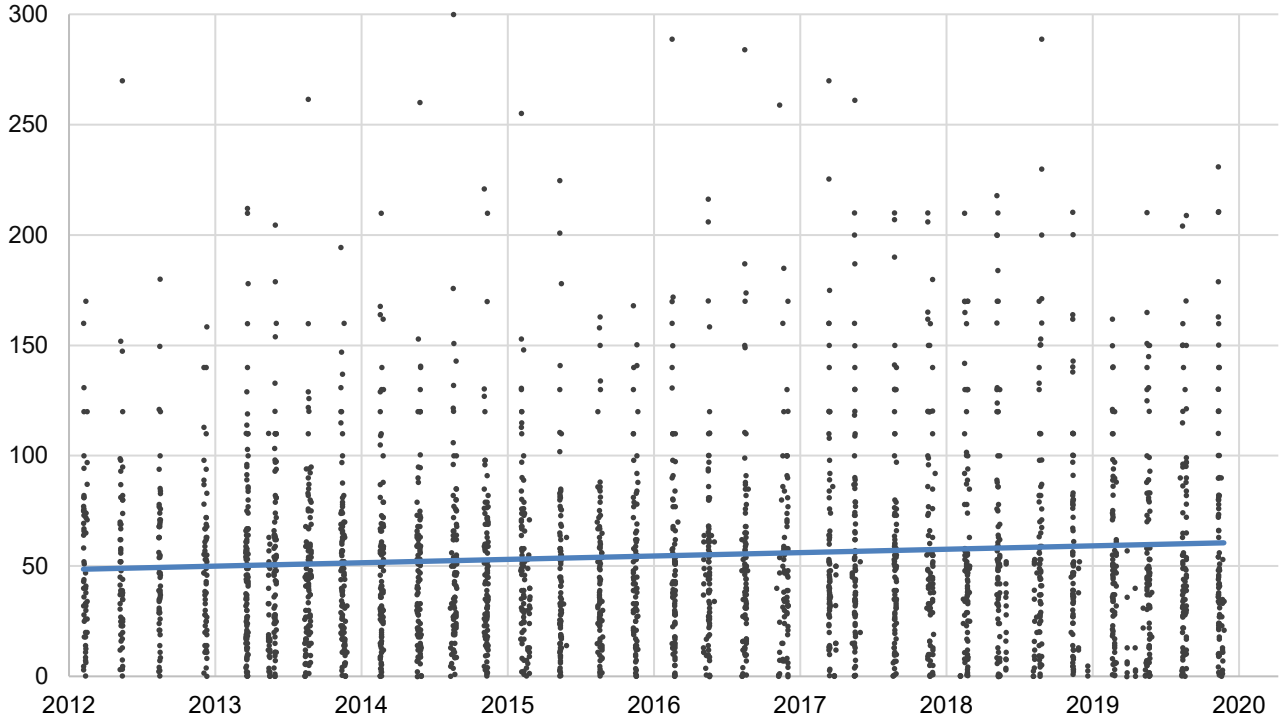

Figure 4.3.1.3d: TN concentrations, light soil wells with onsite source areas (13 observations >300 mg/L are not shown), p<0.01

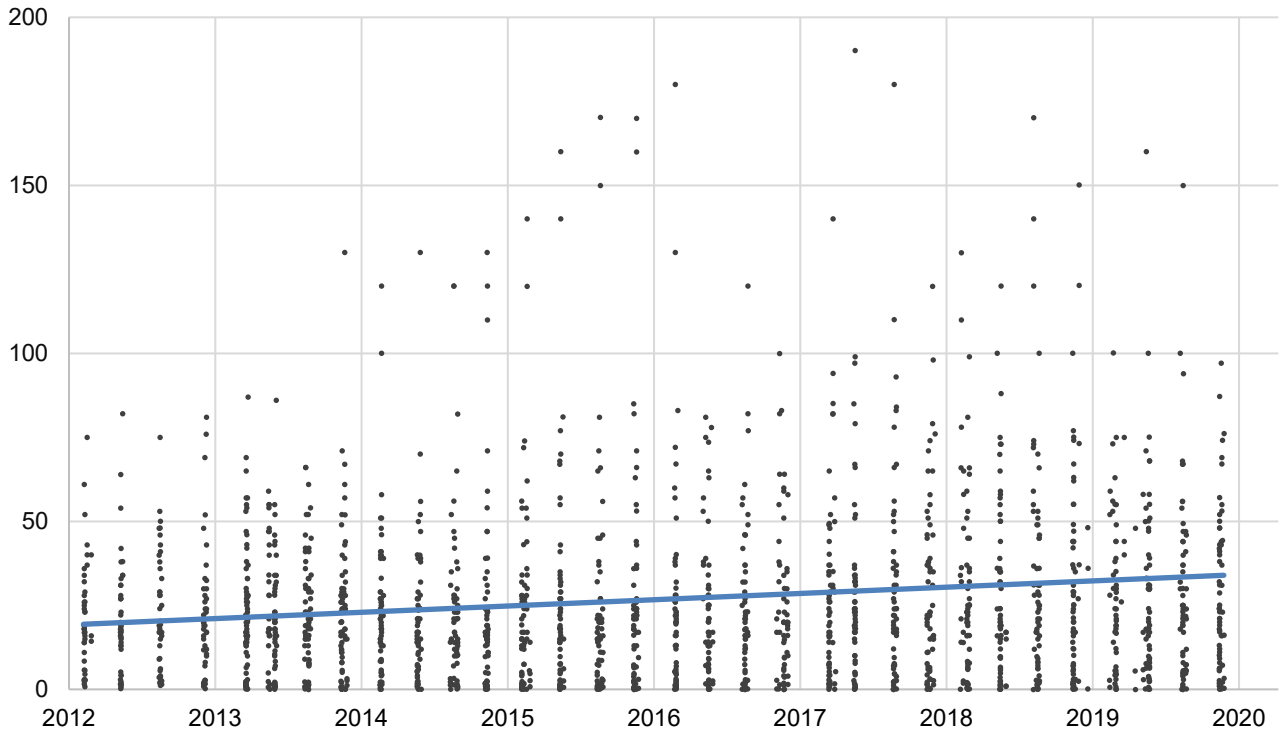

Figure 4.3.1.3e: TN concentrations, heavy soil wells with onsite source areas (11 observations >200 mg/L are not shown), p<0.01

Offsite Group The All and Shallow subgroups exhibit increasing concentrations with slope coefficients of 0.0023 and 0.0030, respectively (significant at α=0.1). The Deep, Light, and Heavy subgroups exhibit stable conditions (i.e., slope coefficients are not significant at α=0.1).

Coefficients of determination communicate very poor goodness of fit for all subgroups ($r^2 \leq 0.01$) indicating that 99% or more of the variability is not explained by the independent variable.

The 2019 mean annual concentration of All, Shallow and Deep was 24 mg/L. The mean annual Light and Heavy concentrations were 36 and 8 mg/L, respectively. The offsite 2019 mean annual concentrations were lower than the comprehensive onsite concentrations in every subgroup. Trend lines are depicted in (**Figures 4.3.1.3f-j**).

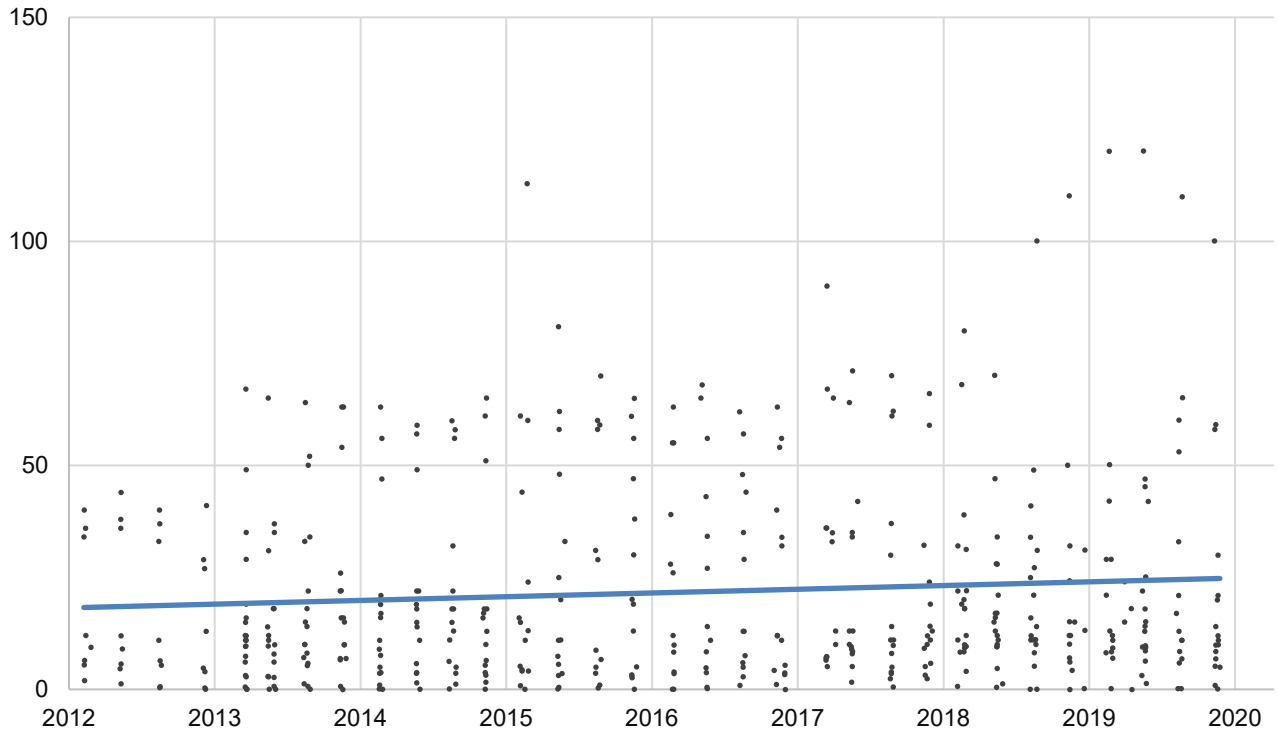

Figure 4.3.1.3f: TN concentrations, all wells with offsite source areas (p=0.07)

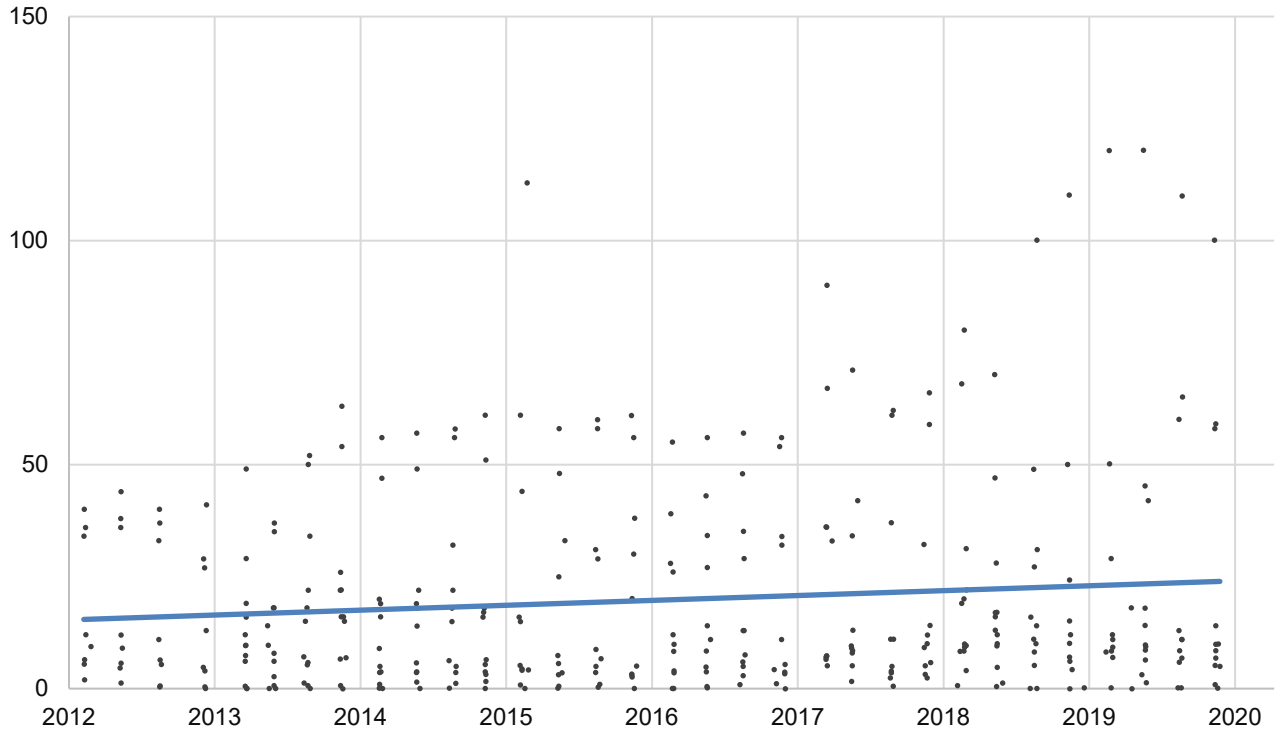

Figure 4.3.1.3g: TN concentrations, shallow wells with offsite source areas (p=0.05)

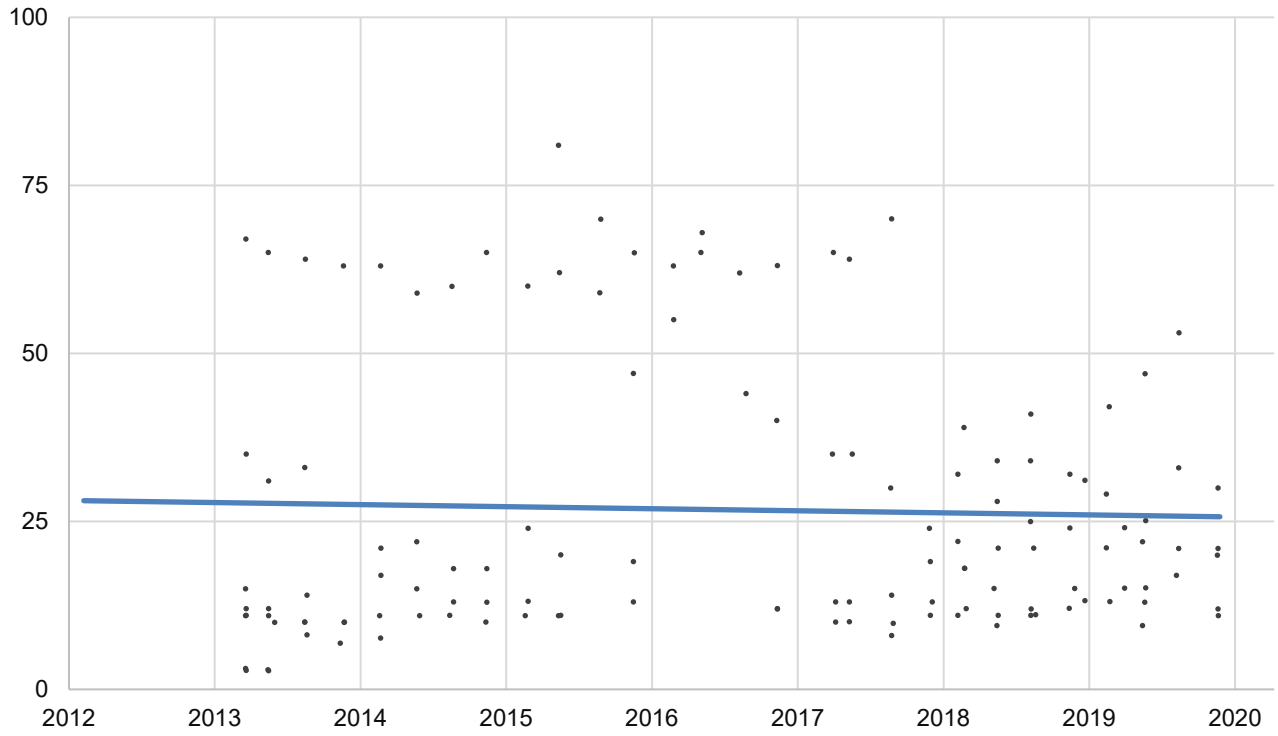

Figure 4.3.1.3h: TN concentrations, deep wells with offsite source areas (p=0.70)

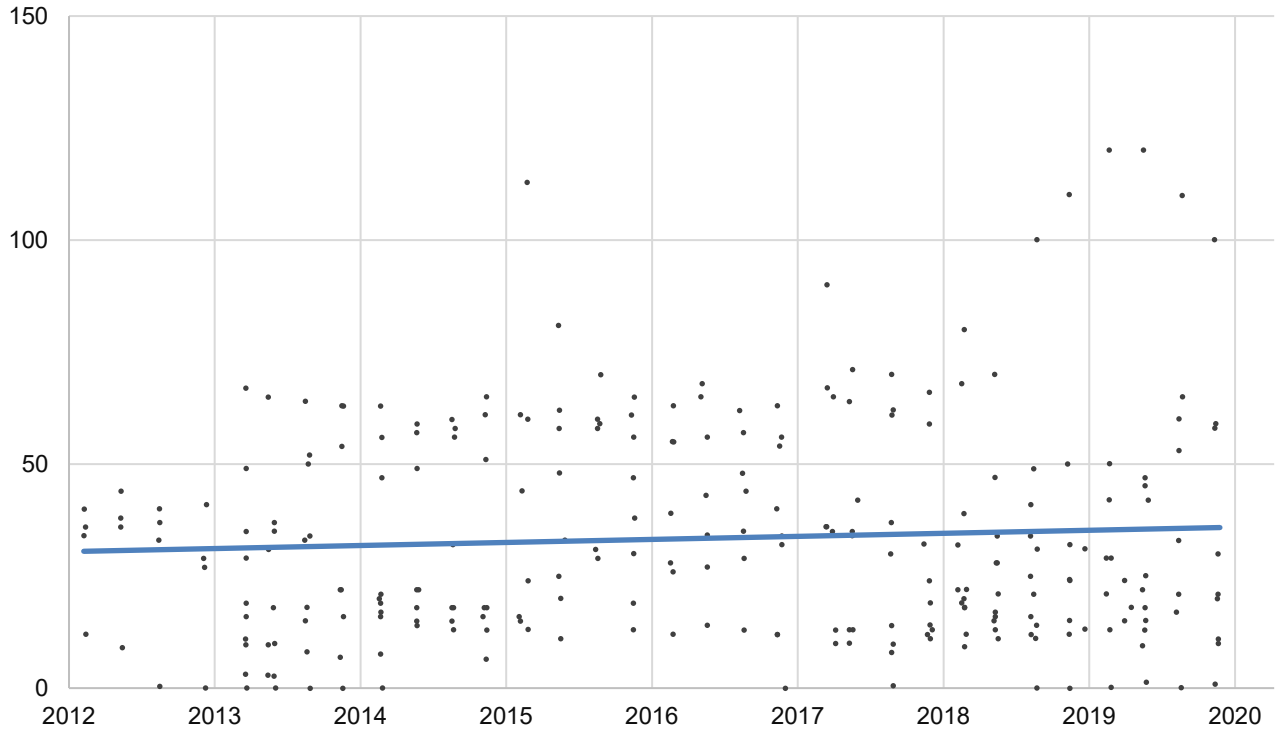

Figure 4.3.1.3i: TN concentrations, light soil wells with offsite source areas (p=0.30)

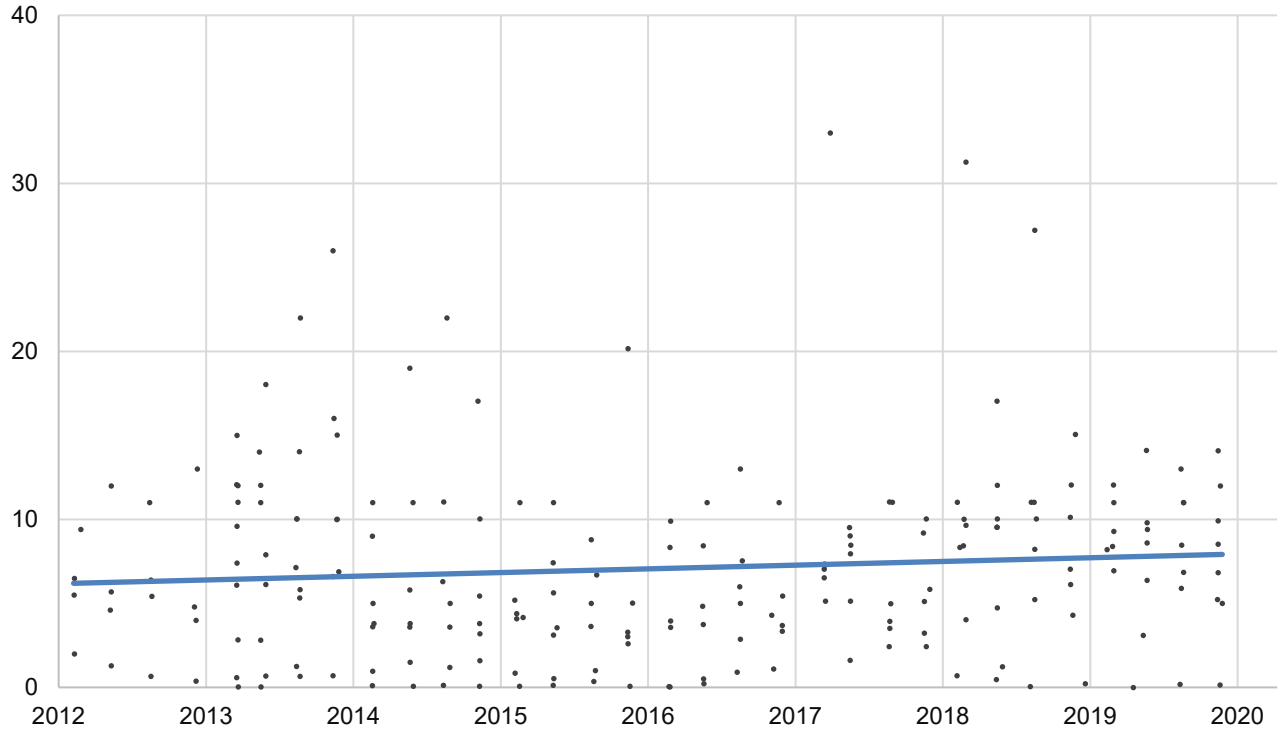

Figure 4.3.1.3j: TN concentrations, heavy soil wells with offsite source areas (p=0.19)

Management Unit Group Of the three management units, the slope coefficient of F(All) (i.e., 0.0038) was most similar to the Comprehensive (All) subgroup. This is consistent with the fact that field wells contribute the largest subset of data points. L(All) exhibits a relatively steep slope coefficient of 0.0104 (i.e., an 8-year trend of 30 mg/L). This slope is strongly affected by six extreme values (exceeding 400 mg/L) in 2017 and 2018 and three very high concentrations in 2018 and 2019 (exceeding 280 mg/L); all associated with the same well. Without these nine values, the slope coefficient is reduced to 0.0016. AH(All) exhibited stable conditions (i.e., slope coefficient is not significant at α=0.1). Coefficients of determination communicate very poor goodness of fit for all subgroups ($r^2 \leq 0.01$) indicating that 99% or more of the variability is not explained by the independent variable. Trend lines are depicted in **Figures 4.3.1.3k, m, n**.

2019 annual mean concentrations were the highest for lagoons (62 mg/L) and the lowest for animal housing (38 mg/L). The mean for the lagoon wells is strongly affected by a few extreme values and outliers as exhibited by the much smaller median of 30 mg/L. The Field subgroup had an annual mean concentration of 42 mg/L.

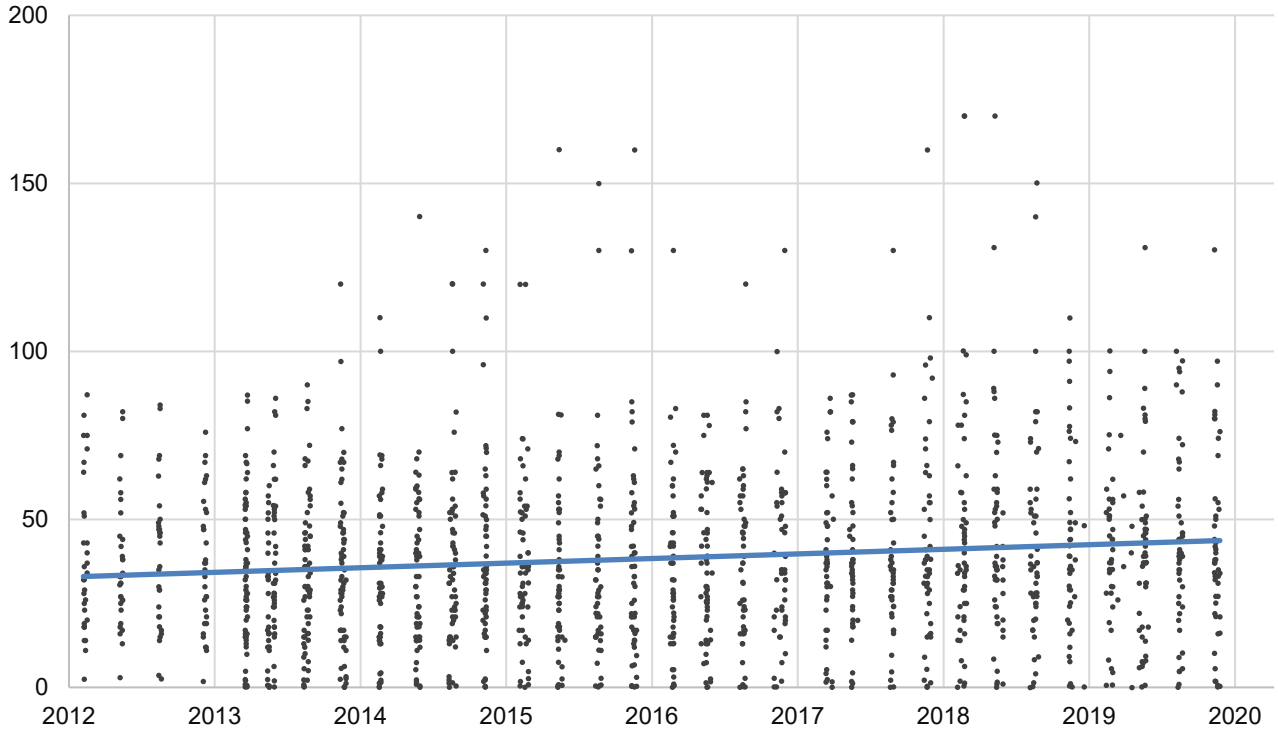

Figure 4.3.1.3k: TN concentrations, fields (1 concentration >200 mg/L is not shown), p=<0.01

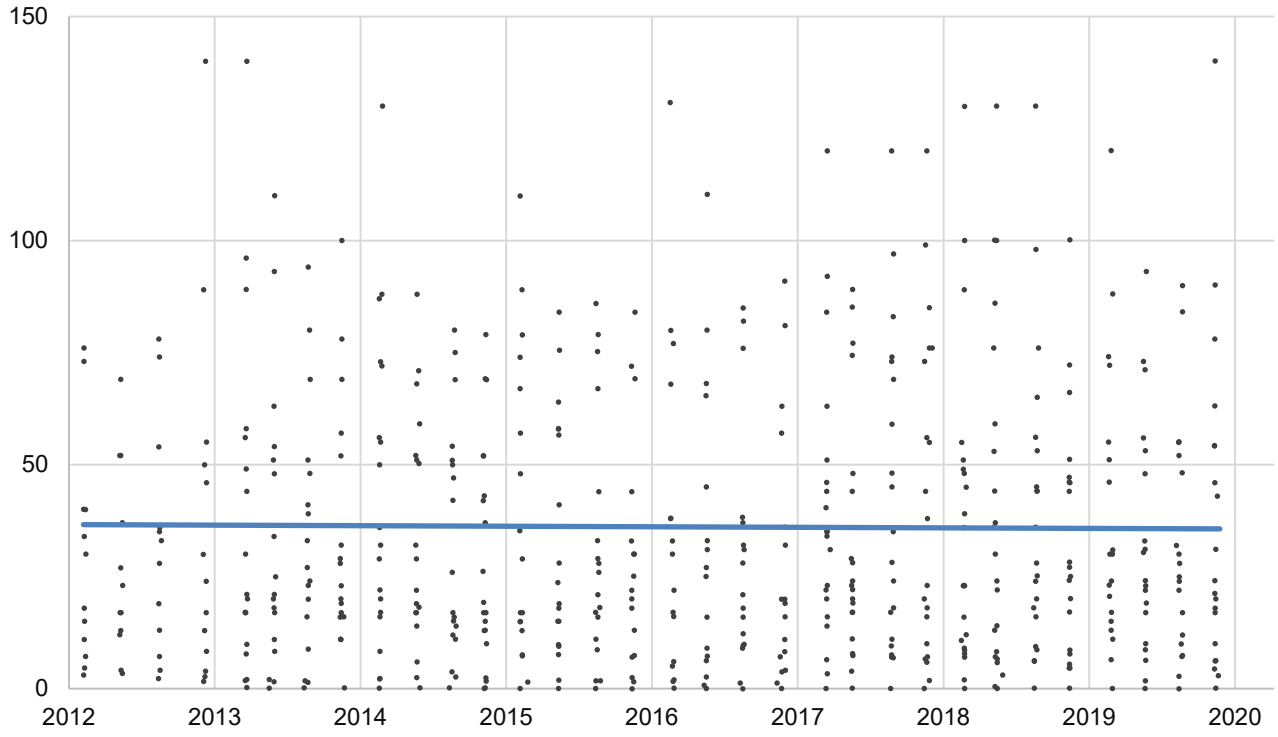

Figure 4.3.1.3m: TN concentrations, animal housing (4 concentrations >150 mg/L are not shown), p=0.85

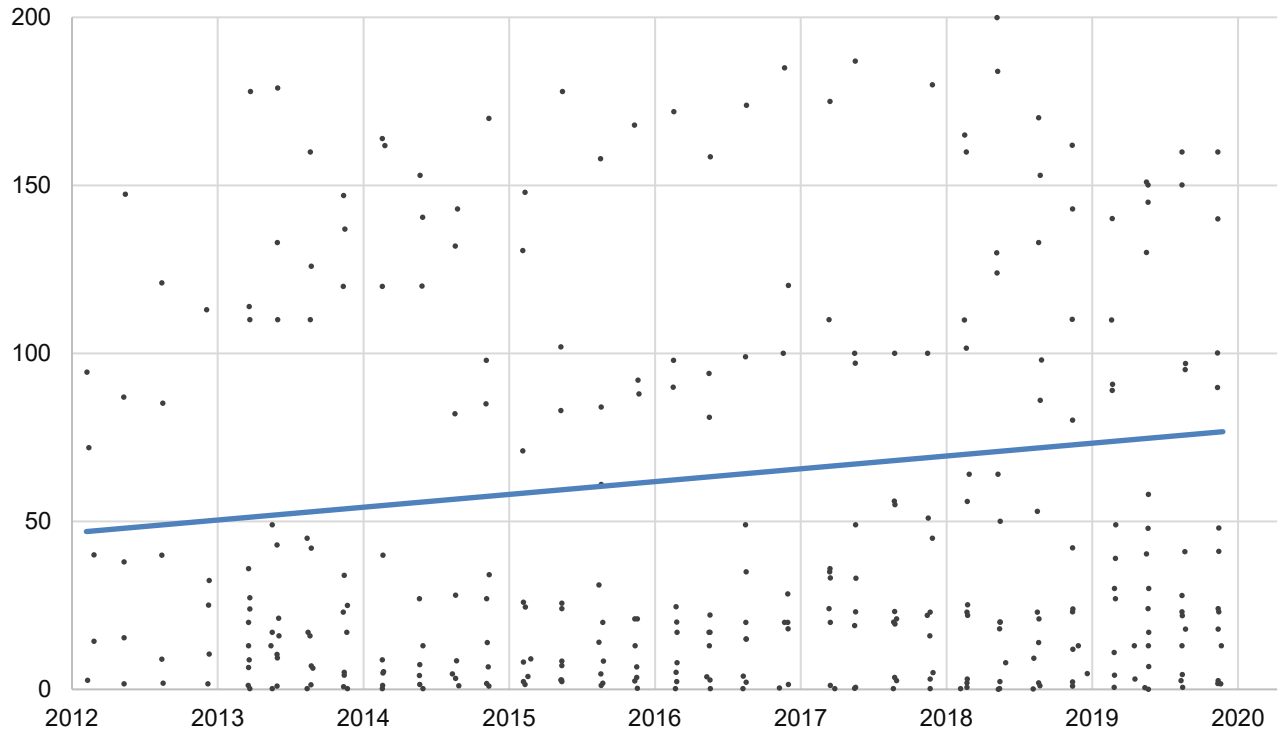

Figure 4.3.1.3n: TN concentrations, lagoons (16 concentrations >200 mg/L are not shown), p=0.07

4.4 Summary

1. RMP observations confirm that first encountered groundwater is affected by historical and/or current dairy farming practices. With few exceptions, nitrate-N concentrations beneath lagoons, animal housing, and crop fields are greater than 10 mg/L.
2. Ordinary least squares regression (OLSR) analysis of 257 individual total nitrogen (TN) data sets (quarterly observations from the first quarter 2012 to the third quarter 2019) from CVDRMP's dedicated monitoring wells indicates the following groundwater TN concentration trends:
    a. 34% (88 data sets) increasing
    b. 26% (63 data sets) decreasing
    c. 41% stable conditions (106 data sets)
3. OLSR was applied to seven different data sets: (i) the full data set of quarterly results; (ii) two reduced data sets, each composed of only half of the data (i.e., data from the first and third quarters (Q1/Q3) and data from the second and fourth quarters (Q2/Q4)), and (iii) quarterly data (Q1, Q2, Q3, and Q4). Trend analyses for the partial data sets produced very similar results to the full data set. There was no systematic bias introduced (e.g., due to seasonal filtering). Spring data (i.e., Q2) were particularly consistent in yielding similar results to the full data set.
4. Aggregated data from all monitoring wells with onsite source areas indicate that TN concentrations beneath dairies exhibit an increasing trend (i.e., 13 mg/L between 2012 and 2019). This trend is

nearly the same in shallow (≤55 ft, bgs), light and heavy soil wells, with 8-year concentration increases of 14, 12, and 15 mg/L, respectively. The statistical significance is high in these cases ($p<0.01$). TN concentration increase was smaller in the deep wells (5.7 mg/L since 2012; $p=0.10$).

5. The 2019 mean TN concentration across all dairies was 46 mg/L; it was the highest in light soils and in shallow groundwater (55 and 49 mg/L, respectively); and 33 mg/L in both deep groundwater and heavy soils.
6. TN concentrations associated with offsite wells increased at approximately half the rate than the Onsite Group All (i.e., 6.6 mg/L from 2012 to 2019 compared to 13 mg/L), and the 2019 mean was approximately half that of onsite wells (24 mg/L compared to 46 mg/L).
7. Of the three management units, the 2012-2019 TN concentration increase in wells associated with fields was similar to the Comprehensive (All) subgroup (11 mg/L compared to 13 mg/L). This is consistent with the fact that field wells contribute the largest subset of data points. Groundwater near lagoons exhibited the greatest concentration increase over the 8-year monitoring period (30 mg/L; $p=0.02$). However, this trend was strongly affected by nine outliers (i.e., nine observations out of 340 observations, all associated with a single well). The removal of the outliers reduces the slope coefficient to 0.0016 (i.e., 4.7 mg/L over 8 years). TN concentrations associated with animal housing held steady ($p=0.85$)
8. 2019 mean TN concentrations were 62, 42, and 38 mg/L for wells associated with lagoons, fields, and animal housing, respectively. The mean for the lagoon wells was strongly affected by nine outliers as indicated by a much smaller median of 30 mg/L (compared to 40 and 25 mg/L for field and animal housing wells, respectively).

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Tables

Table 2-1
Monitored CVDRMP Dairies
Central Valley Dairy Representative Monitoring Program – Year 8 Annual Report

Dairy Farm	ID	County	Address	City, State, Zip Code
Central Area – East Side				
Albert Mendes Dairy	MEN	Stanislaus	1100 Ruble Road	Crows Landing, CA 95313
Anchor J. Dairy	ANC	Merced	24507 First Avenue	Stevinson, CA 95374
Bettencourt and Marson Dairy	BET	Merced	18128 American Avenue	Hilmar, CA 95324
Diepersloot Ranch (Capstone)	DIE	Madera	14303 Avenue 14	Madera, CA 93637
Durrer Dairy	DUR	Stanislaus	8861 Beckwith Road	Modesto, CA 95358
Frank J. Gomes Dairy #1 (1)	FG1	Merced	5301 North DeAngelis Road	Stevinson, CA 95374
Bear Creek Dairy (Wickstrom) (2)	BEA	Merced	15751 West Highway 140	Livingston, CA 95334
Gallo Cattle Company Cottonwood Dairy	COT	Merced	10561 Highway 140	Atwater, CA 95301
Gallo Cattle Company Santa Rita Dairy	SAN	Merced	91 South Bert Crane	Atwater, CA 95301
Genasci Dairy	GEN	Stanislaus	6555 Blue Gum Avenue	Modesto, CA 95358
J. Troost Dairy	TRO	Madera	24868 Road 9	Chowchilla, CA 93610
P. and L. Souza Dairy (Crane Dairy) (3)	PLS	Merced	20633 Crane Avenue	Hilmar, CA 95324
Paul Caetano Dairy	CAE	Merced	9436 Griffith Avenue	Delhi, CA 95315
Robert Gioletti and Sons Dairy	ROB	Stanislaus	118 North Blaker Road	Turlock, CA 95380
Woods Dairy	WOO	San Joaquin	14250 North DeVries Road	Lodi, CA 95242
Central Area – West Side				
Antone L. Gomes and Sons Dairy	ANT	Stanislaus	515 East Stuhr Road	Newman, CA 95360
Correia Family Dairy Farms	COR	Merced	26380 West Fahey Road	Gustine, CA 95322
Frank J. Gomes Dairy #2 (Hidden Valley)	FG2	Merced	870 Kniebes Road	Gustine, CA 95322
Godinho Dairy	GOD	Merced	12710 South Wilson Road	Los Banos, CA 93635
John Machado Dairy	MAC	Merced	22495 West China Camp Road	Los Banos, CA 93635
Jose Nunes Dairy	NUN	Merced	22484 West China Camp Road	Los Banos, CA 93635
Moonshine Dairy	MOO	Stanislaus	22922 Kilburn Road	Crows Landing, CA 95313
Tony L. Lopes Dairy L.P.	TON	Merced	27500 Bunker Road	Gustine, CA 95322
North Area				
Brentwood Farms	BRE	Tehama	24555 Clark Avenue	Orland, CA 95963
Creekside Silveira Dairy	CRE	Glenn	6259 County Road 25	Orland, CA 95963
MTSJ Dairy LP	MTS	Glenn	6916 Coounty Road 30	Orland, CA 95963
South Area				
Aukeman Farms	AUK	Tulare	17297 Road 96	Tulare, CA 93274
Dairyland Farms	DLF	Tulare	15982 Road 152	Tipton, CA 93272
Elkhorn Dairy	ELK	Tulare	10400 Avenue 368	Visalia, CA 93292
Giacomazzi Dairy (4)	ZZI	Kings	9624 6th Avenue	Hanford, CA 93230
Holstein Farms Dairy	HOL	Tulare	4315 Avenue 176	Tulare, CA 93274
Hynes Dairy	HYN	Tulare	4497 North Colpien Road	Tulare, CA 93274
J & A Dairy	JAD	Tulare	12212 Avenue 176	Tulare, CA 93274
Longfellow Farming Co. (High Roller)	LON	Kings	14782 8th Avenue	Hanford, CA 93230
Machado Dairy (5)	ADO	Fresno	4423 West Central Avenue	Fresno, CA 93706
Manuel and Alda Lawrence Dairy	MAL	Kings	12871 Kent Avenue	Hanford, CA 93230
Maple Avenue Dairy	MAP	Fresno	19680 South Maple Avenue	Laton, CA 93242

Table 2-1
Monitored CVDRMP Dairies
Central Valley Dairy Representative Monitoring Program – Year 8 Annual Report

Dairy Farm	ID	County	Address	City, State, Zip Code
Zonneveld Dairy Complex	ZON	Fresno	1560 Cerini Avenue	Laton, CA 93242
Richmar Farms Dairy	RIC	Kern	1129 East Shafter Road	Bakersfield, CA 93307
Sierra View Dairy	SIE	Tulare	13376 Avenue 224	Tulare, CA 93274
Sozinho Dairy #2	SO2	Fresno	8489 East Elkhorn Avenue	Selma, CA 93662
Sozinho Jerseys (Leonardo Bros. #2) (6)	SOJ	Fresno	4877 East Mountain View Avenue	Selma, CA 93662

Original dairy names are used throughout this report (name changes indicated for completeness in parentheses).

(1) Dairy closed in 2015 and milk cows were removed. Row crops were replaced with almonds in 2016. Animal housing continues to be used for heifers.

(2) Dairy converted to a calf and heifer ranch in 2013.

(3) Dairy sold cows early 2019 and converted to non-animal agriculture.

(4) Dairy sold cows in October 2019 and converted to non-animal agriculture.

(5) Dairy closed in 2013 and converted to non-animal agriculture.

(6) Dairy closed in 2017.

Table 2-2
Well Inventory by Dairy
Central Valley Dairy Representative Monitoring Program – Year 8 Annual Report

CVDRMP Area	Dairy	No. of MW Locations (1)			--- No. of Individual MWs (2) --- at Nested Locations		for GWQ Sampling (3)	---------- Source Area (4) ---------- Animal					No
		Single	Nested	Total		Total		Lagoon	Housing	Fields	Mixed	Off Site	Sample
Central Area – East Side	MEN	0	8	**8**	16	16	**8**	0	2	4	2	0	0
	ANC	4	3	**7**	6	10	**7**	1	2	0	3	1	0
	BET	0	8	**8**	16	16	**8**	0	0	4	4	0	0
	DIE	4	0	**4**	0	4	**4**	1	0	1	2	0	0
	DUR	8	1	**9**	2	10	**9**	1	1	3	4	0	0
	FG1	0	9	**9**	18	18	**9**	0	2	5	1	1	0
	BEA	2	4	**6**	8	10	**4**	1	2	0	1	0	0
	COT	11	4	**15**	8	19	**14**	1	1	3	3	0	6
	SAN	0	8	**8**	16	16	**8**	0	0	5	1	0	2
	GEN	9	2	**11**	4	13	**11**	1	1	0	9	0	0
	TRO	3	0	**3**	0	3	**3**	0	1	1	0	1	0
	PLS	0	7	**7**	14	14	**7**	0	1	2	3	1	0
	CAE	0	6	**6**	12	12	**6**	1	1	2	1	1	0
	ROB	0	8	**8**	16	16	**8**	2	1	2	2	1	0
	WOO	3	0	**3**	0	3	**3**	0	0	1	1	1	0
Central Area West Side	ANT	0	6	**6**	12	12	**6**	0	2	2	2	0	0
	COR	0	5	**5**	10	10	**5**	1	2	0	0	2	0
	FG2	0	5	**5**	10	10	**5**	0	1	3	1	0	0
	GOD	0	7	**7**	14	14	**7**	0	1	3	2	1	0
	MAC	0	5	**5**	10	10	**5**	2	0	1	2	0	0
	NUN	0	5	**5**	10	10	**5**	0	1	1	3	0	0
	MOO	4	4	**8**	8	12	**8**	2	1	2	2	1	0
	TON	0	8	**8**	16	16	**8**	0	0	0	7	1	0
North Area	BRE	2	2	**4**	4	6	**3**	0	0	1	1	1	0
	CRE	0	3	**3**	6	6	**3**	0	0	3	0	0	0
	MTS	1	2	**3**	4	5	**3**	0	0	2	1	0	0
South Area	AUK	3	0	**3**	0	3	**3**	0	0	1	2	0	0
	DLF	6	3	**9**	7	13	**6**	0	0	2	2	0	2
	ELK	6	0	**6**	0	6	**4**	0	0	0	0	0	4
	ZZI	9	6	**15**	18	27	**7**	1	1	2	3	0	0
	HOL	3	0	**3**	0	3	**3**	0	0	0	1	1	1
	HYN	3	0	**3**	0	3	**3**	0	0	0	0	0	3
	JAD	3	4	**7**	8	11	**7**	0	0	2	3	0	2
	LON	7	7	**14**	16	23	**7**	0	0	1	4	0	2
	ADO	0	2	**2**	4	4	**2**	dairy & lagoons dismantled in 2013				2	0
	MAL	8	0	**8**	0	8	**8**	0	0	4	4	0	0
	MAP	3	0	**3**	0	3	**3**	0	0	0	0	1	2
	ZON	4	4	**8**	8	12	**6**	0	0	1	0	1	4
	RIC	6	3	**9**	6	12	**6**	1	0	4	0	1	0
	SIE	4	0	**4**	0	4	**4**	0	0	0	0	2	2
	SO2	4	4	**8**	8	12	**8**	0	0	0	0	0	8
	SOJ	4	2	**6**	4	8	**6**	0	0	0	0	0	6
SUM Central		48	113	**161**	-	274	**158**	14	23	45	56	12	8
SUM North		3	7	**10**	-	17	**9**	0	0	6	2	1	0
SUM South		73	35	**108**	-	152	**83**	2	1	17	19	8	36
TOTAL		124	155	**279**	-	443	**250**	16	24	68	77	21	44

(1) Monitoring well location refers to a borehole in which a well or wells were constructed. A nested MW location is a location where more than one well was constructed in the borehole.

(2) This is the number of well casings and equals the number of data collection points for monthly depth-to-water readings.

(3) In most cases, the number of MWs in which groundwater quality (GWQ) samples are collected equals the number of MW locations. Exceptions are dairies that have well clusters (i.e., two or more adjacent wells).

(4) The primary source area is assigned annually based on the evaluation of groundwater conditions and applies to the shallowest well of the 250 sampling locations. *Mixed* indicates a source area that cannot be uniquely assigned to one management unit.

Table 2-3
Well Construction Details
Central Valley Dairy Representative Monitoring Program – Year 8 Annual Report

Well Name	Date Installed	Driller (a)	Drilling Oversight (a)	Borehole Diameter (inches)	Screen Intervals Installed by CVDRMP (Shallow) (feet, bgs)	Screen Intervals Installed by CVDRMP (Deep) (feet, bgs)	Screen Intervals Previously Existing Wells (feet, bgs)	Screen Slot Size (inches)	Surface Seal (feet, bgs)	Fine Sand Transition Seal (feet, bgs)	Bentonite Seal (feet, bgs)	Sand Pack (feet, bgs) (b)	Wellhead Type	Casing
Central Area – East Side														
Albert Mendes Dairy														
MEN-MW1	11/01/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	post	(d)
MEN-MW2	11/01/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	post	(d)
MEN-MW3	11/01/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	post	(d)
MEN-MW4	11/01/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	post	(d)
MEN-MW5	11/01/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	post	(d)
MEN-MW6	11/01/11	WD	LSCE	10	5-20	23-38	n/a	0.030	0-3	3-4	21-22	(c)	post	(d)
MEN-MW7	11/01/11	WD	LSCE	10	5-20	23-38	n/a	0.030	0-3	3-4	21-22	(c)	post	(d)
MEN-MW8	10/20/14	PC	LSCE	12	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	post	(d)
Anchor J. Dairy▪														
ANC-MW1	03/29/94	SEI	SEI	6.75	n/a	n/a	15-25	0.020	0-5.5	n/a	5.5-9	9-30	post	(f)
ANC-MW2	03/29/94	SEI	SEI	6.75	n/a	n/a	25-35	0.020	0-7	n/a	7-11	11-39	flush	(f)
ANC-MW3	03/29/94	SEI	SEI	6.75	n/a	n/a	15-25	0.020	0-6.5	n/a	6.5-9.5	9.5-29	post	(f)
ANC-MW4	03/29/94	SEI	SEI	6.75	n/a	n/a	25-35	0.020	0-9.5	n/a	9.5-12	12-39	flush	(f)
ANC-MW5	10/28/11	WD	LSCE	10	10-25	28-43	n/a	0.030	0-5	5-6	26-27	(c)	post	(d)
ANC-MW6	10/28/11	WD	LSCE	10	10-25	28-43	n/a	0.030	0-5	5-6	26-27	(c)	post	(d)
ANC-MW7	10/28/11	WD	LSCE	10	10-25	28.5-43.5	n/a	0.030	0-5	5-6	26-27	(c)	post	(d)
Bettencourt and Marson Dairy														
BET-MW1	10/04/11	WD	LSCE	10	10-20	23-33	n/a	0.030	0-5	5-6	21-22	(c)	post	(d)
BET-MW2	10/04/11	WD	LSCE	10	4-14	18-28	n/a	0.030	0-3	3-4	14-15	(c)	post	(d)
BET-MW3	10/04/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-4	4-5	16-17	(c)	post	(d)
BET-MW4	10/05/11	WD	LSCE	10	5-20	23-38	n/a	0.030	0-4	4-5	21-22	(c)	post	(d)
BET-MW5	10/03/11	WD	LSCE	10	10-25	30-45	n/a	0.030	0-5	5-6	26-27	(c)	post	(d)
BET-MW6	10/03/11	WD	LSCE	10	10-25	30-45	n/a	0.030	0-5	5-6	26-27	(c)	post	(d)
BET-MW7	10/03/11	WD	LSCE	10	10-25	30-45	n/a	0.030	0-5	5-6	26-27	(c)	post	(d)
BET-MW8	10/04/11	WD	LSCE	10	10-25	30-45	n/a	0.030	0-5	5-6	26-27	(c)	post	(d)
Diepersloot Ranch▼														
DIE-MW1	12/08/03	TL	EE	8	n/a	none	90-120	0.020	0-83	n/a	83-87	87-120	post	(e)
DIE-MW2	12/03/03	TL	EE	8	n/a	none	100-130	0.020	0-95	n/a	95-98	98-130	post	(e)
DIE-MW3	12/04/03	TL	EE	8	n/a	none	90-120	0.020	0-85	n/a	85-88	88-120	post	(e)
DIE-MW4	10/26/05	BSK	BSK	8	n/a	none	88-118	0.020	0-83	n/a	83-85	85-118	post	2"-PVC
Durrer Dairy▼														
DUR-MW1	06/03/93	LW	URS	8	n/a	n/a	6-21	0.010	0-2	n/a	2-4	4-23	post	(e)
DUR-MW2	06/03/93	LW	URS	8	n/a	n/a	6-21	0.010	0-2	n/a	2-4	4-23	post	(e)

Table 2-3
Well Construction Details
Central Valley Dairy Representative Monitoring Program – Year 8 Annual Report

Well Name	Date Installed	Driller (a)	Drilling Oversight (a)	Borehole Diameter (inches)	- - - - - Screen Intervals - - - - - Installed by - - - CVDRMP - - - (Shallow) (feet, bgs)	(Deep) (feet, bgs)	Previously Existing Wells (feet, bgs)	Screen Slot Size (inches)	Surface Seal (feet, bgs)	Fine Sand Transition Seal (feet, bgs)	Bentonite Seal (feet, bgs)	Sand Pack (feet, bgs) (b)	Wellhead Type	Casing
DUR-MW3	06/03/93	LW	URS	8	n/a	n/a	6-21	0.010	0-2	n/a	2-4	4-23	post	(e)
DUR-MW4	06/04/93	LW	URS	8	n/a	n/a	6-21	0.010	0-2	n/a	2-4	4-23	post	(e)
DUR-MW6	06/08/93	LW	URS	8	n/a	n/a	6-21	0.010	0-2	n/a	2-4	4-23	flush	(e)
DUR-MW7	06/03/93	LW	URS	8	n/a	n/a	6-20.5	0.010	0-2	n/a	2-4	4-23	post	(e)
DUR-MW8	06/08/93	LW	URS	8	n/a	n/a	6.5-21.5	0.010	0-4	n/a	4-6	6-23	post	(e)
DUR-MW9	06/02/93	LW	URS	8	n/a	n/a	6-21	0.010	0-2	n/a	2-4	4-23	flush	(e)
DUR-MW10	10/4/12	C	LSCE	12	5-20	30-40	n/a	0.030	0-3	3-4	21-28	4-21, 28-42 [42]	post	(d)
Frank J. Gomes Dairy #1														
FG1-MW1	10/28/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	post	(d)
FG1-MW2	10/27/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	post	(d)
FG1-MW3	10/28/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	post	(d)
FG1-MW4	10/27/11	WD	LSCE	10	5-20	23-38	n/a	0.030	0-3	3-4	21-22	(c)	post	(d)
FG1-MW5	10/26/11	WD	LSCE	10	5-20	23-38	n/a	0.030	0-3	3-4	21-22	(c)	post	(d)
FG1-MW6	10/26/11	WD	LSCE	10	5-20	23-38	n/a	0.030	0-3	3-4	21-22	(c)	post	(d)
FG1-MW7	10/26/11	WD	LSCE	10	5-25	28-43	n/a	0.030	0-3	3-4	26-27	(c)	post	(d)
FG1-MW8	10/27/11	WD	LSCE	10	5-20	23-38	n/a	0.030	0-3	3-4	21-22	(c)	post	(d)
FG1-MW9	10/27/11	WD	LSCE	10	5-20	23-38	n/a	0.030	0-3	3-4	21-22	(c)	post	(d)
Gallo Cattle Company Bear Creek														
BEA-MW1	10/21/11	WD	LSCE	10	10-25	28-38	n/a	0.030	0-5	5-6	26-27	(c)	post	(d)
BEA-MW1dd	10/14/14	PC	LSCE	8	none	45-55	n/a	0.030	0-42	42-43	none	(c)	post	(d)
BEA-MW2	10/24/11	WD	LSCE	10	10-25	28-38	n/a	0.030	0-4	4-5	26-27	(c)	post	(d)
BEA-MW2dd	10/13/14	PC	LSCE	8	none	42-52	n/a	0.030	0-39	39-40	none	(c)	post	(d)
BEA-MW3	10/24/11	WD	LSCE	10	10-25	28-38	n/a	0.030	0-5	5-6	26-27	(c)	post	(d)
BEA-MW4	10/21/11	WD	LSCE	10	22-37	40-55	n/a	0.030	0-5	5-6	38-39	(c)	post	(d)
Gallo Cattle Company Cottonwood■														
COT-MW1	09/21/04	EGeo	ECA	8	n/a	none	15-30	0.010	0-10	n/a	10-13	13-30	post	(f)
COT-MW1d	10/15/14	PC	LSCE	8	none	35-50	n/a	0.030	0-32	32-33	none	(c)	post	(d)
COT-MW2	09/21/04	EGeo	ECA	8	n/a	none	20-35	0.010	0-14.5	n/a	14.5-17.5	17.5-35	post	(f)
COT-MW3	09/22/04	EGeo	ECA	8	n/a	none	15-30	0.010	0-10	n/a	10-13	13-30	post	(f)
COT-MW4	09/21/04	EGeo	ECA	8	n/a	none	10-25	0.010	0-5	n/a	5-8	8-25	post	(f)
COT-MW5	09/21/04	EGeo	ECA	8	n/a	none	8-23	0.010	0-3	n/a	3-6	6-23	post	(f)
COT-MW6	09/21/04	EGeo	ECA	8	n/a	none	8-23	0.010	0-3	n/a	3-6	6-23	post	(f)
COT-MW7	09/22/04	EGeo	ECA	8	n/a	none	10-25	0.010	0-5	n/a	5-8	8-25	post	(f)
COT-MW8	09/22/04	EGeo	ECA	8	n/a	none	12-22	0.010	0-7	n/a	7-10	10-22	post	(f)
COT-MW9	09/22/04	EGeo	ECA	8	n/a	none	10-25	0.010	0-5	n/a	5-8	8-25	post	(f)
COT-MW10	09/22/04	EGeo	ECA	8	n/a	none	10-20	0.010	0-5	n/a	5-8	8-20	post	(f)

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Well Construction Details
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Well Name	Date Installed	Driller (a)	Drilling Oversight (a)	Borehole Diameter (inches)	Screen Intervals Installed by CVDRMP (Shallow) (feet, bgs)	Screen Intervals Installed by CVDRMP (Deep) (feet, bgs)	Previously Existing Wells (feet, bgs)	Screen Slot Size (inches)	Surface Seal (feet, bgs)	Fine Sand Transition Seal (feet, bgs)	Bentonite Seal (feet, bgs)	Sand Pack (feet, bgs) (b)	Wellhead Type	Casing
COT-MW11	10/24/11	WD	LSCE	10	15-25	28-38	n/a	0.030	0-4	4-5	26-27	(c)	post	(d)
COT-MW12	10/24/11	WD	LSCE	10	10-30	33-48	n/a	0.030	0-5	5-6	31-32	(c)	post	(d)
COT-MW13	10/24/11	WD	LSCE	10	10-30	33-48	n/a	0.030	0-5	5-6	31-32	(c)	post	(d)
COT-MW14	10/24/11	WD	LSCE	10	10-30	33-48	n/a	0.030	0-5	5-6	31-32	(c)	post	(d)
Gallo Cattle Company Santa Rita														
SAN-MW1	10/25/11	WD	LSCE	10	8-23	28-43	n/a	0.030	0-5	5-6	26-27	(c)	post	(d)
SAN-MW2	10/25/11	WD	LSCE	10	10-25	28-43	n/a	0.030	0-5	5-6	26-27	(c)	post	(d)
SAN-MW3	10/25/11	WD	LSCE	10	10-25	28-43	n/a	0.030	0-5	5-6	26-27	(c)	post	(d)
SAN-MW4	10/25/11	WD	LSCE	10	10-30	33-53	n/a	0.030	0-5	5-6	31-32	(c)	post	(d)
SAN-MW5	10/26/11	WD	LSCE	10	10-30	33-53	n/a	0.030	0-5	5-6	31-32	(c)	post	(d)
SAN-MW6	10/25/11	WD	LSCE	10	10-25	28-43	n/a	0.030	0-5	5-6	26-27	(c)	post	(d)
SAN-MW7	10/26/11	WD	LSCE	10	10-30	33-53	n/a	0.030	0-5	5-6	31-32	(c)	flush	(d)
SAN-MW8	10/26/11	WD	LSCE	10	10-25	28-43	n/a	0.030	0-5	5-6	26-27	(c)	flush	(d)
Genasci Dairy Inc.▼														
GEN-MW1	06/15/93	LW	URS	8	n/a	n/a	13-28	0.010	0-8	n/a	8-10	10-28	post	(e)
GEN-MW2	06/15/93	LW	URS	8	n/a	n/a	12-27	0.010	0-8	n/a	8-10	10-27	flush	(e)
GEN-MW3	06/16/93	LW	URS	8	n/a	n/a	10-25	0.010	0-6	n/a	6-8	8-26	post	(e)
GEN-MW4	06/15/93	LW	URS	8	n/a	n/a	13-28	0.010	0-9	n/a	9-11	11-29	post	(e)
GEN-MW5	06/10/93	LW	URS	8	n/a	n/a	13-28	0.010	0-9	n/a	9-11	11-28	post	(e)
GEN-MW6	06/10/93	LW	URS	8	n/a	n/a	14-29	0.010	0-10	n/a	10-12	12-30	post	(e)
GEN-MW7	06/09/93	LW	URS	8	n/a	n/a	14-29	0.010	0-10	n/a	10-12	12-30	post	(e)
GEN-MW8	06/14/93	LW	URS	8	n/a	n/a	15-30	0.010	0-11	n/a	11-13	13-30	post	(e)
GEN-MW9	06/11/93	LW	URS	8	n/a	n/a	12-26.5	0.010	0-8	n/a	8-10	10-27	post	(e)
GEN-MW10	06/11/93	LW	URS	8	n/a	n/a	12-27	0.010	0-8	n/a	8-10	10-27	post	(e)
GEN-MW11	10/03/12	C	LSCE	12	10-25	30-40 [41]	n/a	0.030	0-8	8-9	25-29	9-25, 29-41 [41]	post	(d)
GEN-MW12	10/03/12	C	LSCE	12	10-20	25-35	n/a	0.030	0-8	8-9	21-24	9-21, 24-35 [35]	post	(d)
P. & L. Souza Dairy														
PLS-MW1	10/06/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	post	(d)
PLS-MW2	10/10/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	post	(d)
PLS-MW3	10/10/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	flush	(d)
PLS-MW4	10/06/11	WD	LSCE	10	5-20	25-30	n/a	0.030	0-3	3-4	21-22	(c)	post	(d)
PLS-MW5	10/10/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	flush	(d)
PLS-MW6	10/06/11	WD	LSCE	10	4.5-19.5	25-40	n/a	0.030	0-3	3-4	22-23	(c)	post	(d)
PLS-MW7	10/06/11	WD	LSCE	10	5-20	23-38	n/a	0.030	0-3	3-4	21-22	(c)	post	(d)

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Well Name	Date Installed	Driller (a)	Drilling Oversight (a)	Borehole Diameter (inches)	Screen Intervals Installed by CVDRMP (Shallow) (feet, bgs)	Screen Intervals Installed by CVDRMP (Deep) (feet, bgs)	Previously Existing Wells (feet, bgs)	Screen Slot Size (inches)	Surface Seal (feet, bgs)	Fine Sand Transition Seal (feet, bgs)	Bentonite Seal (feet, bgs)	Sand Pack (feet, bgs) (b)	Wellhead Type	Casing
Paul Caetano Dairy														
CAE-MW1	10/05/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	post	(d)
CAE-MW2	10/05/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	post	(d)
CAE-MW3	10/05/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	post	(d)
CAE-MW4	10/05/11	WD	LSCE	10	5-20	23-38	n/a	0.030	0-4	4-5	21-22	(c)	post	(d)
CAE-MW5	10/10/11	WD	LSCE	10	5-20	23-38	n/a	0.030	0-3	3-4	21-22	(c)	post	(d)
CAE-MW6	11/03/11	WD	LSCE	10	5-20	23-38	n/a	0.030	0-3	3-4	21-22	(c)	post	(d)
Robert Gioletti and Sons Dairy														
ROB-MW1	11/02/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	post	(d)
ROB-MW2	11/02/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	post	(d)
ROB-MW3	11/02/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	post	(d)
ROB-MW4	11/02/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	post	(d)
ROB-MW5	11/03/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	flush	(d)
ROB-MW6	11/02/11	WD	LSCE	10	5-25	28-43	n/a	0.030	0-3	3-4	26-27	(c)	post	(d)
ROB-MW7	11/02/11	WD	LSCE	10	5-25	28-43	n/a	0.030	0-3	3-4	26-27	(c)	post	(d)
ROB-MW8	11/02/11	WD	LSCE	10	5-25	28-43	n/a	0.030	0-3	3-4	26-27	(c)	post	(d)
Troost Dairy▼														
TRO-MW1	Apr-95	-	ASA	8.5	n/a	n/a	60-90	0.020	0-55	n/a	55-58	58-90	post	3"-PVC
TRO-MW2	12/06/05	TES	URS	8.5	n/a	n/a	83-113	0.020	0-72	n/a	72-76	76-113	post	(e)
TRO-MW3	12/05/05	TES	URS	8.5	n/a	n/a	85-115	0.020	0-76	n/a	76-79	79-115	post	(e)
Woods Dairy▼														
WOO-MW1	06/02/10	AWA	DE	8	n/a	n/a	38-53	0.010	0-34	n/a	34-36	36-55	post	(e)
WOO-MW2	06/02/10	AWA	DE	8	n/a	n/a	38-53	0.010	0-34	n/a	34-36	36-55	post	(e)
WOO-MW3	06/03/10	AWA	DE	8	n/a	n/a	39.5-54.5	0.010	0-36	n/a	36-37.5	37.5-60.5	post	(e)
Central Area – West Side														
Antone L. Gomes and Sons Dairy														
ANT-MW1	10/20/11	WD	LSCE	10	8.5-18.5	23-33	n/a	0.030	0-5	5-6	21-22	(c)	post	(d)
ANT-MW2	10/12/11	WD	LSCE	10	15-30	33-48	n/a	0.030	0-9	9-10	31-32	(c)	post	(d)
ANT-MW3	10/12/11	WD	LSCE	10	15-30	33-48	n/a	0.030	0-6	6-7	31-32	(c)	post	(d)
ANT-MW4	10/12/11	WD	LSCE	10	15-30	33-48	n/a	0.030	0-6	6-7	31-32	(c)	post	(d)
ANT-MW5	10/12/11	WD	LSCE	10	10-30	33-53	n/a	0.030	0-6	6-7	31-32	(c)	post	(d)
ANT-MW6	10/12/11	WD	LSCE	10	10-30	33-53	n/a	0.030	0-6	6-7	31-32	(c)	post	(d)

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Well Name	Date Installed	Driller (a)	Drilling Oversight (a)	Borehole Diameter (inches)	- - - - - Screen Intervals - - - - - Installed by - - - CVDRMP - - - (Shallow) (feet, bgs)	(Deep) (feet, bgs)	Previously Existing Wells (feet, bgs)	Screen Slot Size (inches)	Surface Seal (feet, bgs)	Fine Sand Transition Seal (feet, bgs)	Bentonite Seal (feet, bgs)	Sand Pack (feet, bgs) (b)	Wellhead Type	Casing
Correia Family Dairy Farms														
COR-MW1	10/20/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	post	(d)
COR-MW2	10/20/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	post	(d)
COR-MW3	10/20/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	post	(d)
COR-MW4	10/20/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	post	(d)
COR-MW5	10/20/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	post	(d)
Frank J. Gomes Dairy #2														
FG2-MW1	11/03/11	WD	LSCE	10	5-20	23-33	n/a	0.030	0-3	3-4	21-22	(c)	post	(d)
FG2-MW2	10/13/11	WD	LSCE	10	5-20	23-38	n/a	0.030	0-3	3-4	21-22	(c)	post	(d)
FG2-MW3	10/13/11	WD	LSCE	10	10-25	28-43	n/a	0.030	0-4	4-5	26-27	(c)	post	(d)
FG2-MW4	10/13/11	WD	LSCE	10	10-25	28-43	n/a	0.030	0-5	5-6	26-27	(c)	post	(d)
FG2-MW5	11/08/11	WD	LSCE	10	5-20	23-38	n/a	0.030	0-3	3-4	21-22	(c)	flush	(d)
Godinho Dairy														
GOD-MW1	10/17/11	WD	LSCE	10	5-20	23-33	n/a	0.030	0-3	3-4	21-22	(c)	post	(d)
GOD-MW2	10/17/11	WD	LSCE	10	10-25	28-43	n/a	0.030	0-4	4-5	26-27	(c)	post	(d)
GOD-MW3	10/17/11	WD	LSCE	10	5-20	23-33	n/a	0.030	0-3	3-4	21-22	(c)	post	(d) §
GOD-MW4	10/18/11	WD	LSCE	10	5-20	23-33	n/a	0.030	0-3	3-4	21-22	(c)	post	(d) §
GOD-MW5	10/17/11	WD	LSCE	10	10-25	28-43	n/a	0.030	0-5	5-6	26-27	(c)	post	(d)
GOD-MW6	11/09/11	WD	LSCE	10	5-25	28-43	n/a	0.030	0-3	3-4	26-27	(c)	flush	(d)
GOD-MW7	11/09/11	WD	LSCE	10	5-25	28-43	n/a	0.030	0-3	3-4	26-27	(c)	flush	(d)
John Machado Dairy														
MAC-MW1	10/18/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	post	(d)
MAC-MW2	11/19/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	post	(d)
MAC-MW3	10/19/11	WD	LSCE	10	5-25	28-43	n/a	0.030	0-3	3-4	26-27	(c)	post	(d)
MAC-MW4	10/18/11	WD	LSCE	10	5-25	28-43	n/a	0.030	0-3	3-4	26-27	(c)	post	(d)
MAC-MW5	10/18/11	WD	LSCE	10	5-25	28-43		0.030	0-3	3-4	26-27	(c)	post	(d)
Jose Nunes Dairy														
NUN-MW1	10/19/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	post	(d)
NUN-MW2	10/19/11	WD	LSCE	10	5-25	28-43	n/a	0.030	0-3	3-4	26-27	(c)	post	(d)
NUN-MW3	10/19/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	flush	(d)
NUN-MW4	10/19/11	WD	LSCE	10	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	flush	(d)
NUN-MW5	10/16/14	PC	LSCE	12	5-15	18-28	n/a	0.030	0-3	3-4	16-17	(c)	post	(d)
Moonshine Dairy▪														
MOO-MW1	09/10/03	TL	TL	ina	n/a	n/a	5-25	0.020	0-1	n/a	1-4	4-25.5	post	(g)

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Well Name	Date Installed	Driller (a)	Drilling Oversight (a)	Borehole Diameter (inches)	Screen Intervals Installed by CVDRMP (Shallow) (feet, bgs)	Screen Intervals Installed by CVDRMP (Deep) (feet, bgs)	Screen Intervals Previously Existing Wells (feet, bgs)	Screen Slot Size (inches)	Surface Seal (feet, bgs)	Fine Sand Transition Seal (feet, bgs)	Bentonite Seal (feet, bgs)	Sand Pack (feet, bgs) (b)	Wellhead Type	Casing
MOO-MW2	09/09/03	TL	TL	ina	n/a	n/a	9-29	0.020	0-4	n/a	4-7	7-30	flush	(g)
MOO-MW3	09/09/03	TL	TL	ina	n/a	n/a	5-25	0.020	0-1	n/a	1-4	4-25.5	post	(g)
MOO-MW4	09/10/03	TL	TL	ina	n/a	n/a	5-25	0.020	0-1	n/a	1-4	4-25.5	post	(g)
MOO-MW5	10/31/11	WD	LSCE	10	10-30	33-48	n/a	0.030	0-5	5-6	31-32	(c)	post	(d)
MOO-MW6	10/31/11	WD	LSCE	10	10-30	33-48	n/a	0.030	0-5	5-6	31-32	(c)	post	(d)
MOO-MW7	10/31/11	WD	LSCE	10	10-25	28-38	n/a	0.030	0-5	5-6	26-27	(c)	post	(d)
MOO-MW8	10/31/11	WD	LSCE	10	10-25	28-38	n/a	0.030	0-5	5-6	26-27	(c)	post	(d)
Tony L. Lopes Dairy LP														
TON-MW1	10/14/11	WD	LSCE	10	5-20	23-33	n/a	0.030	0-3	3-4	21-22	(c)	post	(d)
TON-MW2	10/14/11	WD	LSCE	10	5-20	23-33	n/a	0.030	0-3	3-4	21-22	(c)	post	(d)
TON-MW3	10/14/11	WD	LSCE	10	5-20	23-38	n/a	0.030	0-3	3-4	21-22	(c)	post	(d)
TON-MW4	10/14/11	WD	LSCE	10	5-20	23-38	n/a	0.030	0-3	3-4	21-22	(c)	post	(d)
TON-MW5	10/14/11	WD	LSCE	10	5-20	23-38	n/a	0.030	0-3	3-4	21-22	(c)	post	(d)
TON-MW6	10/13/11	WD	LSCE	10	5-25	28-43	n/a	0.030	0-3	3-4	26-27	(c)	post	(d)
TON-MW7	10/13/11	WD	LSCE	10	5-25	28-43	n/a	0.030	0-3	3-4	26-27	(c)	post	(d)
TON-MW8	10/13/11	WD	LSCE	10	5-25	28-43	n/a	0.030	0-3	3-4	26-27	(c)	post	(d)
North Area														
Brentwood Farms														
BRE-MW1	10/1/12	C	LSCE	12	15-30	85-100	n/a	0.030	0-11	11-12	31-45, 70-80, 102-116.5	12-31, 45-70, 80-102	post	(d)
BRE-MW2d	10/2/12	C	LSCE	12	none	116-126	n/a	0.030	0-80	80-93¶	107-113	93-107, 113-130 [130]	post	(d)
BRE MW2s	10/2/12	C	LSCE	8	95-105	none	n/a	0.030	0-88	88-90	none	90-110	post	(d)
BRE -MW3	10/2/12	C	LSCE	12	88-98	103-108	n/a	0.030	0-75	75-85¶	99-102	85-99, 102-110 [110]	post	(d)
Creekside Dairy														
CRE-MW1	9/26/12	C	LSCE	12	11-16	95-120	n/a	0.030	0-9	9-10	17-25, 62-67, 80-90	10-17, 25-62, 67-80, 90-120	flush	(d)
CRE-MW2	9/26/12	C	LSCE	12	10-20	27-37	n/a	0.030	0-8	8-9	21-25	9-21, 25-40 [40]	flush	(d)
CRE-MW3	9/25/12	C	LSCE	12	11-16	38-58	n/a	0.030	0-9	9-10	17-25	10-17, 25-60 [60]	flush	(d)
MTSJ Dairy														
MTS-MW1	9/28/12	C	LSCE	8	60-80	none	n/a	0.030	0-48	48-55¶	none	55-90 [90]	post	(d)
MTS-MW2	9/27/12	C	LSCE	12	13-28	53-68	n/a	0.030	0-11	11-12	29-39	12-29, 39-68 [68]	flush	(d)
MTS-MW3	9/27/12	C	LSCE	12	10-25	55-70	n/a	0.030	0-7	7-8	28-38, 47-52	8-28, 38-47, 52-70 [70]	flush	(d)
South Area														
Aukeman Dairy▼														
AUK-MW1	ina	ina	ina	ina	n/a	n/a	65-90	ina	ina	n/a	ina	ina	post	2"-PVC
AUK-MW2	ina	ina	ina	ina	n/a	n/a	70-95	ina	ina	n/a	ina	ina	post	2"-PVC
AUK-MW3	ina	ina	ina	ina	n/a	n/a	75-100	ina	ina	n/a	ina	ina	post	2"-PVC

Table 2-3
Well Construction Details
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Well Name	Date Installed	Driller (a)	Drilling Oversight (a)	Borehole Diameter (inches)	Screen Intervals Installed by CVDRMP (Shallow) (feet, bgs)	Screen Intervals Installed by CVDRMP (Deep) (feet, bgs)	Screen Intervals Previously Existing Wells (feet, bgs)	Screen Slot Size (inches)	Surface Seal (feet, bgs)	Fine Sand Transition Seal (feet, bgs)	Bentonite Seal (feet, bgs)	Sand Pack (feet, bgs) (b)	Wellhead Type	Casing
Dairyland Farms														
DLF-MW1	Mar-04	CTL	CTL	9	n/a	n/a	88-120	0.020	0-85	n/a	85-88	88-120	post	4"-PVC
DLF-MW2	Mar-04	CTL	CTL	9	n/a	n/a	90-122	0.020	0-87	n/a	87-90	90-122	post	4"-PVC
DLF-MW3	Mar-04	CTL	CTL	9	n/a	n/a	89-121	0.020	0-86	n/a	86-89	89-121	post	4"-PVC
DLF-MW4A	06/25/07	B&S	KDSA	6	n/a	n/a	92-102	0.030	0-80	n/a	80-85	85-102	flush	(f)
DLF-MW4B	06/20/07	B&S	KDSA	12.25	n/a	n/a	115-140	0.030	0-105	n/a	105-110, 145-160	110-145, 160-180	flush	(f)
DLF-MW4C	06/20/07	B&S	KDSA	12.25	n/a	n/a	170-180	0.030	0-105	n/a	105-110, 145-160	110-145, 160-180	flush	(f)
DLF-MW5A	06/20/07	B&S	KDSA	6	n/a	n/a	105-120	0.030	0-95	n/a	95-100	100-120	flush	(f)
DLF-MW5B	06/26/07	B&S	KDSA	12.25	n/a	n/a	145-155	0.030	0-130	n/a	130-135	135-170	flush	(f)
DLF-MW5C	06/26/07	B&S	KDSA	12.25	n/a	n/a	155-165	0.030	0-130	n/a	130-135	135-170	flush	(f)
DLF-MW6A	06/26/07	B&S	KDSA	6	n/a	n/a	77-102	0.030	0-68	n/a	68-73	73-104	flush	(f)
DLF-MW6B	07/02/07	B&S	KDSA	12.25	n/a	n/a	105-115	0.030	0-90	n/a	90-95, 121-126, 145-150	95-121, 126-145, 150-190	flush	(f)
DLF-MW6C	07/02/07	B&S	KDSA	12.25	n/a	n/a	130-140	0.030	0-90	n/a	90-95, 121-126, 145-150	95-121, 126-145, 150-190	flush	(f)
DLF-MW6D	07/02/07	B&S	KDSA	12.25	n/a	n/a	155-185	0.030	0-90	n/a	90-95, 121-126, 145-150	95-121, 126-145, 150-190	flush	(f)
Elkhorn Dairy														
ELK-MW1	05/24/04	BSK	BSK	ina	n/a	n/a	55-80	0.020	0-52	n/a	52-55	55-80	post	(f)
ELK-MW2A	05/19/00	HSD	ina	6	n/a	n/a	15-35	0.020	n/a	n/a	0-15	15-35	flush	(f)
ELK-MW2B	05/25/04	BSK	BSK	ina	n/a	n/a	50-75	0.020	0-44	n/a	44-47	47-75	flush	(f)
ELK-MW3A	05/19/00	HSD	ina	6	n/a	n/a	15-35	0.020	n/a	n/a	0-15	15-35	post	(f)
ELK-MW3B	05/26/04	BSK	BSK	ina	n/a	n/a	40-65	0.020	0-34	n/a	34-37	37-65	post	(f)
ELK-MW4	05/19/00	HSD	ina	6	n/a	n/a	15-35	0.020	n/a	n/a	0-15	15-35	flush	(f)
Giacomazzi Dairy														
ZZI-MW1A	07/30/07	B&S	KDSA	6	n/a	n/a	36-46	0.030	0-23	n/a	23-26, 47-87	26-47	post	(f)
ZZI-MW1B	09/20/07	B&S	KDSA	12.25	n/a	n/a	94-105	0.030	0-81	n/a	81-86, 106-108	86-106, 108-140	post	(f)
ZZI-MW1C	09/20/07	B&S	KDSA	12.25	n/a	n/a	116-126	0.030	0-82	n/a	81-86, 106-109	86-106, 108-141	post	(f)
ZZI-MW1D	09/20/07	B&S	KDSA	12.25	n/a	n/a	126-136	0.030	0-83	n/a	81-86, 106-110	86-106, 108-142	post	(f)
ZZI-MW2A	08/22/07	B&S	KDSA	6	n/a	n/a	35-45	0.030	0-20	n/a	20-25, 45-54	25-45	post	(f)
ZZI-MW2B	08/27/07	B&S	KDSA	12.25	n/a	n/a	62-72	0.030	0-45	n/a	45-50, 75-85, 126-128	50-75, 85-126, 128-145	post	(f)
ZZI-MW2C	08/27/07	B&S	KDSA	12.25	n/a	n/a	116-126	0.030	0-46	n/a	45-50, 75-85, 126-129	50-75, 85-126, 128-146	post	(f)
ZZI-MW2D	08/27/07	B&S	KDSA	12.25	n/a	n/a	130-140	0.030	0-47	n/a	45-50, 75-85, 126-130	50-75, 85-126, 128-147	post	(f)
ZZI-MW3A	08/20/07	B&S	KDSA	6	n/a	n/a	15-25	0.030	0-8	n/a	8-10, 30-32	10-30	post	(f)
ZZI-MW3AA	08/20/07	B&S	KDSA	6	n/a	n/a	70-85	0.030	0-58	n/a	58-60	60-88	post	(f)
ZZI-MW3B	08/31/07	B&S	KDSA	10.625	n/a	n/a	116-131	0.030	0-104	n/a	104-108	108-140	post	(f)
ZZI-MW5A	08/22/07	B&S	KDSA	6	n/a	n/a	62-72	0.030	0-53	n/a	53-55	55-78	flush	(f)
ZZI-MW5B	09/08/07	B&S	KDSA	12.25	n/a	n/a	80-90	0.030	0-72	n/a	72-76, 95-100	76-95, 100-135	flush	(f)

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Well Name	Date Installed	Driller (a)	Drilling Oversight (a)	Borehole Diameter (inches)	Screen Intervals Installed by CVDRMP (Shallow) (feet, bgs)	Screen Intervals Installed by CVDRMP (Deep) (feet, bgs)	Screen Intervals Previously Existing Wells (feet, bgs)	Screen Slot Size (inches)	Surface Seal (feet, bgs)	Fine Sand Transition Seal (feet, bgs)	Bentonite Seal (feet, bgs)	Sand Pack (feet, bgs) (b)	Wellhead Type	Casing
ZZI-MW5C	09/08/07	B&S	KDSA	12.25	n/a	n/a	106-121	0.030	0-73	n/a	72-76, 95-101	76-95, 100-136	flush	(f)
ZZI-MW5D	09/08/07	B&S	KDSA	12.25	n/a	n/a	121-131	0.030	0-74	n/a	72-76, 95-102	76-95, 100-137	flush	(f)
ZZI-MW6A	08/27/07	B&S	KDSA	6	n/a	n/a	67-87	0.030	0-53	n/a	53-58	58-90	post	(f)
ZZI-MW6B	09/06/07	B&S	KDSA	12.25	n/a	n/a	92-97	0.030	0-85	n/a	85-90, 98-102, 114-117	90-98, 102-114, 117-140	post	(f)
ZZI-MW6C	09/06/07	B&S	KDSA	12.25	n/a	n/a	105-112	0.030	0-86	n/a	85-90, 98-102, 114-118	90-98, 102-114, 117-141	post	(f)
ZZI-MW6D	09/06/07	B&S	KDSA	12.25	n/a	n/a	121-136	0.030	0-87	n/a	85-90, 98-102, 114-119	90-98, 102-114, 117-142	post	(f)
ZZI-MW7A	08/24/07	B&S	KDSA	6	n/a	n/a	74-89	0.030	0-61	n/a	61-66	66-90	post	(f)
ZZI-MW7B	08/29/07	B&S	KDSA	12.25	n/a	n/a	100-110	0.030	0-89	n/a	89-96, 114-118, 126-128	96-114, 118-126, 128-145	post	(f)
ZZI-MW7C	08/29/07	B&S	KDSA	12.25	n/a	n/a	121-126	0.030	0-90	n/a	89-96, 114-118, 126-129	96-114, 118-126, 128-146	post	(f)
ZZI-MW7D	08/29/07	B&S	KDSA	12.25	n/a	n/a	130-140	0.030	0-91	n/a	89-96, 114-118, 126-130	96-114, 118-126, 128-147	post	(f)
ZZI-MW9A	09/27/07	B&S	KDSA	6	n/a	n/a	52-67	0.030	0-43	n/a	43-47, 69-74	47-69	flush	(f)
ZZI-MW9B	09/25/07	B&S	KDSA	12.25	n/a	n/a	78-88	0.030	0-70	n/a	70-75, 98-101, 117-121	75-98, 101-117, 121-140	flush	(f)
ZZI-MW9C	09/25/07	B&S	KDSA	12.25	n/a	n/a	104-114	0.030	0-71	n/a	70-75, 98-101, 117-122	75-98, 101-117, 121-141	flush	(f)
ZZI-MW9D	09/25/07	B&S	KDSA	12.25	n/a	n/a	124-134	0.030	0-72	n/a	70-75, 98-101, 117-123	75-98, 101-117, 121-142	flush	(f)
Holstein Farms Dairy ▼														
HOL-MW1	05/19/05	BSK	BSK	8.25	n/a	n/a	109-139	0.020	0-101	n/a	101-104	104-140	post	2"-PVC
HOL-MW2	05/23/05	BSK	BSK	8.25	n/a	n/a	110-140	0.020	0-103	n/a	103-106	106-140	post	2"-PVC
HOL-MW3	05/24/05	BSK	BSK	8.25	n/a	n/a	106-136	0.020	0-98	n/a	98-101	101-136	post	2"-PVC
Hynes Dairy ▼														
HYN-MW3	12/09/06	TES	TES	9	n/a	n/a	98-133	0.020	0-90	n/a	90 - 94	94 - 133	post	2"-PVC
HYN-MW4	12/07/06	TES	TES	9	n/a	n/a	96-131	0.020	0-91	n/a	91 - 94	94 - 131	post	2"-PVC
HYN-MW5	12/05/06	TES	TES	9	n/a	n/a	99-134	0.020	0-92	n/a	92 - 96	96 - 134	post	2"-PVC
J & A Dairy ▼														
JAD-MW1	Jan-04	TL	TL	ina	n/a	n/a	49-69	ina	0-47	n/a	ina	47-69	flush	2"-PVC
JAD-MW2	Jan-04	TL	TL	ina	n/a	n/a	50-70	ina	0-46	n/a	ina	46-70	post	2"-PVC
JAD-MW3	Jan-04	TL	TL	ina	n/a	n/a	48-68	ina	0-46	n/a	ina	46-68	post	2"-PVC
JAD-MW4	10/16/12	C	LSCE	12	50-60	65-75	n/a	0.030	0-43	43-48	61-64	44-61, 64-75	post	(d)
JAD-MW5	10/15/12	C	LSCE	12	70-80	90-105	n/a	0.030	0-63	63-68	82-88	68-82, 88-105 [105]	post	(d)
JAD-MW6	10/15/12	C	LSCE	12	55-70	78-93	n/a	0.030	0-48	48-50	72-76	50-72, 76-98 [98]	post	(d)
JAD-MW7	10/16/12	C	LSCE	12	50-65	70-80	n/a	0.030	0-43	43-48	66-70	48-66, 70-83	post	(d)
Longfellow Farming Co. ▼														
LON-MW1A	07/17/07	B&S	KDSA	6	n/a	n/a	64-84	0.030	0-55	n/a	55-60	60-86	flush	(f)
LON-MW1B	08/15/07	B&S	KDSA	12.25	n/a	n/a	93-113	0.030	0-85	n/a	85-90, 115-120	90-115, 120-140	flush	(f)
LON-MW1C	08/15/07	B&S	KDSA	12.25	n/a	n/a	123-138	0.030	0-85	n/a	85-90, 115-120	90-115, 120-140	flush	(f)

Table 2-3
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Well Name	Date Installed	Driller (a)	Drilling Oversight (a)	Borehole Diameter (inches)	- - - - - Screen Intervals - - - - - Installed by - - - CVDRMP - - - (Shallow) (feet, bgs)	(Deep) (feet, bgs)	Previously Existing Wells (feet, bgs)	Screen Slot Size (inches)	Surface Seal (feet, bgs)	Fine Sand Transition Seal (feet, bgs)	Bentonite Seal (feet, bgs)	Sand Pack (feet, bgs) (b)	Wellhead Type	Casing
LON-MW2A	06/25/07	B&S	KDSA	6	n/a	n/a	65-90	0.030	0-55	n/a	55-60	60-90	flush	(f)
LON-MW2B	06/16/07	B&S	KDSA	12.25	n/a	n/a	96-106	0.030	0-85	n/a	88-92, 109-115	92-109, 115-145	flush	(f)
LON-MW2C	06/16/07	B&S	KDSA	12.25	n/a	n/a	115-125	0.030	0-85	n/a	88-92, 109-115	92-109, 115-145	flush	(f)
LON-MW3A	07/16/07	B&S	KDSA	6	n/a	n/a	65-85	0.030	0-55	n/a	55-60	60-85	flush	(f)
LON-MW3B	08/17/07	B&S	KDSA	12.25	n/a	n/a	115-130	0.030	0-105	n/a	105-110	110-140	flush	(f)
LON-MW3C	08/17/07	B&S	KDSA	12.25	n/a	n/a	130-140	0.030	0-105	n/a	105-110	110-140	flush	(f)
LON-MW4A	07/05/07	B&S	KDSA	6	n/a	n/a	60-90	0.030	0-50	n/a	50-55	55-90	flush	(f)
LON-MW4B	07/11/07	B&S	KDSA	12.25	n/a	n/a	105-115	0.030	0-95	n/a	95-100, 115-120	100-115, 120-150	flush	(f)
LON-MW4C	07/11/07	B&S	KDSA	12.25	n/a	n/a	130-140	0.030	0-95	n/a	95-100, 115-120	100-115, 120-150	flush	(f)
LON-MW4D	07/11/07	B&S	KDSA	12.25	n/a	n/a	140-150	0.030	0-95	n/a	95-100, 115-120	100-115, 120-150	flush	(f)
LON-MW5A	07/24/07	B&S	KDSA	6	n/a	n/a	66-96	0.030	0-51	n/a	51-56	56-96	flush	(f)
LON-MW5B	09/14/07	B&S	KDSA	10.625	n/a	n/a	100-110	0.030	0-88	n/a	88-93, 114-116	93-114, 116-135	flush	(f)
LON-MW5C	09/14/07	B&S	KDSA	10.625	n/a	n/a	118-128	0.030	0-88	n/a	88-93, 114-116	93-114, 116-135	flush	(f)
LON-MW6A	07/25/07	B&S	KDSA	6	n/a	n/a	85-89	0.030	0-70	n/a	70-75	75-96	flush	(f)
LON-MW6B	09/18/07	B&S	KDSA	10.625	n/a	n/a	95-110	0.030	0-85	n/a	85-90, 112-116	90-112, 120-135	flush	(f)
LON-MW6C	09/18/07	B&S	KDSA	10.625	n/a	n/a	120-130	0.030	0-85	n/a	85-90, 112-116	90-112, 120-135	flush	(f)
LON-MW7A	08/28/07	B&S	KDSA	6	n/a	n/a	42-52	0.030	0-29	n/a	29-30, 55-57, 67-72	30-55, 57-67	flush	(f)
LON-MW7B	09/12/07	B&S	KDSA	12.25	n/a	n/a	68-78	0.030	0-60	n/a	60-65, 83-86, 100-104	65-83, 86-100, 104-135	flush	(f)
LON-MW7C	09/12/07	B&S	KDSA	12.25	n/a	n/a	88-98	0.030	0-60	n/a	60-65, 83-86, 100-104	65-83, 86-100, 104-135	flush	(f)
LON-MW7D	09/12/07	B&S	KDSA	12.25	n/a	n/a	108-128	0.030	0-60	n/a	60-65, 83-86, 100-104	65-83, 86-100, 104-135	flush	(f)
Machado Dairy														
ADO-MW1	10/09/12	C	LSCE	12	82-92	98-108	n/a	0.030	0-75	75-80	93-97	82-92, 97-110 [110]	post	(d)
ADO-MW2	10/09/12	C	LSCE	12	80.5-90.5	100-110	n/a	0.030	0-73	73-74¶, 74-79	91-92	79-91, 92-110 [110]	post	(d)
Manuel and Alda Lawrence Dairy▼														
MAL-MW1	07/15/05	CTL	WZI	8	n/a	n/a	9-24	0.020	0-5	n/a	5-7	7-24	post	2"-PVC
MAL-MW2	07/21/05	CTL	WZI	8	n/a	n/a	10-25	0.020	0-6	n/a	6-8	8-25	post	2"-PVC
MAL-MW3	07/18/05	CTL	WZI	8	n/a	n/a	4-19	0.020	0-2	n/a	2-3	3-19	post	2"-PVC
MAL-MW4	07/18/05	CTL	WZI	8	n/a	n/a	7-22	0.020	0-3	n/a	3-5	5-22	post	2"-PVC
MAL-MW5	07/21/05	CTL	WZI	8	n/a	n/a	9-24	0.020	0-5	n/a	5-7	7-24	post	2"-PVC
MAL-MW6	07/21/05	CTL	WZI	8	n/a	n/a	8-23	0.020	0-4	n/a	4-6	6-23	post	2"-PVC
MAL-MW7	10/11/12	C	LSCE	8	10-30	n/a	n/a	0.030	0-6	6-8	31-36	8-31, 36-55 [55]	flush	(d)
MAL-MW8	10/11/12	C	LSCE	8	20-30	n/a	n/a	0.030	0-15	15-18	none	18-36.5 [30]	flush	(d)
Maple Avenue Dairy▼														
MAP-MW8	Oct-02	BSK	BSK	ina	n/a	n/a	65.0-95.0	0.020	ina	n/a	ina	ina	post	2"-PVC

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Well Construction Details
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Well Name	Date Installed	Driller (a)	Drilling Oversight (a)	Borehole Diameter (inches)	Screen Intervals Installed by CVDRMP (Shallow) (feet, bgs)	Screen Intervals Installed by CVDRMP (Deep) (feet, bgs)	Previously Existing Wells (feet, bgs)	Screen Slot Size (inches)	Surface Seal (feet, bgs)	Fine Sand Transition Seal (feet, bgs)	Bentonite Seal (feet, bgs)	Sand Pack (feet, bgs) (b)	Wellhead Type	Casing
MAP-MW9	Oct-02	BSK	BSK	ina	n/a	n/a	65.0-95.0	0.020	ina	n/a	ina	ina	post	2"-PVC
MAP-MW10	ina	ina	ina	ina	n/a	n/a	ina	0.020	ina	n/a	ina	ina	flush	2"-PVC
Zonneveld Dairy Complex														
ZON-MW1A	2001	ina	BSK	ina	n/a	n/a	9.5-14.5	0.020	ina	n/a	ina	ina	flush	(e)
ZON-MW1B	2001	ina	BSK	ina	n/a	n/a	ina	0.020	ina	n/a	ina	ina	flush	(e)
ZON-MW1C	2001	ina	BSK	ina	n/a	n/a	72.5-107.5	0.020	ina	n/a	ina	ina	flush	(e)
ZON-MW2A	Jan-03	B&S	BSK	10.75	n/a	n/a	60-90	0.030	0-54	n/a	54-57, 91-123, 136-142	57-91	flush	(e)
ZON-MW2B	Jan-03	B&S	BSK	10.75	n/a	n/a	125-135	0.030	0-54	n/a	54-57, 91-123, 136-142	123-136	flush	(e)
ZON-MW3A	Jan-03	B&S	BSK	10.75	n/a	n/a	67-97	0.030	0-60	n/a	60-64, 99-115, 132-141	64-99	post	(e)
ZON-MW3B	Jan-03	B&S	BSK	10.75	n/a	n/a	117-132	0.030	0-60	n/a	60-64, 99-115, 132-141	115-132	post	(e)
ZON-MW4A	Jan-03	B&S	BSK	10.75	n/a	n/a	60-90	0.030	0-54	n/a	54-59, 96-124	59-96	post	(e)
ZON-MW4B	Jan-03	B&S	BSK	10.75	n/a	n/a	125-135	0.030	0-54	n/a	54-59, 96-124	124-141	post	(e)
ZON-MW5A	Jan-03	B&S	BSK	10.75	n/a	n/a	65-95	0.030	0-62	n/a	62-63, 97-124, 138-140.5	63-97	post	(e)
ZON-MW5B	Jan-03	B&S	BSK	10.75	n/a	n/a	128-138	0.030	0-62	n/a	62-63, 97-124, 138-140.5	124-138	post	(e)
ZON-MW7	ina	B&S	BSK	ina	n/a	n/a	88-108	0.020	ina	n/a	ina	ina	post	(e)
Richmar Farms Dairy														
RIC-MW1	10/14/02	Galvan	SEI	8	n/a	n/a	24-44	ina	ina	n/a	ina	ina	post	2"-PVC
RIC-MW2	10/16/02	Galvan	SEI	8	n/a	n/a	4-13	ina	ina	n/a	ina	ina	post	2"-PVC
RIC-MW3	10/16/02	Galvan	SEI	8	n/a	n/a	28-58	ina	ina	n/a	ina	ina	post	2"-PVC
RIC-MW4	10/17/02	Galvan	SEI	8	n/a	n/a	3-13	ina	ina	n/a	ina	ina	post	2"-PVC
RIC-MW5	10/17/02	Galvan	SEI	8	n/a	n/a	28-58	ina	ina	n/a	ina	ina	post	2"-PVC
RIC-MW6	10/17/02	Galvan	SEI	8	n/a	n/a	5-15	ina	ina	n/a	ina	ina	post	2"-PVC
RIC-MW7	10/22/12	C	LSCE	12	10-25	30-45	n/a	0.030	0-7	7-9¶	26-29	9-26, 29-46 [46]	post	(d)
RIC-MW8	10/17/12	C	LSCE	12	17-27	31-46	n/a	0.030	0-13	13-16	28-30	16-28, 30-47 [47]	post	(d)
RIC-MW9	10/17/12	C	LSCE	12	10-25	30-45	n/a	0.030	0-7	7-9	26-29	9-26, 29-46 [46]	post	(d)
Sierra View Dairy														
SIE-MW1	11/23/04	ina	CTL	ina	n/a	n/a	84-124	ina	0-82	n/a	ina	82-124	flush	2"-PVC
SIE-MW2	05/13/03	ina	CTL	ina	n/a	n/a	68-108	ina	0-67	n/a	ina	67-108	flush	2"-PVC
SIE-MW3	11/19/04	ina	CTL	ina	n/a	n/a	83-123	ina	0-81	n/a	ina	81-123	flush	2"-PVC
SIE-MW4	04/06/06	HSD	KDSA	12.25	n/a	n/a	89-129	0.030	0-74	n/a	74-80	80-134	post	4"-PVC
Sozinho Dairy No. 2														
SO2-MW1	02/26/02	BSK	P & P	8	n/a	n/a	43-73	0.020	0-34	n/a	34-38	38-73	post	2"-PVC
SO2-MW2	02/28/02	BSK	P & P	8	n/a	n/a	42-72	0.020	0-33	n/a	33-37	37-75	post	2"-PVC
SO2-MW3	02/27/02	BSK	P & P	8	n/a	n/a	44.5-74.5	0.020	0-35.5	n/a	35.5-39.5	39.5-75	post	2"-PVC

Table 2-3
Well Construction Details
Central Valley Dairy Representative Monitoring Program – Year 8 Annual Report

Well Name	Date Installed	Driller (a)	Drilling Oversight (a)	Borehole Diameter (inches)	Screen Intervals Installed by CVDRMP (Shallow) (feet, bgs)	Screen Intervals Installed by CVDRMP (Deep) (feet, bgs)	Previously Existing Wells (feet, bgs)	Screen Slot Size (inches)	Surface Seal (feet, bgs)	Fine Sand Transition Seal (feet, bgs)	Bentonite Seal (feet, bgs)	Sand Pack (feet, bgs) (b)	Wellhead Type	Casing
SO2-MW4	02/27/02	BSK	P & P	8	n/a	n/a	43-73	0.020	0-32	n/a	32-36	36-73	post	2"-PVC
SO2-MW5	10/10/12	C	LSCE	12	75-90	95-105	n/a	0.030	0-65	65-70, 70-72¶	91-94	72-91, 94-105 [105]	flush	(d)
SO2-MW6	10/10/12	C	LSCE	12	70-85	89.5-99.5	n/a	0.030	0-62	62-63¶, 63-68	86-87	68-86, 87-102	flush	(d)
SO2-MW7	11/11/12	C	LSCE	12	65-75	80-90	n/a	0.030	0-58	58-59¶, 59-63	76-78	63-76, 78-93 [93]	flush	(d)
SO2-MW8	11/11/12	C	LSCE	12	20-30	70-85	n/a	0.030	0-15	15-18	31-35, 60-68	18-31, 68-85 [85]	post	(d)
Sozinho Jerseys▼														
SOJ-MW1	02/26/02	SC	ASA	4.25	n/a	n/a	46.0-75.85	0.020	0-39.5	n/a	39.5-43.5	43.5-77.0	post	2"-PVC
SOJ-MW2	02/28/02	SC	ASA	4.25	n/a	n/a	38.5-68.4	0.020	0-36	n/a	36.0-40.0	40-73.5	post	2"-PVC
SOJ-MW3	02/27/02	SC	ASA	4.25	n/a	n/a	41.4-71.25	0.020	0-34.10	n/a	34.10-38.9	38.9-72.5	post	2"-PVC
SOJ-MW4	02/27/02	SC	ASA	4.25	n/a	n/a	42.0-71.9	0.020	0-35.5	n/a	35.5-39.5	39.5-73	post	2"-PVC
SOJ-MW5	10/05/12	C	LSCE	12	76-86	95-105	n/a	0.030	0-69	69-70, 70-74¶	87-93	74-87, 93-106 [106]	post	(d)
SOJ-MW6	10/05/12	C	LSCE	12	75-85	95-105	n/a	0.030	0-68	68-72, 72-73¶	86-93	73-86, 93-105 [105]	post	(d)

(a) ASA = Assosciated Soils Analysis, Inc.
AWA = All Well Abandonment
B&S = Bradley and Sons
BSK = BSK Associates
C = Cascade Drilling L.P.
CTL = Consolidated Testing Laboratories Inc.
LW = Layne Western
LSCE = Luhdorff & Scalmanini Consulting Eng.
PC = PeneCore
P & P = Provost and Pritchard
SC = Scott Broeck
SEI = Soils Engineering Inc.
TES = Technicon Engineerng Services, Inc.
TL = Twining Laboratories, Inc.
URS = URS Corporation
WD = Woodward Drilling, Inc.
WZI = WZI Inc.

(b) [30] = native fill extends from bracketed number to total borehole depth.

(c) Sand pack (#8) placed from bottom of transition seal to total depth of bore hole (bentonite seal between shallow and deep well screens).

(d) CVDRMP installed wells with 2-inch ID, Schedule 40 PVC ASTM F-480-88A threaded casing and end caps with weep holes.

(e) PVC, 2-inch ID, flush threaded. (f) Schedule 40 PVC, 2-inch II (g) Schedule 40 PVC, 4-inch ID, flush threaded, with end cap.

ina = information not available | n/a = not applicable | bgs = below ground surface | † Depth of completed well | ‡ Measurement to the bottom of the well obtained after 2013 well development

¶ bentonite transition seal § Abandoned by destruction

▼ Documents from which construction information was extracted for wells not constructed by CVDRMP were provided in the Year 2 RMP Annual Report.

▪ Documents from which construction information was extracted for wells not constructed by CVDRMP were provided in the Year 1 RMP Annual Report.

Well construction information for wells not installed by CVDRMP was compiled from various sources; as-built well construction drawings were given preference in cases of disagreement between d

Shading indicates nested wells.

Table 2-4
Surveyed Wellhead Coordinates and Reference Point Elevations
Central Valley Dairy Representative Monitoring Program – Year 8 Annual Report

Well Name	Surveyor	Survey Date	Latitude	Longitude	Northing US State Plane 1983, NAD83 † (feet)	Easting US State Plane 1983, NAD83 † (feet)	Elevation (NAVD88) (feet)
Central Area – East Side							
Albert Mendes Dairy							
MEN-MW1s	EPIC	Jan 2012	37°29'04.37653"N	121°00'46.19905"W	1999311.543	6412880.962	60.81
MEN-MW1d	EPIC	Jan 2012	37°29'04.37542"N	121°00'46.19642"W	1999311.430	6412881.173	60.72
MEN-MW2s	EPIC	Jan 2012	37°29'03.12748"N	121°00'46.29846"W	1999185.258	6412872.257	60.87
MEN-MW2d	EPIC	Jan 2012	37°29'03.12875"N	121°00'46.29482"W	1999185.385	6412872.551	60.81
MEN-MW3s	EPIC	Jan 2012	37°28'58.57469"N	121°00'37.07233"W	1998720.726	6413613.344	60.77
MEN-MW3d	EPIC	Jan 2012	37°28'58.57785"N	121°00'37.06922"W	1998721.044	6413613.596	60.67
MEN-MW4s	EPIC	Jan 2012	37°28'57.09967"N	121°00'37.02823"W	1998571.524	6413616.085	60.44
MEN-MW4d	EPIC	Jan 2012	37°28'57.10122"N	121°00'37.02501"W	1998571.679	6413616.345	60.33
MEN-MW5s	EPIC	Jan 2012	37°28'57.85264"N	121°00'29.58834"W	1998644.416	6414216.144	61.10
MEN-MW5d	EPIC	Jan 2012	37°28'57.85587"N	121°00'29.58834"W	1998644.742	6414216.146	61.00
MEN-MW6s	EPIC	Jan 2012	37°29'00.97699"N	121°01'18.30684"W	1998982.019	6410291.267	59.02
MEN-MW6d	EPIC	Jan 2012	37°29'00.97420"N	121°01'18.30540"W	1998981.737	6410291.382	58.95
MEN-MW7s	EPIC	Jan 2012	37°28'42.97837"N	121°00'38.64159"W	1997144.011	6413478.256	59.48
MEN-MW7d	EPIC	Jan 2012	37°28'42.97915"N	121°00'38.63888"W	1997144.089	6413478.474	59.37
MEN-MW8s	EPIC	Jan 2015	37°29'02.89848"N	121°00'33.32057"W	1999152.388	6413905.281	61.14
MEN-MW8d	EPIC	Jan 2015	37°29'02.89769"N	121°00'33.32422"W	1999152.31	6413904.987	61.26
Anchor J. Dairy							
ANC-MW1	EPIC	Dec 2012	N37°20'14.55410"	W120°56'17.69765"	1945611.757	6434257.495	72.82
ANC-MW2	EPIC	Dec 2012	N37°20'09.31043"	W120°56'15.01919"	1945080.407	6434471.316	80.30
ANC-MW3	EPIC	Dec 2012	N37°20'14.21578"	W120°56'11.98070"	1945575.382	6434719.012	70.75
ANC-MW4	EPIC	Dec 2012	N37°20'19.77802"	W120°56'14.56787"	1946138.915	6434512.712	81.27
ANC-MW5s	EPIC	Jan 2012	37°20'19.72199"N	120°56'03.23254"W	1946132.878	6435440.932	76.91
ANC-MW5d	EPIC	Jan 2012	37°20'19.71964"N	120°56'03.23194"W	1946132.640	6435440.979	76.82
ANC-MW6s	EPIC	Jan 2012	37°20'09.22928"N	120°56'05.00736"W	1945072.321	6435292.679	75.14
ANC-MW6d	EPIC	Jan 2012	37°20'09.22683"N	120°56'05.00827"W	1945072.073	6435292.604	75.03
ANC-MW7s	EPIC	Jan 2012	37°20'08.95047"N	120°55'53.97467"W	1945039.999	6436183.521	75.72
ANC-MW7d	EPIC	Jan 2012	37°20'08.95119"N	120°55'53.97834"W	1945040.073	6436183.225	75.62
Bettencourt and Marson Dairy							
BET-MW1s	EPIC	Jan 2012	37°24'57.67322"N	120°49'04.34644"W	1974108.858	6469363.415	104.15
BET-MW1d	EPIC	Jan 2012	37°24'57.67319"N	120°49'04.34995"W	1974108.856	6469363.132	103.65
BET-MW2s	EPIC	Jan 2012	37°24'48.99221"N	120°49'04.44462"W	1973230.888	6469352.513	105.75
BET-MW2d	EPIC	Jan 2012	37°24'48.99319"N	120°49'04.44734"W	1973230.988	6469352.293	105.45
BET-MW3s	EPIC	Jan 2012	37°24'46.12508"N	120°49'04.47234"W	1972940.914	6469349.291	104.54
BET-MW3d	EPIC	Jan 2012	37°24'46.12831"N	120°49'04.47208"W	1972941.241	6469349.314	104.35
BET-MW4s	EPIC	Jan 2012	37°24'47.72236"N	120°48'49.81599"W	1973098.472	6470532.232	103.58
BET-MW4d	EPIC	Jan 2012	37°24'47.72548"N	120°48'49.81296"W	1973098.786	6470532.478	102.98
BET-MW5s	EPIC	Jan 2012	37°24'42.33034"N	120°48'17.01385"W	1972544.377	6473176.749	110.09
BET-MW5d	EPIC	Jan 2012	37°24'42.33250"N	120°48'17.01739"W	1972544.598	6473176.464	109.89
BET-MW6s	EPIC	Jan 2012	37°24'29.55708"N	120°48'16.70659"W	1971252.410	6473197.332	109.70
BET-MW6d	EPIC	Jan 2012	37°24'29.55431"N	120°48'16.70905"W	1971252.130	6473197.133	109.47
BET-MW7s	EPIC	Jan 2012	37°24'43.72140"N	120°48'00.61016"W	1972680.792	6474500.585	111.71
BET-MW7d	EPIC	Jan 2012	37°24'43.72052"N	120°48'00.61370"W	1972680.704	6474500.299	111.50
BET-MW8s	EPIC	Jan 2012	37°24'30.45138"N	120°48'01.59632"W	1971338.919	6474416.717	111.22
BET-MW8d	EPIC	Jan 2012	37°24'30.44886"N	120°48'01.59857"W	1971338.664	6474416.535	110.97

Table 2-4
Surveyed Wellhead Coordinates and Reference Point Elevations
Central Valley Dairy Representative Monitoring Program – Year 8 Annual Report

Well Name	Surveyor	Survey Date	Latitude	Longitude	Northing US State Plane 1983, NAD83 † (feet)	Easting US State Plane 1983, NAD83 † (feet)	Elevation (NAVD88) (feet)
Diepersloot Ranch							
DIE-MW1	EPIC	Dec 2013	N36°57'49.28131"	W120°16'58.79919"	1809326.379	6625069.291	176.78
DIE-MW2	EPIC	Dec 2013	N36°57'22.37771"	W120°17'30.40190"	1806599.518	6622510.458	173.51
DIE-MW3	EPIC	Dec 2013	N36°57'23.49765"	W120°17'02.82654"	1806717.861	6624748.445	173.94
DIE-MW4	EPIC	Dec 2013	N36°57'49.77181"	W120°16'26.39129"	1809382.213	6627699.406	178.33
Durrer Dairy, MW - pre-existing MW - 5 prev. adandoned							
DUR-MW1	EPIC	Dec 2013	N37°40'59.21271"	W121°09'33.59505"	2071871.889	6370871.472	47.60
DUR-MW2	EPIC	Dec 2013	N37°41'05.30248"	W121°09'32.53085"	2072487.211	6370961.350	48.97
DUR-MW3	EPIC	Dec 2013	N37°41'00.81457"	W121°09'31.46522"	2072032.697	6371043.810	47.02
DUR-MW4	EPIC	Dec 2013	N37°40'55.80114"	W121°09'31.40351"	2071525.600	6371045.201	46.29
DUR-MW6	EPIC	Dec 2013	N37°40'54.71804"	W121°09'21.15416"	2071410.268	6371868.298	44.92
DUR-MW7	EPIC	Dec 2013	N37°41'05.71036"	W121°09'22.50585"	2072522.802	6371767.442	49.02
DUR-MW8	EPIC	Dec 2013	N37°41'18.43739"	W121°09'33.70150"	2073816.350	6370876.615	46.98
DUR-MW9	EPIC	Dec 2013	N37°41'03.53973"	W121°09'01.46439"	2072291.455	6373457.210	48.47
DUR-MW10s	EPIC	Dec 2013	N37°41'00.83479"	W121°09'27.37248"	2072032.428	6371372.802	47.82
DUR-MW10d	EPIC	Dec 2013	N37°41'00.83527"	W121°09'27.36907"	2072032.475	6371373.076	47.88
Frank J. Gomes Dairy #1							
FG1-MW1s	EPIC	Jan 2012	37°21'39.19391"N	120°56'03.29364"W	1954170.615	6435473.295	77.05
FG1-MW1d	EPIC	Jan 2012	37°21'39.19231"N	120°56'03.29132"W	1954170.452	6435473.481	76.75
FG1-MW2s	EPIC	Jan 2012	37°21'50.43167"N	120°56'06.43492"W	1955308.371	6435224.981	80.27
FG1-MW2d	EPIC	Jan 2012	37°21'50.42759"N	120°56'06.43655"W	1955307.959	6435224.848	79.99
FG1-MW3s	EPIC	Jan 2012	37°21'45.59685"N	120°56'06.43259"W	1954819.381	6435222.896	78.33
FG1-MW3d	EPIC	Jan 2012	37°21'45.59843"N	120°56'06.43658"W	1954819.542	6435222.575	78.07
FG1-MW4s	EPIC	Jan 2012	37°21'53.18118"N	120°55'58.06502"W	1955583.320	6435901.947	76.72
FG1-MW4d	EPIC	Jan 2012	37°21'53.18331"N	120°55'58.06184"W	1955583.535	6435902.204	76.38
FG1-MW5s	EPIC	Jan 2012	37°22'13.65888"N	120°55'48.48698"W	1957650.854	6436684.666	75.82
FG1-MW5d	EPIC	Jan 2012	37°22'13.65746"N	120°55'48.48348"W	1957650.708	6436684.947	75.63
FG1-MW6s	EPIC	Jan 2012	37°21'57.77802"N	120°55'46.38535"W	1956043.897	6436846.938	80.07
FG1-MW6d	EPIC	Jan 2012	37°21'57.78101"N	120°55'46.38420"W	1956044.199	6436847.033	79.86
FG1-MW7s	EPIC	Jan 2012	37°21'52.93731"N	120°55'46.55388"W	1955554.374	6436831.086	79.64
FG1-MW7d	EPIC	Jan 2012	37°21'52.93947"N	120°55'46.55249"W	1955554.593	6436831.199	79.36
FG1-MW8s	EPIC	Jan 2012	37°21'52.25861"N	120°55'30.89560"W	1955479.957	6438094.811	78.82
FG1-MW8d	EPIC	Jan 2012	37°21'52.26008"N	120°55'30.89731"W	1955480.107	6438094.674	78.55
FG1-MW9s	EPIC	Jan 2012	37°21'39.10404"N	120°55'34.56333"W	1954150.862	6437792.668	78.53
FG1-MW9d	EPIC	Jan 2012	37°21'39.10312"N	120°55'34.56072"W	1954150.768	6437792.878	78.39
Gallo Cattle Company Bear Creek							
BEA-MW1s	EPIC	Jan 2012	37°18'02.44974"N	120°46'29.07644"W	1932073.593	6481765.983	99.70
BEA-MW1d	EPIC	Jan 2012	37°18'02.44928"N	120°46'29.07353"W	1932073.545	6481766.217	99.46
BEA-MW1dd	EPIC	Jan 2015	37°18'02.36363"N	120°46'29.08660"W	1932061.022	6481752.172	99.43
BEA-MW2s	EPIC	Jan 2012	37°18'15.42627"N	120°46'15.35142"W	1933382.800	6482878.711	99.12
BEA-MW2d	EPIC	Jan 2012	37°18'15.42411"N	120°46'15.35402"W	1933382.582	6482878.500	98.90
BEA-MW2dd	EPIC	Jan 2015	37°18'15.32712"N	120°46'15.36168"W	1933368.908	6482864.887	98.96
BEA-MW3s	EPIC	Jan 2012	37°17'56.50989"N	120°46'15.63442"W	1931469.673	6482850.306	95.23
BEA-MW3d	EPIC	Jan 2012	37°17'56.50693"N	120°46'15.63499"W	1931469.373	6482850.259	95.14
BEA-MW4s	EPIC	Jan 2012	37°18'03.80598"N	120°46'06.46321"W	1932205.460	6483593.438	99.47
BEA-MW4d	EPIC	Jan 2012	37°18'03.80477"N	120°46'06.46485"W	1932205.338	6483593.305	99.30

Table 2-4
Surveyed Wellhead Coordinates and Reference Point Elevations
Central Valley Dairy Representative Monitoring Program – Year 8 Annual Report

Well Name	Surveyor	Survey Date	Latitude	Longitude	Northing US State Plane 1983, NAD83 † (feet)	Easting US State Plane 1983, NAD83 † (feet)	Elevation (NAVD88) (feet)
Gallo Cattle Company Cottonwood							
COT-MW1	EPIC	Dec 2012	N37°18'02.53578"	W120°40'21.60812"	1932007.46	6511443.046	115.61
COT-MW1d	EPIC	Jan 2015	37°18'02.53999"N	120°40'21.49820"W	1932007.87	6511451.928	113.95
COT-MW2	EPIC	Dec 2012	N37°18'06.37101"	W120°39'20.03806"	1932386.63	6516418.317	117.10
COT-MW3	EPIC	Dec 2012	N37°17'08.76480"	W120°39'18.01781"	1926560.091	6516571.894	114.87
COT-MW4	EPIC	Dec 2012	N37°17'37.51238"	W120°39'37.55603"	1929470.27	6514997.949	114.49
COT-MW5	EPIC	Dec 2012	N37°17'21.35053"	W120°39'48.93533"	1927837.259	6514075.602	112.27
COT-MW6	EPIC	Dec 2012	N37°17'17.57211"	W120°39'52.60098"	1927455.63	6513778.713	111.33
COT-MW7	EPIC	Dec 2012	N37°16'45.34348"	W120°40'12.15353"	1924198.868	6512192.755	110.29
COT-MW8	EPIC	Dec 2012	N37°17'05.18829"	W120°40'49.10262"	1926211.552	6509210.421	108.77
COT-MW9	EPIC	Dec 2012	N37°16'10.72486"	W120°39'54.91354"	1920695.061	6513579.898	109.57
COT-MW10	EPIC	Dec 2012	N37°16'06.81748"	W120°41'05.22506"	1920310.5	6507895.855	104.80
COT-MW11s	EPIC	Jan 2012	37°17'35.69889"N	120°40'22.23950"W	1929297.142	6511400.043	112.29
COT-MW11d	EPIC	Jan 2012	37°17'35.70166"N	120°40'22.23912"W	1929297.422	6511400.074	112.08
COT-MW12s	EPIC	Jan 2012	37°17'30.04158"N	120°40'26.44469"W	1928725.591	6511059.181	112.65
COT-MW12d	EPIC	Jan 2012	37°17'30.03878"N	120°40'26.44691"W	1928725.309	6511059.001	112.47
COT-MW13s	EPIC	Jan 2012	37°17'22.49160"N	120°40'25.52216"W	1927961.851	6511132.309	115.03
COT-MW13d	EPIC	Jan 2012	37°17'22.48968"N	120°40'25.52389"W	1927961.657	6511132.169	114.44
COT-MW14s	EPIC	Jan 2012	37°17'23.91196"N	120°40'13.88192"W	1928103.775	6512073.200	115.55
COT-MW14d	EPIC	Jan 2012	37°17'23.91283"N	120°40'13.88406"W	1928103.863	6512073.027	115.26
Gallo Cattle Company Santa Rita							
SAN-MW1s	EPIC	Jan 2012	37°16'57.69979"N	120°38'31.96060"W	1925438.921	6520305.226	116.23
SAN-MW1d	EPIC	Jan 2012	37°16'57.69833"N	120°38'31.96248"W	1925438.773	6520305.074	116.03
SAN-MW2s	EPIC	Jan 2012	37°17'13.44979"N	120°38'08.71449"W	1927029.082	6522186.191	119.16
SAN-MW2d	EPIC	Jan 2012	37°17'13.44891"N	120°38'08.71063"W	1927028.993	6522186.502	118.91
SAN-MW3s	EPIC	Jan 2012	37°17'09.61524"N	120°38'14.03968"W	1926641.884	6521755.287	118.72
SAN-MW3d	EPIC	Jan 2012	37°17'09.61246"N	120°38'14.04176"W	1926641.604	6521755.119	118.50
SAN-MW4s	EPIC	Jan 2012	37°17'03.21286"N	120°38'11.52487"W	1925994.052	6521957.570	118.83
SAN-MW4d	EPIC	Jan 2012	37°17'03.21149"N	120°38'11.52045"W	1925993.913	6521957.927	118.44
SAN-MW5s	EPIC	Jan 2012	37°17'23.28174"N	120°38'45.95843"W	1928028.015	6519178.018	115.06
SAN-MW5d	EPIC	Jan 2012	37°17'23.27979"N	120°38'45.95885"W	1928027.819	6519177.984	114.91
SAN-MW6s	EPIC	Jan 2012	37°16'24.29376"N	120°39'30.91131"W	1922067.901	6515535.349	110.31
SAN-MW6d	EPIC	Jan 2012	37°16'24.29131"N	120°39'30.90973"W	1922067.652	6515535.477	110.13
SAN-MW7s	EPIC	Jan 2012	37°16'24.10763"N	120°38'53.16526"W	1922044.076	6518586.176	110.67
SAN-MW7d	EPIC	Jan 2012	37°16'24.10632"N	120°38'53.16935"W	1922043.944	6518585.846	110.60
SAN-MW8s	EPIC	Jan 2012	37°16'24.08679"N	120°38'39.40593"W	1922040.231	6519698.284	112.46
SAN-MW8d	EPIC	Jan 2012	37°16'24.08670"N	120°38'39.40262"W	1922040.222	6519698.551	112.27
Genasci Dairy Inc							
GEN-MW1	EPIC	Oct 2013	N37°39'41.40566"	W121°06'56.18273"	2063916.224	6383472.692	56.22
GEN-MW2	EPIC	Oct 2013	N37°39'41.52289"	W121°06'48.30632"	2063923.922	6384106.069	54.22
GEN-MW3	EPIC	Oct 2013	N37°39'43.70529"	W121°06'56.33243"	2064148.889	6383462.185	58.70
GEN-MW5	EPIC	Oct 2013	N37°39'41.44324"	W121°06'39.41444"	2063911.189	6384820.965	58.37
GEN-MW6	EPIC	Oct 2013	N37°39'35.66755"	W121°06'31.54693"	2063322.909	6385449.750	59.64
GEN-MW7	EPIC	Oct 2013	N37°39'37.26748"	W121°06'44.00448"	2063491.261	6384449.142	59.50
GEN-MW8	EPIC	Oct 2013	N37°39'44.18283"	W121°06'48.34649"	2064192.972	6384104.603	56.91
GEN-MW9	EPIC	Oct 2013	N37°39'50.67130"	W121°06'56.38369"	2064853.464	6383462.699	56.88

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Well Name	Surveyor	Survey Date	Latitude	Longitude	Northing US State Plane 1983, NAD83 † (feet)	Easting US State Plane 1983, NAD83 † (feet)	Elevation (NAVD88) (feet)
GEN-MW10	EPIC	Oct 2013	N37°39'48.16415"	W121°06'48.00470"	2064595.465	6384134.723	58.51
GEN-MW11s	EPIC	Oct 2013	N37°39'54.98251"	W121°06'48.34676"	2065285.260	6384111.741	57.61
GEN-MW11d	EPIC	Oct 2013	N37°39'54.98038"	W121°06'48.34947"	2065285.046	6384111.522	57.63
GEN-MW12s	EPIC	Oct 2013	N37°39'48.41522"	W121°06'31.64519"	2064612.270	6385450.236	60.37
GEN-MW12d	EPIC	Oct 2013	N37°39'48.41567"	W121°06'31.64158"	2064612.313	6385450.527	60.35
P. & L. Souza Dairy							
PLS-MW1s	EPIC	Jan 2012	37°22'46.69551"N	120°51'52.64854"W	1960911.327	6455734.649	92.32
PLS-MW1d	EPIC	Jan 2012	37°22'46.69900"N	120°51'52.64773"W	1960911.679	6455734.716	92.08
PLS-MW2s	EPIC	Jan 2012	37°22'44.78284"N	120°51'52.71812"W	1960717.902	6455728.279	90.82
PLS-MW2d	EPIC	Jan 2012	37°22'44.78105"N	120°51'52.72073"W	1960717.721	6455728.068	90.63
PLS-MW3s	EPIC	Jan 2012	37°22'57.17464"N	120°51'43.88895"W	1961968.436	6456445.743	91.23
PLS-MW3d	EPIC	Jan 2012	37°22'57.17756"N	120°51'43.88895"W	1961968.731	6456445.744	91.08
PLS-MW4s	EPIC	Jan 2012	37°22'51.99868"N	120°51'50.09978"W	1961446.887	6455942.447	92.26
PLS-MW4d	EPIC	Jan 2012	37°22'51.99525"N	120°51'50.10178"W	1961446.540	6455942.284	91.85
PLS-MW5s	EPIC	Jan 2012	37°22'48.59661"N	120°51'45.42111"W	1961101.337	6456318.725	90.73
PLS-MW5d	EPIC	Jan 2012	37°22'48.59856"N	120°51'45.41842"W	1961101.532	6456318.943	90.62
PLS-MW6s	EPIC	Jan 2012	37°22'58.58103"N	120°52'06.86794"W	1962117.918	6454591.728	90.09
PLS-MW6d	EPIC	Jan 2012	37°22'58.58133"N	120°52'06.86607"W	1962117.948	6454591.879	89.79
PLS-MW7s	EPIC	Jan 2012	37°22'52.25902"N	120°51'59.05933"W	1961476.038	6455219.434	91.18
PLS-MW7d	EPIC	Jan 2012	37°22'52.26046"N	120°51'59.05692"W	1961476.184	6455219.629	90.87
Paul Caetano Dairy							
CAE-MW1s	EPIC	Jan 2012	37°25'22.56002"N	120°48'36.29975"W	1976618.317	6471634.321	108.77
CAE-MW1d	EPIC	Jan 2012	37°25'22.56178"N	120°48'36.29599"W	1976618.494	6471634.624	108.34
CAE-MW2s	EPIC	Jan 2012	37°25'25.49210"N	120°48'47.11463"W	1976917.773	6470762.943	108.10
CAE-MW2d	EPIC	Jan 2012	37°25'25.48954"N	120°48'47.11169"W	1976917.513	6470763.179	107.90
CAE-MW3s	EPIC	Jan 2012	37°25'22.10578"N	120°48'47.16781"W	1976575.295	6470757.506	107.36
CAE-MW3d	EPIC	Jan 2012	37°25'22.10483"N	120°48'47.16401"W	1976575.197	6470757.813	107.26
CAE-MW4s	EPIC	Jan 2012	37°25'26.90864"N	120°48'41.48530"W	1977059.527	6471217.498	109.41
CAE-MW4d	EPIC	Jan 2012	37°25'26.90921"N	120°48'41.48176"W	1977059.583	6471217.783	109.19
CAE-MW5s	EPIC	Jan 2012	37°25'33.89102"N	120°48'26.55485"W	1977761.743	6472424.147	108.50
CAE-MW5d	EPIC	Jan 2012	37°25'33.88872"N	120°48'26.55295"W	1977761.510	6472424.300	108.09
CAE-MW6s	EPIC	Jan 2012	37°25'34.77668"N	120°48'20.27318"W	1977849.660	6472931.123	111.55
CAE-MW6d	EPIC	Jan 2012	37°25'34.77507"N	120°48'20.27286"W	1977849.497	6472931.148	111.42
Robert Gioletti and Sons Dairy							
ROB-MW1s	EPIC	Jan 2012	37°29'56.65387"N	120°57'50.61736"W	2004525.007	6427058.484	73.89
ROB-MW1d	EPIC	Jan 2012	37°29'56.65098"N	120°57'50.61587"W	2004524.714	6427058.603	73.59
ROB-MW2s	EPIC	Jan 2012	37°29'53.34001"N	120°57'50.58588"W	2004189.831	6427059.358	74.16
ROB-MW2d	EPIC	Jan 2012	37°29'53.33850"N	120°57'50.58807"W	2004189.679	6427059.181	74.00
ROB-MW3s	EPIC	Jan 2012	37°29'37.87393"N	120°57'50.38848"W	2002625.513	6427067.510	73.42
ROB-MW3d	EPIC	Jan 2012	37°29'37.87531"N	120°57'50.39053"W	2002625.654	6427067.345	73.30
ROB-MW4s	EPIC	Jan 2012	37°29'34.90026"N	120°57'50.29607"W	2002324.720	6427073.466	72.83
ROB-MW4d	EPIC	Jan 2012	37°29'34.89856"N	120°57'50.29786"W	2002324.550	6427073.321	72.64
ROB-MW5s	EPIC	Jan 2012	37°29'39.80214"N	120°57'40.42621"W	2002816.565	6427871.298	74.04
ROB-MW5d	EPIC	Jan 2012	37°29'39.80084"N	120°57'40.42268"W	2002816.432	6427871.582	73.93
ROB-MW6s	EPIC	Jan 2012	37°29'48.26029"N	120°58'19.47210"W	2003687.710	6424729.054	73.11
ROB-MW6d	EPIC	Jan 2012	37°29'48.25807"N	120°58'19.47455"W	2003687.487	6424728.856	72.94

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Well Name	Surveyor	Survey Date	Latitude	Longitude	Northing US State Plane 1983, NAD83 † (feet)	Easting US State Plane 1983, NAD83 † (feet)	Elevation (NAVD88) (feet)
ROB-MW7s	EPIC	Jan 2012	37°29'36.00501"N	120°58'11.41449"W	2002444.946	6425372.144	72.17
ROB-MW7d	EPIC	Jan 2012	37°29'36.00660"N	120°58'11.41749"W	2002445.108	6425371.903	71.89
ROB-MW8s	EPIC	Jan 2012	37°29'46.97593"N	120°58'03.35110"W	2003551.288	6426027.494	72.39
ROB-MW8d	EPIC	Jan 2012	37°29'46.97717"N	120°58'03.35358"W	2003551.415	6426027.295	72.32
Troost Dairy							
TRO-MW1	EPIC	Dec 2012	N37°06'42.07134"	W120°23'01.82585"	1863160.245	6595539.014	181.28
TRO-MW2	EPIC	Dec 2012	N37°06'15.27050"	W120°23'30.90534"	1860446.797	6593186.69	179.04
TRO-MW3	EPIC	Dec 2012	N37°06'23.78987"	W120°23'35.77920"	1861307.99	6592790.883	176.14
Woods Dairy							
WOO-MW1	EPIC	Jan 2013	N38°06'30.39401"	W121°20'35.63032"	2227167.832	6319052.244	27.27
WOO-MW2	EPIC	Jan 2013	N38°06'04.73006"	W121°20'35.21811"	2224571.671	6319061.801	23.51
WOO-MW3	EPIC	Jan 2013	N38°06'21.14705"	W121°20'59.72997"	2226249.942	6317117.704	25.99
Central Area – West Side							
Antone L. Gomes and Sons Dairy							
ANT-MW1s	EPIC	Jan 2012	37°20'08.26754"N	121°01'10.69348"W	1945100.927	6410605.723	89.89
ANT-MW1d	EPIC	Jan 2012	37°20'08.26942"N	121°01'10.69239"W	1945101.117	6410605.811	89.78
ANT-MW2s	EPIC	Jan 2012	37°20'00.87264"N	121°01'06.10806"W	1944350.964	6410971.887	89.09
ANT-MW2d	EPIC	Jan 2012	37°20'00.87632"N	121°01'06.11021"W	1944351.338	6410971.716	88.69
ANT-MW3s	EPIC	Jan 2012	37°20'06.98170"N	121°01'02.76616"W	1944967.332	6411245.194	90.32
ANT-MW3d	EPIC	Jan 2012	37°20'06.98423"N	121°01'02.76453"W	1944967.587	6411245.327	90.10
ANT-MW4s	EPIC	Jan 2012	37°20'02.68128"N	121°01'02.91208"W	1944532.458	6411231.004	89.41
ANT-MW4d	EPIC	Jan 2012	37°20'02.67872"N	121°01'02.91084"W	1944532.200	6411231.103	89.28
ANT-MW5s	EPIC	Jan 2012	37°20'15.02400"N	121°01'17.70762"W	1945787.417	6410043.087	92.93
ANT-MW5d	EPIC	Jan 2012	37°20'15.02559"N	121°01'17.70432"W	1945787.576	6410043.354	92.74
ANT-MW6s	EPIC	Jan 2012	37°20'13.71002"N	121°00'59.37003"W	1945646.309	6411523.214	88.07
ANT-MW6d	EPIC	Jan 2012	37°20'13.70878"N	121°00'59.36706"W	1945646.182	6411523.453	87.69
Correia Family Dairy Farms							
COR-MW1s	EPIC	Jan 2012	37°07'45.64261"N	120°57'55.18678"W	1869909.804	6426020.918	109.66
COR-MW1d	EPIC	Jan 2012	37°07'45.64322"N	120°57'55.18389"W	1869909.864	6426021.152	109.54
COR-MW2s	EPIC	Jan 2012	37°07'28.38278"N	120°58'08.63525"W	1868169.606	6424923.102	111.92
COR-MW2d	EPIC	Jan 2012	37°07'28.38214"N	120°58'08.63235"W	1868169.540	6424923.337	111.69
COR-MW3s	EPIC	Jan 2012	37°07'22.67617"N	120°58'09.02423"W	1867592.606	6424888.708	113.06
COR-MW3d	EPIC	Jan 2012	37°07'22.67346"N	120°58'09.02507"W	1867592.332	6424888.638	112.90
COR-MW4s	EPIC	Jan 2012	37°07'27.15911"N	120°58'02.36700"W	1868043.307	6425430.125	111.56
COR-MW4d	EPIC	Jan 2012	37°07'27.15704"N	120°58'02.36785"W	1868043.097	6425430.055	111.43
COR-MW5s	EPIC	Jan 2012	37°07'23.56552"N	120°58'02.05758"W	1867679.731	6425453.368	111.83
COR-MW5d	EPIC	Jan 2012	37°07'23.56309"N	120°58'02.05589"W	1867679.485	6425453.504	111.69
Frank J. Gomes Dairy #2							
FG2-MW1s	EPIC	Jan 2012	37°16'35.18080"N	120°58'38.46132"W	1923484.137	6422789.698	81.51
FG2-MW1d	EPIC	Jan 2012	37°16'35.18150"N	120°58'38.46454"W	1923484.209	6422789.438	81.32
FG2-MW2s	EPIC	Jan 2012	37°16'39.32858"N	120°59'07.94912"W	1923915.898	6420408.622	85.44
FG2-MW2d	EPIC	Jan 2012	37°16'39.32585"N	120°59'07.94852"W	1923915.622	6420408.669	85.31
FG2-MW3s	EPIC	Jan 2012	37°16'41.13494"N	120°58'57.21752"W	1924094.104	6421276.896	85.78
FG2-MW3d	EPIC	Jan 2012	37°16'41.13330"N	120°58'57.22188"W	1924093.940	6421276.543	85.34
FG2-MW4s	EPIC	Jan 2012	37°16'29.47398"N	120°58'57.73820"W	1922914.949	6421228.730	87.36
FG2-MW4d	EPIC	Jan 2012	37°16'29.47485"N	120°58'57.73636"W	1922915.037	6421228.880	86.91

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FG2-MW5s	EPIC	Jan 2012	37°16'25.04962"N	120°59'07.61392"W	1922471.604	6420428.221	83.56
FG2-MW5d	EPIC	Jan 2012	37°16'25.05188"N	120°59'07.61331"W	1922471.833	6420428.272	83.35
Godinho Dairy							
GOD-MW1s	EPIC	Jan 2012	37°06'28.48029"N	120°51'43.29542"W	1861972.553	6456106.817	98.17
GOD-MW1d	EPIC	Jan 2012	37°06'28.48317"N	120°51'43.29815"W	1861972.846	6456106.598	98.08
GOD-MW2s	EPIC	Jan 2012	37°06'24.51633"N	120°52'14.90173"W	1861581.667	6453544.984	102.40
GOD-MW2d	EPIC	Jan 2012	37°06'24.51835"N	120°52'14.90554"W	1861581.872	6453544.677	102.30
(a) GOD-MW3s	EPIC	Jan 2012	37°06'25.22493"N	120°52'02.95092"W	1861649.515	6454513.346	101.39
(a) GOD-MW3d	EPIC	Jan 2012	37°06'25.22379"N	120°52'02.95344"W	1861649.400	6454513.142	101.26
(a) GOD-MW4s	EPIC	Jan 2012	37°06'23.97404"N	120°51'55.01312"W	1861520.484	6455155.855	101.65
(a) GOD-MW4d	EPIC	Jan 2012	37°06'23.97541"N	120°51'55.01459"W	1861520.623	6455155.737	101.30
GOD-MW5s	EPIC	Jan 2012	37°06'00.19974"N	120°52'28.96212"W	1859126.846	6452396.170	102.42
GOD-MW5d	EPIC	Jan 2012	37°06'00.20130"N	120°52'28.96149"W	1859127.003	6452396.222	102.16
GOD-MW6s	EPIC	Jan 2012	37°06'13.16388"N	120°52'15.52427"W	1860433.690	6453490.004	100.68
GOD-MW6d	EPIC	Jan 2012	37°06'13.16317"N	120°52'15.52058"W	1860433.617	6453490.303	100.61
GOD-MW7s	EPIC	Jan 2012	37°06'06.99391"N	120°52'15.73766"W	1859809.734	6453470.244	100.43
GOD-MW7d	EPIC	Jan 2012	37°06'06.99293"N	120°52'15.73371"W	1859809.634	6453470.563	100.35
John Machado Dairy							
MAC-MW1s	EPIC	Jan 2012	37°06'40.11627"N	120°53'43.20962"W	1863188.709	6446398.238	100.43
MAC-MW1d	EPIC	Jan 2012	37°06'40.11813"N	120°53'43.21088"W	1863188.898	6446398.138	100.34
MAC-MW2s	EPIC	Jan 2012	37°06'39.99549"N	120°53'37.43831"W	1863174.523	6446865.667	99.42
MAC-MW2d	EPIC	Jan 2012	37°06'39.99338"N	120°53'37.43697"W	1863174.309	6446865.775	99.16
MAC-MW3s	EPIC	Jan 2012	37°06'51.94922"N	120°53'56.33020"W	1864389.992	6445340.566	98.06
MAC-MW3d	EPIC	Jan 2012	37°06'51.94681"N	120°53'56.33329"W	1864389.749	6445340.314	97.88
MAC-MW4s	EPIC	Jan 2012	37°06'47.67013"N	120°53'42.26644"W	1863952.376	6446477.862	98.51
MAC-MW4d	EPIC	Jan 2012	37°06'47.67187"N	120°53'42.26464"W	1863952.552	6446478.008	98.25
MAC-MW5s	EPIC	Jan 2012	37°06'45.42223"N	120°53'42.34915"W	1863725.054	6446470.202	98.23
MAC-MW5d	EPIC	Jan 2012	37°06'45.41991"N	120°53'42.34926"W	1863724.819	6446470.192	98.06
Jose Nunes Dairy							
NUN-MW1s	EPIC	Jan 2012	37°07'04.16920"N	120°53'35.56473"W	1865618.789	6447027.701	95.23
NUN-MW1d	EPIC	Jan 2012	37°07'04.17028"N	120°53'35.56627"W	1865618.899	6447027.576	94.96
NUN-MW2s	EPIC	Jan 2012	37°06'55.30484"N	120°53'45.09682"W	1864725.511	6446251.871	97.08
NUN-MW2d	EPIC	Jan 2012	37°06'55.30273"N	120°53'45.09652"W	1864725.298	6446251.895	96.89
NUN-MW3s	EPIC	Jan 2012	37°07'01.75193"N	120°53'35.07530"W	1865374.143	6447066.314	93.92
NUN-MW3d	EPIC	Jan 2012	37°07'01.74927"N	120°53'35.07401"W	1865373.873	6447066.418	93.86
NUN-MW4s	EPIC	Jan 2012	37°06'57.74552"N	120°53'35.27274"W	1864969.005	6447048.620	95.61
NUN-MW4d	EPIC	Jan 2012	37°06'57.74366"N	120°53'35.26960"W	1864968.816	6447048.874	95.54
NUN-MW5s	EPIC	Jan 2015	37°07'01.17280"N	120°53'40.20761"W	1865313.588	6446637.487	96.44
NUN-MW5d	EPIC	Jan 2015	37°07'01.17511"N	120°53'40.20344"W	1865313.821	6446637.826	96.55
Moonshine Dairy							
MOO-MW1	EPIC	Dec 2012	N37°23'51.20785"	W121°00'52.68231"	1967636.849	6412171.43	73.96
MOO-MW2	EPIC	Dec 2012	N37°23'44.59111"	W121°00'42.88463"	1966963.304	6412958.349	75.58
MOO-MW3	EPIC	Dec 2012	N37°23'42.85525"	W121°01'03.92208"	1966797.08	6411259.815	76.89
MOO-MW4	EPIC	Dec 2012	N37°23'25.47479"	W121°01'06.33814"	1965040.324	6411055.118	78.20
MOO-MW5s	EPIC	Jan 2012	37°23'38.24581"N	121°00'57.26817"W	1966331.855	6411806.992	77.04
MOO-MW5d	EPIC	Jan 2012	37°23'38.24582"N	121°00'57.26817"W	1966331.856	6411806.992	77.03

Table 2-4
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Well Name	Surveyor	Survey Date	Latitude	Longitude	Northing US State Plane 1983, NAD83 † (feet)	Easting US State Plane 1983, NAD83 † (feet)	Elevation (NAVD88) (feet)
MOO-MW6s	EPIC	Jan 2012	37°24'04.55404"N	121°00'39.70096"W	1968984.863	6413239.098	71.52
MOO-MW6d	EPIC	Jan 2012	37°24'04.55611"N	121°00'39.70284"W	1968985.072	6413238.947	71.42
MOO-MW7s	EPIC	Jan 2012	37°24'18.38577"N	121°00'21.05594"W	1970375.616	6414751.062	69.25
MOO-MW7d	EPIC	Jan 2012	37°24'18.38381"N	121°00'21.05809"W	1970375.418	6414750.888	69.16
MOO-MW8s	EPIC	Jan 2012	37°24'14.62122"N	121°00'07.94414"W	1969989.175	6415806.913	69.20
MOO-MW8d	EPIC	Jan 2012	37°24'14.62266"N	121°00'07.94086"W	1969989.320	6415807.179	69.12
Tony L. Lopes Dairy LP							
TON-MW1s	EPIC	Jan 2012	37°10'22.93101"N	120°59'00.79604"W	1885487.699	6420924.321	104.77
TON-MW1d	EPIC	Jan 2012	37°10'22.92989"N	120°59'00.79792"W	1885487.720	6420924.133	104.64
TON-MW2s	EPIC	Jan 2012	37°10'19.63316"N	120°58'47.06119"W	1884483.691	6421506.505	101.55
TON-MW2d	EPIC	Jan 2012	37°10'19.63630"N	120°58'47.05916"W	1884483.809	6421506.842	101.38
TON-MW3s	EPIC	Jan 2012	37°10'09.40729"N	120°59'17.84529"W	1885435.003	6418982.105	110.28
TON-MW3d	EPIC	Jan 2012	37°10'09.40516"N	120°59'17.84318"W	1885434.728	6418982.082	110.18
TON-MW4s	EPIC	Jan 2012	37°10'23.13052"N	120°59'11.00857"W	1886068.141	6420335.533	107.54
TON-MW4d	EPIC	Jan 2012	37°10'23.12819"N	120°59'11.00887"W	1886067.985	6420335.354	107.25
TON-MW5s	EPIC	Jan 2012	37°10'14.26730"N	120°59'07.16329"W	1885201.584	6419948.864	107.86
TON-MW5d	EPIC	Jan 2012	37°10'14.26884"N	120°59'07.16461"W	1885201.770	6419948.892	107.78
TON-MW6s	EPIC	Jan 2012	37°10'45.45642"N	120°58'35.71193"W	1888112.413	6422831.780	98.66
TON-MW6d	EPIC	Jan 2012	37°10'45.45399"N	120°58'35.70886"W	1888112.165	6422832.027	98.37
TON-MW7s	EPIC	Jan 2012	37°10'58.15668"N	120°58'11.19270"W	1889386.865	6424822.487	100.61
TON-MW7d	EPIC	Jan 2012	37°10'58.15755"N	120°58'11.19004"W	1889386.952	6424822.703	100.29
TON-MW8s	EPIC	Jan 2012	37°10'46.49830"N	120°58'08.98903"W	1888206.859	6424994.903	94.01
TON-MW8d	EPIC	Jan 2012	37°10'46.50023"N	120°58'08.98749"W	1888207.053	6424995.028	93.62
North Area							
Brentwood Farms							
BRE-MW1s	Precision	Jan 2013	39°50'01.6164" N	122°07'58.7802" W	1822762.93	6524314.64	216.29
BRE-MW1d	Precision	Jan 2013	39°50'01.6150" N	122°07'58.7867" W	1822762.79	6524314.13	216.30
BRE-MW2s	Precision	Jan 2013	39°49'43.4480" N	122°07'57.1162" W	1820924.23	6524441.67	227.14
BRE-MW2d	Precision	Jan 2013	39°49'43.3520" N	122°07'56.8669" W	1820914.51	6524461.11	226.97
BRE-MW3s	Precision	Jan 2013	39°49'51.4656" N	122°07'29.5682" W	1821732.41	6526592.14	212.98
BRE-MW3d	Precision	Jan 2013	39°49'51.4685" N	122°07'29.5687" W	1821732.71	6526592.11	212.99
Creekside Dairy							
CRE-MW1s	Precision	Jan 2013	39°41'14.5703" N	122°13'45.3331" W	2376441.99	6497146.79	218.42
CRE-MW1d	Precision	Jan 2013	39°41'14.5664" N	122°13'45.3320" W	2376441.61	6497146.87	218.41
CRE-MW2s	Precision	Jan 2013	39°41'06.2443" N	122°13'45.4155" W	2375599.58	6497138.22	217.22
CRE-MW2d	Precision	Jan 2013	39°41'06.2417" N	122°13'45.4133" W	2375599.31	6497138.38	217.24
CRE-MW3s	Precision	Jan 2013	39°41'10.8762" N	122°13'20.3666" W	2376063.37	6499097.61	213.78
CRE-MW3d	Precision	Jan 2013	39°41'10.8765" N	122°13'20.3627" W	2376063.41	6499097.91	213.78
MTSJ Dairy							
MTS-MW1	Precision	Jan 2013	39°39'32.8247" N	122°08'55.9494" W	2366100.17	6519752.38	186.64
MTS-MW2s	Precision	Jan 2013	39°39'28.1682" N	122°08'43.6063" W	2365627.45	6520716.83	180.86
MTS-MW2d	Precision	Jan 2013	39°39'28.1667" N	122°08'43.6089" W	2365627.31	6520716.62	180.94
MTS-MW3s	Precision	Jan 2013	39°39'16.7303" N	122°08'43.7620" W	2364470.18	6520702.81	178.24
MTS-MW3d	Precision	Jan 2013	39°39'16.7330" N	122°08'43.7612" W	2364470.45	6520702.86	178.26

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Well Name	Surveyor	Survey Date	Latitude	Longitude	Northing US State Plane 1983, NAD83 † (feet)	Easting US State Plane 1983, NAD83 † (feet)	Elevation (NAVD88) (feet)
South Area							
Aukeman Dairy							
AUK-MW1	JWA	Sep 2013	36°06'19.126"N	119°21'49.740"W	1921657.320	6454190.771	241.06
AUK-MW2	JWA	Sep 2013	36°06'17.220"N	119°22'32.511"W	1921478.091	6450680.292	240.26
AUK-MW3	JWA	Sep 2013	36°06'02.133"N	119°22'23.658"W	1919949.600	6451400.868	238.18
Dairyland Farms							
DLF-MW1	JWA	Aug 2013	36°05'02.153"N	119°13'08.444"W	1913743.845	6496949.958	321.73
DLF-MW2	JWA	Aug 2013	36°04'37.237"N	119°13'29.532"W	1911228.341	6495213.157	309.61
DLF-MW3	JWA	Aug 2013	36°04'36.890"N	119°13'50.908"W	1911197.400	6493458.266	309.65
DLF-MW4A	JWA	Aug 2013	36°04'37.059"N	119°13'25.230"W	1911209.495	6495566.216	314.08
DLF-MW4B	JWA	Aug 2013	36°04'37.022"N	119°13'25.347"W	1911205.825	6495556.638	308.46
DLF-MW4C	JWA	Aug 2013	36°04'37.020"N	119°13'25.350"W	1911205.581	6495556.377	308.44
DLF-MW5A	JWA	Aug 2013	36°04'35.966"N	119°13'08.332"W	1911095.747	6496953.127	316.18
DLF-MW5B	JWA	Aug 2013	36°04'35.958"N	119°13'08.474"W	1911095.021	6496941.485	316.14
DLF-MW5C	JWA	Aug 2013	36°04'35.960"N	119°13'08.470"W	1911095.180	6496941.762	316.29
DLF-MW6A	JWA	Aug 2013	36°05'02.358"N	119°14'28.623"W	1913780.382	6490368.832	302.59
DLF-MW6B	JWA	Aug 2013	36°05'02.252"N	119°14'28.628"W	1913769.649	6490368.330	302.77
DLF-MW6C	JWA	Aug 2013	36°05'02.253"N	119°14'28.626"W	1913769.755	6490368.537	302.44
DLF-MW6D	JWA	Aug 2013	36°05'02.250"N	119°14'28.628"W	1913769.404	6490368.393	302.34
Elkhorn Dairy							
ELK-MW1	JWA	Aug 2013	36°27'46.436"N	119°20'53.492"W	2051815.212	6459278.428	311.83
ELK-MW2A	JWA	Aug 2013	36°27'59.590"N	119°20'53.262"W	2053145.312	6459301.967	308.01
ELK-MW2B	JWA	Aug 2013	36°27'59.470"N	119°20'53.269"W	2053133.200	6459301.397	308.32
ELK-MW3A	JWA	Aug 2013	36°28'13.546"N	119°20'43.393"W	2054553.667	6460113.192	314.25
ELK-MW3B	JWA	Aug 2013	36°28'13.547"N	119°20'43.393"W	2054553.834	6460113.152	314.05
ELK-MW4	JWA	Aug 2013	36°28'20.402"N	119°20'25.239"W	2055241.664	6461598.316	314.68
Giacomazzi Dairy							
ZZI-MW1A	JWA	Oct 2013	36°19'57.864"N	119°34'02.000"W	2004739.515	6394591.914	248.34
ZZI-MW1B	JWA	Oct 2013	36°19'57.859"N	119°34'02.167"W	2004739.114	6394578.266	248.48
ZZI-MW1C	JWA	Oct 2013	36°19'57.859"N	119°34'02.163"W	2004739.028	6394578.538	248.50
ZZI-MW1D	JWA	Oct 2013	36°19'57.864"N	119°34'02.164"W	2004739.551	6394578.439	248.48
ZZI-MW2A	JWA	Oct 2013	36°19'54.056"N	119°34'03.047"W	2004354.888	6394503.920	246.62
ZZI-MW2B	JWA	Oct 2013	36°19'54.169"N	119°34'03.039"W	2004366.320	6394504.664	246.88
ZZI-MW2C	JWA	Oct 2013	36°19'54.165"N	119°34'03.040"W	2004365.946	6394504.566	246.88
ZZI-MW2D	JWA	Oct 2013	36°19'54.167"N	119°34'03.042"W	2004366.179	6394504.392	246.87
ZZI-MW3A	JWA	Oct 2013	36°19'53.386"N	119°34'10.234"W	2004290.654	6393915.476	249.13
ZZI-MW3AA	JWA	Oct 2013	36°19'53.494"N	119°34'10.237"W	2004301.610	6393915.301	248.84
ZZI-MW3B	JWA	Oct 2013	36°19'53.270"N	119°34'10.239"W	2004278.962	6393915.036	248.93
ZZI-MW5A	JWA	Oct 2013	36°19'50.445"N	119°34'25.949"W	2004000.947	6392627.923	246.70
ZZI-MW5B	JWA	Oct 2013	36°19'50.320"N	119°34'26.080"W	2003988.336	6392617.179	247.55
ZZI-MW5C	JWA	Oct 2013	36°19'50.318"N	119°34'26.080"W	2003988.126	6392617.157	247.43
ZZI-MW5D	JWA	Oct 2013	36°19'50.318"N	119°34'26.076"W	2003988.179	6392617.440	247.21
ZZI-MW6A	JWA	Oct 2013	36°19'58.736"N	119°34'26.416"W	2004839.503	6392594.775	249.00
ZZI-MW6B	JWA	Oct 2013	36°19'58.602"N	119°34'26.422"W	2004825.991	6392594.200	248.70
ZZI-MW6C	JWA	Oct 2013	36°19'58.598"N	119°34'26.421"W	2004825.630	6392594.272	248.68
ZZI-MW6D	JWA	Oct 2013	36°19'58.600"N	119°34'26.425"W	2004825.756	6392593.921	248.70

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ZZI-MW7A	JWA	Oct 2013	36°19'54.651"N	119°34'16.340"W	2004421.514	6393416.664	246.86
ZZI-MW7B	JWA	Oct 2013	36°19'54.659"N	119°34'16.505"W	2004422.416	6393403.223	246.47
ZZI-MW7C	JWA	Oct 2013	36°19'54.661"N	119°34'16.498"W	2004422.670	6393403.738	246.50
ZZI-MW7D	JWA	Oct 2013	36°19'54.662"N	119°34'16.504"W	2004422.779	6393403.237	246.52
ZZI-MW9A	JWA	Oct 2013	36°19'50.781"N	119°33'59.462"W	2004022.055	6394795.350	246.19
ZZI-MW9B	JWA	Oct 2013	36°19'50.957"N	119°33'59.514"W	2004039.849	6394791.193	246.26
ZZI-MW9C	JWA	Oct 2013	36°19'50.957"N	119°33'59.507"W	2004039.811	6394791.715	246.12
ZZI-MW9D	JWA	Oct 2013	36°19'50.959"N	119°33'59.510"W	2004040.056	6394791.519	245.98
Holstein Farms Dairy							
HOL-MW1	JWA	Aug 2013	36°06'26.389"N	119°27'53.619"W	1922520.560	6424335.090	215.86
HOL-MW2	JWA	Aug 2013	36°06'04.707"N	119°28'21.641"W	1920339.300	6422024.920	214.69
HOL-MW3	JWA	Aug 2013	36°06'13.195"N	119°28'57.330"W	1921212.170	6419100.490	213.69
Hynes Dairy							
HYN-MW3	JWA	Aug 2013	36°14'50.207"N	119°24'20.490"W	1973387.812	6442038.793	276.75
HYN-MW4	JWA	Aug 2013	36°15'15.971"N	119°23'59.909"W	1975985.998	6443735.419	279.83
HYN-MW5	JWA	Aug 2013	36°15'41.275"N	119°24'10.432"W	1978548.362	6442884.276	282.36
J & A Dairy							
JAD-MW1	JWA	Aug 2013	36°06'33.464"N	119°18'03.025"W	1923042.798	6472799.301	269.78
JAD-MW2	JWA	Aug 2013	36°06'37.010"N	119°17'42.668"W	1923396.178	6474470.799	273.17
JAD-MW3	JWA	Aug 2013	36°06'47.637"N	119°18'13.831"W	1924478.720	6471917.098	268.76
JAD-MW4s	JWA	Aug 2013	36°06'03.952"N	119°18'45.937"W	1920069.711	6469268.452	263.52
JAD-MW4d	JWA	Aug 2013	36°06'03.951"N	119°18'45.941"W	1920069.614	6469268.137	263.38
JAD-MW5s	JWA	Aug 2013	36°05'54.111"N	119°18'14.705"W	1919066.335	6471828.307	267.68
JAD-MW5d	JWA	Aug 2013	36°05'54.113"N	119°18'14.707"W	1919066.535	6471828.100	267.57
JAD-MW6s	JWA	Aug 2013	36°06'06.159"N	119°17'58.647"W	1920280.539	6473149.916	270.94
JAD-MW6d	JWA	Aug 2013	36°06'06.160"N	119°17'58.649"W	1920280.591	6473149.692	270.88
JAD-MW7s	JWA	Aug 2013	36°06'12.656"N	119°17'42.605"W	1920933.416	6474468.341	272.72
JAD-MW7d	JWA	Aug 2013	36°06'12.655"N	119°17'42.603"W	1920933.385	6474468.547	272.51
Longfellow Farming Co.							
LON-MW1A	JWA	Aug 2013	36°15'17.992"N	119°36'09.091"W	1976502.047	6384015.997	219.22
LON-MW1B	JWA	Aug 2013	36°15'18.022"N	119°36'08.970"W	1976505.081	6384025.932	219.54
LON-MW1C	JWA	Aug 2013	36°15'18.026"N	119°36'08.971"W	1976505.416	6384025.817	219.36
LON-MW2A	JWA	Aug 2013	36°15'20.221"N	119°36'11.571"W	1976728.728	6383814.283	218.80
LON-MW2B	JWA	Aug 2013	36°15'20.228"N	119°36'11.446"W	1976729.391	6383824.501	218.90
LON-MW2C	JWA	Aug 2013	36°15'20.225"N	119°36'11.442"W	1976729.065	6383824.832	218.73
LON-MW3A	JWA	Aug 2013	36°15'24.101"N	119°36'10.189"W	1977120.388	6383929.980	218.94
LON-MW3B	JWA	Aug 2013	36°15'24.208"N	119°36'10.223"W	1977131.235	6383927.244	218.96
LON-MW3C	JWA	Aug 2013	36°15'24.210"N	119°36'10.225"W	1977131.384	6383927.058	218.65
LON-MW4A	JWA	Aug 2013	36°15'43.665"N	119°36'19.526"W	1979103.542	6383177.739	220.94
LON-MW4B	JWA	Aug 2013	36°15'43.738"N	119°36'19.548"W	1979110.903	6383176.006	221.57
LON-MW4C	JWA	Aug 2013	36°15'43.737"N	119°36'19.545"W	1979110.829	6383176.230	221.40
LON-MW4D	JWA	Aug 2013	36°15'43.736"N	119°36'19.548"W	1979110.676	6383175.970	221.19
LON-MW5A	JWA	Aug 2013	36°16'09.347"N	119°36'19.593"W	1981700.479	6383188.654	222.64
LON-MW5B	JWA	Aug 2013	36°16'09.493"N	119°36'19.457"W	1981715.181	6383199.806	222.36
LON-MW5C	JWA	Aug 2013	36°16'09.492"N	119°36'19.454"W	1981715.130	6383200.060	222.08
LON-MW6A	JWA	Aug 2013	36°16'23.194"N	119°36'18.847"W	1983100.291	6383258.555	222.89

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LON-MW6B	JWA	Aug 2013	36°16'23.196"N	119°36'19.034"W	1983100.623	6383243.255	223.66
LON-MW6C	JWA	Aug 2013	36°16'23.194"N	119°36'19.032"W	1983100.398	6383243.401	223.48
LON-MW7A	JWA	Aug 2013	36°15'30.334"N	119°36'18.621"W	1977754.945	6383243.311	220.53
LON-MW7B	JWA	Aug 2013	36°15'30.420"N	119°36'18.532"W	1977763.666	6383250.673	220.70
LON-MW7C	JWA	Aug 2013	36°15'30.418"N	119°36'18.527"W	1977763.412	6383251.104	220.53
LON-MW7D	JWA	Aug 2013	36°15'30.420"N	119°36'18.528"W	1977763.640	6383251.043	220.29
Machado Dairy							
ADO-MW1d	JWA	Sep 2013	36°40'29.839"N	119°52'36.186"W	2130002.596	6304569.488	253.91
ADO-MW1s	JWA	Sep 2013	36°40'29.837"N	119°52'36.184"W	2130002.378	6304569.661	253.94
ADO-MW2d	JWA	Sep 2013	36°40'28.091"N	119°52'38.912"W	2129827.827	6304345.797	254.02
ADO-MW2s	JWA	Sep 2013	36°40'28.090"N	119°52'38.914"W	2129827.744	6304345.593	253.99
Manuel and Alda Lawrence Dairy							
MAL-MW1	JWA	Sep 2013	36°13'32.174"N	119°41'06.332"W	1965965.005	6359595.719	205.52
MAL-MW2	JWA	Sep 2013	36°13'16.477"N	119°41'26.041"W	1964389.304	6357969.522	203.59
MAL-MW3	JWA	Sep 2013	36°13'12.958"N	119°40'59.154"W	1964017.734	6360170.014	202.92
MAL-MW4	JWA	Sep 2013	36°13'19.743"N	119°41'12.204"W	1964711.434	6359105.618	203.67
MAL-MW5	JWA	Sep 2013	36°13'13.974"N	119°41'16.453"W	1964130.605	6358753.304	202.47
MAL-MW6	JWA	Sep 2013	36°12'42.306"N	119°41'30.389"W	1960936.497	6357588.394	201.14
MAL-MW7	JWA	Sep 2013	36°13'06.030"N	119°41'44.160"W	1963343.645	6356477.348	199.93
MAL-MW8	JWA	Sep 2013	36°12'53.544"N	119°40'54.533"W	1962051.910	6360534.678	199.90
Maple Avenue Dairy							
MAP-MW8	JWA	Aug 2013	36°26'55.908"N	119°45'27.628"W	2047399.069	6338828.883	242.63
MAP-MW9	JWA	Aug 2013	36°26'45.208"N	119°45'27.652"W	2046317.113	6338818.428	244.85
MAP-MW10	JWA	Aug 2013	36°26'53.331"N	119°44'56.671"W	2047118.618	6341355.927	244.65
Zonneveld Dairy Complex							
ZON-MW1A	JWA	Aug 2013	36°27'15.868"N	119°46'17.036"W	2049449.570	6334808.696	243.51
ZON-MW1B	JWA	Aug 2013	36°27'15.956"N	119°46'17.029"W	2049458.412	6334809.409	243.59
ZON-MW1C	JWA	Aug 2013	36°27'16.064"N	119°46'17.033"W	2049469.313	6334809.164	243.61
ZON-MW2A	JWA	Aug 2013	36°27'35.955"N	119°45'12.667"W	2051439.000	6340082.913	244.57
ZON-MW2B	JWA	Aug 2013	36°27'35.954"N	119°45'12.669"W	2051438.923	6340082.738	244.40
ZON-MW3A	JWA	Aug 2013	36°27'25.535"N	119°45'29.085"W	2050395.875	6338733.517	245.59
ZON-MW3B	JWA	Aug 2013	36°27'25.536"N	119°45'29.087"W	2050396.036	6338733.373	245.48
ZON-MW4A	JWA	Aug 2013	36°27'35.707"N	119°45'44.648"W	2051434.515	6337470.431	245.21
ZON-MW4B	JWA	Aug 2013	36°27'35.707"N	119°45'44.645"W	2051434.539	6337470.636	245.00
ZON-MW5A	JWA	Aug 2013	36°27'34.701"N	119°45'29.194"W	2051322.858	6338731.907	245.64
ZON-MW5B	JWA	Aug 2013	36°27'34.701"N	119°45'29.197"W	2051322.824	6338731.671	245.46
ZON-MW7	JWA	Aug 2013	36°27'34.226"N	119°46'32.877"W	2051316.338	6333529.719	240.20
Richmar Farms Dairy							
RIC-MW1	JWA	Aug 2013	35°13'16.867"N	118°59'10.713"W	2268318.768	6267081.332	319.10
RIC-MW2	JWA	Aug 2013	35°13'16.868"N	118°59'10.656"W	2268318.842	6267085.994	317.19
RIC-MW3	JWA	Aug 2013	35°12'50.750"N	118°59'18.421"W	2265684.676	6266415.881	311.45
RIC-MW4	JWA	Aug 2013	35°12'50.724"N	118°59'18.350"W	2265681.976	6266421.730	311.20
RIC-MW5	JWA	Aug 2013	35°13'08.790"N	118°59'27.489"W	2267515.902	6265681.467	318.76
RIC-MW6	JWA	Aug 2013	35°13'08.725"N	118°59'27.496"W	2267509.348	6265680.821	319.02
RIC-MW7s	JWA	Aug 2013	35°13'23.271"N	118°58'45.623"W	2268945.847	6269169.162	319.68
RIC-MW7d	JWA	Aug 2013	35°13'23.274"N	118°58'45.622"W	2268946.142	6269169.22	319.58

Table 2-4
Surveyed Wellhead Coordinates and Reference Point Elevations
Central Valley Dairy Representative Monitoring Program – Year 8 Annual Report

Well Name	Surveyor	Survey Date	Latitude	Longitude	Northing US State Plane 1983, NAD83 † (feet)	Easting US State Plane 1983, NAD83 † (feet)	Elevation (NAVD88) (feet)
RIC-MW8s	JWA	Aug 2013	35°12'57.719"N	118°58'59.104"W	2266373.464	6268025.448	315.03
RIC-MW8d	JWA	Aug 2013	35°12'57.716"N	118°58'59.106"W	2266373.158	6268025.31	314.91
RIC-MW9s	JWA	Aug 2013	35°12'38.132"N	118°59'07.366"W	2264399.926	6267320.54	311.68
RIC-MW9d	JWA	Aug 2013	35°12'38.133"N	118°59'07.363"W	2264400.027	6267320.866	311.65
Sierra View Dairy							
SIE-MW1	JWA	Aug 2013	36°12'00.909"N	119°16'40.827"W	1956134.131	6479639.804	294.01
SIE-MW2	JWA	Aug 2013	36°11'58.696"N	119°16'24.354"W	1955906.426	6480989.284	295.24
SIE-MW3	JWA	Aug 2013	36°12'12.833"N	119°16'17.031"W	1957334.282	6481593.545	296.60
SIE-MW4	JWA	Aug 2013	36°11'48.473"N	119°16'23.522"W	1954872.527	6481054.541	300.62
Sozinho Dairy No. 2							
SO2-MW1	JWA	Aug 2013	36°29'08.852"N	119°38'10.401"W	2060583.385	6374637.272	274.47
SO2-MW2	JWA	Aug 2013	36°28'59.642"N	119°38'26.352"W	2059660.673	6373328.589	272.48
SO2-MW3	JWA	Aug 2013	36°29'10.072"N	119°38'26.118"W	2060715.288	6373354.723	274.09
SO2-MW4	JWA	Aug 2013	36°29'15.141"N	119°38'41.972"W	2061236.487	6372063.604	272.67
SO2-MW5s	JWA	Aug 2013	36°28'54.533"N	119°38'34.229"W	2059148.396	6372681.914	269.06
SO2-MW5d	JWA	Aug 2013	36°28'54.537"N	119°38'34.231"W	2059148.751	6372681.78	268.81
SO2-MW6s	JWA	Aug 2013	36°28'41.918"N	119°38'34.697"W	2057872.992	6372635.136	267.21
SO2-MW6d	JWA	Aug 2013	36°28'41.917"N	119°38'34.702"W	2057872.901	6372634.751	267.08
SO2-MW7s	JWA	Aug 2013	36°28'41.891"N	119°38'19.632"W	2057862.038	6373865.412	268.64
SO2-MW7d	JWA	Aug 2013	36°28'41.890"N	119°38'19.628"W	2057861.909	6373865.708	268.54
SO2-MW8s	JWA	Aug 2013	36°29'01.208"N	119°38'25.931"W	2059818.831	6373364.013	272.44
SO2-MW8d	JWA	Aug 2013	36°29'01.210"N	119°38'25.933"W	2059818.992	6373363.858	272.40
Sozinho Jerseys							
SOJ-MW1	JWA	Aug 2013	36°32'49.342"N	119°42'04.698"W	2083012.983	6355668.278	287.72
SOJ-MW2	JWA	Aug 2013	36°32'36.958"N	119°42'07.553"W	2081762.335	6355426.129	281.28
SOJ-MW3	JWA	Aug 2013	36°32'48.183"N	119°42'15.394"W	2082902.138	6354794.654	278.71
SOJ-MW4	JWA	Aug 2013	36°32'37.047"N	119°42'18.570"W	2081777.921	6354527.272	278.57
SOJ-MW5s	JWA	Aug 2013	36°32'37.304"N	119°42'07.030"W	2081797.064	6355469.088	282.51
SOJ-MW5d	JWA	Aug 2013	36°32'37.306"N	119°42'07.027"W	2081797.229	6355469.335	282.50
SOJ-MW6s	JWA	Aug 2013	36°32'40.492"N	119°42'07.040"W	2082119.380	6355470.627	281.82
SOJ-MW6d	JWA	Aug 2013	36°32'40.494"N	119°42'07.042"W	2082119.609	6355470.499	281.66

† Central Area = Zone 3 | North Area = Zone 1 | South Area = Zone 4, except RIC (Zone 5)

EPIC = EPIC Land Surveying, Inc. (a) Abandoned by destruction

Precision = Precision Surveying

JWA = James Winton and Associates

Horizontal and vertical coordinates are for the top of the PVC well casing (north side unless marked otherwise, cap off).

For each dairy: The horizontal coordinates for each monitoring well are within +/- one foot lateral accuracy. The elevation of each monitoring well is within an absolute accuracy of +/- 0.5 foot and a relative accuracy between monitoring wells of +/- 0.01 foot.

Table 2-5
Groundwater Monitoring Activities in 2019
Central Valley Dairy Representative Monitoring Program – Year 8 Annual Report

Monitoring Campaign	Monitoring Activity	Field and Laboratory Analyses
Jan	dtw	
Feb	dtw & gwq	field parameters, general minerals, nitrate, nitrite, ammoniacal N, TKN
Mar	dtw	
Apr	dtw	
May	dtw & gwq	field parameters, TDS, nitrate, ammoniacal N
Jun	dtw	
Jul	dtw	
Aug	dtw & gwq	field parameters, TDS, nitrate, ammoniacal N
Sep	dtw	
Oct	dtw	
Nov	dtw & gwq	field parameters, TDS, nitrate, ammoniacal N
Dec	dtw	

dtw = depth to groundwater measurements; gwq = groundwater quality sampling
Field Parameters = temperature, pH, specific conductance, dissolved oxygen, oxygen reduction potential, turbidity
General Minerals = sodium, potassium, magnesium, calcium, chloride, sulfate, alkalinity suite (bicarbonate, carbonate, and hydroxide alkalinity), phosphate, total dissolved solids
Nitrite analysis may be discontinued in wells where concentrations are negligibly small. TKN analysis may be discontinued in wells where the comparison of TKN and ammonia concentrations indicate negligibly small organic nitrogen concentrations in groundwater.

Table 2-6
Laboratory Analytical Methods and Reporting Limits
Central Valley Dairy Representative Monitoring Program – Year 8 Annual Report

Constituent	Analytical Method	Reporting Limit (mg/L)
Sodium	EPA 200.7	1.0
Potassium	EPA 200.7	1.0
Magnesium	EPA 200.7	1.0
Calcium	EPA 200.7	1.0
Chloride	EPA 300.0	0.5
Sulfate	EPA 300.0	1.0
Bicarbonate (as CaCO3)	SM2310B	5.0
Carbonate (as CaCO3)	SM2310B	5.0
Hydroxide (as CaCO3)	SM2310B	5.0
Phosphate (as PO4)	EPA 365.4	0.15
Total Dissolved Solids	SM2540C	10
Nitrate-N	EPA 300.0	0.5
Nitrite-N	EPA 353.2	0.4
Ammoniacal-N	EPA 350.1	0.1
Total Kjeldahl Nitrogen-N	EPA 351.2	0.2

Alkalinity, TKN, and phosphate are analyzed from the unfiltered sample. Other constituents are analyzed from the filtered sample. Equivalent analytical methods may be used but reporting limit shall not be greater than shown.

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
Central Area-East Side															
MEN-MW1s	2/20/2019	13:32	5.24									2.03			
MEN-MW1s	2/20/2019	13:34		18.7	6.91	1.0	11	137	5,520		1.0		2		
MEN-MW1s	2/20/2019	13:36		18.9	6.80	0.9	10	139	5,487		1.0		4		
MEN-MW1s	2/20/2019	13:39		19.2	6.78	0.9	10	139	5,456		1.0		7		
MEN-MW1s	2/20/2019	13:41		19.4	6.76	0.7	7	140	5,444		1.0		9		
MEN-MW1s	2/20/2019	13:43	7.02	19.3	6.77	0.7	7	141	5,455	2	1.0		11	5.4	
MEN-MW1s	5/22/2019	10:12	6.45									1.84			
MEN-MW1s	5/22/2019	10:14		17.6	7.34	2.5	38	-12	4,240		1.0		2		
MEN-MW1s	5/22/2019	10:16		17.6	7.17	2.4	37	6	4,812		1.0		4		
MEN-MW1s	5/22/2019	10:18		17.6	7.21	2.4	37	18	5,023		1.0		6		
MEN-MW1s	5/22/2019	10:20		17.8	7.08	2.5	38	20	5,258		1.0		8		
MEN-MW1s	5/22/2019	10:23	9.53	18.0	7.06	2.4	36	51	5,409	3	1.0		11	6	
MEN-MW1s	8/14/2019	13:13	7.71									1.63			
MEN-MW1s	8/14/2019	13:15		23.4	7.03	3.1	36	22	5,750		1.0		2		
MEN-MW1s	8/14/2019	13:19		22.5	6.90	2.9	34	23	6,065		0.5		4		
MEN-MW1s	8/14/2019	13:23		22.0	6.87	2.7	31	26	6,187		0.5		6		
MEN-MW1s	8/14/2019	13:27		21.7	6.84	2.6	29	29	6,298		0.5		8		
MEN-MW1s	8/14/2019	13:31	10.54	21.6	6.87	2.5	29	31	6,332	2	0.5		10	6.1	
MEN-MW1s	11/12/2019	15:20	8.30									1.5			
MEN-MW1s	11/12/2019	15:22		21.9	6.90	0.8	7	110	6,032		1.0		2		
MEN-MW1s	11/12/2019	15:24		21.7	6.84	0.6	6	113	6,095		1.0		4		
MEN-MW1s	11/12/2019	15:26		21.7	6.80	0.6	6	118	6,030		1.0		6		
MEN-MW1s	11/12/2019	15:28		21.5	6.81	0.6	6	120	6,013		1.0		8		
MEN-MW1s	11/12/2019	15:30	11.79	21.7	6.80	0.6	6	120	5,942	7	1.0		10	6.7	
MEN-MW2s	2/20/2019	13:16	5.20									2			
MEN-MW2s	2/20/2019	13:18		17.8	6.97	1.4	16	59	4,146		1.0		2		
MEN-MW2s	2/20/2019	13:20		17.8	6.92	1.0	11	70	4,275		1.0		4		
MEN-MW2s	2/20/2019	13:23		17.9	7.08	0.9	10	91	4,269		1.0		7		
MEN-MW2s	2/20/2019	13:25		18.0	6.93	0.9	10	103	4,289		1.0		9		
MEN-MW2s	2/20/2019	13:27	9.20	18.1	6.91	0.9	10	107	4,291	6	1.0		11	5.5	
MEN-MW2s	5/22/2019	10:27	6.38									1.81			
MEN-MW2s	5/22/2019	10:29		18.0	7.60	2.8	41	56	5,243		0.5		1		
MEN-MW2s	5/22/2019	10:33		18.1	7.34	2.8	41	51	5,084		0.25		2		
MEN-MW2s	5/22/2019	10:37		18.2	7.31	2.7	40	74	4,908		0.25		3		
MEN-MW2s	5/22/2019	10:42		18.4	7.22	2.6	40	55	4,798		0.25		4.25		
MEN-MW2s	5/22/2019	10:46	9.33	18.4	7.23	2.2	34	75	4,731	3	0.25		5.25	2.9	
MEN-MW2s	8/14/2019	13:37	7.64									1.61			
MEN-MW2s	8/14/2019	13:41		23.5	7.22	2.8	33	30	4,807		0.5		2		
MEN-MW2s	8/14/2019	13:45		23.4	7.00	2.5	30	34	4,882		0.5		4		
MEN-MW2s	8/14/2019	13:50		22.8	6.96	2.5	29	36	5,038		0.5		6.5		
MEN-MW2s	8/14/2019	13:54		22.6	6.93	2.5	29	38	5,130		0.5		8.5		
MEN-MW2s	8/14/2019	13:58	11.31	22.4	6.94	2.6	30	40	5,182	5	0.5		10.5	6.5	

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
MEN-MW2s	11/12/2019	15:02	8.33									1.49			
MEN-MW2s	11/12/2019	15:04		22.2	6.94	1.0	11	-15	4,498		1.0		2		
MEN-MW2s	11/12/2019	15:06		22.7	6.95	1.6	17	22	5,384		1.0		4		
MEN-MW2s	11/12/2019	15:08		23.0	6.91	1.2	11	49	5,736		1.0		6		
MEN-MW2s	11/12/2019	15:11		23.0	6.91	0.8	6	63	5,721		1.0		9		
MEN-MW2s	11/12/2019	15:13	10.53	23.2	6.92	0.7	4	73	5,696	3	1.0		11	7.4	
MEN-MW3s	2/20/2019	14:50	6.93									1.79			
MEN-MW3s	2/20/2019	14:52		18.2	6.96	1.7	17	178	3,434		1.0		2		
MEN-MW3s	2/20/2019	14:54		18.3	6.84	1.0	11	186	3,423		1.0		4		
MEN-MW3s	2/20/2019	14:57		18.4	6.84	0.9	10	187	3,454		1.0		7		
MEN-MW3s	2/20/2019	14:59		18.4	6.80	0.9	10	187	3,451		1.0		9		
MEN-MW3s	2/20/2019	15:01	7.62	18.4	6.83	0.8	9	187	3,453	3	1.0		11	6.1	
MEN-MW3s	5/22/2019	11:33	7.15									1.75			
MEN-MW3s	5/22/2019	11:35		18.6	7.57	2.6	39	142	3,597		1.0		2		
MEN-MW3s	5/22/2019	11:37		18.8	7.30	2.5	37	132	3,573		1.0		4		
MEN-MW3s	5/22/2019	11:39		18.9	7.26	2.7	38	131	3,546		1.0		6		
MEN-MW3s	5/22/2019	11:41		18.9	7.11	2.4	35	131	3,545		1.0		8		
MEN-MW3s	5/22/2019	11:43	7.93	18.9	7.05	2.3	34	131	3,538	3	1.0		10	5.7	
MEN-MW3s	8/14/2019	15:29	8.38									1.55			
MEN-MW3s	8/14/2019	15:31		22.9	7.08	2.7	31	88	3,493		1.0		2		
MEN-MW3s	8/14/2019	15:35		23.2	6.99	2.3	27	90	3,519		0.5		4		
MEN-MW3s	8/14/2019	15:39		22.7	7.03	2.4	30	91	3,503		0.5		6		
MEN-MW3s	8/14/2019	15:44		22.6	7.08	2.5	32	95	3,482		0.5		8.5		
MEN-MW3s	8/14/2019	15:48	8.84	22.6	6.95	2.4	30	96	3,487	1	0.5		10.5	6.8	
MEN-MW3s	11/12/2019	15:07	8.98									1.46			
MEN-MW3s	11/12/2019	15:10		21.4	7.05	1.2	18	149	3,212		0.5		1.5		
MEN-MW3s	11/12/2019	15:13		22.1	6.81	0.9	15	141	3,215		0.5		3		
MEN-MW3s	11/12/2019	15:16		22.0	6.92	0.9	14	143	3,211		0.5		4.5		
MEN-MW3s	11/12/2019	15:20		22.1	6.82	0.8	14	157	3,207		0.5		6.5		
MEN-MW3s	11/12/2019	15:23	9.45	22.3	6.89	0.8	13	144	3,216	2	0.5		8	5.5	
MEN-MW4s	2/20/2019	14:34	6.33									1.87			
MEN-MW4s	2/20/2019	14:36		18.2	6.97	0.9	10	177	3,446		1.0		2		
MEN-MW4s	2/20/2019	14:38		18.4	6.92	0.9	10	177	3,649		1.0		4		
MEN-MW4s	2/20/2019	14:41		18.4	6.87	0.9	10	177	3,678		1.0		7		
MEN-MW4s	2/20/2019	14:43		18.6	6.85	0.9	10	177	3,664		1.0		9		
MEN-MW4s	2/20/2019	14:45	6.90	18.8	6.78	0.9	10	177	3,644	1	1.0		11	5.9	
MEN-MW4s	5/22/2019	11:16	6.68									1.81			
MEN-MW4s	5/22/2019	11:18		17.6	7.73	2.4	37	142	3,182		1.0		2		
MEN-MW4s	5/22/2019	11:20		17.8	7.33	2.0	34	127	3,350		1.0		4		
MEN-MW4s	5/22/2019	11:23		18.2	7.20	2.2	37	132	3,627		1.0		7		
MEN-MW4s	5/22/2019	11:25		18.2	7.17	2.2	36	126	3,621		1.0		9		
MEN-MW4s	5/22/2019	11:27	7.84	18.2	7.12	2.1	33	123	3,617	3	1.0		11	6.1	

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
MEN-MW4s	8/14/2019	15:58	7.88									1.62			
MEN-MW4s	8/14/2019	16:02		25.0	7.02	2.2	26	100	3,486		0.5		2		
MEN-MW4s	8/14/2019	16:06		23.3	6.92	2.2	26	102	3,521		0.5		4		
MEN-MW4s	8/14/2019	16:11		22.5	6.90	2.1	27	102	3,520		0.5		6.5		
MEN-MW4s	8/14/2019	16:15		21.8	6.89	2.1	28	101	3,513		0.5		8.5		
MEN-MW4s	8/14/2019	16:19	9.09	21.7	6.90	2.1	28	101	3,495	1	0.5		10.5	6.5	
MEN-MW4s	11/12/2019	14:42	8.52									1.51			
MEN-MW4s	11/12/2019	14:44		21.3	7.05	1.7	26	157	3,118		1.0		2		
MEN-MW4s	11/12/2019	14:46		21.6	7.01	1.2	20	163	3,215		1.0		4		
MEN-MW4s	11/12/2019	14:50		21.7	6.91	1.0	18	157	3,216		0.5		6		
MEN-MW4s	11/12/2019	14:54		21.8	6.93	0.9	17	152	3,222		0.5		8		
MEN-MW4s	11/12/2019	14:58	9.50	21.7	6.80	0.8	15	151	3,216	2	0.5		10	6.6	
MEN-MW5s	2/20/2019	14:15	9.14									1.31			
MEN-MW5s	2/20/2019	14:17		19.2	7.15	1.1	12	171	2,005		1.0		2		
MEN-MW5s	2/20/2019	14:19		19.4	6.86	0.7	7	172	1,989		1.0		4		
MEN-MW5s	2/20/2019	14:22		19.5	6.95	0.6	7	172	1,992		1.0		7		
MEN-MW5s	2/20/2019	14:24		19.6	6.88	0.7	7	172	1,995		1.0		9		
MEN-MW5s	2/20/2019	14:26	9.88	19.6	6.89	0.7	8	172	1,995	1	1.0		11	8.4	
MEN-MW5s	5/22/2019	12:12	8.95									1.35			
MEN-MW5s	5/22/2019	12:14		20.1	7.54	3.1	41	134	3,538		1.0		2		
MEN-MW5s	5/22/2019	12:17		20.0	7.18	2.6	36	138	3,044		0.5		3.5		
MEN-MW5s	5/22/2019	12:20		19.8	7.05	2.1	30	138	2,722		0.5		5		
MEN-MW5s	5/22/2019	12:23		20.0	7.02	2.3	33	134	2,562		0.5		6.5		
MEN-MW5s	5/22/2019	12:26	10.01	19.8	6.98	2.1	31	133	2,473	5	0.5		8	5.9	
MEN-MW5s	8/14/2019	16:28	9.73									1.22			
MEN-MW5s	8/14/2019	16:32		22.9	7.08	3.2	38	104	2,376		0.5		2		
MEN-MW5s	8/14/2019	16:35		22.0	7.04	2.2	27	104	2,230		0.5		3.5		
MEN-MW5s	8/14/2019	16:38		22.0	6.90	2.1	25	100	2,225		0.5		5		
MEN-MW5s	8/14/2019	16:41		22.0	6.88	2.1	26	92	2,214		0.5		6.5		
MEN-MW5s	8/14/2019	16:44	10.99	21.8	6.89	2.1	26	86	2,209	1	0.5		8	6.6	
MEN-MW5s	11/12/2019	15:32	10.09									1.16			
MEN-MW5s	11/12/2019	15:35		21.8	7.27	1.7	23	146	2,902		0.5		1.5		
MEN-MW5s	11/12/2019	15:38		22.4	6.86	1.0	13	158	2,447		0.5		3		
MEN-MW5s	11/12/2019	15:42		22.5	6.92	1.0	14	160	2,232		0.5		5		
MEN-MW5s	11/12/2019	15:45		22.9	6.83	0.8	14	156	2,124		0.5		6.5		
MEN-MW5s	11/12/2019	15:48	10.81	22.9	6.80	0.7	13	152	2,122	2	0.5		8	6.9	
MEN-MW6s	2/20/2019	12:50	4.51									3.22			
MEN-MW6s	2/20/2019	12:54		16.5	6.60	1.1	12	71	2,286		1.0		4		
MEN-MW6s	2/20/2019	12:58		17.2	6.84	0.8	9	9	2,533		1.0		8		
MEN-MW6s	2/20/2019	13:02		17.6	6.87	0.7	7	17	2,645		1.0		12		
MEN-MW6s	2/20/2019	13:06		17.6	6.84	0.6	7	24	2,689		1.0		16		
MEN-MW6s	2/20/2019	13:10	11.42	17.7	6.84	0.6	7	30	2,725	10	1.0		20	6.2	
MEN-MW6s	5/22/2019	9:45	5.43									3.08			

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
MEN-MW6s	5/22/2019	9:49		17.5	6.03	2.1	34	99	2,868		1.0		4		
MEN-MW6s	5/22/2019	9:53		17.5	6.79	2.1	34	-19	2,916		1.0		8		
MEN-MW6s	5/22/2019	9:57		17.6	6.90	2.1	34	-47	3,019		1.0		12		
MEN-MW6s	5/22/2019	10:01		17.6	7.00	2.4	37	-58	3,101		1.0		16		
MEN-MW6s	5/22/2019	10:04	11.62	17.6	7.06	2.4	37	-62	3,129	3	1.0		19	6.2	
MEN-MW6s	8/14/2019	14:09	6.46									2.91			
MEN-MW6s	8/14/2019	14:12		21.3	7.67	2.7	30	-116	1,798		1.0		3		
MEN-MW6s	8/14/2019	14:15		22.3	7.08	2.3	27	-118	1,982		1.0		6		
MEN-MW6s	8/14/2019	14:18		21.2	7.05	2.4	29	-113	2,058		1.0		9		
MEN-MW6s	8/14/2019	14:21		20.2	7.02	2.3	27	-102	2,283		1.0		12		
MEN-MW6s	8/14/2019	14:25	14.96	19.9	6.99	2.5	32	-98	2,393	3	1.0		16	5.5	
MEN-MW6s	11/12/2019	14:37	7.39									2.75			
MEN-MW6s	11/12/2019	14:40		22.1	6.97	2.6	25	-59	2,407		1.0		3		
MEN-MW6s	11/12/2019	14:43		21.3	6.94	0.9	9	-131	2,691		1.0		6		
MEN-MW6s	11/12/2019	14:46		20.3	6.91	0.7	8	-130	2,876		1.0		9		
MEN-MW6s	11/12/2019	14:49		20.2	6.90	0.7	8	-118	3,029		1.0		12		
MEN-MW6s	11/12/2019	14:52	15.87	20.4	6.89	0.7	9	-111	3,060	25	1.0		15	5.5	
MEN-MW7s	2/20/2019	13:50	3.38									3.23			
MEN-MW7s	2/20/2019	13:54		18.8	7.32	1.0	11	154	2,420		1.0		4		
MEN-MW7s	2/20/2019	13:58		18.8	6.94	0.9	10	157	2,397		1.0		8		
MEN-MW7s	2/20/2019	14:02		18.9	6.92	0.9	9	158	2,394		1.0		12		
MEN-MW7s	2/20/2019	14:06		18.9	6.93	0.9	9	158	2,396		1.0		16		
MEN-MW7s	2/20/2019	14:10	4.58	18.9	6.91	0.9	9	159	2,397	1	1.0		20	6.2	
MEN-MW7s	5/22/2019	10:53	4.75									3.01			
MEN-MW7s	5/22/2019	10:56		18.2	7.97	2.6	38	102	3,567		1.0		3		
MEN-MW7s	5/22/2019	10:59		18.3	7.76	2.2	34	116	3,398		1.0		6		
MEN-MW7s	5/22/2019	11:02		18.1	7.62	2.3	36	98	3,144		1.0		9		
MEN-MW7s	5/22/2019	11:06		18.0	7.39	2.2	35	116	2,932		1.0		12		
MEN-MW7s	5/22/2019	11:09	5.74	18.2	7.45	2.3	36	125	2,882	2	1.0		15	5	
MEN-MW7s	8/14/2019	14:38	5.49									2.89			
MEN-MW7s	8/14/2019	14:41		23.0	7.57	2.6	34	53	4,341		1.0		3		
MEN-MW7s	8/14/2019	14:44		21.2	7.24	2.5	33	60	2,516		1.0		6		
MEN-MW7s	8/14/2019	14:47		20.1	7.15	2.4	32	64	2,385		1.0		9		
MEN-MW7s	8/14/2019	14:50		21.8	7.08	2.7	36	64	2,371		1.0		12		
MEN-MW7s	8/14/2019	14:54	5.57	22.5	7.13	3.2	40	63	2,372	2	1.0		16	5.5	
MEN-MW7s	11/12/2019	14:18	6.54									2.72			
MEN-MW7s	11/12/2019	14:21		20.4	6.54	2.4	33	128	2,242		1.0		3		
MEN-MW7s	11/12/2019	14:24		19.9	7.07	1.7	26	130	2,233		1.0		6		
MEN-MW7s	11/12/2019	14:27		19.8	6.98	1.4	24	135	2,224		1.0		9		
MEN-MW7s	11/12/2019	14:30		19.7	6.98	1.2	22	134	2,219		1.0		12		
MEN-MW7s	11/12/2019	14:33	7.45	19.7	7.02	1.2	23	133	2,217	3	1.0		15	5.5	
MEN-MW8d	2/20/2019	15:10	8.52									3.57			
MEN-MW8d	2/20/2019	15:14		19.8	7.24	1.0	11	186	3,671		1.0		4		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
MEN-MW8d	2/20/2019	15:18		20.2	6.95	0.8	9	188	3,794		1.0		8		
MEN-MW8d	2/20/2019	15:22		20.2	6.96	0.8	9	189	3,855		1.0		16		
MEN-MW8d	2/20/2019	15:26		20.1	6.95	0.8	9	188	3,881		1.0		20		
MEN-MW8d	2/20/2019	15:30	14.38	20.2	6.96	0.8	9	189	3,896	1	1.0		24	6.7	
MEN-MW8s	5/22/2019	11:49	8.60									1.42			
MEN-MW8s	5/22/2019	11:51		19.6	7.44	3.0	42	138	3,091		1.0		2		
MEN-MW8s	5/22/2019	11:54		19.4	7.22	2.6	37	140	2,805		0.5		3.5		
MEN-MW8s	5/22/2019	11:57		19.5	7.15	2.6	37	140	2,801		0.5		5		
MEN-MW8s	5/22/2019	12:00		19.4	7.11	2.4	35	140	3,043		0.5		6.5		
MEN-MW8s	5/22/2019	12:03	16.60	19.6	7.10	2.4	35	137	3,675	39	0.5		8	5.6	3
MEN-MW8s	8/14/2019	15:04	9.51									1.28			
MEN-MW8s	8/14/2019	15:07		25.0	7.38	3.0	35	72	3,246		0.5		1.5		
MEN-MW8s	8/14/2019	15:10		24.9	7.17	2.8	32	77	3,193		0.5		3		
MEN-MW8s	8/14/2019	15:13		24.1	7.11	2.9	35	79	2,854		0.5		4.5		
MEN-MW8s	8/14/2019	15:16		23.7	7.02	2.7	31	81	3,287		0.5		6		
MEN-MW8s	8/14/2019	15:19	14.92	23.5	7.01	2.5	29	81	3,507	7	0.5		7.5	5.9	3
MEN-MW8s	11/12/2019	15:43	9.82									1.2			
MEN-MW8s	11/12/2019	15:45		22.6	6.89	2.3	30	141	3,793		1.0		2		
MEN-MW8s	11/12/2019	15:47		22.7	6.98	1.5	16	146	3,846		1.0		4		
MEN-MW8s	11/12/2019	15:49		22.8	6.95	0.9	7	150	4,055		1.0		6		
MEN-MW8s	11/12/2019	15:51		22.9	7.11	3.3	39	150	4,098		1.0		8		
MEN-MW8s	11/12/2019	15:53	17.25	23.0	7.29	4.9	52	151	4,108	119	1.0		10	8.3	
ANC-MW1	2/25/2019	15:05	11.55									2.07			
ANC-MW1	2/25/2019	15:08		20.3	6.83	0.7	8	203	2,713		1.0		3		
ANC-MW1	2/25/2019	15:11		20.5	6.75	0.7	8	206	2,780		1.0		6		
ANC-MW1	2/25/2019	15:15		20.5	6.78	0.5	6	209	2,778		1.0		10		
ANC-MW1	2/25/2019	15:18		20.5	6.78	0.5	6	213	2,776		1.0		13		
ANC-MW1	2/25/2019	15:21	11.80	20.5	6.78	0.5	7	214	2,776	1	1.0		16	7.7	
ANC-MW1	5/22/2019	14:47	11.31									2.11			
ANC-MW1	5/22/2019	14:50		20.6	7.62	3.1	40	127	2,696		1.0		3		
ANC-MW1	5/22/2019	14:53		21.1	7.04	2.6	35	138	2,719		1.0		6		
ANC-MW1	5/22/2019	14:56		21.6	7.34	2.5	32	131	2,723		1.0		9		
ANC-MW1	5/22/2019	15:01		21.7	7.24	2.2	28	134	2,731		0.5		11.5		
ANC-MW1	5/22/2019	15:06	11.57	22.1	7.12	2.3	28	133	2,703	1	0.5		14	6.6	
ANC-MW1	8/16/2019	9:38	12.62									1.89			
ANC-MW1	8/16/2019	9:40		22.0	7.12	2.5	31	139	2,897		1.0		2		
ANC-MW1	8/16/2019	9:42		22.2	6.89	2.2	27	139	2,870		1.0		4		
ANC-MW1	8/16/2019	9:46		22.2	6.88	2.2	27	130	2,861		0.5		6		
ANC-MW1	8/16/2019	9:50		22.1	6.92	2.1	25	126	2,838		0.5		8		
ANC-MW1	8/16/2019	9:54	12.84	22.1	6.90	2.1	24	122	2,817	3	0.5		10	5.3	
ANC-MW1	11/12/2019	13:10	13.46									1.76			

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
ANC-MW1	11/12/2019	13:14		22.5	7.08	1.6	23	100	2,742		0.5		2		
ANC-MW1	11/12/2019	13:18		21.5	6.85	1.1	18	108	2,350		0.5		4		
ANC-MW1	11/12/2019	13:22		21.6	6.92	1.1	17	113	2,353		0.5		6		
ANC-MW1	11/12/2019	13:27		21.4	6.84	1.0	16	116	2,337		0.5		8.5		
ANC-MW1	11/12/2019	13:31	13.78	21.3	6.77	1.0	16	115	2,335	2	0.5		10.5	6	
ANC-MW2	2/25/2019	15:30	18.50									2.83			
ANC-MW2	2/25/2019	15:33		20.9	6.93	1.0	10	224	3,061		1.0		3		
ANC-MW2	2/25/2019	15:36		21.3	6.79	1.0	10	227	3,130		1.0		6		
ANC-MW2	2/25/2019	15:40		21.3	6.75	0.5	6	228	3,125		1.0		10		
ANC-MW2	2/25/2019	15:43		21.1	6.81	0.7	7	229	3,143		1.0		13		
ANC-MW2	2/25/2019	15:46	18.60	21.3	6.74	0.7	8	229	3,146	1	1.0		16	5.7	
ANC-MW2	5/22/2019	14:22	18.18									2.81			
ANC-MW2	5/22/2019	14:26		21.3	7.66	2.3	33	96	2,185		1.0		3		
ANC-MW2	5/22/2019	14:29		21.6	7.49	2.4	36	84	2,649		1.0		6		
ANC-MW2	5/22/2019	14:32		21.5	7.42	2.1	33	113	2,815		1.0		9		
ANC-MW2	5/22/2019	14:35		21.6	7.35	2.3	34	101	2,912		1.0		12		
ANC-MW2	5/22/2019	14:38	18.42	21.7	7.34	2.6	37	95	3,011	2	1.0		15	5.3	
ANC-MW2	8/16/2019	9:08	20.38									2.45			
ANC-MW2	8/16/2019	9:11		22.1	7.17	2.3	29	117	2,686		1.0		3		
ANC-MW2	8/16/2019	9:16		22.3	6.90	1.9	21	118	2,901		0.5		5.5		
ANC-MW2	8/16/2019	9:21		22.3	7.07	2.0	22	122	2,989		0.5		8		
ANC-MW2	8/16/2019	9:26		22.6	7.05	2.0	22	120	3,032		0.5		10.5		
ANC-MW2	8/16/2019	9:31	20.53	22.5	6.95	1.9	21	121	3,093	3	0.5		13	5.3	
ANC-MW2	11/12/2019	12:34	21.10									2.33			
ANC-MW2	11/12/2019	12:39		23.4	6.90	1.2	18	100	1,856		0.5		2.5		
ANC-MW2	11/12/2019	12:44		21.6	6.64	1.1	17	104	2,934		0.5		5		
ANC-MW2	11/12/2019	12:49		21.5	6.62	1.0	17	102	2,951		0.5		7.5		
ANC-MW2	11/12/2019	12:54		21.9	6.61	0.9	15	99	2,952		0.5		10		
ANC-MW2	11/12/2019	12:59	21.22	21.4	6.63	0.9	14	98	2,946	2	0.5		12.5	5.4	
ANC-MW3	2/25/2019	13:46	9.56									2.56			
ANC-MW3	2/25/2019	13:49		20.6	7.33	1.1	13	212	1,309		1.0		3		
ANC-MW3	2/25/2019	13:52		20.7	7.32	0.7	9	210	1,211		1.0		6		
ANC-MW3	2/25/2019	13:56		20.7	7.32	0.7	9	209	1,173		1.0		10		
ANC-MW3	2/25/2019	13:59		20.7	7.28	0.7	9	208	1,149		1.0		13		
ANC-MW3	2/25/2019	14:02	10.19	20.7	7.28	0.7	9	206	1,137	3	1.0		16	6.2	
ANC-MW3	5/22/2019	13:56	8.80									2.69			
ANC-MW3	5/22/2019	13:59		21.1	7.86	2.4	36	85	1,534		1.0		3		
ANC-MW3	5/22/2019	14:03		21.6	7.76	2.4	36	96	1,438		1.0		7		
ANC-MW3	5/22/2019	14:06		21.3	7.88	2.1	33	76	1,348		1.0		10		
ANC-MW3	5/22/2019	14:09		21.0	7.56	2.1	31	80	1,307		1.0		13		
ANC-MW3	5/22/2019	14:12	9.29	21.1	7.57	2.0	31	84	1,279	4	1.0		16	5.9	
ANC-MW3	8/16/2019	8:42	10.39									2.43			
ANC-MW3	8/16/2019	8:45		22.9	7.53	2.4	30	104	2,127		1.0		3		

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Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
ANC-MW3	8/16/2019	8:48		22.4	7.25	2.1	27	109	1,890		1.0		6		
ANC-MW3	8/16/2019	8:51		22.2	7.31	2.4	31	97	1,790		1.0		9		
ANC-MW3	8/16/2019	8:54		21.8	7.31	2.2	30	93	1,453		1.0		12		
ANC-MW3	8/16/2019	8:57	10.98	21.8	7.33	2.2	30	86	1,452	3	1.0		15	6.2	
ANC-MW3	11/12/2019	12:06	11.19									2.3			
ANC-MW3	11/12/2019	12:09		23.5	7.27	1.8	25	96	1,990		1.0		3		
ANC-MW3	11/12/2019	12:12		22.5	7.18	1.7	24	95	1,059		1.0		6		
ANC-MW3	11/12/2019	12:17		22.2	7.14	1.6	24	94	970		0.5		8.5		
ANC-MW3	11/12/2019	12:22		22.1	7.14	1.5	22	94	973		0.5		11		
ANC-MW3	11/12/2019	12:27	11.77	22.1	7.10	1.4	22	94	1,000	3	0.5		13.5	5.9	
ANC-MW4	2/25/2019	14:40	20.52									2.21			
ANC-MW4	2/25/2019	14:43		20.6	7.47	1.3	15	213	1,323		1.0		3		
ANC-MW4	2/25/2019	14:46		20.7	6.75	1.2	14	212	1,294		1.0		6		
ANC-MW4	2/25/2019	14:50		20.8	6.75	1.2	14	209	1,298		1.0		10		
ANC-MW4	2/25/2019	14:53		20.7	6.80	1.2	14	205	1,293		1.0		13		
ANC-MW4	2/25/2019	14:56	20.81	20.9	6.73	1.2	14	203	1,293	1	1.0		16	7.2	
ANC-MW4	5/22/2019	15:17	19.57									1.87			
ANC-MW4	5/22/2019	15:19		22.1	8.31	2.9	37	145	1,991		1.0		2		
ANC-MW4	5/22/2019	15:23		22.3	7.83	2.6	34	151	1,711		0.5		4		
ANC-MW4	5/22/2019	15:27		21.9	7.61	2.3	31	145	1,482		0.5		6		
ANC-MW4	5/22/2019	15:31		21.6	7.46	2.2	30	158	1,402		0.5		8		
ANC-MW4	5/22/2019	15:37	19.82	21.4	7.67	2.4	31	150	1,354	2	0.5		11	5.9	
ANC-MW4	8/16/2019	10:06	20.34									2.24			
ANC-MW4	8/16/2019	10:11		23.3	7.39	2.9	37	135	2,363		0.5		2.5		
ANC-MW4	8/16/2019	10:16		23.0	7.00	2.2	30	129	2,013		0.5		5		
ANC-MW4	8/16/2019	10:21		22.7	6.86	2.2	29	138	1,959		0.5		7.5		
ANC-MW4	8/16/2019	10:26		22.3	6.94	2.2	30	130	1,850		0.5		10		
ANC-MW4	8/16/2019	10:31	20.62	21.4	6.93	2.2	29	121	1,453	3	0.5		12.5	5.6	3
ANC-MW4	11/12/2019	13:40	21.44									2.06			
ANC-MW4	11/12/2019	13:45		22.0	7.88	2.3	31	142	1,140		0.5		2.5		
ANC-MW4	11/12/2019	13:50		22.1	7.05	1.8	26	149	1,112		0.5		5		
ANC-MW4	11/12/2019	13:55		21.6	6.74	1.6	24	144	1,028		0.5		7.5		
ANC-MW4	11/12/2019	14:00		21.6	6.68	1.5	24	142	1,030		0.5		10		
ANC-MW4	11/12/2019	14:05	21.73	21.6	6.59	1.5	24	142	1,027	2	0.5		12.5	6.1	
ANC-MW5d	2/25/2019	14:07	15.51									5.02			
ANC-MW5d	2/25/2019	14:12		20.0	7.56	1.2	14	205	1,817		1.0		5		
ANC-MW5d	2/25/2019	14:17		20.0	7.68	0.7	9	205	1,838		1.0		10		
ANC-MW5d	2/25/2019	14:22		19.9	7.67	0.7	7	207	1,841		1.0		15		
ANC-MW5d	2/25/2019	14:27		20.0	7.66	0.8	9	208	1,836		1.0		20		
ANC-MW5d	2/25/2019	14:32	15.91	20.0	7.66	0.8	8	208	1,836	1	1.0		25	5	
ANC-MW5s	5/22/2019	15:53	14.44									2.2			
ANC-MW5s	5/22/2019	15:56		21.0	7.63	2.6	36	159	2,298		1.0		3		
ANC-MW5s	5/22/2019	16:01		20.9	7.88	2.4	35	151	3,005		0.5		5.5		

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Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
ANC-MW5s	5/22/2019	16:06		21.2	7.91	2.4	35	130	3,395		0.5		7		
ANC-MW5s	5/22/2019	16:11		21.3	7.69	2.4	34	137	3,513		0.5		9.5		
ANC-MW5s	5/22/2019	16:16	25.23	21.1	7.68	2.2	33	130	3,618	12	0.5		11	5	
ANC-MW5s	8/16/2019	10:40	16.21									1.92			
ANC-MW5s	8/16/2019	10:44		22.0	7.29	2.2	26	111	3,574		0.5		2		
ANC-MW5s	8/16/2019	10:48		22.4	7.30	1.9	22	101	3,621		0.5		4		
ANC-MW5s	8/16/2019	10:52		22.6	7.40	1.9	22	91	3,663		0.5		6		
ANC-MW5s	8/16/2019	10:56		22.3	7.49	1.9	22	81	3,653		0.5		8		
ANC-MW5s	8/16/2019	11:02	25.86	22.7	7.47	1.8	21	78	3,636	8	0.5		11	5.7	
ANC-MW5s	11/12/2019	14:12	17.21									1.75			
ANC-MW5s	11/12/2019	14:14		21.0	6.98	2.5	34	128	1,691		1.0		2		
ANC-MW5s	11/12/2019	14:16		21.0	7.27	1.5	24	123	3,470		1.0		4		
ANC-MW5s	11/12/2019	14:19		21.5	7.32	1.4	23	111	3,483		1.0		7		
ANC-MW5s	11/12/2019	14:21		22.0	7.43	1.3	21	103	3,488		1.0		9		
ANC-MW5s	11/12/2019	14:23	24.70	22.0	7.45	1.3	22	99	3,470	11	1.0		11	6.3	
ANC-MW6s	2/25/2019	13:25	13.56									2.32			
ANC-MW6s	2/25/2019	13:28		23.5	6.91	1.0	12	205	2,081		1.0		3		
ANC-MW6s	2/25/2019	13:31		23.8	6.76	0.9	11	203	2,112		1.0		6		
ANC-MW6s	2/25/2019	13:34		23.9	6.77	0.8	9	203	2,121		1.0		10		
ANC-MW6s	2/25/2019	13:37		24.0	6.78	0.8	9	205	2,117		1.0		13		
ANC-MW6s	2/25/2019	13:40	13.72	24.1	6.79	0.8	9	205	2,122	1	1.0		16	6.9	
ANC-MW6s	5/22/2019	13:31	12.49									2.5			
ANC-MW6s	5/22/2019	13:34		22.6	7.32	2.5	34	127	1,801		1.0		3		
ANC-MW6s	5/22/2019	13:37		22.6	7.06	2.1	30	128	1,991		1.0		6		
ANC-MW6s	5/22/2019	13:41		22.9	7.12	2.0	27	127	2,098		1.0		10		
ANC-MW6s	5/22/2019	13:44		23.1	7.06	2.2	30	124	2,185		1.0		13		
ANC-MW6s	5/22/2019	13:47	12.67	23.2	7.15	2.1	29	126	2,243	2	1.0		16	6.4	
ANC-MW6s	8/16/2019	8:14	15.04									2.08			
ANC-MW6s	8/16/2019	8:16		23.3	7.09	2.1	28	137	1,850		1.0		2		
ANC-MW6s	8/16/2019	8:19		23.5	6.79	2.1	27	133	2,097		1.0		5		
ANC-MW6s	8/16/2019	8:24		23.7	6.64	2.2	28	140	2,328		0.5		7.5		
ANC-MW6s	8/16/2019	8:29		24.0	6.86	2.2	28	129	2,421		0.5		10		
ANC-MW6s	8/16/2019	8:34	15.23	24.0	6.80	2.1	27	127	2,475	2	0.5		12.5	6	
ANC-MW6s	11/12/2019	11:35	15.74									1.97			
ANC-MW6s	11/12/2019	11:39		24.3	7.00	1.4	20	110	2,473		0.5		2		
ANC-MW6s	11/12/2019	11:44		24.6	6.75	1.2	17	109	2,495		0.5		4.5		
ANC-MW6s	11/12/2019	11:48		24.9	6.71	1.1	14	108	2,578		0.5		6.5		
ANC-MW6s	11/12/2019	11:52		25.0	6.77	1.1	13	113	2,595		0.5		8.5		
ANC-MW6s	11/12/2019	11:56	15.92	25.1	6.80	1.0	12	115	2,606	2	0.5		10.5	5.3	
ANC-MW7s	2/25/2019	13:01	13.69									2.28			
ANC-MW7s	2/25/2019	13:04		20.4	7.86	1.4	16	209	1,664		1.0		3		
ANC-MW7s	2/25/2019	13:07		20.7	7.18	1.2	13	210	1,565		1.0		6		
ANC-MW7s	2/25/2019	13:11		20.8	7.13	0.8	10	207	1,519		1.0		10		

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Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
ANC-MW7s	2/25/2019	13:14		20.8	7.11	0.8	9	205	1,494		1.0		13		
ANC-MW7s	2/25/2019	13:17	13.92	20.8	7.11	0.8	9	203	1,484	3	1.0		16	7	
ANC-MW7s	5/22/2019	13:08	12.58									2.47			
ANC-MW7s	5/22/2019	13:11		20.5	7.81	2.2	32	184	1,621		1.0		3		
ANC-MW7s	5/22/2019	13:14		20.5	7.56	1.7	27	164	1,598		1.0		6		
ANC-MW7s	5/22/2019	13:17		20.5	7.49	1.9	29	163	1,590		1.0		9		
ANC-MW7s	5/22/2019	13:20		20.6	7.59	2.1	31	146	1,582		1.0		12		
ANC-MW7s	5/22/2019	13:24	12.89	20.7	7.49	2.0	29	137	1,576	3	1.0		16	6.5	
ANC-MW7s	8/16/2019	7:56	15.40									2.01			
ANC-MW7s	8/16/2019	7:59		21.9	6.48	2.5	34	187	1,430		1.0		3		
ANC-MW7s	8/16/2019	8:01		21.7	6.76	2.1	30	178	1,453		1.0		5		
ANC-MW7s	8/16/2019	8:03		21.8	6.72	2.1	30	175	1,448		1.0		7		
ANC-MW7s	8/16/2019	8:05		21.4	6.92	1.9	28	170	1,457		1.0		9		
ANC-MW7s	8/16/2019	8:07	15.71	21.2	6.82	1.8	27	164	1,459	2	1.0		11	5.5	
ANC-MW7s	11/12/2019	11:11	16.33									1.86			
ANC-MW7s	11/12/2019	11:13		21.2	7.85	2.4	33	99	3,496		1.0		2		
ANC-MW7s	11/12/2019	11:16		21.4	7.35	1.6	25	101	2,755		1.0		5		
ANC-MW7s	11/12/2019	11:20		21.5	7.21	1.3	21	97	1,622		1.0		7		
ANC-MW7s	11/12/2019	11:24		21.6	7.10	1.1	19	93	1,611		0.5		9		
ANC-MW7s	11/12/2019	11:28	16.49	21.6	7.05	1.0	19	90	1,609	2	0.5		11	5.9	
BET-MW1s	2/21/2019	13:01	9.00									2.21			
BET-MW1s	2/21/2019	13:04		19.9	6.71	0.9	11	231	1,452		1.0		3		
BET-MW1s	2/21/2019	13:07		20.0	6.24	0.9	11	233	1,447		1.0		6		
BET-MW1s	2/21/2019	13:11		20.0	6.28	1.1	13	235	1,409		1.0		10		
BET-MW1s	2/21/2019	13:14		20.1	6.26	1.1	12	238	1,388		1.0		13		
BET-MW1s	2/21/2019	13:17	9.80	20.1	6.22	1.1	13	238	1,383	2	1.0		16	7.2	
BET-MW1s	5/17/2019	9:59	10.97									1.03			
BET-MW1s	5/17/2019	10:01		20.9	6.31	3.7	35	260	1,295		0.5		1		
BET-MW1s	5/17/2019	10:03		20.8	6.32	1.8	18	253	1,321		0.5		2		
BET-MW1s	5/17/2019	10:05		21.0	6.39	1.8	18	251	1,399		0.5		3		
BET-MW1s	5/17/2019	10:07		20.9	6.35	2.0	20	250	1,462		0.5		4		
BET-MW1s	5/17/2019	10:09	11.60	21.1	6.36	2.1	21	248	1,479	3	0.5		5	4.9	
BET-MW1s	8/16/2019	9:15	10.95									1.9			
BET-MW1s	8/16/2019	9:17		22.8	6.56	1.4	18	280	1,332		1.0		2		
BET-MW1s	8/16/2019	9:19		22.7	6.19	1.4	19	259	1,440		1.0		4		
BET-MW1s	8/16/2019	9:21		22.6	6.17	1.5	21	253	1,451		1.0		6		
BET-MW1s	8/16/2019	9:23		22.6	6.15	1.6	22	249	1,470		1.0		8		
BET-MW1s	8/16/2019	9:25	11.32	22.7	6.14	1.0	15	230	1,476	3	1.0		10	5.3	
BET-MW1s	11/11/2019	9:34	12.35									1.67			
BET-MW1s	11/11/2019	9:36		23.5	6.02	1.8	22	169	494		1.0		2		
BET-MW1s	11/11/2019	9:38		23.6	5.81	1.8	22	170	492		1.0		4		

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Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
BET-MW1s	11/11/2019	9:40		23.6	5.71	1.8	22	175	503		1.0		6		
BET-MW1s	11/11/2019	9:41		23.7	5.74	1.8	22	171	495		1.0		7		
BET-MW1s	11/11/2019	9:43	12.63	23.7	5.75	1.7	21	168	494	0.98	1.0		9	5.4	
BET-MW2s	2/21/2019	12:45	10.31									1.14			
BET-MW2s	2/21/2019	12:47		18.9	6.48	0.6	7	231	1,549		1.0		2		
BET-MW2s	2/21/2019	12:49		19.0	6.37	0.6	7	232	1,564		1.0		4		
BET-MW2s	2/21/2019	12:52		19.0	6.41	0.6	7	231	1,577		1.0		7		
BET-MW2s	2/21/2019	12:54		19.0	6.42	0.6	7	231	1,587		1.0		9		
BET-MW2s	2/21/2019	12:56	11.34	19.0	6.42	0.6	8	231	1,603	1	1.0		11	9.6	
BET-MW2s	5/17/2019	10:22	9.26									2.17			
BET-MW2s	5/17/2019	10:24		20.9	6.15	2.6	26	249	1,857		1.0		2		
BET-MW2s	5/17/2019	10:26		20.9	6.11	2.5	26	245	1,829		1.0		4		
BET-MW2s	5/17/2019	10:28		21.0	6.15	2.6	26	235	1,890		1.0		7		
BET-MW2s	5/17/2019	10:30		20.8	6.13	2.7	27	237	1,916		1.0		9		
BET-MW2s	5/17/2019	10:32	9.62	20.9	6.18	2.7	28	244	1,929	2	1.0		11	5.1	
BET-MW2s	8/16/2019	8:53	9.53									1.26			
BET-MW2s	8/16/2019	8:55		24.5	6.74	1.9	24	237	1,309		0.5		1		
BET-MW2s	8/16/2019	8:59		24.5	6.59	1.5	20	213	1,445		0.5		3		
BET-MW2s	8/16/2019	9:01		24.5	6.57	1.1	15	209	1,529		0.5		4		
BET-MW2s	8/16/2019	9:05		24.4	6.56	1.0	13	206	1,612		0.5		6		
BET-MW2s	8/16/2019	9:07	10.32	24.5	6.57	0.8	12	209	1,651	4	0.5		7	5.6	
BET-MW2s	11/11/2019	9:16	13.63									0.59			
BET-MW2s	11/11/2019	9:18		23.6	5.83	1.4	18	171	2,409		0.25		0.5		
BET-MW2s	11/11/2019	9:20		23.8	5.85	1.3	16	167	2,433		0.25		1		
BET-MW2s	11/11/2019	9:22		23.7	5.85	1.3	16	159	2,329		0.25		1.5		
BET-MW2s	11/11/2019	9:24		23.8	5.85	1.3	15	158	2,312		0.25		2		
BET-MW2s	11/11/2019	9:26	14.50	23.8	5.84	1.2	14	157	2,253	1.9	0.25		2.5	4.2	
BET-MW3s	2/21/2019	12:25	9.08									1.42			
BET-MW3s	2/21/2019	12:27		19.6	7.19	1.8	19	204	885		1.0		2		
BET-MW3s	2/21/2019	12:29		20.1	6.53	1.0	11	218	884		1.0		4		
BET-MW3s	2/21/2019	12:32		20.4	6.44	0.6	7	221	892		1.0		7		
BET-MW3s	2/21/2019	12:34		20.4	6.46	0.6	7	222	903		1.0		9		
BET-MW3s	2/21/2019	12:36	10.44	20.6	6.39	0.6	7	222	901	1	1.0		11	7.7	
BET-MW3s	5/17/2019	9:37	9.85									1.29			
BET-MW3s	5/17/2019	9:40		19.9	6.30	3.1	41	247	1,263		0.5		1.5		
BET-MW3s	5/17/2019	9:43		20.7	6.29	2.0	30	250	1,272		0.5		3		
BET-MW3s	5/17/2019	9:46		20.7	6.27	1.7	17	253	1,270		0.5		5		
BET-MW3s	5/17/2019	9:49		20.9	6.26	1.9	20	255	1,275		0.5		6.5		
BET-MW3s	5/17/2019	9:52	10.76	21.0	6.27	1.9	20	255	1,284	13	0.5		8	6.2	
BET-MW3s	8/16/2019	8:19	8.35									1.46			
BET-MW3s	8/16/2019	8:21		23.8	6.69	2.9	36	101	1,618		0.5		1		
BET-MW3s	8/16/2019	8:25		23.5	6.45	1.6	19	146	1,606		0.5		3		
BET-MW3s	8/16/2019	8:29		23.1	6.45	2.0	23	133	1,611		0.5		5		

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BET-MW3s	8/16/2019	8:33		23.0	6.45	1.7	21	155	1,618		0.5		7		
BET-MW3s	8/16/2019	8:35	9.11	23.0	6.46	1.8	22	160	1,620	6	0.5		8	5.5	
BET-MW3s	11/11/2019	8:57	12.25									0.9			
BET-MW3s	11/11/2019	8:59		22.8	6.00	3.3	38	158	2,141		0.5		1		
BET-MW3s	11/11/2019	9:01		23.8	5.68	2.4	28	156	2,272		0.5		2		
BET-MW3s	11/11/2019	9:03		23.4	5.59	2.0	24	173	2,290		0.5		3		
BET-MW3s	11/11/2019	9:05		23.8	5.53	1.8	22	167	2,296		0.5		4		
BET-MW3s	11/11/2019	9:07	13.99	23.3	5.53	1.5	18	162	2,307	2	0.5		5	5.6	
BET-MW4s	2/21/2019	13:24	6.88									2.66			
BET-MW4s	2/21/2019	13:27		19.1	6.72	1.9	19	244	4,287		1.0		3		
BET-MW4s	2/21/2019	13:30		19.3	6.97	0.7	7	243	4,132		1.0		6		
BET-MW4s	2/21/2019	13:34		19.6	6.90	0.7	7	243	3,808		1.0		10		
BET-MW4s	2/21/2019	13:37		19.7	6.89	0.7	7	241	3,538		1.0		13		
BET-MW4s	2/21/2019	13:40	8.53	19.7	6.88	0.6	7	240	3,457	2	1.0		16	6	
BET-MW4s	5/17/2019	10:57	6.84									2.66			
BET-MW4s	5/17/2019	11:00		19.4	6.75	4.0	40	277	3,061		1.0		3		
BET-MW4s	5/17/2019	11:03		19.7	6.76	1.6	20	276	2,985		1.0		6		
BET-MW4s	5/17/2019	11:06		19.9	6.76	1.6	15	275	2,927		1.0		9		
BET-MW4s	5/17/2019	11:09		19.9	6.73	1.8	19	278	2,906		1.0		12		
BET-MW4s	5/17/2019	11:12	8.18	19.9	6.71	1.6	16	280	2,882	2	1.0		15	5.6	
BET-MW4s	8/16/2019	9:42	10.38									2.09			
BET-MW4s	8/16/2019	9:44		23.9	7.02	2.0	22	260	5,809		1.0		2		
BET-MW4s	8/16/2019	9:46		23.6	7.02	1.6	19	251	5,886		1.0		4		
BET-MW4s	8/16/2019	9:49		23.2	7.01	2.6	34	235	5,538		1.0		7		
BET-MW4s	8/16/2019	9:51		23.0	7.00	2.0	21	235	5,370		1.0		9		
BET-MW4s	8/16/2019	9:53	11.83	23.0	7.01	1.6	17	226	5,150	10	1.0		11	5.3	
BET-MW4s	11/11/2019	9:59	14.10									1.48			
BET-MW4s	11/11/2019	10:01		23.5	6.47	1.3	16	229	3,993		1.0		2		
BET-MW4s	11/11/2019	10:03		23.6	6.47	1.0	13	213	4,109		1.0		4		
BET-MW4s	11/11/2019	10:05		23.5	6.48	0.9	11	203	4,068		1.0		6		
BET-MW4s	11/11/2019	10:07		23.4	6.49	0.9	11	193	3,777		1.0		8		
BET-MW4s	11/11/2019	10:09	15.73	23.5	6.46	0.9	11	187	3,643	4	1.0		10	6.8	
BET-MW5s	2/21/2019	12:00	12.38									2.5			
BET-MW5s	2/21/2019	12:03		20.3	6.79	2.8	32	218	662		1.0		3		
BET-MW5s	2/21/2019	12:06		20.2	7.09	2.7	30	210	709		1.0		6		
BET-MW5s	2/21/2019	12:10		19.9	7.17	2.7	30	208	724		1.0		10		
BET-MW5s	2/21/2019	12:13		19.9	7.10	2.7	30	210	715		1.0		13		
BET-MW5s	2/21/2019	12:16	12.75	19.9	7.20	2.7	30	215	700	1	1.0		16	6.4	
BET-MW5s	5/17/2019	11:25	13.48									2.32			
BET-MW5s	5/17/2019	11:27		19.8	7.24	3.4	40	261	780		1.0		2		
BET-MW5s	5/17/2019	11:29		20.4	6.88	3.3	39	264	753		1.0		4		
BET-MW5s	5/17/2019	11:32		20.2	6.88	3.1	37	264	753		1.0		7		
BET-MW5s	5/17/2019	11:35		20.6	6.84	3.2	38	261	754		1.0		10		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
BET-MW5s	5/17/2019	11:37	13.70	20.7	6.81	3.1	37	260	758	3	1.0		12	5.2	
BET-MW5s	8/16/2019	10:03	8.40									3.14			
BET-MW5s	8/16/2019	10:06		22.6	7.74	2.2	22	192	678		1.0		3		
BET-MW5s	8/16/2019	10:09		21.2	7.10	1.7	21	202	663		1.0		6		
BET-MW5s	8/16/2019	10:13		21.3	7.02	1.8	24	204	662		1.0		10		
BET-MW5s	8/16/2019	10:16		21.2	6.97	1.8	22	203	665		1.0		13		
BET-MW5s	8/16/2019	10:19	8.79	21.3	6.95	2.4	31	201	667	4	1.0		16	5.1	
BET-MW5s	11/11/2019	10:25	11.49									2.64			
BET-MW5s	11/11/2019	10:28		22.8	7.60	2.1	26	189	705		1.0		3		
BET-MW5s	11/11/2019	10:31		22.8	6.94	2.1	25	185	675		1.0		6		
BET-MW5s	11/11/2019	10:34		22.8	6.65	1.9	23	177	673		1.0		9		
BET-MW5s	11/11/2019	10:37		22.8	6.55	2.1	24	176	678		1.0		12		
BET-MW5s	11/11/2019	10:40	11.72	22.8	6.58	1.9	23	151	679	0.87	1.0		15	5.7	
BET-MW6s	2/21/2019	11:38	13.01									2.11			
BET-MW6s	2/21/2019	11:40		20.1	6.71	2.9	31	208	627		1.0		2		
BET-MW6s	2/21/2019	11:42		20.3	6.42	2.1	24	210	635		1.0		4		
BET-MW6s	2/21/2019	11:45		20.3	6.39	2.1	23	210	636		1.0		7		
BET-MW6s	2/21/2019	11:47		20.4	6.45	2.1	23	209	635		1.0		9		
BET-MW6s	2/21/2019	11:49	13.05	20.4	6.43	2.1	24	211	639	1	1.0		10	4.7	
BET-MW6s	5/17/2019	12:28	14.10									1.94			
BET-MW6s	5/17/2019	12:30		21.7	6.40	2.8	28	227	597		1.0		2		
BET-MW6s	5/17/2019	12:32		21.6	6.32	2.9	31	222	595		1.0		4		
BET-MW6s	5/17/2019	12:34		21.7	6.31	2.7	29	217	598		1.0		6		
BET-MW6s	5/17/2019	12:36		21.5	6.32	2.8	29	223	598		1.0		8		
BET-MW6s	5/17/2019	12:38	14.14	21.5	6.29	2.7	28	221	593	6	1.0		10	5.2	
BET-MW6s	8/16/2019	10:53	8.32									2.88			
BET-MW6s	8/16/2019	10:56		22.2	6.63	1.7	21	195	552		1.0		3		
BET-MW6s	8/16/2019	10:59		22.0	6.54	1.6	19	196	543		1.0		6		
BET-MW6s	8/16/2019	11:01		21.9	6.53	1.7	21	194	537		1.0		8		
BET-MW6s	8/16/2019	11:04		21.9	6.53	1.8	21	193	531		1.0		11		
BET-MW6s	8/16/2019	11:07	8.42	22.0	6.53	1.9	21	192	524	2	1.0		14	4.9	
BET-MW6s	11/11/2019	10:54	11.72									2.33			
BET-MW6s	11/11/2019	10:57		23.1	6.30	2.4	27	187	626		1.0		3		
BET-MW6s	11/11/2019	10:59		23.1	6.01	2.1	25	183	619		1.0		5		
BET-MW6s	11/11/2019	11:02		23.2	5.96	2.1	25	182	607		1.0		8		
BET-MW6s	11/11/2019	11:04		23.2	5.93	2.0	24	176	598		1.0		10		
BET-MW6s	11/11/2019	11:06	11.76	23.2	5.94	2.0	24	176	591	0.91	1.0		12	5.2	
BET-MW7s	2/21/2019	10:50	14.65									2.04			
BET-MW7s	2/21/2019	10:52		19.3	7.31	2.6	28	216	603		1.0		2		
BET-MW7s	2/21/2019	10:54		19.8	6.34	2.5	27	225	597		1.0		4		
BET-MW7s	2/21/2019	10:57		19.8	6.30	2.5	28	224	599		1.0		7		
BET-MW7s	2/21/2019	10:59		20.0	6.20	2.4	25	225	599		1.0		9		
BET-MW7s	2/21/2019	11:01	14.72	20.1	6.22	2.4	25	224	599	2	1.0		11	5.4	

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
BET-MW7s	5/17/2019	11:47	15.58									1.89			
BET-MW7s	5/17/2019	11:49		19.8	6.35	3.5	34	260	608		1.0		2		
BET-MW7s	5/17/2019	11:51		20.0	6.20	3.2	33	252	600		1.0		4		
BET-MW7s	5/17/2019	11:53		19.8	6.21	3.3	34	246	603		1.0		6		
BET-MW7s	5/17/2019	11:55		20.1	6.28	3.4	35	241	602		1.0		8		
BET-MW7s	5/17/2019	11:57	15.63	20.1	6.25	3.3	34	240	602	2	1.0		10	5.3	
BET-MW7s	8/16/2019	10:28	10.74									2.68			
BET-MW7s	8/16/2019	10:31		20.9	6.60	2.6	30	201	597		1.0		3		
BET-MW7s	8/16/2019	10:34		20.9	6.45	2.3	28	201	597		1.0		6		
BET-MW7s	8/16/2019	10:36		21.0	6.35	2.2	26	200	598		1.0		8		
BET-MW7s	8/16/2019	10:39		21.0	6.32	1.2	9	207	598		1.0		11		
BET-MW7s	8/16/2019	10:42	10.82	21.0	6.31	2.0	23	207	597	3	1.0		14	5.2	
BET-MW7s	11/11/2019	11:38	13.40									2.25			
BET-MW7s	11/11/2019	11:41		22.1	6.06	2.4	28	190	597		1.0		2		
BET-MW7s	11/11/2019	11:43		21.9	5.84	2.3	27	184	597		1.0		4		
BET-MW7s	11/11/2019	11:45		21.9	5.80	2.3	27	183	595		1.0		6		
BET-MW7s	11/11/2019	11:48		21.9	5.77	2.3	27	183	594		1.0		9		
BET-MW7s	11/11/2019	11:51	13.45	21.9	5.80	2.3	27	184	593	0.89	1.0		12	5.3	
BET-MW8s	2/21/2019	11:15	15.38									1.95			
BET-MW8s	2/21/2019	11:17		18.3	6.75	2.7	28	222	570		1.0		2		
BET-MW8s	2/21/2019	11:19		19.4	6.61	2.7	28	221	561		1.0		4		
BET-MW8s	2/21/2019	11:22		19.7	6.70	2.7	28	218	561		1.0		7		
BET-MW8s	2/21/2019	11:24		19.8	6.65	2.6	27	212	563		1.0		9		
BET-MW8s	2/21/2019	11:26	16.26	19.9	6.56	2.6	27	213	566	3	1.0		11	5.6	
BET-MW8s	5/17/2019	12:09	16.38									1.78			
BET-MW8s	5/17/2019	12:11		20.8	6.57	3.3	34	229	547		1.0		2		
BET-MW8s	5/17/2019	12:13		21.1	6.48	3.3	34	225	534		1.0		4		
BET-MW8s	5/17/2019	12:15		20.9	6.47	3.3	34	228	533		1.0		6		
BET-MW8s	5/17/2019	12:17		20.6	6.48	3.4	35	235	530		1.0		8		
BET-MW8s	5/17/2019	12:19	17.00	20.5	6.49	3.2	32	238	529	6	1.0		10	5.6	
BET-MW8s	8/16/2019	11:21	10.78									2.69			
BET-MW8s	8/16/2019	11:24		22.5	6.70	1.7	21	189	705		1.0		3		
BET-MW8s	8/16/2019	11:27		22.1	6.67	1.8	23	173	671		1.0		6		
BET-MW8s	8/16/2019	11:30		22.0	6.67	1.1	10	175	660		1.0		9		
BET-MW8s	8/16/2019	11:32		22.0	6.67	1.5	18	177	652		1.0		11		
BET-MW8s	8/16/2019	11:35	11.35	21.9	6.67	1.6	20	178	635	2	1.0		14	5.2	
BET-MW8s	11/11/2019	11:15	13.85									2.19			
BET-MW8s	11/11/2019	11:17		22.9	6.35	2.3	29	176	550		1.0		2		
BET-MW8s	11/11/2019	11:19		23.2	6.24	2.2	26	168	521		1.0		4		
BET-MW8s	11/11/2019	11:21		22.5	6.21	2.3	27	171	517		1.0		6		
BET-MW8s	11/11/2019	11:23		22.5	6.19	2.3	27	169	515		1.0		8		
BET-MW8s	11/11/2019	11:25	14.32	22.5	6.17	2.3	27	169	514	1.7	1.0		10	4.6	

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
DIE-MW1	2/22/2019	12:30	87.59									3.78			
DIE-MW1	2/22/2019	12:33		17.0	7.39	4.7	49	250	2,129	49	1.0		3	0.8	
DIE-MW1	5/20/2019	13:14	87.83									3.74			
DIE-MW1	5/20/2019	13:18		20.0	7.37	4.3	51	241	1,959	63	1.0		4		
DIE-MW1	5/20/2019	13:25	109.15	19.7	7.05	4.0	48	230	1,863	30	1.0		8	2.1	3 D
DIE-MW1	8/8/2019	17:45	86.91									3.89			
DIE-MW1	8/8/2019	17:48	108.10	20.1	7.26	4.5	52	269	1,987	25	1.0		3	0.8	D
DIE-MW1	11/18/2019	13:55	86.19									4			
DIE-MW1	11/18/2019	13:58	107.00	18.9	7.31	4.0	43	207	1,994	33	1.0		4	1	D
DIE-MW2	2/22/2019	13:10	104.21									3.71			
DIE-MW2	2/22/2019	13:14		18.5	7.64	6.7	72	227	1,122		1.0		4		
DIE-MW2	2/22/2019	13:18		18.5	7.59	6.7	71	224	1,118		1.0		8		
DIE-MW2	2/22/2019	13:22		18.4	7.57	6.0	65	219	1,116		1.0		12		
DIE-MW2	2/22/2019	13:26		18.4	7.57	5.8	63	219	1,115		1.0		16		
DIE-MW2	2/22/2019	13:30	104.55	18.4	7.57	5.8	63	220	1,115	35	1.0		20	5.4	
DIE-MW2	5/20/2019	12:16	110.30									2.71			
DIE-MW2	5/20/2019	12:19		19.2	7.63	5.0	59	268	1,016		1.0		3		
DIE-MW2	5/20/2019	12:22		19.0	7.46	4.5	53	265	1,021		1.0		6		
DIE-MW2	5/20/2019	12:25		18.7	7.44	4.2	49	256	1,022		1.0		9		
DIE-MW2	5/20/2019	12:28		18.6	7.46	4.7	56	252	1,025		1.0		12		
DIE-MW2	5/20/2019	12:31	110.77	18.7	7.44	4.6	54	244	1,022	75	1.0		15	5.5	
DIE-MW2	8/8/2019	17:03	114.89									1.96			
DIE-MW2	8/8/2019	17:05		19.9	7.87	6.1	67	270	978		1.0		2		
DIE-MW2	8/8/2019	17:07		19.5	7.64	5.8	64	273	1,076		1.0		4		
DIE-MW2	8/8/2019	17:10		19.4	7.49	5.8	64	272	1,074		1.0		7		
DIE-MW2	8/8/2019	17:12		19.2	7.48	5.6	62	270	1,076		1.0		9		
DIE-MW2	8/8/2019	17:14	115.10	18.9	7.46	5.7	62	268	1,073	26	1.0		11	5.6	
DIE-MW2	11/18/2019	13:00	105.60									3.48			
DIE-MW2	11/18/2019	13:04		18.7	8.03	6.3	69	203	1,032		1.0		4		
DIE-MW2	11/18/2019	13:08		18.7	7.72	5.9	66	205	1,026		1.0		8		
DIE-MW2	11/18/2019	13:12		18.6	7.64	5.6	61	205	1,029		1.0		12		
DIE-MW2	11/18/2019	13:16		18.7	7.59	5.6	62	205	1,028		1.0		16		
DIE-MW2	11/18/2019	13:20	105.75	18.7	7.60	5.6	62	204	1,028	21	1.0		20	5.7	
DIE-MW3	2/22/2019	12:45	101.26									3.07			
DIE-MW3	2/22/2019	12:48		18.4	7.35	4.2	46	234	1,758		1.0		3		
DIE-MW3	2/22/2019	12:51		18.5	7.07	4.2	45	234	1,736		1.0		6		
DIE-MW3	2/22/2019	12:55		18.4	7.09	4.0	44	233	1,738		1.0		10		
DIE-MW3	2/22/2019	12:58		18.4	7.10	4.2	45	230	1,738		1.0		13		
DIE-MW3	2/22/2019	13:01	102.70	18.5	7.10	3.8	42	225	1,738	37	1.0		16	5.2	
DIE-MW3	5/20/2019	12:44	105.52									2.37			

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Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
DIE-MW3	5/20/2019	12:47		19.3	7.10	3.4	41	231	1,534		1.0		3		
DIE-MW3	5/20/2019	12:50		19.2	7.03	3.2	38	227	1,546		1.0		6		
DIE-MW3	5/20/2019	12:52		19.4	7.01	3.1	38	216	1,550		1.0		8		
DIE-MW3	5/20/2019	12:55		19.0	7.01	3.0	37	216	1,561		1.0		11		
DIE-MW3	5/20/2019	12:57	107.38	19.1	6.99	3.1	38	216	1,563	66	1.0		13	5.5	
DIE-MW3	8/8/2019	17:20	107.21									2.1			
DIE-MW3	8/8/2019	17:23		19.6	7.34	4.1	46	279	1,491		1.0		3		
DIE-MW3	8/8/2019	17:26		19.0	7.11	3.5	39	272	1,569		1.0		6		
DIE-MW3	8/8/2019	17:29		19.0	7.06	3.3	38	266	1,593		1.0		9		
DIE-MW3	8/8/2019	17:33		19.2	7.05	3.3	36	262	1,598		1.0		13		
DIE-MW3	8/8/2019	17:36	108.70	19.0	7.06	3.3	36	261	1,607	33	1.0		16	7.6	
DIE-MW3	11/18/2019	13:28	101.21									3.08			
DIE-MW3	11/18/2019	13:32		18.7	7.46	2.7	29	207	1,777		1.0		4		
DIE-MW3	11/18/2019	13:36		18.7	7.20	2.2	25	210	1,776		1.0		8		
DIE-MW3	11/18/2019	13:40		18.7	7.16	2.4	26	208	1,775		1.0		12		
DIE-MW3	11/18/2019	13:44		18.7	7.15	2.4	26	207	1,777		1.0		16		
DIE-MW3	11/18/2019	13:48	102.40	18.7	7.16	2.4	26	207	1,777	63	1.0		20	6.5	
DIE-MW4	2/22/2019	12:00	96.95									1.11			
DIE-MW4	2/22/2019	12:02		16.3	7.50	6.1	64	233	1,502	287	1.0		2	1.8	
DIE-MW4	5/20/2019	14:43	97.69									0.98			
DIE-MW4	5/20/2019	14:44		19.9	7.11	3.0	36	233	1,356		1.0		1		
DIE-MW4	5/20/2019	14:45		19.1	7.05	3.7	45	231	1,354	172	1.0		2	2	D
DIE-MW4	8/8/2019	18:00	95.25									1.38			
DIE-MW4	8/8/2019	18:02	98.10	19.9	7.24	3.9	42	275	1,548	260	1.0		2	1.4	D
DIE-MW4	11/18/2019	14:00	88.96									2.41			
DIE-MW4	11/18/2019	14:03		18.7	7.26	3.8	42	208	1,310		1.0		3		
DIE-MW4	11/18/2019	14:06		18.6	7.08	3.7	40	211	1,311		1.0		6		
DIE-MW4	11/18/2019	14:10		18.5	7.06	4.0	43	213	1,317		1.0		10		
DIE-MW4	11/18/2019	14:13		18.5	7.06	4.0	43	213	1,315		1.0		13		
DIE-MW4	11/18/2019	14:16	93.40	18.5	7.04	3.8	42	215	1,315	362	1.0		16	6.6	
DUR-MW1	2/19/2019	9:50	11.74									1.9			
DUR-MW1	2/19/2019	9:52		19.0	7.39	1.0	10	181	2,220		1.0		2		
DUR-MW1	2/19/2019	9:54		19.7	7.03	1.0	10	184	2,190		1.0		4		
DUR-MW1	2/19/2019	9:57		19.8	6.97	0.9	10	187	2,188		1.0		7		
DUR-MW1	2/19/2019	9:59		19.9	6.92	0.9	10	186	2,189		1.0		9		
DUR-MW1	2/19/2019	10:01	12.62	19.8	6.93	0.9	9	189	2,195	2	1.0		11	5.8	
DUR-MW1	5/17/2019	9:30	13.12									1.67			
DUR-MW1	5/17/2019	9:32		19.5	6.86	1.9	21	215	2,294		1.0		2		
DUR-MW1	5/17/2019	9:34		19.5	6.93	1.1	19	175	2,312		1.0		4		
DUR-MW1	5/17/2019	9:37		19.6	6.99	1.0	16	143	2,326		1.0		7		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
DUR-MW1	5/17/2019	9:39		19.5	7.01	0.9	16	131	2,322		1.0		9		
DUR-MW1	5/17/2019	9:41	13.63	19.6	6.98	0.8	13	123	2,341	1	1.0		11	6.6	
DUR-MW1	8/23/2019	11:13	13.15									1.67			
DUR-MW1	8/23/2019	11:17		23.1	7.60	2.4	30	146	2,308		0.5		2		
DUR-MW1	8/23/2019	11:21		21.7	7.38	2.7	34	133	1,902		0.5		4		
DUR-MW1	8/23/2019	11:25		20.9	7.28	2.7	33	133	1,947		0.5		6		
DUR-MW1	8/23/2019	11:29		20.9	7.23	2.9	36	132	1,993		0.5		8		
DUR-MW1	8/23/2019	11:33	14.15	21.4	7.09	2.7	32	128	2,012	2	0.5		10	6	
DUR-MW1	11/11/2019	11:04	13.23									1.65			
DUR-MW1	11/11/2019	11:06		20.8	7.53	1.5	21	75	3,254		1.0		2		
DUR-MW1	11/11/2019	11:10		20.8	7.34	1.4	23	81	3,031		0.5		4		
DUR-MW1	11/11/2019	11:16		20.8	7.34	1.1	21	80	2,773		0.5		7		
DUR-MW1	11/11/2019	11:20		21.0	7.26	1.1	21	79	2,617		0.5		9		
DUR-MW1	11/11/2019	11:24	13.94	21.1	7.21	1.2	21	80	2,543	3	0.5		11	6.7	
DUR-MW2	2/19/2019	9:30	13.12									1.72			
DUR-MW2	2/19/2019	9:32		18.9	6.88	1.5	16	207	3,450		1.0		2		
DUR-MW2	2/19/2019	9:34		18.9	6.94	1.0	10	176	3,432		1.0		4		
DUR-MW2	2/19/2019	9:37		19.3	6.96	1.0	10	154	3,420		1.0		7		
DUR-MW2	2/19/2019	9:39		19.1	6.97	1.0	10	136	3,426		1.0		9		
DUR-MW2	2/19/2019	9:41	15.07	19.3	6.95	1.0	10	115	3,419	2	1.0		11	6.4	
DUR-MW2	5/17/2019	9:50	16.09									1.23			
DUR-MW2	5/17/2019	9:52		19.5	6.93	1.1	18	110	3,139		1.0		2		
DUR-MW2	5/17/2019	9:54		19.5	6.79	1.1	18	108	3,159		1.0		4		
DUR-MW2	5/17/2019	9:57		19.4	6.82	1.0	18	111	3,164		1.0		7		
DUR-MW2	5/17/2019	9:59		19.4	6.81	1.0	18	112	3,172		1.0		9		
DUR-MW2	5/17/2019	10:01	16.70	19.4	6.83	1.0	18	113	3,180	1	1.0		11	8.9	
DUR-MW2	8/23/2019	11:41	15.75									1.29			
DUR-MW2	8/23/2019	11:43		24.3	7.16	3.0	42	153	2,403		1.0		2		
DUR-MW2	8/23/2019	11:46		21.5	7.01	2.7	32	153	2,491		0.5		3.5		
DUR-MW2	8/23/2019	11:49		21.2	7.00	2.3	30	152	2,538		0.5		5		
DUR-MW2	8/23/2019	11:52		21.0	6.95	2.1	29	149	2,697		0.5		6.5		
DUR-MW2	8/23/2019	11:55	17.58	21.4	6.92	1.9	25	138	2,804	2	0.5		8	6.2	
DUR-MW2	11/11/2019	11:31	14.27									1.54			
DUR-MW2	11/11/2019	11:33		20.9	7.25	1.8	23	99	2,854		1.0		2		
DUR-MW2	11/11/2019	11:35		20.9	7.09	1.4	19	98	2,880		1.0		4		
DUR-MW2	11/11/2019	11:37		20.9	7.13	1.2	18	95	2,898		1.0		6		
DUR-MW2	11/11/2019	11:39		20.9	7.09	1.2	19	92	2,929		1.0		8		
DUR-MW2	11/11/2019	11:42	16.20	20.9	7.11	1.2	19	88	2,937	2	1.0		11	7.1	
DUR-MW3	2/19/2019	10:40	11.15									2			
DUR-MW3	2/19/2019	10:42		18.3	6.91	1.5	16	15	2,411		1.0		2		
DUR-MW3	2/19/2019	10:44		18.6	6.82	1.3	11	5	2,389		1.0		4		
DUR-MW3	2/19/2019	10:47		18.6	6.81	1.1	11	10	2,405		1.0		7		
DUR-MW3	2/19/2019	10:49		18.7	6.79	1.0	10	16	2,409		1.0		9		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
DUR-MW3	2/19/2019	10:51	11.70	18.7	6.78	1.0	10	16	2,414	10	1.0		11	5.5	
DUR-MW3	5/17/2019	10:25	12.67									1.75			
DUR-MW3	5/17/2019	10:27		18.7	6.99	0.9	18	-35	2,170		1.0		2		
DUR-MW3	5/17/2019	10:29		18.6	6.80	0.8	17	-82	2,092		1.0		4		
DUR-MW3	5/17/2019	10:32		18.6	6.82	0.8	17	-98	2,096		1.0		7		
DUR-MW3	5/17/2019	10:34		18.6	6.84	0.8	17	-105	2,135		1.0		9		
DUR-MW3	5/17/2019	10:36	13.10	18.6	6.85	0.7	16	-107	2,157	3	1.0		11	6.3	
DUR-MW3	8/23/2019	10:20	12.80									1.73			
DUR-MW3	8/23/2019	10:22		26.7	7.58	2.1	27	129	3,026		1.0		2		
DUR-MW3	8/23/2019	10:24		23.1	7.33	1.9	24	135	2,788		1.0		4		
DUR-MW3	8/23/2019	10:26		21.8	7.21	1.7	22	133	2,739		1.0		6		
DUR-MW3	8/23/2019	10:28		21.3	7.12	1.7	22	134	2,759		1.0		8		
DUR-MW3	8/23/2019	10:31	13.80	21.5	7.18	1.7	21	135	2,772	3	1.0		11	6.4	
DUR-MW3	11/11/2019	10:13	12.40									1.8			
DUR-MW3	11/11/2019	10:15		20.9	8.54	2.6	33	63	3,364		1.0		2		
DUR-MW3	11/11/2019	10:18		20.9	7.46	1.6	25	50	3,331		1.0		5		
DUR-MW3	11/11/2019	10:20		20.8	7.37	1.3	22	52	3,323		1.0		7		
DUR-MW3	11/11/2019	10:22		20.7	7.28	1.2	21	49	3,311		1.0		9		
DUR-MW3	11/11/2019	10:24	13.00	20.7	7.19	1.1	21	56	3,297	2	1.0		11	6.1	
DUR-MW4	2/19/2019	10:15	10.66									2.09			
DUR-MW4	2/19/2019	10:18		19.4	6.75	1.2	18	210	4,041		1.0		3		
DUR-MW4	2/19/2019	10:21		19.5	6.71	1.1	14	209	4,060		1.0		6		
DUR-MW4	2/19/2019	10:25		19.8	6.71	1.0	10	209	4,096		1.0		10		
DUR-MW4	2/19/2019	10:28		19.9	6.72	1.0	10	210	4,129		1.0		13		
DUR-MW4	2/19/2019	10:31	12.06	19.9	6.72	1.0	10	211	4,112	1	1.0		16	7.7	
DUR-MW4	5/17/2019	10:08	11.45									1.96			
DUR-MW4	5/17/2019	10:10		19.1	6.93	1.0	16	126	3,667		1.0		2		
DUR-MW4	5/17/2019	10:12		19.1	6.83	1.0	16	130	3,832		1.0		4		
DUR-MW4	5/17/2019	10:15		19.2	6.83	1.0	16	131	3,901		1.0		7		
DUR-MW4	5/17/2019	10:17		19.2	6.80	0.9	16	132	3,904		1.0		9		
DUR-MW4	5/17/2019	10:19	12.68	19.2	6.81	0.9	16	133	3,941	1	1.0		11	5.6	
DUR-MW4	8/23/2019	10:44	11.80									1.91			
DUR-MW4	8/23/2019	10:46		24.1	7.27	3.2	36	157	4,008		1.0		2		
DUR-MW4	8/23/2019	10:50		21.6	7.08	3.2	35	163	4,231		0.5		4		
DUR-MW4	8/23/2019	10:54		21.5	7.02	3.1	33	158	4,280		0.5		6		
DUR-MW4	8/23/2019	10:59		21.2	7.05	3.0	32	149	4,297		0.5		8.5		
DUR-MW4	8/23/2019	11:03	13.73	21.0	7.08	2.9	32	145	4,317	2	0.5		10.5	5.5	
DUR-MW4	11/11/2019	10:34	12.13									1.86			
DUR-MW4	11/11/2019	10:38		20.7	7.30	1.9	29	88	3,532		0.5		2		
DUR-MW4	11/11/2019	10:42		20.9	7.10	1.5	25	80	3,779		0.5		4		
DUR-MW4	11/11/2019	10:46		21.0	6.97	1.2	22	83	3,854		0.5		6		
DUR-MW4	11/11/2019	10:50		21.2	7.07	1.2	22	83	3,933		0.5		8		
DUR-MW4	11/11/2019	10:54	13.60	21.1	7.06	1.2	21	74	3,990	3	0.5		10	5.4	

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
DUR-MW6	2/19/2019	11:45	8.64									2.06			
DUR-MW6	2/19/2019	11:48		18.9	7.15	1.2	13	164	2,209		1.0		3		
DUR-MW6	2/19/2019	11:51		19.0	6.93	1.1	12	155	2,192		1.0		6		
DUR-MW6	2/19/2019	11:55		19.1	6.98	1.0	11	152	2,192		1.0		10		
DUR-MW6	2/19/2019	11:58		19.1	6.94	1.0	10	152	2,192		1.0		13		
DUR-MW6	2/19/2019	12:01	9.05	19.2	6.93	1.0	10	152	2,189	1	1.0		16	7.8	
DUR-MW6	5/17/2019	11:22	9.04									2			
DUR-MW6	5/17/2019	11:24		18.6	7.21	1.0	18	61	2,235		1.0		2		
DUR-MW6	5/17/2019	11:26		18.6	7.08	0.7	16	63	2,227		1.0		4		
DUR-MW6	5/17/2019	11:28		18.6	7.05	0.7	16	63	2,224		1.0		7		
DUR-MW6	5/17/2019	11:30		18.7	7.04	0.7	16	62	2,224		1.0		9		
DUR-MW6	5/17/2019	11:32	9.28	18.7	7.04	0.7	16	61	2,224	2	1.0		11	5.5	
DUR-MW6	8/23/2019	8:36	9.03									2.01			
DUR-MW6	8/23/2019	8:40		21.4	7.42	2.4	33	99	2,355		0.5		2		
DUR-MW6	8/23/2019	8:44		21.8	7.24	2.4	32	86	2,350		0.5		4		
DUR-MW6	8/23/2019	8:48		21.1	7.15	2.3	32	85	2,316		0.5		6		
DUR-MW6	8/23/2019	8:52		20.5	7.13	2.1	30	84	2,333		0.5		8		
DUR-MW6	8/23/2019	8:58	9.54		7.16	2.0	30	84	2,331	2	0.5		11	5.5	
DUR-MW6	11/11/2019	8:49	9.46									1.94			
DUR-MW6	11/11/2019	8:51		19.1	6.68	3.6	45	213	2,629		1.0		2		
DUR-MW6	11/11/2019	8:55		20.1	6.90	1.7	29	207	2,641		0.5		4		
DUR-MW6	11/11/2019	8:59		20.5	6.94	1.4	26	201	2,636		0.5		6		
DUR-MW6	11/11/2019	9:04		20.5	6.97	1.3	25	196	2,635		0.5		8.5		
DUR-MW6	11/11/2019	9:08	9.75	20.5	7.00	0.8	19	186	2,625	3	0.5		10.5	5.4	
DUR-MW7	2/19/2019	12:25	12.32									1.6			
DUR-MW7	2/19/2019	12:27		18.8	6.98	1.4	14	112	3,999		1.0		2		
DUR-MW7	2/19/2019	12:29		19.0	6.94	1.3	14	48	3,758		1.0		4		
DUR-MW7	2/19/2019	12:32		19.1	6.89	1.2	13	57	3,461		1.0		7		
DUR-MW7	2/19/2019	12:34		19.1	6.86	1.1	12	50	3,346		1.0		9		
DUR-MW7	2/19/2019	12:36	14.20	19.1	6.86	1.0	11	46	3,309	31	1.0		11	6.9	
DUR-MW7	5/16/2019	15:20	13.92									1.34			
DUR-MW7	5/16/2019	15:22		19.5	7.59	1.0	12	56	3,084		1.0		2		
DUR-MW7	5/16/2019	15:24		19.0	7.51	1.0	12	47	3,060		1.0		4		
DUR-MW7	5/16/2019	15:27		19.2	7.48	0.9	10	42	3,041		1.0		7		
DUR-MW7	5/16/2019	15:29		19.2	7.46	0.9	10	22	3,031		1.0		9		
DUR-MW7	5/16/2019	15:31	15.89	19.4	7.49	0.9	10	4	3,047	157	1.0		11	8.2	
DUR-MW7	8/23/2019	9:14	13.50									1.42			
DUR-MW7	8/23/2019	9:16		25.4	7.29	2.9	38	97	3,027		1.0		2		
DUR-MW7	8/23/2019	9:19		23.1	7.17	2.4	32	60	2,898		0.5		3.5		
DUR-MW7	8/23/2019	9:22		21.3	7.14	2.1	26	43	3,090		0.5		5		
DUR-MW7	8/23/2019	9:25		20.8	7.09	2.0	24	49	3,183		0.5		6.5		
DUR-MW7	8/23/2019	9:28	20.85	20.5	7.06	1.9	23	44	3,206	4	0.5		8	5.6	

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Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
DUR-MW7	11/11/2019	9:21	13.58									1.4			
DUR-MW7	11/11/2019	9:24		19.4	7.24	1.8	27	-156	4,214		0.5		1.5		
DUR-MW7	11/11/2019	9:27		20.0	7.18	1.6	26	-121	4,637		0.5		3		
DUR-MW7	11/11/2019	9:31		20.3	7.19	1.5	24	-98	4,645		0.5		5		
DUR-MW7	11/11/2019	9:34		20.5	7.14	1.5	23	-93	4,566		0.5		6.5		
DUR-MW7	11/11/2019	9:37	14.84	20.7	7.11	1.3	20	-80	4,380	3	0.5		8	5.7	
DUR-MW8	2/19/2019	12:10	11.58									1.84			
DUR-MW8	2/19/2019	12:12		19.2	7.12	1.5	16	166	1,089		1.0		2		
DUR-MW8	2/19/2019	12:14		19.5	6.82	1.4	15	165	1,022		1.0		4		
DUR-MW8	2/19/2019	12:17	22.60	20.0	6.90	1.3	14	162	1,018	7	1.0		7	3.8	
DUR-MW8	5/16/2019	16:03	12.51									1.69			
DUR-MW8	5/16/2019	16:05		18.7	7.73	1.1	12	58	1,185		1.0		2		
DUR-MW8	5/16/2019	16:07		18.4	7.38	1.0	11	73	1,144		1.0		4		
DUR-MW8	5/16/2019	16:09		18.9	7.32	1.0	11	73	1,118		1.0		7		
DUR-MW8	5/16/2019	16:11		18.7	7.30	0.9	10	73	1,110		1.0		9		
DUR-MW8	5/16/2019	16:13	16.45	18.7	7.30	0.9	10	70	1,112	38	1.0		11	6.5	
DUR-MW8	8/23/2019	12:06	11.70									1.82			
DUR-MW8	8/23/2019	12:10		23.2	7.58	3.1	38	136	1,643		0.5		2		
DUR-MW8	8/23/2019	12:14		21.8	7.04	1.8	23	135	1,256		0.5		4		
DUR-MW8	8/23/2019	12:21	21.82	22.4	6.85	2.7	31	139	1,146	3	0.5		4.5	2.5	3 D
DUR-MW8	11/11/2019	11:50	12.41									1.71			
DUR-MW8	11/11/2019	11:54		21.5	7.64	1.3	21	78	QM		0.5		2		
DUR-MW8	11/11/2019	11:59		21.8	7.16	1.2	20	84	QM		0.5		4		
DUR-MW8	11/11/2019	12:01		21.8	6.96	1.1	19	87	QM		0.5		5		
DUR-MW8	11/11/2019	12:13	21.19	22.5	6.93	1.3	20	88	QM	2	0.5		5.25	3.1	D
DUR-MW9	2/19/2019	12:45	10.70									1.75			
DUR-MW9	2/19/2019	12:47		19.0	7.35	1.0	11	151	1,116		1.0		2		
DUR-MW9	2/19/2019	12:49		19.5	6.88	0.9	10	139	986		1.0		4		
DUR-MW9	2/19/2019	12:52		19.6	6.81	0.9	10	139	989		1.0		7		
DUR-MW9	2/19/2019	12:54		19.6	6.85	0.8	9	143	987		1.0		9		
DUR-MW9	2/19/2019	12:56	10.80	19.7	6.78	0.8	9	148	982	2	1.0		11	6.3	
DUR-MW9	5/16/2019	14:30	9.44									1.95			
DUR-MW9	5/16/2019	14:32		18.6	6.80	1.0	12	192	966		1.0		2		
DUR-MW9	5/16/2019	14:34		18.5	7.10	1.0	11	155	969		1.0		4		
DUR-MW9	5/16/2019	14:37		18.8	7.16	0.9	11	142	960		1.0		7		
DUR-MW9	5/16/2019	14:39		18.4	7.22	0.9	10	138	948		1.0		9		
DUR-MW9	5/16/2019	14:41	9.54	18.2	7.27	0.9	10	138	931	7	1.0		11	5.6	
DUR-MW9	8/23/2019	12:37	8.15									2.17			
DUR-MW9	8/23/2019	12:40		21.4	7.50	2.5	33	153	833		1.0		3		
DUR-MW9	8/23/2019	12:43		21.3	7.16	2.2	30	150	832		1.0		6		
DUR-MW9	8/23/2019	12:48		20.8	7.08	2.1	29	142	863		0.5		8.5		
DUR-MW9	8/23/2019	12:53		20.4	7.12	1.9	26	133	881		0.5		11		
DUR-MW9	8/23/2019	12:58		20.6	7.10	1.9	25	131	887	2	0.5		13.5	6.2	

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
DUR-MW9	11/11/2019	12:21	10.62									1.76			
DUR-MW9	11/11/2019	12:23		22.2	7.44	2.1	29	97	1,445		1.0		2		
DUR-MW9	11/11/2019	12:25		22.0	7.24	1.8	27	98	1,331		1.0		4		
DUR-MW9	11/11/2019	12:27		21.6	7.15	1.6	26	108	1,247		1.0		6		
DUR-MW9	11/11/2019	12:29		21.5	7.26	1.6	25	97	1,186		1.0		8		
DUR-MW9	11/11/2019	12:32	10.74	21.3	7.23	1.5	24	106	1,109	2	1.0		11	6.2	3
DUR-MW10d	2/19/2019	11:05	11.97									5.65			
DUR-MW10d	2/19/2019	11:11		20.2	7.00	1.5	16	67	2,365		1.0		6		
DUR-MW10d	2/19/2019	11:17		20.3	6.81	1.3	13	116	2,364		1.0		12		
DUR-MW10d	2/19/2019	11:23		20.5	6.81	1.0	10	132	2,376		1.0		18		
DUR-MW10d	2/19/2019	11:29		20.6	6.81	1.0	10	140	2,378		1.0		24		
DUR-MW10d	2/19/2019	11:35	12.94	20.6	6.83	1.0	10	143	2,382	2	1.0		30	5.3	
DUR-MW10d	5/17/2019	10:45	13.48									5.41			
DUR-MW10d	5/17/2019	10:51		20.3	7.06	0.7	16	-19	2,451		1.0		6		
DUR-MW10d	5/17/2019	10:57		20.6	6.93	0.7	16	8	2,453		1.0		12		
DUR-MW10d	5/17/2019	11:03		20.5	6.96	0.7	16	32	2,450		1.0		18		
DUR-MW10d	5/17/2019	11:09		20.6	6.94	0.7	16	45	2,447		1.0		24		
DUR-MW10d	5/17/2019	11:15	15.65	20.5	6.96	0.7	16	51	2,446	2	1.0		30	5.5	
DUR-MW10s	8/23/2019	9:44	12.14									1.85			
DUR-MW10s	8/23/2019	9:48		22.0	7.01	3.4	42	-47	8,314		0.5		2		
DUR-MW10s	8/23/2019	9:52		22.1	7.14	2.4	32	-103	8,535		0.5		4		
DUR-MW10s	8/23/2019	9:56		22.3	7.26	2.3	32	-47	8,652		0.5		6		
DUR-MW10s	8/23/2019	10:01		22.7	7.39	2.2	31	-64	8,284		0.5		8.5		
DUR-MW10s	8/23/2019	10:05	21.52	22.6	7.27	2.2	31	-95	8,275	24	0.5		10.5	5.7	D
DUR-MW10s	11/11/2019	9:51	13.00									1.71			
DUR-MW10s	11/11/2019	9:53		21.6	7.64	2.1	28	-69	5,411		1.0		2		
DUR-MW10s	11/11/2019	9:55		22.1	7.31	1.1	16	-71	5,361		1.0		4		
DUR-MW10s	11/11/2019	9:57		22.1	7.20	0.8	13	-103	5,387		1.0		6		
DUR-MW10s	11/11/2019	9:59		22.1	7.22	0.9	14	-100	5,392		1.0		8		
DUR-MW10s	11/11/2019	10:02	19.89	22.2	7.30	1.0	14	-85	5,557	27	1.0		11	6.4	
FG1-MW1s	2/25/2019	11:45	14.96									0.52			
FG1-MW1s	2/25/2019	11:47		21.1	6.68	1.3	15	202	2,394		0.5		1		
FG1-MW1s	2/25/2019	11:49		20.6	6.89	0.8	9	134	2,324		0.5		2		
FG1-MW1s	2/25/2019	11:52		20.6	6.89	0.8	9	106	2,273		0.5		3.5		
FG1-MW1s	2/25/2019	11:54		20.6	6.89	0.8	10	92	2,243		0.5		4.5		
FG1-MW1s	2/25/2019	11:56	16.22	20.6	6.91	0.8	9	91	2,225	10	0.5		5.5	10.6	
FG1-MW1s	5/24/2019	12:44	12.40									0.95			
FG1-MW1s	5/24/2019	12:48		21.1	7.35	2.7	37	179	2,541		0.25		1		
FG1-MW1s	5/24/2019	12:52		20.9	7.01	2.4	33	76	2,540		0.25		2		
FG1-MW1s	5/24/2019	12:56		20.7	6.96	2.2	30	23	2,466		0.25		3		
FG1-MW1s	5/24/2019	13:02		20.7	6.97	2.2	31	-1	2,410		0.25		4.5		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
FG1-MW1s	5/24/2019	13:06	13.31	20.6	6.99	2.8	40	-17	2,339	6	0.25		5.5	5.8	
FG1-MW1s	8/20/2019	11:37	15.87									0.38			
FG1-MW1s	8/20/2019	11:39		23.6	7.11	2.8	28	67	2,272		0.25		0.5		
FG1-MW1s	8/20/2019	11:41		23.0	7.04	1.6	15	24	2,128		0.25		1		
FG1-MW1s	8/20/2019	11:43		22.8	7.02	1.8	15	8	2,124		0.25		1.5		
FG1-MW1s	8/20/2019	11:45		22.8	7.03	1.7	15	-3	2,114		0.25		2		
FG1-MW1s	8/20/2019	11:47	16.45	23.0	7.02	1.6	14	12	2,098	8	0.25		3.5	9.2	
FG1-MW1d	11/13/2019	12:10	15.33									2.54			
FG1-MW1d	11/13/2019	12:13		20.5	6.69	1.2	14	201	2,147		1.0		3		
FG1-MW1d	11/13/2019	12:16		20.7	6.77	1.1	13	192	2,164		1.0		6		
FG1-MW1d	11/13/2019	12:20		20.8	6.80	1.1	13	185	2,165		1.0		10		
FG1-MW1d	11/13/2019	12:23		20.8	6.80	1.0	12	177	2,163		1.0		13		
FG1-MW1d	11/13/2019	12:26	15.50	20.8	6.80	1.0	12	174	2,162	3	1.0		16	6.3	
FG1-MW2s	2/25/2019	12:20	15.60									0.39			
FG1-MW2s	2/25/2019	12:22		19.1	7.19	2.4	26	208	4,594		0.5		1		
FG1-MW2s	2/25/2019	12:24		19.0	7.19	2.1	24	210	4,807		0.5		2		
FG1-MW2s	2/25/2019	12:27		19.0	7.17	2.1	24	211	4,865		0.5		3.5		
FG1-MW2s	2/25/2019	12:29		19.0	7.16	2.1	23	211	4,895		0.5		4.5		
FG1-MW2s	2/25/2019	12:31	15.92	19.0	7.16	1.8	20	212	4,950	36	0.5		5.5	14.1	
FG1-MW2s	5/24/2019	11:33	14.30									0.61			
FG1-MW2s	5/24/2019	11:34		20.3	7.07	2.1	31	200	1,845		1.0		1		
FG1-MW2s	5/24/2019	11:37		20.4	7.09	2.0	30	202	2,107		0.5		2.5		
FG1-MW2s	5/24/2019	11:40		20.6	7.04	2.1	30	201	2,245		0.5		4		
FG1-MW2s	5/24/2019	11:43		20.7	7.01	2.1	30	199	2,397		0.5		5.5		
FG1-MW2s	5/24/2019	11:45	14.76	20.7	7.02	2.0	29	195	2,384	3	0.5		6.5	10.7	
FG1-MW2d	8/20/2019	12:22	19.54									1.8			
FG1-MW2d	8/20/2019	12:26		23.6	6.74	1.1	6	173	1,627		0.5		2		
FG1-MW2d	8/20/2019	12:31		23.5	6.67	0.8	4	158	1,620		0.5		4.5		
FG1-MW2d	8/20/2019	12:35		23.3	6.67	1.0	6	155	1,623		0.5		6.5		
FG1-MW2d	8/20/2019	12:39		23.4	6.69	0.9	8	156	1,639		0.5		8.5		
FG1-MW2d	8/20/2019	12:43	19.55	23.6	6.69	0.9	5	155	1,645	3	0.5		10.5	5.8	
FG1-MW2d	11/13/2019	12:55	18.95									1.94			
FG1-MW2d	11/13/2019	12:57		22.4	7.18	1.3	15	160	1,457		1.0		2		
FG1-MW2d	11/13/2019	12:59		22.4	6.67	1.2	13	161	1,455		1.0		4		
FG1-MW2d	11/13/2019	13:02		22.4	6.52	1.0	12	161	1,458		1.0		7		
FG1-MW2d	11/13/2019	13:04		22.4	6.48	1.0	12	160	1,463		1.0		9		
FG1-MW2d	11/13/2019	13:06	19.05	22.4	6.46	1.0	12	158	1,465	3	1.0		11	5.7	
FG1-MW3s	2/25/2019	12:05	15.25									0.38			
FG1-MW3s	2/25/2019	12:07		21.1	7.15	2.2	25	119	2,116		0.5		1		
FG1-MW3s	2/25/2019	12:09		21.0	7.13	2.3	26	139	2,105		0.5		2		
FG1-MW3s	2/25/2019	12:12		21.2	7.16	2.2	25	165	2,093		0.5		3.5		
FG1-MW3s	2/25/2019	12:14		21.3	7.17	2.2	26	168	2,090		0.5		4.5		
FG1-MW3s	2/25/2019	12:16	17.24	21.5	7.18	2.2	25	173	2,073	215	0.5		5.5	14.5	

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Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
FG1-MW3s	5/24/2019	12:04	13.10									0.73			
FG1-MW3s	5/24/2019	12:08		21.0	7.25	2.8	37	192	2,146		0.25		1		
FG1-MW3s	5/24/2019	12:12		21.1	7.15	2.8	37	191	2,092		0.25		2		
FG1-MW3s	5/24/2019	12:16		21.2	7.15	2.7	37	189	2,061		0.25		3		
FG1-MW3s	5/24/2019	12:22		21.4	7.17	2.8	37	187	2,026		0.25		4.5		
FG1-MW3s	5/24/2019	12:26	14.61	21.4	7.15	2.9	38	183	2,026	30	0.25		5.5	7.5	
FG1-MW3d	8/20/2019	11:57	17.36									2.2			
FG1-MW3d	8/20/2019	12:00		23.5	7.30	1.0	4	74	1,774		1.0		2.5		
FG1-MW3d	8/20/2019	12:03		23.7	7.26	0.9	6	83	1,816		1.0		5		
FG1-MW3d	8/20/2019	12:06		23.2	7.25	1.0	7	87	1,859		1.0		8		
FG1-MW3d	8/20/2019	12:09		23.2	7.23	0.9	6	95	1,880		1.0		10.5		
FG1-MW3d	8/20/2019	12:12	22.21	23.8	7.24	0.8	6	100	1,908	8	1.0		13.5	6.1	
FG1-MW3d	11/13/2019	12:32	16.88									2.3			
FG1-MW3d	11/13/2019	12:35		22.8	7.19	1.6	19	163	1,700		1.0		3		
FG1-MW3d	11/13/2019	12:38		22.9	7.11	1.6	20	163	1,739		1.0		6		
FG1-MW3d	11/13/2019	12:42		22.8	7.07	1.6	19	162	1,775		1.0		10		
FG1-MW3d	11/13/2019	12:45		22.8	7.12	1.6	19	159	1,806		1.0		13		
FG1-MW3d	11/13/2019	12:48	23.53	22.8	7.07	1.7	21	158	1,806	8	1.0		16	7	
FG1-MW4s	2/25/2019	11:25	11.91									1.77			
FG1-MW4s	2/25/2019	11:27		21.0	6.73	0.9	11	256	2,476		1.0		2		
FG1-MW4s	2/25/2019	11:29		21.4	6.05	0.7	9	254	2,395		1.0		4		
FG1-MW4s	2/25/2019	11:32		21.6	6.07	0.7	9	249	2,333		1.0		7		
FG1-MW4s	2/25/2019	11:34		21.7	6.05	0.8	9	247	2,310		1.0		9		
FG1-MW4s	2/25/2019	11:36	12.36	21.7	6.06	0.8	9	245	2,295	5	1.0		11	6.2	
FG1-MW4s	5/24/2019	9:28	10.43									2.02			
FG1-MW4s	5/24/2019	9:30		20.2	6.88	2.2	34	227	1,932		1.0		2		
FG1-MW4s	5/24/2019	9:34		20.4	6.31	2.1	31	228	1,982		0.5		4		
FG1-MW4s	5/24/2019	9:39		21.1	6.26	1.9	27	230	2,075		0.5		6.5		
FG1-MW4s	5/24/2019	9:44		21.3	6.13	1.7	26	225	2,109		0.5		9		
FG1-MW4s	5/24/2019	9:48	11.01	21.5	6.14	1.8	26	221	2,134	4	0.5		11	5.4	
FG1-MW4s	8/20/2019	15:25	16.10									1.09			
FG1-MW4s	8/20/2019	15:27		26.1	6.45	1.8	12	197	2,076		0.5		1		
FG1-MW4s	8/20/2019	15:29		26.4	6.33	1.5	7	199	2,364		0.5		2		
FG1-MW4s	8/20/2019	15:31		26.3	6.36	1.5	9	195	2,412		0.5		3		
FG1-MW4s	8/20/2019	15:33		26.3	6.41	1.2	5	196	2,405		0.5		4		
FG1-MW4s	8/20/2019	15:35	16.26	25.5	6.41	1.3	6	197	2,343	14	0.5		5.5	5	
FG1-MW4s	11/13/2019	13:15	15.38									1.21			
FG1-MW4s	11/13/2019	13:17		24.0	6.51	1.4	17	165	2,091		1.0		2		
FG1-MW4s	11/13/2019	13:19		24.2	6.22	1.4	17	168	2,145		1.0		4		
FG1-MW4s	11/13/2019	13:22		24.2	6.22	1.5	18	169	2,151		1.0		7		
FG1-MW4s	11/13/2019	13:24		24.2	6.19	1.6	20	170	2,153		1.0		9		
FG1-MW4s	11/13/2019	13:26	15.77	24.2	6.19	1.6	20	170	2,156	5	1.0		11	9.1	

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Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
FG1-MW5s	2/25/2019	10:55	4.18									3.12			
FG1-MW5s	2/25/2019	10:59		17.8	6.86	2.6	27	249	2,284		1.0		4		
FG1-MW5s	2/25/2019	11:03		18.0	7.22	1.9	21	246	2,301		1.0		8		
FG1-MW5s	2/25/2019	11:07		18.0	7.20	1.9	22	245	2,288		1.0		12		
FG1-MW5s	2/25/2019	11:12		18.1	7.17	1.9	21	243	2,272		1.0		17		
FG1-MW5s	2/25/2019	11:16	4.38	18.1	7.18	1.9	21	241	2,255	2	1.0		21	6.7	
FG1-MW5s	5/24/2019	8:59	4.16									3.12			
FG1-MW5s	5/24/2019	9:03		16.7	6.44	2.3	37	274	1,609		1.0		4		
FG1-MW5s	5/24/2019	9:07		17.6	6.78	1.9	32	258	1,723		1.0		8		
FG1-MW5s	5/24/2019	9:11		17.7	6.81	1.6	30	255	1,685		1.0		12		
FG1-MW5s	5/24/2019	9:15		17.6	6.90	1.5	29	248	1,661		1.0		16		
FG1-MW5s	5/24/2019	9:19	4.37	17.7	6.92	1.6	30	240	1,614	8	1.0		20	6.4	
FG1-MW5s	8/20/2019	13:05	15.33									1.3			
FG1-MW5s	8/20/2019	13:08		22.2	6.93	1.0	5	152	1,685		0.5		1.5		
FG1-MW5s	8/20/2019	13:12		20.8	6.91	0.8	6	156	1,675		0.5		3.5		
FG1-MW5s	8/20/2019	13:15		20.7	6.89	0.7	6	157	1,638		0.5		5		
FG1-MW5s	8/20/2019	13:18		20.7	6.92	0.7	8	155	1,643		0.5		6.5		
FG1-MW5s	8/20/2019	13:21	15.33	21.4	6.91	0.6	7	155	1,653	2	0.5		8	6.2	
FG1-MW5s	11/13/2019	10:00	15.74									1.23			
FG1-MW5s	11/13/2019	10:02		20.1	6.65	3.3	37	234	1,865		1.0		2		
FG1-MW5s	11/13/2019	10:04		20.2	6.70	2.3	26	233	1,792		1.0		4		
FG1-MW5s	11/13/2019	10:07		20.3	6.72	2.2	25	229	1,726		1.0		7		
FG1-MW5s	11/13/2019	10:09		20.3	6.72	2.2	25	228	1,714		1.0		9		
FG1-MW5s	11/13/2019	10:11	15.86	20.3	6.73	2.1	23	224	1,691	17	1.0		11	8.9	
FG1-MW6s	2/25/2019	10:35	14.26									1.34			
FG1-MW6s	2/25/2019	10:37		21.8	6.59	0.8	10	241	928		1.0		2		
FG1-MW6s	2/25/2019	10:39		22.0	6.41	0.7	8	239	930		1.0		4		
FG1-MW6s	2/25/2019	10:42		22.0	6.45	0.7	7	236	930		1.0		7		
FG1-MW6s	2/25/2019	10:44		22.0	6.42	0.7	8	235	931		1.0		9		
FG1-MW6s	2/25/2019	10:46	14.34	22.0	6.41	0.7	8	234	932	2	1.0		11	8.2	
FG1-MW6s	5/24/2019	9:58	13.10									1.53			
FG1-MW6s	5/24/2019	10:00		20.6	6.72	2.2	32	210	1,591		1.0		2		
FG1-MW6s	5/24/2019	10:04		20.5	6.64	1.9	29	218	1,446		0.5		4		
FG1-MW6s	5/24/2019	10:09		20.4	6.62	1.7	26	216	1,122		0.5		5.5		
FG1-MW6s	5/24/2019	10:13		20.5	6.51	1.6	26	215	918		0.5		7.5		
FG1-MW6s	5/24/2019	10:17	13.24	20.5	6.48	1.9	29	211	897	2	0.5		9.5	6.2	
FG1-MW6s	8/20/2019	14:29	19.29									0.5			
FG1-MW6s	8/20/2019	14:31		25.8	6.50	1.8	6	248	1,055		0.5		1		
FG1-MW6s	8/20/2019	14:33		24.9	6.48	0.7	4	236	1,039		0.5		2		
FG1-MW6s	8/20/2019	14:35		24.4	6.48	0.7	6	222	1,032		0.5		3		
FG1-MW6s	8/20/2019	14:37		24.3	6.49	0.5	6	212	1,035		0.5		4		
FG1-MW6s	8/20/2019	14:39	19.35	24.3	6.57	0.7	1	204	1,037	6	0.5		5	10	
FG1-MW6d	11/13/2019	10:24	18.22									3.66			

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
FG1-MW6d	11/13/2019	10:28		21.4	6.88	1.3	16	223	1,343		1.0		4		
FG1-MW6d	11/13/2019	10:32		21.6	6.39	1.2	15	223	1,320		1.0		8		
FG1-MW6d	11/13/2019	10:36		21.6	6.29	1.2	14	220	1,299		1.0		12		
FG1-MW6d	11/13/2019	10:40		21.6	6.26	1.2	14	216	1,286		1.0		16		
FG1-MW6d	11/13/2019	10:44	18.32	21.7	6.25	1.2	14	213	1,281	5	1.0		18	4.9	
FG1-MW7s	2/25/2019	10:15	16.68									1.73			
FG1-MW7s	2/25/2019	10:17		22.2	6.59	1.1	14	233	803		1.0		2		
FG1-MW7s	2/25/2019	10:19		22.3	6.36	0.8	10	226	789		1.0		4		
FG1-MW7s	2/25/2019	10:22		22.0	6.39	0.8	10	220	777		1.0		7		
FG1-MW7s	2/25/2019	10:24		22.4	6.35	0.8	9	226	788		1.0		9		
FG1-MW7s	2/25/2019	10:26	17.21	22.5	6.32	0.8	10	226	786	7	1.0		11	6.4	
FG1-MW7s	5/24/2019	10:36	14.15									2.28			
FG1-MW7s	5/24/2019	10:39		21.3	7.05	2.2	31	195	748		1.0		3		
FG1-MW7s	5/24/2019	10:42		21.4	6.71	2.1	29	196	745		1.0		6		
FG1-MW7s	5/24/2019	10:45		21.4	6.70	2.0	28	202	743		1.0		9		
FG1-MW7s	5/24/2019	10:50		21.5	6.74	2.1	29	206	744		0.5		11.5		
FG1-MW7s	5/24/2019	10:55	14.54	21.5	6.51	2.1	30	202	744	2	0.5		14	6.1	
FG1-MW7s	8/20/2019	14:00	18.53									1.4			
FG1-MW7s	8/20/2019	14:03		25.1	6.75	1.9	12	230	884		0.5		1.5		
FG1-MW7s	8/20/2019	14:06		24.0	6.61	1.6	14	221	880		0.5		3		
FG1-MW7s	8/20/2019	14:10		24.3	6.58	1.3	11	209	886		0.5		5		
FG1-MW7s	8/20/2019	14:13		24.1	6.61	1.3	11	199	888		0.5		6.5		
FG1-MW7s	8/20/2019	14:16	18.65	24.5	6.63	1.3	10	195	891	10	0.5		8	5.7	
FG1-MW7s	11/13/2019	10:55	17.58									1.58			
FG1-MW7s	11/13/2019	10:57		23.4	6.57	1.6	19	203	1,012		1.0		2		
FG1-MW7s	11/13/2019	10:59		23.5	6.44	1.6	19	203	984		1.0		4		
FG1-MW7s	11/13/2019	11:02		23.3	6.38	1.6	19	202	975		1.0		7		
FG1-MW7s	11/13/2019	11:04		23.4	6.38	1.5	19	199	973		1.0		9		
FG1-MW7s	11/13/2019	11:06	17.98	23.4	6.37	1.6	19	198	972	7	1.0		11	7	
FG1-MW8s	2/25/2019	9:50	7.68									2.37			
FG1-MW8s	2/25/2019	9:53		18.6	6.70	1.0	12	248	1,231		1.0		3		
FG1-MW8s	2/25/2019	9:56		19.0	6.35	0.9	10	240	1,225		1.0		6		
FG1-MW8s	2/25/2019	10:00		19.1	6.35	0.9	10	233	1,212		1.0		10		
FG1-MW8s	2/25/2019	10:03		19.2	6.35	0.9	10	226	1,207		1.0		13		
FG1-MW8s	2/25/2019	10:06	7.90	19.3	6.34	0.9	10	224	1,211	4	1.0		16	6.8	
FG1-MW8s	5/24/2019	11:05	7.58									2.39			
FG1-MW8s	5/24/2019	11:08		20.9	6.56	2.4	31	205	1,387		1.0		3		
FG1-MW8s	5/24/2019	11:11		20.4	6.46	2.6	36	204	1,391		1.0		6		
FG1-MW8s	5/24/2019	11:14		19.4	6.36	2.6	35	203	1,401		1.0		9		
FG1-MW8s	5/24/2019	11:19		19.3	6.37	2.6	36	201	1,401		0.5		11.5		
FG1-MW8s	5/24/2019	11:24	7.92	19.2	6.40	2.7	38	200	1,403	2	0.5		14	5.9	
FG1-MW8s	8/20/2019	13:30	17.77									1.5			
FG1-MW8s	8/20/2019	13:33		22.5	6.51	1.4	9	225	1,590		0.5		1.5		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
FG1-MW8s	8/20/2019	13:37		22.5	6.46	0.9	6	205	1,558		0.5		3.5		
FG1-MW8s	8/20/2019	13:40		22.2	6.46	0.8	6	201	1,547		0.5		5		
FG1-MW8s	8/20/2019	13:43		22.2	6.46	1.0	6	200	1,531		0.5		6.5		
FG1-MW8s	8/20/2019	13:46	17.82	22.4	6.44	0.8	6	198	1,525	3	0.5		8	5.3	
FG1-MW8s	11/13/2019	11:15	17.68									0.73			
FG1-MW8s	11/13/2019	11:17		24.3	6.43	2.0	25	200	1,379		0.5		1		
FG1-MW8s	11/13/2019	11:19		24.2	6.28	1.8	22	199	1,451		0.5		2		
FG1-MW8s	11/13/2019	11:22		24.3	6.29	1.2	15	198	1,463		0.5		3.5		
FG1-MW8s	11/13/2019	11:24		24.4	6.35	1.2	15	196	1,469		0.5		4.5		
FG1-MW8s	11/13/2019	11:26	17.75	24.4	6.29	1.4	18	195	1,469	7	0.5		5.5	7.5	
FG1-MW9d	2/25/2019	9:15	9.53									5.16			
FG1-MW9d	2/25/2019	9:21		17.3	6.92	2.0	21	262	542		1.0		6		
FG1-MW9d	2/25/2019	9:27		17.6	6.90	1.4	15	253	534		1.0		12		
FG1-MW9d	2/25/2019	9:33		17.6	6.92	1.2	13	248	535		1.0		18		
FG1-MW9d	2/25/2019	9:39		17.6	6.95	1.2	13	245	536		1.0		24		
FG1-MW9d	2/25/2019	9:45	9.75	17.7	6.94	1.2	12	243	535	3	1.0		30	5.8	
FG1-MW9d	5/24/2019	13:41	8.65									5.31			
FG1-MW9d	5/24/2019	13:47		19.1	8.05	2.1	33	84	1,472		1.0		6		
FG1-MW9d	5/24/2019	13:53		18.7	7.52	1.8	29	83	1,202		1.0		12		
FG1-MW9d	5/24/2019	13:59		18.6	7.47	1.7	28	88	984		1.0		18		
FG1-MW9d	5/24/2019	14:06		18.4	7.52	1.7	29	112	743		1.0		25		
FG1-MW9d	5/24/2019	14:12	8.80	18.1	7.40	1.5	27	119	640	3	1.0		31	5.8	3
FG1-MW9d	8/20/2019	14:55	17.08									3.9			
FG1-MW9d	8/20/2019	14:59		20.6	7.27	0.8	8	224	389		1.0		4		
FG1-MW9d	8/20/2019	15:03		19.7	7.12	0.7	11	209	392		1.0		8		
FG1-MW9d	8/20/2019	15:07		18.9	7.13	0.7	8	202	392		1.0		12		
FG1-MW9d	8/20/2019	15:11		18.8	7.14	0.6	8	199	394		1.0		16		
FG1-MW9d	8/20/2019	15:15	17.12	19.1	7.11	0.7	11	199	394	2	1.0		20	5.1	
FG1-MW9d	11/13/2019	11:38	16.90									3.96			
FG1-MW9d	11/13/2019	11:42		18.5	7.04	1.6	18	199	585		1.0		4		
FG1-MW9d	11/13/2019	11:46		18.6	6.95	1.6	18	201	504		1.0		8		
FG1-MW9d	11/13/2019	11:50		18.3	6.93	1.7	19	200	476		1.0		12		
FG1-MW9d	11/13/2019	11:54		18.3	6.94	1.7	19	199	469		1.0		16		
FG1-MW9d	11/13/2019	11:58	17.05	18.3	6.93	1.7	19	197	462	4	1.0		20	5.1	
BEA-MW1dd	2/25/2019	16:22	37.77									3.24			
BEA-MW1dd	2/25/2019	16:26		18.4	7.37	1.4	16	230	1,183		1.0		4		
BEA-MW1dd	2/25/2019	16:30		18.8	6.92	1.3	14	234	1,165		1.0		8		
BEA-MW1dd	2/25/2019	16:34		18.8	6.91	1.3	13	234	1,159		1.0		12		
BEA-MW1dd	2/25/2019	16:38		18.9	6.91	1.3	13	232	1,158		1.0		16		
BEA-MW1dd	2/25/2019	16:42	37.80	18.8	6.89	1.1	12	232	1,160	2	1.0		20	6.2	
BEA-MW1dd	5/23/2019	12:59	36.45									3.45			

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
BEA-MW1dd	5/23/2019	13:02		20.8	6.88	1.3	9	211	1,398		1.0		3		
BEA-MW1dd	5/23/2019	13:06		20.2	6.82	0.9	6	211	1,396		1.0		7		
BEA-MW1dd	5/23/2019	13:09		20.0	6.81	1.1	7	207	1,391		1.0		10		
BEA-MW1dd	5/23/2019	13:13		20.6	6.82	1.4	8	207	1,385		1.0		14		
BEA-MW1dd	5/23/2019	13:17	36.56	20.8	6.83	1.5	10	208	1,378	6	1.0		18	5.2	
BEA-MW1dd	8/23/2019	15:50	37.82									3.23			
BEA-MW1dd	8/23/2019	15:54		23.1	7.44	1.8	22	183	1,092		1.0		4		
BEA-MW1dd	8/23/2019	15:58		21.0	7.20	1.5	19	168	1,077		1.0		8		
BEA-MW1dd	8/23/2019	16:01		20.9	7.05	0.7	14	157	1,074		1.0		11		
BEA-MW1dd	8/23/2019	16:05		20.7	7.03	0.8	14	150	1,080		1.0		15		
BEA-MW1dd	8/23/2019	16:08	37.92	21.1	7.01	1.2	17	144	1,077	8	1.0		18	5.6	
BEA-MW1dd	11/13/2019	10:13	38.77									3.08			
BEA-MW1dd	11/13/2019	10:16		19.3	7.64	1.7	30	198	1,534		1.0		3		
BEA-MW1dd	11/13/2019	10:19		19.4	7.30	1.6	27	151	1,481		1.0		6		
BEA-MW1dd	11/13/2019	10:22		19.4	7.28	1.2	23	136	1,474		1.0		9		
BEA-MW1dd	11/13/2019	10:25		19.5	7.29	1.1	22	130	1,476		1.0		12		
BEA-MW1dd	11/13/2019	10:28	38.93	19.6	7.28	1.7	28	128	1,480	6	1.0		15	4.9	
BEA-MW2dd	2/25/2019	17:28	37.90									2.79			
BEA-MW2dd	2/25/2019	17:31		18.8	7.87	3.2	35	196	724		1.0		3		
BEA-MW2dd	2/25/2019	17:34		19.2	7.73	3.1	34	199	720		1.0		6		
BEA-MW2dd	2/25/2019	17:38		19.0	7.69	2.8	31	202	727		1.0		10		
BEA-MW2dd	2/25/2019	17:41		19.1	7.72	2.7	30	203	717		1.0		13		
BEA-MW2dd	2/25/2019	17:44	37.91	19.1	7.70	2.7	30	205	719	2	1.0		16	5.7	
BEA-MW2dd	5/23/2019	11:42	38.52									2.68			
BEA-MW2dd	5/23/2019	11:45		20.5	7.84	3.1	34	174	939		1.0		3		
BEA-MW2dd	5/23/2019	11:48		20.1	7.66	3.2	38	182	821		1.0		6		
BEA-MW2dd	5/23/2019	11:51		20.1	7.64	3.1	36	182	811		1.0		9		
BEA-MW2dd	5/23/2019	11:54		20.1	7.65	3.2	37	186	797		1.0		12		
BEA-MW2dd	5/23/2019	11:57	38.58	20.0	7.65	3.3	41	186	792	3	1.0		15	5.6	
BEA-MW2dd	8/23/2019	17:04	40.82									2.31			
BEA-MW2dd	8/23/2019	17:06		22.0	7.86	2.4	27	114	850		1.0		2		
BEA-MW2dd	8/23/2019	17:09		21.8	7.80	2.3	26	110	770		1.0		5		
BEA-MW2dd	8/23/2019	17:11		21.7	7.80	2.2	25	110	768		1.0		7		
BEA-MW2dd	8/23/2019	17:14		21.8	7.79	2.1	25	109	764		1.0		10		
BEA-MW2dd	8/23/2019	17:16	40.89	21.7	7.79	2.2	25	108	762	6	1.0		12	5.2	
BEA-MW2dd	11/13/2019	8:52	38.62									2.67			
BEA-MW2dd	11/13/2019	8:55		18.5	7.58	3.5	52	169	973		1.0		3		
BEA-MW2dd	11/13/2019	8:58		18.5	8.18	2.9	43	168	761		1.0		6		
BEA-MW2dd	11/13/2019	9:01		19.3	8.24	1.8	32	172	712		1.0		9		
BEA-MW2dd	11/13/2019	9:04		19.2	8.39	3.0	45	178	703		1.0		12		
BEA-MW2dd	11/13/2019	9:06	38.68	18.5	8.46	2.1	34	172	709	2	1.0		14	5.2	
BEA-MW3d	2/25/2019	16:48	35.41									0.79			
BEA-MW3d	2/25/2019	16:50		18.7	7.22	4.5	48	231	3,727		0.5		1		

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Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
BEA-MW3d	2/25/2019	16:52		19.4	7.15	4.3	47	228	3,772		0.5		2		
BEA-MW3d	2/25/2019	16:55		19.5	7.11	4.0	44	228	3,765		0.5		3.5		
BEA-MW3d	2/25/2019	16:57		19.6	7.10	4.0	43	229	3,761		0.5		4.5		
BEA-MW3d	2/25/2019	16:59	36.30	19.5	7.11	4.0	43	229	3,764	5	0.5		5.5	7	
BEA-MW3d	5/23/2019	12:33	33.86									1.05			
BEA-MW3d	5/23/2019	12:35		21.1	7.11	3.5	42	196	3,814		0.5		1		
BEA-MW3d	5/23/2019	12:39		20.7	7.07	3.7	45	197	3,910		0.5		3		
BEA-MW3d	5/23/2019	12:41		20.7	7.06	3.7	44	194	3,918		0.5		4		
BEA-MW3d	5/23/2019	12:43		20.7	7.07	3.6	43	196	3,922		0.5		5		
BEA-MW3d	5/23/2019	12:45	34.20	20.7	7.07	3.5	41	196	3,925	10	0.5		6	5.7	
BEA-MW3d	8/23/2019	16:19	35.25									0.82			
BEA-MW3d	8/23/2019	16:21		22.4	7.31	3.7	43	145	3,839		0.5		1		
BEA-MW3d	8/23/2019	16:23		21.9	7.30	3.8	42	143	3,862		0.5		2		
BEA-MW3d	8/23/2019	16:25		21.5	7.29	3.8	42	139	3,890		0.5		3		
BEA-MW3d	8/23/2019	16:27		21.4	7.26	3.7	43	136	3,874		0.5		4		
BEA-MW3d	8/23/2019	16:29	35.58	21.5	7.26	3.2	39	135	3,890	8	0.5		5	6.1	
BEA-MW3d	11/13/2019	9:44	36.72									0.58			
BEA-MW3d	11/13/2019	9:46		19.6	7.81	2.9	42	181	3,799		0.25		0.5		
BEA-MW3d	11/13/2019	9:48		19.6	7.74	3.2	44	169	3,782		0.25		1		
BEA-MW3d	11/13/2019	9:50		19.7	7.73	2.6	38	167	3,807		0.25		1.5		
BEA-MW3d	11/13/2019	9:52		19.7	7.73	3.2	41	164	3,806		0.25		2		
BEA-MW3d	11/13/2019	9:56	37.00	19.6	7.72	3.7	49	163	3,806	6	0.25		3	5.2	
BEA-MW4d	2/25/2019	17:06	40.35									2.63			
BEA-MW4d	2/25/2019	17:09		18.9	8.18	1.5	16	202	1,033		1.0		3		
BEA-MW4d	2/25/2019	17:12		19.7	7.71	1.2	13	207	920		1.0		6		
BEA-MW4d	2/25/2019	17:16		19.6	7.66	1.4	15	208	915		1.0		10		
BEA-MW4d	2/25/2019	17:19		19.6	7.65	1.2	14	209	915		1.0		13		
BEA-MW4d	2/25/2019	17:22	41.42	19.6	7.62	1.2	13	209	921	18	1.0		16	6.1	
BEA-MW4d	5/23/2019	12:10	39.72									2.73			
BEA-MW4d	5/23/2019	12:13		20.9	7.56	2.5	31	177	1,021		1.0		3		
BEA-MW4d	5/23/2019	12:16		20.6	7.47	1.3	18	172	1,050		1.0		6		
BEA-MW4d	5/23/2019	12:19		20.7	7.47	1.2	16	171	1,045		1.0		9		
BEA-MW4d	5/23/2019	12:22		20.7	7.46	1.0	15	168	1,042		1.0		12		
BEA-MW4d	5/23/2019	12:25	40.30	20.7	7.45	1.0	14	167	1,039	16	1.0		15	5.5	
BEA-MW4d	8/23/2019	16:40	43.56									2.11			
BEA-MW4d	8/23/2019	16:42		22.6	7.49	1.4	12	126	1,386		1.0		2		
BEA-MW4d	8/23/2019	16:45		21.6	7.40	1.2	10	124	1,324		1.0		5		
BEA-MW4d	8/23/2019	16:47		21.5	7.37	1.1	10	122	1,322		1.0		7		
BEA-MW4d	8/23/2019	16:49		21.5	7.37	1.2	11	123	1,315		1.0		9		
BEA-MW4d	8/23/2019	16:51	43.60	21.7	7.37	1.0	10	123	1,317	7	1.0		11	5.2	
BEA-MW4d	11/13/2019	9:19	41.37									2.46			
BEA-MW4d	11/13/2019	9:22		19.7	8.04	1.5	30	174	1,350		1.0		3		
BEA-MW4d	11/13/2019	9:25		19.9	7.88	0.9	23	150	1,312		1.0		6		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
BEA-MW4d	11/13/2019	9:28		20.0	7.87	1.3	25	142	1,317		1.0		9		
BEA-MW4d	11/13/2019	9:30		20.1	7.86	1.1	23	136	1,317		1.0		11		
BEA-MW4d	11/13/2019	9:32	41.40	20.0	7.90	1.6	28	140	1,315	6	1.0		13	5.3	
COT-MW1d	3/1/2019	10:58	47.48									0.79			
COT-MW1d	3/1/2019	11:00		18.1	7.31	5.9	62	243	1,957		0.5		1		
COT-MW1d	3/1/2019	11:02		18.2	7.21	5.9	62	243	1,960		0.5		2		
COT-MW1d	3/1/2019	11:05		18.1	7.20	5.7	61	244	1,955		0.5		3.5		
COT-MW1d	3/1/2019	11:07		18.1	7.19	5.7	61	244	1,958		0.5		4.5		
COT-MW1d	3/1/2019	11:09	49.28	18.0	7.20	5.7	61	243	1,950	30	0.5		5.5	7	
COT-MW1d	5/24/2019	13:34	48.85									0.56			
COT-MW1d	5/24/2019	13:36		20.7	7.21	3.9	47	233	1,982		0.25		0.5		
COT-MW1d	5/24/2019	13:38		20.3	7.17	3.8	45	229	1,971	160	0.25		1	1.8	D
COT-MW7	3/1/2019	10:00	22.40									0.43			
COT-MW7	3/1/2019	10:02		21.2	7.15	2.1	24	248	2,283		0.25		0.5		
COT-MW7	3/1/2019	10:04	24.90	21.6	6.96	2.1	23	248	2,329	11	0.25		1	2.3	
COT-MW9	3/1/2019	9:42	19.72									1.52			
COT-MW9	3/1/2019	9:44		20.2	7.14	1.9	22	240	2,058		1.0		2		
COT-MW9	3/1/2019	9:46		20.6	6.89	1.9	22	237	2,074		1.0		4		
COT-MW9	3/1/2019	9:49		20.6	6.86	1.9	22	232	2,056		1.0		7		
COT-MW9	3/1/2019	9:51		20.7	6.86	1.7	19	229	2,038		1.0		9		
COT-MW9	3/1/2019	9:53	22.73	20.7	6.85	1.7	19	229	2,017	4	1.0		11	7.2	
COT-MW9	5/24/2019	11:02	20.25									1.43			
COT-MW9	5/24/2019	11:05		19.6	7.20	3.8	41	199	1,980		0.5		1.5		
COT-MW9	5/24/2019	11:08		19.2	7.04	3.2	36	205	1,980		0.5		3		
COT-MW9	5/24/2019	11:12		19.1	7.03	3.4	41	205	1,978		0.5		4.5		
COT-MW9	5/24/2019	11:14		18.9	7.05	3.6	43	206	1,980		0.5		5		
COT-MW9	5/24/2019	11:18	21.35	19.2	7.02	3.4	41	206	1,978	26	0.5		7	4.9	
COT-MW9	8/23/2019	11:56	22.10									1.12			
COT-MW9	8/23/2019	11:58		21.9	7.44	2.9	36	124	1,876		0.5		1		
COT-MW9	8/23/2019	12:00	27.00	22.4	7.23	2.6	30	127	1,859	15	0.5		2	1.8	D
COT-MW9	11/13/2019	14:34	23.98									0.82			
COT-MW9	11/13/2019	14:36		21.8	7.76	1.5	23	192	1,750		0.5		1		
COT-MW9	11/13/2019	14:38	28.79	21.9	7.77	1.4	20	195	1,753	29	0.5		2	2.4	D
COT-MW10	3/1/2019	9:20	8.21									2.54			
COT-MW10	3/1/2019	9:23		18.2	7.00	5.1	54	239	2,221		1.0		3		
COT-MW10	3/1/2019	9:26		18.4	7.12	4.3	45	232	2,158		1.0		6		
COT-MW10	3/1/2019	9:30		18.5	7.10	3.5	38	231	2,140		1.0		10		
COT-MW10	3/1/2019	9:33		18.5	7.10	3.1	34	230	2,130		1.0		13		
COT-MW10	3/1/2019	9:36	11.24	18.6	7.11	3.1	33	229	2,122	1	1.0		16	6.3	
COT-MW10	5/24/2019	11:28	10.35									2.18			

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
COT-MW10	5/24/2019	11:30		19.8	7.22	2.3	27	213	2,069		1.0		2		
COT-MW10	5/24/2019	11:33		19.7	7.19	1.5	18	211	2,062		1.0		5		
COT-MW10	5/24/2019	11:35		19.2	7.19	1.5	20	209	2,064		1.0		7		
COT-MW10	5/24/2019	11:37		19.0	7.18	1.6	22	208	2,061		1.0		9		
COT-MW10	5/24/2019	11:39	12.59	19.0	7.19	1.5	20	204	2,048	16	1.0		11	5	
COT-MW10	8/23/2019	11:34	12.47									1.84			
COT-MW10	8/23/2019	11:36		25.0	7.58	3.3	40	127	1,715		1.0		2		
COT-MW10	8/23/2019	11:38		24.7	7.40	1.3	17	121	1,736		1.0		4		
COT-MW10	8/23/2019	11:40		24.1	7.37	1.5	19	120	1,741		1.0		6		
COT-MW10	8/23/2019	11:42		24.1	7.36	1.4	16	118	1,745		1.0		8		
COT-MW10	8/23/2019	11:44	13.83	24.2	7.35	1.3	11	114	1,747	14	1.0		10	5.4	
COT-MW10	11/13/2019	14:09	14.58									1.49			
COT-MW10	11/13/2019	14:11		22.6	7.97	0.9	17	190	1,700		1.0		2		
COT-MW10	11/13/2019	14:13		22.5	7.76	2.5	34	184	1,699		1.0		4		
COT-MW10	11/13/2019	14:15		22.5	7.75	2.2	30	179	1,700		1.0		6		
COT-MW10	11/13/2019	14:17		22.5	7.73	1.3	20	175	1,700		1.0		8		
COT-MW10	11/13/2019	14:18	16.75	22.5	7.73	0.5	12	172	1,700	3	1.0		9	6	
COT-MW11d	3/1/2019	10:40	36.62									0.72			
COT-MW11d	3/1/2019	10:42		20.3	7.27	3.1	35	235	672		0.5		1		
COT-MW11d	3/1/2019	10:44		20.7	6.92	2.5	29	238	589		0.5		2		
COT-MW11d	3/1/2019	10:47		20.7	6.88	2.5	29	234	579		0.5		3.5		
COT-MW11d	3/1/2019	10:49		20.7	6.89	2.4	27	231	576		0.5		4.5		
COT-MW11d	3/1/2019	10:51	36.65	20.8	6.89	2.4	27	231	576	3	0.5		5.5	7.6	
COT-MW11d	5/24/2019	13:00	36.37									0.76			
COT-MW11d	5/24/2019	13:04		20.3	7.14	2.6	28	225	684		0.25		1		
COT-MW11d	5/24/2019	13:06		20.4	7.11	2.4	25	227	682		0.25		1.5		
COT-MW11d	5/24/2019	13:08		20.4	7.09	2.0	22	231	677		0.25		2		
COT-MW11d	5/24/2019	13:12		20.4	7.09	1.9	16	232	674		0.25		3		
COT-MW11d	5/24/2019	13:16	36.55	20.4	7.07	1.9	15	234	670	12	0.25		4	5.3	
COT-MW11d	8/23/2019	10:03	36.98									0.66			
COT-MW11d	8/23/2019	10:06		23.2	7.90	2.7	31	94	553				1		
COT-MW11d	8/23/2019	10:09	40.70	20.8	7.68	2.8	33	104	463	13			2	3	1-3 D
COT-MW11d	11/13/2019	12:13	37.49									0.58			
COT-MW11d	11/13/2019	12:15		20.7	8.20	0.9	15	160	425		0.25		0.5		
COT-MW11d	11/13/2019	12:17		19.9	7.87	0.9	14	145	423		0.25		1		
COT-MW11d	11/13/2019	12:19		21.0	7.91	0.8	11	149	429		0.25		1.5		
COT-MW11d	11/13/2019	12:21		21.0	7.96	0.7	9	154	431		0.25		2		
COT-MW11d	11/13/2019	12:25		21.1	8.08	0.6	6	160	436	4	0.25		3	5.2	
COT-MW12d	3/1/2019	11:15	36.15									2.35			
COT-MW12d	3/1/2019	11:18		19.8	7.31	2.2	24	247	1,640		1.0		3		
COT-MW12d	3/1/2019	11:21		20.1	6.84	1.4	16	244	1,626		1.0		6		
COT-MW12d	3/1/2019	11:25		20.3	6.83	1.3	15	238	1,623		1.0		10		
COT-MW12d	3/1/2019	11:28		20.3	6.82	1.4	16	237	1,622		1.0		13		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
COT-MW12d	3/1/2019	11:31	36.20	20.2	6.84	1.4	16	234	1,622	15	1.0		16	6.8	
COT-MW12d	5/24/2019	12:38	36.10									2.35			
COT-MW12d	5/24/2019	12:40		21.8	7.00	2.8	34	222	1,671		1.0		2		
COT-MW12d	5/24/2019	12:43		21.8	6.99	2.6	28	224	1,668		1.0		5		
COT-MW12d	5/24/2019	12:45		21.9	6.97	2.5	26	229	1,663		1.0		7		
COT-MW12d	5/24/2019	12:48		21.7	6.97	2.9	34	225	1,660		1.0		10		
COT-MW12d	5/24/2019	12:50	36.37	21.7	6.96	2.8	32	223	1,658	26	1.0		12	5.1	
COT-MW12d	8/23/2019	10:15	36.59									2.27			
COT-MW12d	8/23/2019	10:17		23.6	7.22	3.6	42	123	1,629		1.0		2		
COT-MW12d	8/23/2019	10:30		23.5	7.22	3.2	37	117	1,606		1.0		5		
COT-MW12d	8/23/2019	10:33		23.3	7.21	2.6	29	114	1,607		1.0		8		
COT-MW12d	8/23/2019	10:35		23.1	7.19	1.3	15	110	1,609		1.0		10		
COT-MW12d	8/23/2019	10:37	36.70	22.9	7.17	1.3	15	108	1,612	30	1.0		12	5.3	
COT-MW12d	11/13/2019	13:08	37.18									2.17			
COT-MW12d	11/13/2019	13:10		22.0	7.51	3.0	38	187	1,610		1.0		2		
COT-MW12d	11/13/2019	13:13		21.5	7.48	1.7	23	184	1,629		1.0		5		
COT-MW12d	11/13/2019	13:15		21.4	7.48	1.5	22	181	1,630		1.0		7		
COT-MW12d	11/13/2019	13:17		21.4	7.45	1.3	20	178	1,626		1.0		9		
COT-MW12d	11/13/2019	13:19	37.52	21.5	7.44	1.8	25	176	1,622	4	1.0		11	5.1	
COT-MW13d	3/1/2019	11:40	37.28									2			
COT-MW13d	3/1/2019	11:42		19.7	6.88	1.6	18	237	1,532		1.0		2		
COT-MW13d	3/1/2019	11:44		20.0	6.76	1.6	19	236	1,528		1.0		4		
COT-MW13d	3/1/2019	11:47		20.0	6.75	1.5	17	235	1,523		1.0		7		
COT-MW13d	3/1/2019	11:49		20.1	6.75	1.4	14	234	1,524		1.0		9		
COT-MW13d	3/1/2019	11:51	37.28	20.2	6.78	1.4	15	233	1,523	4	1.0		11	5.5	
COT-MW13d	5/24/2019	12:12	37.37									2.07			
COT-MW13d	5/24/2019	12:16		21.2	6.88	1.7	16	224	1,512		0.5		2		
COT-MW13d	5/24/2019	12:20		21.2	6.86	1.8	17	224	1,512		0.5		4		
COT-MW13d	5/24/2019	12:24		21.3	6.86	1.6	17	224	1,509		0.5		6		
COT-MW13d	5/24/2019	12:28		21.4	6.87	1.4	14	226	1,506		0.5		8		
COT-MW13d	5/24/2019	13:33	37.79	21.3	6.84	1.7	20	224	1,511	10	0.5		11	5.3	
COT-MW13d	8/23/2019	10:51	37.90									1.98			
COT-MW13d	8/23/2019	10:55		22.8	7.23	2.5	33	132	1,422		0.5		2		
COT-MW13d	8/23/2019	10:59		22.6	7.11	2.0	25	131	1,423		0.5		4		
COT-MW13d	8/23/2019	11:03		22.4	7.06	1.9	22	129	1,423		0.5		6		
COT-MW13d	8/23/2019	11:07		22.3	7.05	1.2	9	126	1,423		0.5		8		
COT-MW13d	8/23/2019	11:11	37.95	22.2	7.07	1.4	12	129	1,428	20	0.5		10	5.1	
COT-MW13d	11/13/2019	13:27	38.50									1.89			
COT-MW13d	11/13/2019	13:29		21.0	7.50	1.1	19	180	1,439		1.0		2		
COT-MW13d	11/13/2019	13:31		20.9	7.33	1.2	21	167	1,439		1.0		4		
COT-MW13d	11/13/2019	13:33		20.9	7.30	0.5	13	163	1,438		1.0		6		
COT-MW13d	11/13/2019	13:35		21.0	7.30	1.4	23	161	1,439		1.0		8		
COT-MW13d	11/13/2019	13:37	38.58	21.0	7.31	1.5	24	158	1,438	4	1.0		10	5.3	

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Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
COT-MW14d	3/1/2019	10:15	38.12									2.22			
COT-MW14d	3/1/2019	10:18		19.8	7.15	1.3	14	252	2,437		1.0		3		
COT-MW14d	3/1/2019	10:21		19.8	6.90	1.3	15	248	2,425		1.0		6		
COT-MW14d	3/1/2019	10:25		19.9	6.91	1.4	16	243	2,427		1.0		10		
COT-MW14d	3/1/2019	10:28		20.0	6.90	1.4	16	241	2,429		1.0		13		
COT-MW14d	3/1/2019	10:31	38.15	20.0	6.93	1.3	15	240	2,428	3	1.0		16	7.2	
COT-MW14d	5/24/2019	11:50	38.33									2.18			
COT-MW14d	5/24/2019	11:52		21.5	7.05	2.2	25	224	2,411		1.0		2		
COT-MW14d	5/24/2019	11:55		20.9	6.97	1.7	19	227	2,420		1.0		5		
COT-MW14d	5/24/2019	11:57		20.9	6.94	1.6	18	226	2,418		1.0		7		
COT-MW14d	5/24/2019	11:59		20.9	6.95	1.8	20	225	2,416		1.0		9		
COT-MW14d	5/24/2019	12:01	38.77	20.9	6.99	2.0	22	221	2,411	10	1.0		11	5	
COT-MW14d	8/23/2019	9:37	38.75									2.11			
COT-MW14d	8/23/2019	9:39		21.6	7.11	2.7	33	123	2,321		1.0		2		
COT-MW14d	8/23/2019	9:41		21.4	7.09	1.9	26	120	2,314		1.0		4		
COT-MW14d	8/23/2019	9:43		21.0	6.98	2.2	29	121	2,303		1.0		6		
COT-MW14d	8/23/2019	9:46		21.0	7.00	2.3	30	119	2,298		1.0		9		
COT-MW14d	8/23/2019	9:48	38.91	20.9	6.99	1.9	24	115	2,299	2	1.0		11	5.2	
COT-MW14d	11/13/2019	11:45	39.28									2			
COT-MW14d	11/13/2019	11:47		20.4	8.03	1.4	21	176	2,323		1.0		2		
COT-MW14d	11/13/2019	11:49		20.7	7.43	1.8	25	156	2,287		1.0		4		
COT-MW14d	11/13/2019	11:51		21.0	7.42	0.6	8	148	2,277		1.0		6		
COT-MW14d	11/13/2019	11:53		21.1	7.45	0.7	10	144	2,278		1.0		8		
COT-MW14d	11/13/2019	11:55	39.33	21.3	7.47	0.9	11	138	2,278	4	1.0		10	5	
SAN-MW1d	3/1/2019	13:45	38.46									1.09			
SAN-MW1d	3/1/2019	13:47		18.7	7.42	2.5	28	247	2,308		0.5		1		
SAN-MW1d	3/1/2019	13:49		18.8	7.22	2.0	23	247	2,343		0.5		2		
SAN-MW1d	3/1/2019	13:52		19.0	7.20	1.8	20	246	2,394		0.5		3.5		
SAN-MW1d	3/1/2019	13:54		19.0	7.20	1.8	19	246	2,406		0.5		4.5		
SAN-MW1d	3/1/2019	13:56	38.65	19.0	7.20	1.6	18	245	2,406	12	0.5		5.5	5	
SAN-MW1d	5/23/2019	15:43	38.45									1.1			
SAN-MW1d	5/23/2019	15:45		20.3	7.25	2.8	36	209	2,389		0.5		1		
SAN-MW1d	5/23/2019	15:47		19.9	7.24	2.8	35	207	2,386		0.5		2		
SAN-MW1d	5/23/2019	15:51		19.9	7.24	2.7	33	206	2,385		0.5		4		
SAN-MW1d	5/23/2019	15:53		19.9	7.23	2.6	33	201	2,382		0.5		5		
SAN-MW1d	5/23/2019	15:55	38.81	19.9	7.23	2.4	30	199	2,380	4	0.5		6	5.5	
SAN-MW1d	8/23/2019	14:04	39.76									0.88			
SAN-MW1d	8/23/2019	14:08		24.6	7.56	1.0	19	131	2,349		0.25		1		
SAN-MW1d	8/23/2019	14:12		23.0	7.51	1.0	19	125	2,337		0.25		2		
SAN-MW1d	8/23/2019	14:16		23.0	7.50	0.8	18	121	2,355		0.25		3		
SAN-MW1d	8/23/2019	14:20		23.0	7.49	0.9	20	117	2,371		0.25		4		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
SAN-MW1d	8/23/2019	14:24	39.85	23.1	7.48	1.1	23	112	2,284	24	0.25		5	5.7	
SAN-MW1d	11/14/2019	13:54	40.71									0.73			
SAN-MW1d	11/14/2019	13:56		20.1	7.60	2.3	32	177	2,231		0.5		1		
SAN-MW1d	11/14/2019	13:58		19.9	7.47	3.8	50	160	2,223		0.5		2		
SAN-MW1d	11/14/2019	14:00		19.8	7.45	2.1	32	148	2,215		0.5		3		
SAN-MW1d	11/14/2019	14:02		19.7	7.45	2.4	36	139	2,204		0.5		4		
SAN-MW1d	11/14/2019	14:04	40.82	19.7	7.45	2.0	31	132	2,189	5	0.5		5	6.8	
SAN-MW4d	3/1/2019	14:10	41.76									2.18			
SAN-MW4d	3/1/2019	14:13		19.2	7.14	2.5	26	257	1,739		1.0		3		
SAN-MW4d	3/1/2019	14:16		19.2	6.87	1.7	19	256	1,695		1.0		6		
SAN-MW4d	3/1/2019	14:20		19.3	6.87	1.1	13	252	1,700		1.0		10		
SAN-MW4d	3/1/2019	14:23		19.3	6.87	1.1	12	249	1,715		1.0		13		
SAN-MW4d	3/1/2019	14:26	49.70	19.2	6.89	1.0	12	247	1,733	8	1.0		16	7.3	
SAN-MW4d	5/23/2019	14:30	41.90									2.15			
SAN-MW4d	5/23/2019	14:34		20.8	7.26	2.6	29	176	1,552		0.5		2		
SAN-MW4d	5/23/2019	14:38		20.4	6.91	1.3	16	191	1,563		0.5		4		
SAN-MW4d	5/23/2019	14:43		20.2	6.93	1.5	19	193	1,573		0.5		7		
SAN-MW4d	5/23/2019	14:47		20.2	6.92	1.4	18	197	1,578		0.5		9		
SAN-MW4d	5/23/2019	14:51	43.92	20.3	6.93	1.5	20	196	1,575	8	0.5		11	5.1	
SAN-MW4d	8/23/2019	14:58	45.19									1.61			
SAN-MW4d	8/23/2019	15:02		23.1	7.37	1.7	23	131	1,541		0.5		2		
SAN-MW4d	8/23/2019	15:06		22.6	7.13	1.2	12	127	1,528		0.5		4		
SAN-MW4d	8/23/2019	15:10		22.3	7.13	1.3	10	126	1,537		0.5		6		
SAN-MW4d	8/23/2019	15:14		22.3	7.10	0.7	6	125	1,539		0.5		8		
SAN-MW4d	8/23/2019	15:16	47.32	22.3	7.12	1.4	16	125	1,558	19	0.5		9	5.6	
SAN-MW4d	11/14/2019	14:43	44.73									1.69			
SAN-MW4d	11/14/2019	14:47		19.5	7.44	0.7	19	188	1,531		0.5		2		
SAN-MW4d	11/14/2019	14:51		19.5	7.42	2.1	32	186	1,529		0.5		4		
SAN-MW4d	11/14/2019	14:55		19.6	7.40	2.8	35	185	1,525		0.5		6		
SAN-MW4d	11/14/2019	14:59		19.7	7.37	2.9	38	184	1,524		0.5		8		
SAN-MW4d	11/14/2019	15:03	47.17	19.8	7.32	3.0	41	184	1,523	5	0.5		12	7.1	
SAN-MW5d	3/1/2019	12:10	45.85									1.19			
SAN-MW5d	3/1/2019	12:12		18.8	7.54	6.5	72	247	1,877		1.0		2		
SAN-MW5d	3/1/2019	12:14		19.0	7.25	5.9	65	246	1,881		1.0		4		
SAN-MW5d	3/1/2019	12:17		19.0	7.25	5.9	64	244	1,879		1.0		7		
SAN-MW5d	3/1/2019	12:19		19.0	7.29	5.9	64	241	1,828		1.0		9		
SAN-MW5d	3/1/2019	12:21	51.30	19.0	7.33	5.8	64	240	1,786	8	1.0		11	9.2	
SAN-MW5d	5/23/2019	15:10	46.68									1.06			
SAN-MW5d	5/23/2019	15:12		19.9	7.40	5.1	61	204	1,534		0.5		1		
SAN-MW5d	5/23/2019	15:16		19.7	7.34	5.3	62	202	1,522		0.5		3		
SAN-MW5d	5/23/2019	15:18		19.6	7.35	5.0	60	201	1,521		0.5		4		
SAN-MW5d	5/23/2019	15:20		19.5	7.35	5.3	63	200	1,524		0.5		5		
SAN-MW5d	5/23/2019	15:22	47.79	19.6	7.34	4.8	57	197	1,525		0.5		6	5.7	

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
SAN-MW5d	8/23/2019	14:38	50.33									0.46			
SAN-MW5d	8/23/2019	14:40		23.4	7.85	4.5	46	118	1,500		0.25		0.5		
SAN-MW5d	8/23/2019	14:42	52.50	22.8	7.70	4.6	50	111	1,486	22	0.25		1	2.2	D
SAN-MW5d	11/14/2019	14:14	52.42									0.49			
SAN-MW5d	11/14/2019	14:16		19.9	7.91	3.4	45	170	1,580		0.25		0.5		
SAN-MW5d	11/14/2019	14:18		19.6	7.84	7.1	81	168	1,550		0.25		1		
SAN-MW5d	11/14/2019	14:20		19.6	7.84	5.5	66	167	1,548		0.25		1.5		
SAN-MW5d	11/14/2019	14:22		19.5	7.85	6.6	72	166	1,547		0.25		2		
SAN-MW5d	11/14/2019	14:24	53.68	19.5	7.85	9.9	113	166	1,547	5	0.25		2.5	5.1	
SAN-MW6d	3/1/2019	12:30	25.80									3.29			
SAN-MW6d	3/1/2019	12:34		20.5	7.33	2.0	23	249	2,023		1.0		4		
SAN-MW6d	3/1/2019	12:38		20.7	7.06	2.0	22	246	2,055		1.0		8		
SAN-MW6d	3/1/2019	12:42		20.8	7.06	2.0	23	241	2,075		1.0		12		
SAN-MW6d	3/1/2019	12:46		20.8	7.05	2.0	23	239	2,080		1.0		16		
SAN-MW6d	3/1/2019	12:50	26.40	20.8	7.06	2.0	23	237	2,080	2	1.0		20	6.1	
SAN-MW6d	5/23/2019	17:00	25.55									3.33			
SAN-MW6d	5/23/2019	17:04		20.5	7.19	4.5	55	205	2,087		1.0		4		
SAN-MW6d	5/23/2019	17:08		20.4	7.19	4.5	55	205	2,071		1.0		8		
SAN-MW6d	5/23/2019	17:12		20.4	7.20	4.6	55	204	2,055		1.0		12		
SAN-MW6d	5/23/2019	17:15		20.2	7.21	4.6	55	204	2,038		1.0		15		
SAN-MW6d	5/23/2019	17:18	25.99	20.0	7.21	4.6	55	204	2,020	28	1.0		18	5.4	
SAN-MW6d	8/23/2019	12:28	28.85									2.79			
SAN-MW6d	8/23/2019	12:31		22.2	7.52	3.1	42	128	1,876		1.0		3		
SAN-MW6d	8/23/2019	12:34		21.2	7.39	1.7	13	120	1,885		1.0		6		
SAN-MW6d	8/23/2019	12:37		20.9	7.39	2.2	26	120	1,894		1.0		9		
SAN-MW6d	8/23/2019	12:40		20.6	7.33	2.6	29	119	1,877		1.0		12		
SAN-MW6d	8/23/2019	12:43	29.23	21.1	7.33	2.5	28	118	1,893	50	1.0		15	5.4	
SAN-MW6d	11/14/2019	12:39	29.93									2.62			
SAN-MW6d	11/14/2019	12:42		20.5	8.42	4.6	57	159	1,904		1.0		3		
SAN-MW6d	11/14/2019	12:44		20.0	7.85	4.4	55	140	1,894		1.0		5		
SAN-MW6d	11/14/2019	12:47		20.0	7.60	3.9	51	140	1,893		1.0		8		
SAN-MW6d	11/14/2019	12:49		19.9	7.51	3.6	48	138	1,894		1.0		10		
SAN-MW6d	11/14/2019	12:52	30.18	20.0	7.48	3.8	50	140	1,895	28	1.0		13	5	
SAN-MW7d	3/1/2019	13:00	28.42									3.94			
SAN-MW7d	3/1/2019	13:04		18.6	7.24	2.6	30	244	1,522		1.0		4		
SAN-MW7d	3/1/2019	13:08		18.5	6.91	2.6	30	238	1,489		1.0		8		
SAN-MW7d	3/1/2019	13:12		18.4	6.92	2.6	31	236	1,482		1.0		12		
SAN-MW7d	3/1/2019	13:16		18.5	6.91	3.1	33	236	1,483		1.0		16		
SAN-MW7d	3/1/2019	13:20	28.44	18.4	6.93	3.0	33	236	1,476	89	1.0		20	5.1	
SAN-MW7d	5/23/2019	16:30	27.32									4.12			
SAN-MW7d	5/23/2019	16:34		19.5	7.02	2.9	36	204	1,598		1.0		4		
SAN-MW7d	5/23/2019	16:38		19.3	6.97	3.4	38	204	1,605		1.0		8		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
SAN-MW7d	5/23/2019	16:42		19.4	6.97	3.2	39	198	1,604		1.0		12		
SAN-MW7d	5/23/2019	16:47		19.8	6.99	3.0	34	192	1,598		1.0		17		
SAN-MW7d	5/23/2019	16:51	27.47	19.8	6.99	3.3	39	192	1,600	46	1.0		21	5.1	
SAN-MW7d	8/23/2019	12:58	32.55									3.27			
SAN-MW7d	8/23/2019	13:01		22.1	7.26	2.0	17	130	1,610		1.0		3		
SAN-MW7d	8/23/2019	13:04		20.7	7.14	2.5	22	131	1,620		1.0		6		
SAN-MW7d	8/23/2019	13:08		20.5	7.13	2.7	28	132	1,607		1.0		10		
SAN-MW7d	8/23/2019	13:11		20.6	7.12	2.5	23	121	1,604		1.0		13		
SAN-MW7d	8/23/2019	13:15	32.68	21.0	7.13	2.4	24	128	1,602	83	1.0		17	5.2	
SAN-MW7d	11/14/2019	13:05	33.78									3.07			
SAN-MW7d	11/14/2019	13:08		19.7	7.50	6.0	73	172	1,570		1.0		3		
SAN-MW7d	11/14/2019	13:11		19.6	7.22	2.0	31	154	1,551		1.0		6		
SAN-MW7d	11/14/2019	13:15		19.5	7.15	1.5	24	145	1,546		1.0		10		
SAN-MW7d	11/14/2019	13:18		19.6	7.15	2.0	30	146	1,539		1.0		13		
SAN-MW7d	11/14/2019	13:21	33.85	19.5	7.16	1.5	25	149	1,536	43	1.0		16	5.2	
SAN-MW8d	3/1/2019	13:25	30.25									2.03			
SAN-MW8d	3/1/2019	13:27		18.7	7.05	3.9	42	244	1,720		1.0		2		
SAN-MW8d	3/1/2019	13:29		19.0	7.00	3.9	43	243	1,725		1.0		4		
SAN-MW8d	3/1/2019	13:32		19.1	6.96	3.5	38	241	1,726		1.0		7		
SAN-MW8d	3/1/2019	13:34		19.1	6.98	3.5	39	239	1,725		1.0		9		
SAN-MW8d	3/1/2019	13:36	30.28	19.1	7.03	3.3	38	238	1,726	19	1.0		11	5.4	
SAN-MW8d	5/23/2019	16:08	29.53									2.14			
SAN-MW8d	5/23/2019	16:10		19.8	7.11	4.0	49	208	1,614		1.0		2		
SAN-MW8d	5/23/2019	16:12		19.8	7.01	3.6	44	207	1,606		1.0		4		
SAN-MW8d	5/23/2019	16:14		19.6	7.05	4.2	44	204	1,611		1.0		6		
SAN-MW8d	5/23/2019	16:17		19.6	7.05	4.2	45	203	1,611		1.0		9		
SAN-MW8d	5/23/2019	16:19	29.68	19.7	7.05	4.2	44	202	1,611	13	1.0		11	5.1	
SAN-MW8d	8/23/2019	13:26	31.67									1.8			
SAN-MW8d	8/23/2019	13:30		21.9	7.26	2.2	30	134	1,514		0.5		2		
SAN-MW8d	8/23/2019	13:34		22.5	7.19	3.6	40	123	1,507		0.5		4		
SAN-MW8d	8/23/2019	13:38		21.4	7.21	3.5	44	126	1,519		0.5		6		
SAN-MW8d	8/23/2019	13:42		21.5	7.20	3.3	40	124	1,513		0.5		8		
SAN-MW8d	8/23/2019	13:46	31.68	21.9	7.20	3.3	38	127	1,518	35	0.5		10	5.6	
SAN-MW8d	11/14/2019	13:30	33.32									1.53			
SAN-MW8d	11/14/2019	13:32		20.2	7.33	3.1	40	174	1,471		1.0		2		
SAN-MW8d	11/14/2019	13:34		20.0	7.23	1.7	24	158	1,466		1.0		4		
SAN-MW8d	11/14/2019	13:36		20.0	7.18	3.3	43	157	1,465		1.0		6		
SAN-MW8d	11/14/2019	13:38		19.9	7.16	2.3	32	149	1,464		1.0		8		
SAN-MW8d	11/14/2019	13:40	33.38	19.9	7.18	2.7	37	145	1,466	14	1.0		10	6.5	
GEN-MW1	2/19/2019	13:55	13.72									2.92			
GEN-MW1	2/19/2019	13:58		21.3	6.89	1.1	12	46	3,320		1.0		3		

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Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
GEN-MW1	2/19/2019	14:01		21.8	6.69	1.0	11	7	3,180		1.0		6		
GEN-MW1	2/19/2019	14:04		21.9	6.68	1.0	11	7	3,157		1.0		10		
GEN-MW1	2/19/2019	14:07		21.9	6.69	0.9	10	11	3,144		1.0		13		
GEN-MW1	2/19/2019	14:10	18.20	21.9	6.70	0.9	10	15	3,132	2	1.0		16	5.5	
GEN-MW1	5/17/2019	12:28	12.46									3.13			
GEN-MW1	5/17/2019	12:32		21.4	6.90	0.9	18	-85	3,156		1.0		4		
GEN-MW1	5/17/2019	12:36		21.6	6.83	0.9	18	-116	3,042		1.0		8		
GEN-MW1	5/17/2019	12:40		21.8	6.84	0.9	18	-116	3,036		1.0		12		
GEN-MW1	5/17/2019	12:44		21.8	6.86	0.9	18	-113	3,038		1.0		16		
GEN-MW1	5/17/2019	12:48	15.30	21.9	6.82	0.9	18	-115	3,030	8	1.0		20	6.4	
GEN-MW1	8/13/2019	11:57	11.56									3.28			
GEN-MW1	8/13/2019	12:00		23.2	6.92	1.0	16	-131	3,004		1.0		3		
GEN-MW1	8/13/2019	12:03		22.9	6.86	0.5	11	-141	2,968		1.0		6		
GEN-MW1	8/13/2019	12:07		22.9	6.87	0.5	11	-142	2,964		1.0		10		
GEN-MW1	8/13/2019	12:11		22.9	6.86	0.4	9	-131	2,953		1.0		14		
GEN-MW1	8/13/2019	12:14	14.28	22.9	6.86	0.7	13	-130	2,952	5	1.0		17	5.2	
GEN-MW1	11/12/2019	9:08	12.26									3.16			
GEN-MW1	11/12/2019	9:12		21.5	6.73	1.1	17	-48	3,016		1.0		4		
GEN-MW1	11/12/2019	9:16		21.5	6.69	1.0	17	-91	3,034		1.0		8		
GEN-MW1	11/12/2019	9:20		22.1	6.74	1.0	17	-86	3,111		1.0		12		
GEN-MW1	11/12/2019	9:24		22.3	6.69	1.0	16	-71	3,090		1.0		16		
GEN-MW1	11/12/2019	9:28	16.35	22.2	6.77	1.0	17	-83	3,081	3	1.0		20	6.3	
GEN-MW2	2/19/2019	14:56	11.92									2.45			
GEN-MW2	2/19/2019	14:59		20.4	6.81	0.9	10	186	2,477		1.0		3		
GEN-MW2	2/19/2019	15:02		20.7	6.79	0.9	10	184	2,479		1.0		6		
GEN-MW2	2/19/2019	15:06		20.7	6.78	0.8	9	184	2,474		1.0		10		
GEN-MW2	2/19/2019	15:09		20.7	6.78	0.8	9	185	2,470		1.0		13		
GEN-MW2	2/19/2019	15:12	13.11	20.7	6.79	0.6	7	186	2,468	2	1.0		16	6.5	
GEN-MW2	5/17/2019	15:00	10.66									2.66			
GEN-MW2	5/17/2019	15:03		20.8	6.95	0.8	14	116	2,640		1.0		3		
GEN-MW2	5/17/2019	15:06		20.6	6.92	0.7	13	112	2,520		1.0		6		
GEN-MW2	5/17/2019	15:10		20.6	6.90	0.7	13	108	2,500		1.0		10		
GEN-MW2	5/17/2019	15:13		20.7	6.91	0.8	14	105	2,499		1.0		13		
GEN-MW2	5/17/2019	15:16	11.52	20.7	6.92	0.8	14	101	2,497	1	1.0		16	6	
GEN-MW2	8/13/2019	13:11	10.15									2.74			
GEN-MW2	8/13/2019	13:14		22.4	7.03	0.6	9	105	2,395		1.0		3		
GEN-MW2	8/13/2019	13:17		21.9	6.99	0.4	9	102	2,386		1.0		6		
GEN-MW2	8/13/2019	13:19		21.8	6.98	0.6	12	98	2,389		1.0		8		
GEN-MW2	8/13/2019	13:22		21.8	6.99	0.6	12	102	2,386		1.0		11		
GEN-MW2	8/13/2019	13:25	10.82	21.9	6.99	0.5	11	97	2,385	1	1.0		14	5.1	
GEN-MW2	11/11/2019	15:33	10.43									2.7			
GEN-MW2	11/11/2019	15:36		21.0	7.15	1.6	24	84	3,983		1.0		3		
GEN-MW2	11/11/2019	15:39		21.0	6.97	1.1	20	97	3,609		1.0		6		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
GEN-MW2	11/11/2019	15:43		21.1	7.14	1.3	21	92	3,314		1.0		10		
GEN-MW2	11/11/2019	15:46		21.0	7.15	1.1	20	91	3,201		1.0		13		
GEN-MW2	11/11/2019	15:49	11.66	20.8	7.13	1.1	19	93	3,191	NM	1.0		16	5.9	
GEN-MW3	2/19/2019	13:35	16.31									2.03			
GEN-MW3	2/19/2019	13:37		19.9	7.08	1.5	16	189	7,530		1.0		2		
GEN-MW3	2/19/2019	13:39		20.1	6.77	1.1	12	198	7,587		1.0		4		
GEN-MW3	2/19/2019	13:42		20.1	6.80	1.0	11	205	7,685		1.0		7		
GEN-MW3	2/19/2019	13:44		20.2	6.78	1.0	11	207	7,696		1.0		9		
GEN-MW3	2/19/2019	13:46	17.40	20.4	6.79	0.9	10	209	7,719	1	1.0		11	5.4	
GEN-MW3	5/17/2019	12:06	15.11									2.23			
GEN-MW3	5/17/2019	12:09		19.1	7.03	1.1	19	95	7,953		1.0		3		
GEN-MW3	5/17/2019	12:12		19.2	6.87	1.0	18	110	8,038		1.0		6		
GEN-MW3	5/17/2019	12:16		19.2	6.88	1.0	18	119	8,004		1.0		10		
GEN-MW3	5/17/2019	12:19		19.2	6.88	0.9	18	125	7,937		1.0		13		
GEN-MW3	5/17/2019	12:22	16.36	19.2	6.89	0.9	18	129	7,878	2	1.0		16	7.2	
GEN-MW3	8/13/2019	11:38	14.13									2.39			
GEN-MW3	8/13/2019	11:41		21.9	7.05	2.4	28	151	6,518		1.0		3		
GEN-MW3	8/13/2019	11:44		21.3	7.01	0.7	14	154	6,334		1.0		6		
GEN-MW3	8/13/2019	11:46		21.0	6.98	0.7	15	156	6,218		1.0		8		
GEN-MW3	8/13/2019	11:48		21.2	7.01	0.5	14	158	6,050		1.0		10		
GEN-MW3	8/13/2019	11:50	14.38	21.0	6.94	0.9	17	157	6,015	5	1.0		12	5	
GEN-MW3	11/12/2019	9:34	14.87									2.27			
GEN-MW3	11/12/2019	9:37		21.1	6.77	1.3	21	-31	5,473		1.0		3		
GEN-MW3	11/12/2019	9:40		21.4	6.80	1.1	18	-25	5,687		1.0		6		
GEN-MW3	11/12/2019	9:45		21.7	6.92	1.1	16	-11	5,868		0.5		8.5		
GEN-MW3	11/12/2019	9:50		21.6	7.06	1.0	17	10	6,003		0.5		11		
GEN-MW3	11/12/2019	9:55	15.61	21.9	6.93	1.0	16	19	6,013	2	0.5		13.5	5.9	
GEN-MW5	2/19/2019	14:34	16.09									2.37			
GEN-MW5	2/19/2019	14:37		21.6	6.71	1.4	14	161	2,009		1.0		3		
GEN-MW5	2/19/2019	14:40		21.8	6.58	1.3	14	163	2,194		1.0		6		
GEN-MW5	2/19/2019	14:44		21.8	6.59	1.3	13	167	2,252		1.0		10		
GEN-MW5	2/19/2019	14:47		21.7	6.62	1.2	12	169	2,272		1.0		13		
GEN-MW5	2/19/2019	14:50	17.00	21.6	6.64	1.2	12	175	2,306	1	1.0		16	6.8	
GEN-MW5	5/17/2019	15:21	15.72									2.44			
GEN-MW5	5/17/2019	15:24		21.6	7.09	0.7	12	91	1,488		1.0		3		
GEN-MW5	5/17/2019	15:27		21.5	6.81	0.7	12	99	1,671		1.0		6		
GEN-MW5	5/17/2019	15:31		21.6	6.82	0.7	12	100	1,776		1.0		10		
GEN-MW5	5/17/2019	15:34		21.6	6.81	0.7	12	101	1,816		1.0		13		
GEN-MW5	5/17/2019	15:37	15.37	21.6	6.77	0.7	12	101	1,828	1	1.0		16	6.6	
GEN-MW5	8/13/2019	13:33	14.49									2.63			
GEN-MW5	8/13/2019	13:36		22.2	6.98	0.5	8	112	1,935		1.0		3		
GEN-MW5	8/13/2019	13:38		22.0	6.85	1.6	22	112	2,005		1.0		5		
GEN-MW5	8/13/2019	13:41		21.9	6.83	0.9	12	117	2,064		1.0		8		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
GEN-MW5	8/13/2019	13:44		21.9	6.83	0.6	9	117	2,090		1.0		11		
GEN-MW5	8/13/2019	13:47	15.21	21.9	6.82	1.7	22	120	2,114	1	1.0		14	5.3	
GEN-MW5	11/12/2019	8:48	14.70									2.6			
GEN-MW5	11/12/2019	8:50		20.7	6.94	1.9	29	138	1,576		1.0		2		
GEN-MW5	11/12/2019	8:52		20.9	6.65	1.3	22	140	1,617		1.0		4		
GEN-MW5	11/12/2019	8:55		20.9	6.63	1.1	20	143	1,710		1.0		7		
GEN-MW5	11/12/2019	8:57		21.1	6.72	0.9	18	137	2,003		1.0		9		
GEN-MW5	11/12/2019	8:59	15.62	21.2	6.64	1.1	19	135	2,033	3	1.0		11	4.2	
GEN-MW6	2/19/2019	17:05	17.16									2.33			
GEN-MW6	2/19/2019	17:08		20.8	7.28	1.0	10	193	1,212		1.0		3		
GEN-MW6	2/19/2019	17:11		21.0	6.77	0.9	9	198	1,184		1.0		6		
GEN-MW6	2/19/2019	17:14		20.9	6.78	0.8	8	199	1,182		1.0		9		
GEN-MW6	2/19/2019	17:18		20.9	6.80	0.7	7	200	1,181		1.0		13		
GEN-MW6	2/19/2019	17:21	17.36	20.9	6.75	0.7	7	200	1,180	1	1.0		16	6.9	
GEN-MW6	5/17/2019	12:55	15.91									2.53			
GEN-MW6	5/17/2019	12:58		20.6	7.33	1.4	20	25	1,720		1.0		3		
GEN-MW6	5/17/2019	13:01		20.5	6.92	1.3	20	41	1,629		1.0		6		
GEN-MW6	5/17/2019	13:05		20.5	6.86	1.3	20	54	1,628		1.0		10		
GEN-MW6	5/17/2019	13:08		20.6	6.86	1.3	20	62	1,627		1.0		13		
GEN-MW6	5/17/2019	13:11	16.08	20.6	6.85	1.3	20	66	1,625	2	1.0		16	6.3	
GEN-MW6	8/13/2019	14:20	15.63									2.58			
GEN-MW6	8/13/2019	14:22		22.2	7.03	4.9	58	122	1,581		1.0		2		
GEN-MW6	8/13/2019	14:25		22.2	6.96	1.2	15	110	1,608		1.0		5		
GEN-MW6	8/13/2019	14:28		22.8	6.94	1.1	15	113	1,623		1.0		8		
GEN-MW6	8/13/2019	14:31		22.7	6.94	1.2	16	117	1,618		1.0		11		
GEN-MW6	8/13/2019	14:33	15.78	22.8	6.95	1.1	13	108	1,615	1	1.0		13	5	
GEN-MW6	11/12/2019	8:08	15.68									2.57			
GEN-MW6	11/12/2019	8:11		20.7	6.67	2.5	35	191	1,484		1.0		3		
GEN-MW6	11/12/2019	8:14		20.9	6.72	2.4	33	185	1,518		1.0		6		
GEN-MW6	11/12/2019	8:17		21.0	6.75	2.4	33	183	1,513		1.0		9		
GEN-MW6	11/12/2019	8:21		20.6	6.82	2.4	33	177	1,528		1.0		13		
GEN-MW6	11/12/2019	8:24	15.91	20.8	6.86	2.3	32	176	1,530	2	1.0		16	6.2	
GEN-MW7	2/19/2019	14:17	17.15									1.73			
GEN-MW7	2/19/2019	14:19		21.7	7.18	1.0	11	55	993		1.0		2		
GEN-MW7	2/19/2019	14:21		21.6	6.87	1.0	11	95	965		1.0		4		
GEN-MW7	2/19/2019	14:24		21.5	6.84	1.0	10	126	964		1.0		7		
GEN-MW7	2/19/2019	14:26		21.5	6.77	0.9	10	133	971		1.0		9		
GEN-MW7	2/19/2019	14:28	18.10	21.6	6.76	0.9	10	141	970	1	1.0		11	6.4	
GEN-MW7	5/17/2019	15:42	15.88									1.94			
GEN-MW7	5/17/2019	15:44		21.6	7.21	0.8	12	98	1,020		1.0		2		
GEN-MW7	5/17/2019	15:46		21.4	7.07	0.6	11	90	994		1.0		4		
GEN-MW7	5/17/2019	15:49		21.2	7.03	0.6	11	87	993		1.0		7		
GEN-MW7	5/17/2019	15:51		21.2	7.05	0.6	11	84	994		1.0		9		

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Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
GEN-MW7	5/17/2019	15:53	16.64	21.2	7.04	0.6	11	82	997	1	1.0		11	5.7	
GEN-MW7	8/13/2019	14:39	15.62									1.98			
GEN-MW7	8/13/2019	14:42		22.8	6.95	0.6	10	121	1,371		1.0		2		
GEN-MW7	8/13/2019	14:45		22.6	6.83	0.8	13	118	1,357		1.0		4		
GEN-MW7	8/13/2019	14:47		22.6	6.82	0.6	12	117	1,357		1.0		6		
GEN-MW7	8/13/2019	14:49		22.6	6.80	0.4	9	116	1,357		1.0		8		
GEN-MW7	8/13/2019	14:51	16.05	22.6	6.80	0.3	8	116	1,356	1	1.0		10	5.1	
GEN-MW7	11/12/2019	8:31	15.65									1.98			
GEN-MW7	11/12/2019	8:33		19.2	7.12	1.8	29	155	1,399		1.0		2		
GEN-MW7	11/12/2019	8:36		20.1	6.94	1.2	22	159	1,245		1.0		5		
GEN-MW7	11/12/2019	8:38		20.2	6.80	1.2	23	158	1,203		1.0		7		
GEN-MW7	11/12/2019	8:40		20.6	6.68	1.1	20	155	1,150		1.0		9		
GEN-MW7	11/12/2019	8:42	16.81	20.9	6.64	1.1	22	153	1,093	3	1.0		11	5.6	3
GEN-MW8	2/19/2019	15:19	14.74									2.52			
GEN-MW8	2/19/2019	15:22		20.0	6.52	1.2	12	204	4,496		1.0		3		
GEN-MW8	2/19/2019	15:25		20.2	6.44	1.1	12	204	4,585		1.0		6		
GEN-MW8	2/19/2019	15:28		20.2	6.44	1.0	11	205	4,590		1.0		9		
GEN-MW8	2/19/2019	15:31		20.2	6.45	1.0	10	206	4,596		1.0		12		
GEN-MW8	2/19/2019	15:35	15.05	20.4	6.46	0.9	10	208	4,600	2	1.0		16	6.3	
GEN-MW8	5/17/2019	14:36	13.50									2.72			
GEN-MW8	5/17/2019	14:39		20.5	6.59	1.2	20	113	4,344		1.0		3		
GEN-MW8	5/17/2019	14:42		20.8	6.57	1.3	20	116	4,599		1.0		6		
GEN-MW8	5/17/2019	14:46		20.9	6.58	1.3	20	119	4,610		1.0		10		
GEN-MW8	5/17/2019	14:49		20.9	6.57	1.3	20	123	4,618		1.0		13		
GEN-MW8	5/17/2019	14:52	13.81	20.8	6.56	1.3	20	127	4,613	1	1.0		16	5.9	
GEN-MW8	8/13/2019	12:46	12.83									2.83			
GEN-MW8	8/13/2019	12:49		21.5	6.75	0.8	12	87	4,617		1.0		3		
GEN-MW8	8/13/2019	12:52		21.5	6.70	0.7	13	100	4,606		1.0		6		
GEN-MW8	8/13/2019	12:56		21.3	6.69	0.6	12	107	4,602		1.0		10		
GEN-MW8	8/13/2019	12:59		21.5	6.70	0.6	12	107	4,601		1.0		13		
GEN-MW8	8/13/2019	13:02	13.10	21.2	6.67	0.7	13	106	4,585	1	1.0		16	5.7	
GEN-MW8	11/11/2019	15:09	13.22									2.77			
GEN-MW8	11/11/2019	15:12		20.8	6.86	1.8	27	98	3,399		1.0		3		
GEN-MW8	11/11/2019	15:15		20.8	6.69	1.6	25	102	3,934		1.0		6		
GEN-MW8	11/11/2019	15:18		20.7	6.77	1.5	24	94	4,495		1.0		9		
GEN-MW8	11/11/2019	15:21		20.5	6.72	1.5	24	82	5,006		1.0		12		
GEN-MW8	11/11/2019	15:24	13.60	20.6	6.67	1.4	23	84	5,014	5	1.0		15	5.4	
GEN-MW9	2/19/2019	16:24	14.87									2.19			
GEN-MW9	2/19/2019	16:27		18.7	6.62	1.0	11	194	1,813		1.0		3		
GEN-MW9	2/19/2019	16:30		19.0	6.44	1.0	10	196	1,829		1.0		6		
GEN-MW9	2/19/2019	16:34		19.1	6.44	0.9	9	198	1,842		1.0		10		
GEN-MW9	2/19/2019	16:37		19.0	6.45	0.9	9	198	1,859		1.0		13		
GEN-MW9	2/19/2019	16:40	15.63	19.2	6.45	0.8	9	198	1,841	2	1.0		16	7.3	

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Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
GEN-MW9	5/17/2019	14:16	13.40									2.43			
GEN-MW9	5/17/2019	14:18		18.7	6.48	0.8	15	116	1,797		1.0		3		
GEN-MW9	5/17/2019	14:21		18.5	6.37	0.8	15	115	1,847		1.0		6		
GEN-MW9	5/17/2019	14:24		18.5	6.42	0.8	15	110	1,885		1.0		9		
GEN-MW9	5/17/2019	14:28		18.5	6.46	0.8	15	107	1,910		1.0		13		
GEN-MW9	5/17/2019	14:31	14.25	18.5	6.49	0.7	15	105	1,918	1	1.0		16	6.6	
GEN-MW9	8/13/2019	10:56	12.58									2.56			
GEN-MW9	8/13/2019	10:59		21.0	6.62	3.2	39	195	1,261		1.0		3		
GEN-MW9	8/13/2019	11:02		21.0	6.56	3.3	41	184	1,281		1.0		6		
GEN-MW9	8/13/2019	11:04		20.9	6.59	3.4	41	173	1,352		1.0		8		
GEN-MW9	8/13/2019	11:06		21.0	6.58	3.4	41	168	1,392		1.0		10		
GEN-MW9	8/13/2019	11:09	13.13	21.1	6.59	3.4	41	151	1,417	6	1.0		13	5.1	
GEN-MW9	11/11/2019	13:33	13.19									2.47			
GEN-MW9	11/11/2019	13:36		23.3	7.66	1.7	25	107	1,318		1.0		3		
GEN-MW9	11/11/2019	13:39		22.4	7.07	1.2	20	117	1,396		1.0		6		
GEN-MW9	11/11/2019	13:42		22.3	6.83	1.1	19	118	1,405		1.0		9		
GEN-MW9	11/11/2019	13:45		22.4	6.88	1.1	18	116	1,422		1.0		12		
GEN-MW9	11/11/2019	13:49	14.00	22.2	6.79	1.0	18	116	1,423	7	1.0		16	6.5	
GEN-MW10	2/19/2019	15:42	16.46									2.16			
GEN-MW10	2/19/2019	15:45		20.3	6.89	1.5	15	209	2,347		1.0		3		
GEN-MW10	2/19/2019	15:48		20.7	6.86	1.3	13	197	2,269		1.0		6		
GEN-MW10	2/19/2019	15:52		20.8	6.84	1.2	13	187	2,265		1.0		10		
GEN-MW10	2/19/2019	15:55		20.8	6.85	1.1	11	179	2,276		1.0		13		
GEN-MW10	2/19/2019	15:58	21.00	20.8	6.83	1.0	10	172	2,286	3	1.0		16	7.4	
GEN-MW10	5/17/2019	13:35	15.18									2.37			
GEN-MW10	5/17/2019	13:38		21.2	7.01	1.1	15	61	2,421		1.0		3		
GEN-MW10	5/17/2019	13:41		20.6	6.92	0.9	12	63	2,544		1.0		6		
GEN-MW10	5/17/2019	13:45		20.5	6.88	0.9	12	59	2,595		1.0		10		
GEN-MW10	5/17/2019	13:48		20.4	6.88	0.9	12	58	2,645		1.0		13		
GEN-MW10	5/17/2019	13:51	17.50	20.5	6.87	0.9	12	58	2,683	2	1.0		16	6.8	
GEN-MW10	8/13/2019	12:22	14.58									2.47			
GEN-MW10	8/13/2019	12:25		21.8	7.06	1.9	25	-18	2,602		1.0		3		
GEN-MW10	8/13/2019	12:28		21.5	6.94	1.3	20	35	2,643		1.0		6		
GEN-MW10	8/13/2019	12:31		21.5	6.93	0.7	14	36	2,661		1.0		9		
GEN-MW10	8/13/2019	12:34		21.6	6.94	1.2	18	49	2,667		1.0		12		
GEN-MW10	8/13/2019	12:38	17.36	21.6	6.93	0.8	15	47	2,667	3	1.0		16	6.5	
GEN-MW10	11/11/2019	14:20	14.95									2.41			
GEN-MW10	11/11/2019	14:23		21.7	6.93	1.5	24	120	2,371		1.0		3		
GEN-MW10	11/11/2019	14:27		21.8	6.92	1.2	21	96	2,484		1.0		7		
GEN-MW10	11/11/2019	14:30		21.7	6.92	1.2	22	84	2,579		1.0		10		
GEN-MW10	11/11/2019	14:33		21.6	6.95	1.4	22	73	2,748		1.0		13		
GEN-MW10	11/11/2019	14:36	18.73	21.6	6.92	1.2	20	62	2,754	4	1.0		16	6.6	

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
GEN-MW11s	2/19/2019	16:05	15.96									1.95			
GEN-MW11s	2/19/2019	16:07		19.3	6.74	1.1	11	172	2,047		1.0		2		
GEN-MW11s	2/19/2019	16:09		19.6	6.52	1.0	11	175	2,044		1.0		4		
GEN-MW11s	2/19/2019	16:12		19.6	6.52	1.0	10	178	2,035		1.0		7		
GEN-MW11s	2/19/2019	16:14		19.6	6.51	0.9	10	180	2,017		1.0		9		
GEN-MW11s	2/19/2019	16:16	16.27	19.7	6.48	0.9	9	183	2,008	2	1.0		11	5.6	
GEN-MW11s	5/17/2019	13:55	14.54									2.18			
GEN-MW11s	5/17/2019	13:58		19.8	6.64	0.8	12	90	2,030		1.0		3		
GEN-MW11s	5/17/2019	14:01		19.6	6.50	0.8	12	107	1,992		1.0		6		
GEN-MW11s	5/17/2019	14:05		19.5	6.44	0.8	12	105	1,991		1.0		10		
GEN-MW11s	5/17/2019	14:08		19.6	6.43	0.8	12	106	1,996		1.0		13		
GEN-MW11s	5/17/2019	14:11	14.86	19.5	6.41	0.8	12	106	1,995	2	1.0		16	7.3	
GEN-MW11s	8/13/2019	10:33	14.00									2.26			
GEN-MW11s	8/13/2019	10:35		21.3	6.77	2.8	33	191	1,457		1.0		2		
GEN-MW11s	8/13/2019	10:38		21.2	6.62	3.1	37	182	1,457		1.0		5		
GEN-MW11s	8/13/2019	10:41		20.9	6.61	3.2	38	178	1,468		1.0		8		
GEN-MW11s	8/13/2019	10:43		21.1	6.53	3.2	39	181	1,473		1.0		10		
GEN-MW11s	8/13/2019	10:45	14.13	20.9	6.53	3.3	41	183	1,473	10	1.0		12	5.3	
GEN-MW11s	11/11/2019	13:58	14.35									2.21			
GEN-MW11s	11/11/2019	14:01		22.9	7.16	1.3	20	121	1,315		1.0		3		
GEN-MW11s	11/11/2019	14:04		22.0	6.81	1.1	19	124	1,210		1.0		6		
GEN-MW11s	11/11/2019	14:07		21.5	6.69	1.1	19	128	1,146		1.0		9		
GEN-MW11s	11/11/2019	14:10		20.9	6.73	1.0	19	124	1,057		1.0		12		
GEN-MW11s	11/11/2019	14:13	14.73	20.9	6.64	1.0	19	123	1,054	10	1.0		15	6.8	
GEN-MW12s	2/19/2019	16:48	18.36									0.86			
GEN-MW12s	2/19/2019	16:50		20.6	6.86	1.2	12	197	1,604		0.5		1		
GEN-MW12s	2/19/2019	16:52		21.0	6.89	1.1	11	196	1,536		0.5		2		
GEN-MW12s	2/19/2019	16:55		21.2	6.94	1.0	10	196	1,534		0.5		3.5		
GEN-MW12s	2/19/2019	16:57		21.3	6.91	0.9	10	196	1,532		0.5		4.5		
GEN-MW12s	2/19/2019	16:59	18.55	21.4	6.90	0.9	9	196	1,533	2	0.5		5.5	6.4	
GEN-MW12s	5/17/2019	13:16	17.05									1.07			
GEN-MW12s	5/17/2019	13:18		20.4	7.13	1.5	22	66	1,415		1.0		2		
GEN-MW12s	5/17/2019	13:20		20.6	7.06	1.4	20	60	1,420		1.0		4		
GEN-MW12s	5/17/2019	13:23		20.7	7.08	1.4	20	60	1,421		1.0		7		
GEN-MW12s	5/17/2019	13:25		20.5	7.11	1.6	22	61	1,423		1.0		9		
GEN-MW12s	5/17/2019	13:27	17.35	20.5	7.06	1.6	22	62	1,422	2	1.0		11	10.3	
GEN-MW12s	8/13/2019	13:57	17.12									1.06			
GEN-MW12s	8/13/2019	13:59		23.6	7.16	4.9	56	109	1,408		0.5		1		
GEN-MW12s	8/13/2019	14:01		22.7	7.11	1.2	15	111	1,337		0.5		2		
GEN-MW12s	8/13/2019	14:05		22.8	7.11	1.7	23	111	1,331		0.5		4		
GEN-MW12s	8/13/2019	14:07		22.6	7.12	1.8	24	116	1,339		0.5		5		
GEN-MW12s	8/13/2019	14:09	17.25	22.6	7.13	2.0	25	119	1,342	1	0.5		6	5.7	
GEN-MW12s	11/11/2019	14:41	17.06									1.07			

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
GEN-MW12s	11/11/2019	14:44		21.7	7.47	1.9	28	88	1,308		0.5		1.5		
GEN-MW12s	11/11/2019	14:47		21.7	7.20	2.1	30	94	1,296		0.5		3		
GEN-MW12s	11/11/2019	14:50		21.7	7.17	2.3	32	96	1,280		0.5		4.5		
GEN-MW12s	11/11/2019	14:53		21.7	7.14	2.1	30	97	1,258		0.5		6		
GEN-MW12s	11/11/2019	14:57	17.40	21.6	7.16	2.1	30	105	1,257	3	0.5		8	7.5	
TRO-MW1	2/22/2019	15:39	80.61									3.75			
TRO-MW1	2/22/2019	15:43		18.4	7.47	4.7	50	236	1,171		1.0		4		
TRO-MW1	2/22/2019	15:47		18.7	7.04	4.6	50	241	1,172		1.0		8		
TRO-MW1	2/22/2019	15:51		18.6	7.03	4.6	50	244	1,190		1.0		12		
TRO-MW1	2/22/2019	15:55		18.7	7.03	4.4	48	247	1,186		1.0		16		
TRO-MW1	2/22/2019	15:59	83.30	18.7	7.02	4.4	47	248	1,192	1828	1.0		20	5.3	
TRO-MW1	5/20/2019	14:34	81.82									3.3			
TRO-MW1	5/20/2019	14:37		20.0	7.18	3.4	41	255	1,148		1.0		3		
TRO-MW1	5/20/2019	14:41		19.8	7.02	3.6	42	246	1,148		1.0		7		
TRO-MW1	5/20/2019	14:45		19.5	6.99	3.7	44	242	1,161		1.0		11		
TRO-MW1	5/20/2019	14:49		19.9	7.00	3.4	42	235	1,161		1.0		15		
TRO-MW1	5/20/2019	14:52	85.11	20.7	7.00	3.3	40	226	1,161	311	1.0		18	5.5	
TRO-MW1	8/8/2019	14:36	79.08									4.32			
TRO-MW1	8/8/2019	14:41		20.5	7.43	7.6	85	279	1,005		1.0		5		
TRO-MW1	8/8/2019	14:46		19.9	7.22	6.5	72	281	1,033		1.0		10		
TRO-MW1	8/8/2019	14:51		19.9	7.19	6.2	70	280	1,036		1.0		15		
TRO-MW1	8/8/2019	14:56		19.7	7.13	5.4	59	281	1,034		1.0		20		
TRO-MW1	8/8/2019	15:01	81.30	19.4	7.11	5.3	59	281	1,037	85	1.0		25	5.8	
TRO-MW1	11/18/2019	9:00	73.25									6.45			
TRO-MW1	11/18/2019	9:07		18.9	6.79	5.5	59	209	996		1.0		7		
TRO-MW1	11/18/2019	9:14		19.1	7.21	5.2	56	211	989		1.0		14		
TRO-MW1	11/18/2019	9:21		19.1	7.21	4.7	52	212	993		1.0		21		
TRO-MW1	11/18/2019	9:28		19.1	7.20	4.7	52	212	996		1.0		28		
TRO-MW1	11/18/2019	9:35	80.41	19.1	7.19	4.6	51	211	1,005	758	1.0		35	5.4	
TRO-MW2	2/22/2019	14:30	97.78									2.81			
TRO-MW2	2/22/2019	14:33		19.0	7.67	2.3	26	236	1,808		1.0		3		
TRO-MW2	2/22/2019	14:36		19.5	6.79	2.0	22	234	1,799		1.0		6		
TRO-MW2	2/22/2019	14:40		19.6	6.84	2.0	22	223	1,797		1.0		10		
TRO-MW2	2/22/2019	14:43		19.6	6.79	2.0	22	223	1,797		1.0		13		
TRO-MW2	2/22/2019	14:46	98.10	19.7	6.78	2.0	22	220	1,795	130	1.0		16	5.7	
TRO-MW2	5/20/2019	15:53	97.50									2.85			
TRO-MW2	5/20/2019	15:56		20.2	6.88	2.2	24	241	1,664		1.0		3		
TRO-MW2	5/20/2019	15:59		20.2	6.79	1.4	14	220	1,673		1.0		6		
TRO-MW2	5/20/2019	16:02		20.3	6.83	1.7	19	217	1,670		1.0		9		
TRO-MW2	5/20/2019	16:05		20.1	6.79	1.5	17	214	1,672		1.0		12		
TRO-MW2	5/20/2019	16:08	98.11	20.1	6.83	1.5	18	220	1,671	47	1.0		15	5.3	

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Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
TRO-MW2	8/8/2019	16:05	89.57									4.15			
TRO-MW2	8/8/2019	16:10		20.1	7.13	2.4	28	277	1,634		1.0		5		
TRO-MW2	8/8/2019	16:15		20.1	6.85	2.0	23	263	1,660		1.0		10		
TRO-MW2	8/8/2019	16:20		20.1	6.84	2.0	23	260	1,662		1.0		15		
TRO-MW2	8/8/2019	16:25		20.1	6.80	2.1	24	259	1,664		1.0		20		
TRO-MW2	8/8/2019	16:30	89.80	20.1	6.79	2.1	24	254	1,663	69	1.0		25	6	
TRO-MW2	11/18/2019	10:00	88.02									4.4			
TRO-MW2	11/18/2019	10:05		19.9	7.45	1.8	21	213	1,641		1.0		5		
TRO-MW2	11/18/2019	10:10		20.0	6.91	1.8	20	208	1,653		1.0		10		
TRO-MW2	11/18/2019	10:15		20.1	6.84	1.7	20	203	1,670		1.0		15		
TRO-MW2	11/18/2019	10:20		20.0	6.82	1.5	17	196	1,677		1.0		20		
TRO-MW2	11/18/2019	10:25	88.25	20.1	6.84	1.5	17	189	1,682	167	1.0		25	5.7	
TRO-MW3	2/22/2019	14:55	87.40									5.6			
TRO-MW3	2/22/2019	15:01		18.5	7.41	6.4	68	227	1,059		1.0		6		
TRO-MW3	2/22/2019	15:07		18.6	7.48	4.8	52	229	1,040		1.0		12		
TRO-MW3	2/22/2019	15:13		18.8	7.42	5.3	57	230	1,042		1.0		18		
TRO-MW3	2/22/2019	15:19		18.9	7.42	4.9	54	232	1,033		1.0		24		
TRO-MW3	2/22/2019	15:25	87.41	19.1	7.43	4.9	53	228	1,036	37	1.0		30	5.4	
TRO-MW3	5/20/2019	15:13	88.32									5.44			
TRO-MW3	5/20/2019	15:19		20.7	7.54	4.1	49	265	985		1.0		6		
TRO-MW3	5/20/2019	15:25		19.9	7.39	4.0	48	259	991		1.0		12		
TRO-MW3	5/20/2019	15:30		19.6	7.40	3.8	47	252	990		1.0		17		
TRO-MW3	5/20/2019	15:36		19.7	7.41	3.8	47	248	991		1.0		22		
TRO-MW3	5/20/2019	15:42	88.50	19.6	7.42	4.1	50	247	993	26	1.0		28	5.1	
TRO-MW3	8/8/2019	15:18	80.42									6.73			
TRO-MW3	8/8/2019	15:25		20.9	7.68	5.1	57	278	959		1.0		7		
TRO-MW3	8/8/2019	15:32		20.3	7.47	5.2	58	273	961		1.0		14		
TRO-MW3	8/8/2019	15:39		20.2	7.46	5.1	57	272	960		1.0		21		
TRO-MW3	8/8/2019	15:46		19.8	7.44	5.1	54	269	959		1.0		28		
TRO-MW3	8/8/2019	15:53	80.43	19.8	7.43	5.1	53	268	959	41	1.0		35	5.2	
TRO-MW3	11/18/2019	11:00	77.53									7.2			
TRO-MW3	11/18/2019	11:08		19.6	7.43	4.2	46	202	1,206		1.0		8		
TRO-MW3	11/18/2019	11:16		19.5	7.38	4.0	45	202	1,209		1.0		16		
TRO-MW3	11/18/2019	11:24		19.5	7.39	4.2	46	199	1,201		1.0		24		
TRO-MW3	11/18/2019	11:32		19.4	7.43	4.2	46	197	1,199		1.0		32		
TRO-MW3	11/18/2019	11:40	78.40	19.5	7.40	4.2	46	196	1,199	61	1.0		40	5.6	
PLS-MW1s	2/21/2019	15:32	10.29									1.13			
PLS-MW1s	2/21/2019	15:34		17.6	7.24	1.5	15	229	2,443		1.0		2		
PLS-MW1s	2/21/2019	15:36		18.0	7.08	1.0	11	234	2,402		1.0		4		
PLS-MW1s	2/21/2019	15:39		18.3	7.25	1.0	11	233	2,378		1.0		7		
PLS-MW1s	2/21/2019	15:41		18.0	7.18	1.0	12	234	2,340		1.0		9		
PLS-MW1s	2/21/2019	15:43	15.34	18.4	7.12	1.0	11	234	2,313	14	1.0		11	9.7	

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Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
PLS-MW1s	5/21/2019	14:56	9.77									1.21			
PLS-MW1s	5/21/2019	14:59		21.5	7.53	2.8	39	117	2,967		0.5		1.5		
PLS-MW1s	5/21/2019	15:02		19.7	7.43	2.3	35	116	2,792		0.5		3		
PLS-MW1s	5/21/2019	15:05		19.3	7.12	2.1	33	123	2,602		0.5		4.5		
PLS-MW1s	5/21/2019	15:08		18.7	7.17	2.1	33	121	2,517		0.5		6		
PLS-MW1s	5/21/2019	15:12	16.58	18.7	7.18	2.2	34	136	2,504	11	0.5		8	6.6	
PLS-MW1s	8/23/2019	10:21	7.75									1.5			
PLS-MW1s	8/23/2019	10:24		24.3	6.90	1.4	14	267	2,241		0.5		1.5		
PLS-MW1s	8/23/2019	10:28		23.8	6.90	1.1	9	270	2,184		0.5		3.5		
PLS-MW1s	8/23/2019	10:31		23.4	6.92	1.2	10	272	2,177		0.5		5		
PLS-MW1s	8/23/2019	10:35		23.2	6.91	1.3	12	275	2,184		0.5		6.5		
PLS-MW1s	8/23/2019	10:38	7.75	23.2	6.88	1.0	9	277	2,181	14	0.5		8	5.3	
PLS-MW1s	11/12/2019	12:12	9.61									1.23			
PLS-MW1s	11/12/2019	12:14		22.0	6.82	0.9	8	291	2,152		1.0		2		
PLS-MW1s	11/12/2019	12:16		21.9	6.81	0.6	4	291	2,094		1.0		4		
PLS-MW1s	11/12/2019	12:19		22.1	6.78	0.7	6	288	2,093		1.0		7		
PLS-MW1s	11/12/2019	12:21		21.7	6.78	1.1	10	290	2,088		1.0		9		
PLS-MW1s	11/12/2019	12:23	14.05	21.9	6.83	1.3	14	290	2,072	3	1.0		11	8.9	
PLS-MW2s	2/21/2019	15:15	9.06									1.24			
PLS-MW2s	2/21/2019	15:17		17.8	7.53	2.2	24	226	1,391		1.0		2		
PLS-MW2s	2/21/2019	15:19		18.3	7.11	2.1	21	228	1,452		1.0		4		
PLS-MW2s	2/21/2019	15:22		18.2	7.23	2.2	24	227	1,569		1.0		7		
PLS-MW2s	2/21/2019	15:24		18.2	7.21	1.4	15	228	1,638		1.0		9		
PLS-MW2s	2/21/2019	15:26	9.80	18.3	7.27	1.4	15	228	1,690	1	1.0		11	8.9	
PLS-MW2s	5/21/2019	14:33	8.67									1.31			
PLS-MW2s	5/21/2019	14:35		22.3	7.36	2.7	38	106	4,138		1.0		2		
PLS-MW2s	5/21/2019	14:38		22.2	6.97	2.5	37	115	3,701		0.5		3.5		
PLS-MW2s	5/21/2019	14:41		22.1	7.00	2.6	37	127	3,497		0.5		5		
PLS-MW2s	5/21/2019	14:44		21.6	7.11	2.5	36	115	3,401		0.5		6.5		
PLS-MW2s	5/21/2019	14:47	9.55	21.1	7.07	2.3	32	114	3,300	3	0.5		8	6.1	
PLS-MW2s	8/23/2019	10:00	6.75									1.6			
PLS-MW2s	8/23/2019	10:02		22.1	6.89	1.5	16	249	2,237		1.0		2		
PLS-MW2s	8/23/2019	10:05		21.4	6.87	1.2	13	260	2,767		1.0		5		
PLS-MW2s	8/23/2019	10:07		21.3	6.83	1.3	15	265	2,837		1.0		7		
PLS-MW2s	8/23/2019	10:09		21.1	6.87	1.3	15	268	2,842		1.0		9		
PLS-MW2s	8/23/2019	10:12	6.86	21.4	6.87	1.1	13	272	2,867	2	1.0		12	7.5	
PLS-MW2s	11/12/2019	10:32	8.30									1.4			
PLS-MW2s	11/12/2019	10:34		20.3	6.82	3.3	37	276	1,855		1.0		2		
PLS-MW2s	11/12/2019	10:36		20.5	6.78	1.1	14	254	2,349		1.0		4		
PLS-MW2s	11/12/2019	10:38		20.6	6.77	0.9	11	253	2,383		1.0		6		
PLS-MW2s	11/12/2019	10:40		20.7	6.78	1.0	12	253	2,399		1.0		8		
PLS-MW2s	11/12/2019	10:42	9.43	20.7	6.77	0.8	10	253	2,417	1	1.0		10	7.1	

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
PLS-MW3s	2/21/2019	16:40	7.72									1.27			
PLS-MW3s	2/21/2019	16:42		17.8	7.44	1.0	12	243	2,098		1.0		2		
PLS-MW3s	2/21/2019	16:44		18.3	7.25	1.0	12	237	1,998		1.0		4		
PLS-MW3s	2/21/2019	16:47		18.5	7.23	1.1	12	239	2,005		1.0		7		
PLS-MW3s	2/21/2019	16:49		18.6	7.16	1.1	12	239	2,011		1.0		9		
PLS-MW3s	2/21/2019	16:51	8.77	18.9	7.18	1.1	13	240	2,014	3	1.0		11	8.7	
PLS-MW3s	5/21/2019	15:45	7.88									1.3			
PLS-MW3s	5/21/2019	15:47		19.2	7.28	2.6	37	125	1,752		1.0		2		
PLS-MW3s	5/21/2019	15:50		19.0	7.22	2.4	35	124	1,880		0.5		3.5		
PLS-MW3s	5/21/2019	15:53		18.9	7.10	2.4	34	127	1,926		0.5		5		
PLS-MW3s	5/21/2019	15:56		18.8	7.07	2.4	35	128	1,939		0.5		6.5		
PLS-MW3s	5/21/2019	15:59	9.13	18.8	7.06	2.3	34	127	1,952	4	0.5		8	6.2	
PLS-MW3s	8/23/2019	11:43	5.43									1.69			
PLS-MW3s	8/23/2019	11:47		22.1	7.07	1.9	21	290	1,778		0.5		2		
PLS-MW3s	8/23/2019	11:51		21.7	7.02	1.0	9	288	1,790		0.5		4		
PLS-MW3s	8/23/2019	11:55		21.8	7.00	1.0	10	282	1,810		0.5		6		
PLS-MW3s	8/23/2019	11:59		21.4	7.00	1.0	11	284	1,820		0.5		8		
PLS-MW3s	8/23/2019	12:03	5.53	21.4	7.02	1.1	12	285	1,817	1	0.5		10	5.9	
PLS-MW3s	11/12/2019	12:56	7.85									1.29			
PLS-MW3s	11/12/2019	12:58		23.5	6.89	1.0	7	254	1,706		1.0		2		
PLS-MW3s	11/12/2019	13:00		23.3	6.92	1.1	8	261	1,726		1.0		4		
PLS-MW3s	11/12/2019	13:02		23.1	6.85	0.8	4	270	1,735		1.0		6		
PLS-MW3s	11/12/2019	13:04		23.4	6.88	0.5	3	278	1,725		1.0		8		
PLS-MW3s	11/12/2019	13:07	8.57	23.4	6.89	0.6	3	280	1,726	1	1.0		11	8.5	
PLS-MW4s	2/21/2019	16:10	9.46									2.26			
PLS-MW4s	2/21/2019	16:13		18.5	7.15	1.1	13	231	4,541		1.0		3		
PLS-MW4s	2/21/2019	16:16		19.1	7.27	1.1	13	240	4,648		1.0		6		
PLS-MW4s	2/21/2019	16:20		19.4	7.03	1.0	11	241	4,609		1.0		10		
PLS-MW4s	2/21/2019	16:23		19.4	7.08	1.0	11	242	4,590		1.0		13		
PLS-MW4s	2/21/2019	16:26	11.00	19.6	7.07	1.0	11	243	4,561	2	1.0		16	7.1	
PLS-MW4s	5/21/2019	14:00	9.05									2.33			
PLS-MW4s	5/21/2019	14:03		20.2	7.26	2.6	38	102	3,786		1.0		3		
PLS-MW4s	5/21/2019	14:08		20.3	7.04	2.8	39	101	4,273		0.5		5.5		
PLS-MW4s	5/21/2019	14:13		20.2	7.04	3.1	42	100	4,374		0.5		8		
PLS-MW4s	5/21/2019	14:18		20.3	7.02	3.0	41	99	4,447		0.5		10.5		
PLS-MW4s	5/21/2019	14:23	10.49	20.4	7.03	2.8	39	103	4,460	2	0.5		13	5.6	
PLS-MW4s	8/23/2019	11:17	7.07									2.6			
PLS-MW4s	8/23/2019	11:20		22.2	6.95	1.2	11	295	3,663		1.0		3		
PLS-MW4s	8/23/2019	11:23		21.9	6.95	1.4	15	301	3,736		1.0		6		
PLS-MW4s	8/23/2019	11:27		21.9	6.93	1.2	11	303	3,742		1.0		10		
PLS-MW4s	8/23/2019	11:30		21.9	6.94	1.4	14	309	3,746		1.0		13		
PLS-MW4s	8/23/2019	11:33	7.60	21.9	6.92	1.0	11	311	3,746	1	1.0		16	6.2	
PLS-MW4s	11/12/2019	11:48	9.19									2.3			

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
PLS-MW4s	11/12/2019	11:51		22.6	6.84	1.6	14	257	4,860		1.0		3		
PLS-MW4s	11/12/2019	11:54		22.3	6.84	0.6	4	275	4,753		1.0		6		
PLS-MW4s	11/12/2019	11:57		22.0	6.83	0.8	7	294	4,702		1.0		9		
PLS-MW4s	11/12/2019	12:00		22.1	6.83	0.9	7	306	4,651		1.0		12		
PLS-MW4s	11/12/2019	12:04	10.42	22.2	6.83	0.7	6	315	4,627	1	1.0		16	7	
PLS-MW5s	2/21/2019	15:52	8.52									1.13			
PLS-MW5s	2/21/2019	15:54		19.5	7.27	1.4	15	235	1,657		1.0		2		
PLS-MW5s	2/21/2019	15:56		20.1	6.96	1.2	14	233	1,695		1.0		4		
PLS-MW5s	2/21/2019	15:59		19.8	6.98	0.9	11	224	1,792		1.0		7		
PLS-MW5s	2/21/2019	16:01		20.5	6.95	1.0	12	228	1,775		1.0		9		
PLS-MW5s	2/21/2019	16:03	9.42	20.6	6.89	1.0	12	230	1,798	5	1.0		11	9.7	
PLS-MW5s	5/21/2019	15:21	8.24									1.18			
PLS-MW5s	5/21/2019	15:24		19.6	7.62	2.9	40	135	1,709		0.5		1.5		
PLS-MW5s	5/21/2019	15:27		20.5	7.01	2.7	37	137	1,727		0.5		3		
PLS-MW5s	5/21/2019	15:30		20.6	6.98	2.5	35	140	1,729		0.5		4.5		
PLS-MW5s	5/21/2019	15:33		20.8	7.13	2.3	33	133	1,732		0.5		6		
PLS-MW5s	5/21/2019	15:37	9.37	21.0	7.12	2.3	33	127	1,737	5	0.5		8	6.8	
PLS-MW5s	8/23/2019	10:54	5.50									1.6			
PLS-MW5s	8/23/2019	10:56		23.3	6.81	1.1	9	275	2,017		1.0		2		
PLS-MW5s	8/23/2019	10:58		23.0	6.80	1.4	13	277	2,014		1.0		4		
PLS-MW5s	8/23/2019	11:01		22.8	6.79	1.2	10	279	1,986		1.0		7		
PLS-MW5s	8/23/2019	11:03		22.7	6.79	1.4	13	280	1,982		1.0		9		
PLS-MW5s	8/23/2019	11:05	5.57	22.8	6.77	0.9	8	282	1,976	4	1.0		11	6.9	
PLS-MW5s	11/12/2019	12:33	7.92									1.2			
PLS-MW5s	11/12/2019	12:35		23.5	6.84	0.9	7	276	1,672		1.0		2		
PLS-MW5s	11/12/2019	12:37		23.4	6.79	0.7	4	276	1,704		1.0		4		
PLS-MW5s	11/12/2019	12:39		23.1	6.71	0.8	6	276	1,716		1.0		6		
PLS-MW5s	11/12/2019	12:41		23.0	6.67	0.8	5	275	1,711		1.0		8		
PLS-MW5s	11/12/2019	12:43	8.70	23.1	6.67	0.6	3	275	1,711	2	1.0		10	8.3	
PLS-MW6s	2/21/2019	14:30	5.30									2.74			
PLS-MW6s	2/21/2019	14:33		18.5	7.63	0.7	9	219	2,450		1.0		3		
PLS-MW6s	2/21/2019	14:36		19.1	7.37	0.7	8	223	2,403		1.0		6		
PLS-MW6s	2/21/2019	14:40		19.3	7.34	0.7	8	224	2,398		1.0		10		
PLS-MW6s	2/21/2019	14:43		19.4	7.29	1.0	12	224	2,392		1.0		13		
PLS-MW6s	2/21/2019	14:46	6.10	19.5	7.33	1.0	11	223	2,385	2	1.0		16	5.8	
PLS-MW6s	5/21/2019	13:35	4.03									2.95			
PLS-MW6s	5/21/2019	13:38		19.4	7.25	2.9	41	111	2,752		1.0		3		
PLS-MW6s	5/21/2019	13:41		19.6	7.33	2.3	35	102	2,723		1.0		6		
PLS-MW6s	5/21/2019	13:44		19.6	7.30	2.2	34	97	2,683		1.0		9		
PLS-MW6s	5/21/2019	13:48		19.7	7.28	2.1	32	93	2,658		1.0		13		
PLS-MW6s	5/21/2019	13:51	4.71	19.9	7.45	1.9	31	89	2,646	2	1.0		16	5.4	
PLS-MW6s	8/23/2019	12:14	4.25									2.9			
PLS-MW6s	8/23/2019	12:17		22.8	7.25	1.1	9	274	2,404		1.0		3		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
PLS-MW6s	8/23/2019	12:20		22.6	7.24	1.0	9	280	2,388		1.0		6		
PLS-MW6s	8/23/2019	12:23		22.2	7.25	1.1	10	282	2,395		1.0		9		
PLS-MW6s	8/23/2019	12:27		22.2	7.24	1.1	10	285	2,389		1.0		13		
PLS-MW6s	8/23/2019	12:30	4.32	22.6	7.25	0.8	7	288	2,373	1	1.0		16	5.5	
PLS-MW6s	11/12/2019	11:22	6.79									2.49			
PLS-MW6s	11/12/2019	11:25		22.9	7.16	0.8	5	200	2,180		1.0		3		
PLS-MW6s	11/12/2019	11:28		22.9	7.14	0.9	5	209	2,186		1.0		6		
PLS-MW6s	11/12/2019	11:32		22.9	7.18	0.7	3	222	2,192		1.0		10		
PLS-MW6s	11/12/2019	11:36		22.8	7.16	0.6	4	231	2,196		1.0		14		
PLS-MW6s	11/12/2019	11:39	7.29	22.8	7.18	0.5	2	240	2,197	1	1.0		17	6.8	
PLS-MW7s	2/21/2019	14:52	7.82									2.39			
PLS-MW7s	2/21/2019	14:55		17.9	7.35	1.1	12	230	2,486		1.0		3		
PLS-MW7s	2/21/2019	14:58		18.5	6.98	1.1	12	232	2,455		1.0		6		
PLS-MW7s	2/21/2019	15:02		18.5	6.98	0.8	9	232	2,445		1.0		10		
PLS-MW7s	2/21/2019	15:05		18.5	7.00	0.8	9	232	2,434		1.0		13		
PLS-MW7s	2/21/2019	15:08	8.96	18.5	7.08	0.8	9	231	2,432	5	1.0		16	6.7	
PLS-MW7s	5/21/2019	13:09	6.84									2.56			
PLS-MW7s	5/21/2019	13:12		19.2	7.26	2.2	32	117	2,364		1.0		3		
PLS-MW7s	5/21/2019	13:15		19.2	6.85	2.0	30	123	2,384		1.0		6		
PLS-MW7s	5/21/2019	13:18		19.2	6.81	2.0	30	122	2,396		1.0		9		
PLS-MW7s	5/21/2019	13:21		19.1	6.74	2.0	30	119	2,418		1.0		12		
PLS-MW7s	5/21/2019	13:25	7.53	19.0	6.76	1.9	29	118	2,483	3	1.0		16	6.2	
PLS-MW7s	8/23/2019	9:32	6.16									2.6			
PLS-MW7s	8/23/2019	9:35		21.7	6.76	1.7	14	283	1,332		1.0		3		
PLS-MW7s	8/23/2019	9:38		21.2	6.78	1.0	10	262	1,520		1.0		6		
PLS-MW7s	8/23/2019	9:41		21.1	6.79	1.3	14	252	1,625		1.0		9		
PLS-MW7s	8/23/2019	9:44		21.1	6.82	1.3	13	246	1,731		1.0		12		
PLS-MW7s	8/23/2019	9:47	6.29	21.1	6.83	1.5	16	240	1,808	2	1.0		15	5.8	
PLS-MW7s	11/12/2019	10:55	7.94									2.38			
PLS-MW7s	11/12/2019	10:58		21.0	6.77	1.4	14	237	1,304		1.0		3		
PLS-MW7s	11/12/2019	11:02		21.1	6.76	0.5	5	225	1,775		1.0		7		
PLS-MW7s	11/12/2019	11:05		21.2	6.76	0.7	7	219	1,920		1.0		10		
PLS-MW7s	11/12/2019	11:08		21.3	6.74	0.7	7	212	2,010		1.0		13		
PLS-MW7s	11/12/2019	11:12	8.51	21.9	6.79	0.7	6	208	2,065	1	1.0		17	7.1	
CAE-MW1d	2/21/2019	9:00	12.94									2.72			
CAE-MW1d	2/21/2019	9:03		19.6	6.80	1.1	13	258	3,081		1.0		3		
CAE-MW1d	2/21/2019	9:06		20.0	6.92	1.0	12	257	3,106		1.0		6		
CAE-MW1d	2/21/2019	9:10		20.1	6.94	1.0	11	249	3,106		1.0		10		
CAE-MW1d	2/21/2019	9:13		20.0	6.94	0.7	9	246	3,115		1.0		13		
CAE-MW1d	2/21/2019	9:16	14.00	20.2	6.94	0.7	9	243	3,112	3	1.0		16	5.9	
CAE-MW1d	5/17/2019	14:20	11.62									2.93			

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
CAE-MW1d	5/17/2019	14:23		21.4	6.84	1.8	19	250	2,955		0.5		3		
CAE-MW1d	5/17/2019	14:26		21.5	6.85	1.8	18	252	2,982		0.5		6		
CAE-MW1d	5/17/2019	14:29		20.9	6.85	1.8	18	253	2,987		0.5		9		
CAE-MW1d	5/17/2019	14:32		20.9	6.89	1.7	18	257	2,986		0.5		12		
CAE-MW1d	5/17/2019	14:35	12.02	20.9	6.84	1.8	18	257	2,990	3	0.5		15	5.1	
CAE-MW1d	8/22/2019	12:49	12.11									2.08			
CAE-MW1d	8/22/2019	12:51		22.9	6.78	2.0	18	222	3,242		1.0		2		
CAE-MW1d	8/22/2019	12:54		22.4	6.84	1.5	15	223	3,236		1.0		5		
CAE-MW1d	8/22/2019	12:56		22.0	6.84	1.7	18	223	3,250		1.0		7		
CAE-MW1d	8/22/2019	12:58		21.8	6.84	1.3	15	224	3,235		1.0		9		
CAE-MW1d	8/22/2019	13:00	12.40	21.5	6.85	1.3	15	225	3,220	2	1.0		11	5.3	
CAE-MW1s	11/11/2019	14:06	12.96									0.63			
CAE-MW1s	11/11/2019	14:08		23.3	6.67	0.9	11	146	3,184		0.25		0.5		
CAE-MW1s	11/11/2019	14:10		23.4	6.64	0.9	12	69	3,215		0.25		1		
CAE-MW1s	11/11/2019	14:12		22.6	6.58	0.9	10	35	3,229		0.25		1.5		
CAE-MW1s	11/11/2019	14:14		22.5	6.56	0.7	9	-1	3,244		0.25		2		
CAE-MW1s	11/11/2019	14:18	15.45	22.6	6.55	0.7	8	-16	3,276	14	0.25		3	4.8	
CAE-MW2s	2/21/2019	9:45	13.09									0.73			
CAE-MW2s	2/21/2019	9:47		20.7	7.51	1.3	15	222	1,059		0.5		1		
CAE-MW2s	2/21/2019	9:49		21.2	7.12	1.3	14	223	945		0.5		2		
CAE-MW2s	2/21/2019	9:52		21.4	7.09	1.0	12	223	930		0.5		3.5		
CAE-MW2s	2/21/2019	9:54		21.5	7.06	1.0	11	222	923		0.5		4.5		
CAE-MW2s	2/21/2019	9:56	14.50	21.6	7.07	1.0	11	222	918	11	0.5		5.5	7.5	
CAE-MW2d	5/17/2019	14:49	11.48									3.05			
CAE-MW2d	5/17/2019	14:52		21.3	6.99	2.3	25	246	1,105		1.0		3		
CAE-MW2d	5/17/2019	14:55		21.9	6.96	1.5	23	242	1,095		1.0		6		
CAE-MW2d	5/17/2019	14:58		21.8	6.86	1.6	24	244	1,098		1.0		9		
CAE-MW2d	5/17/2019	15:01		21.8	6.86	1.6	24	244	1,099		1.0		12		
CAE-MW2d	5/17/2019	15:04	11.94	21.8	6.89	1.6	23	243	1,101	3	1.0		15	4.9	
CAE-MW2s	8/22/2019	13:41	12.24									0.8			
CAE-MW2s	8/22/2019	13:43		26.2	6.57	1.9	17	233	611		0.5		1		
CAE-MW2s	8/22/2019	13:46		25.4	6.64	2.1	18	230	567		0.5		2.5		
CAE-MW2s	8/22/2019	13:48		25.2	6.65	2.0	16	228	574		0.5		3.5		
CAE-MW2s	8/22/2019	13:50		25.1	6.67	1.9	17	227	577		0.5		4.5		
CAE-MW2s	8/22/2019	13:52	12.67	25.1	6.65	1.8	17	225	576	6	0.5		5.5	6.9	
CAE-MW2s	11/11/2019	14:41	12.57									0.82			
CAE-MW2s	11/11/2019	14:43		25.1	6.76	0.9	11	155	851		0.5		1		
CAE-MW2s	11/11/2019	14:45		25.3	6.59	0.7	9	156	771		0.5		2		
CAE-MW2s	11/11/2019	14:47		25.4	6.55	0.7	9	149	782		0.5		3		
CAE-MW2s	11/11/2019	14:49		25.3	6.55	0.8	11	143	789		0.5		4		
CAE-MW2s	11/11/2019	14:51	13.34	25.3	6.58	0.9	11	147	789	3	0.5		5	6.1	
CAE-MW3s	2/21/2019	9:25	12.27									0.8			
CAE-MW3s	2/21/2019	9:27		18.9	7.31	1.1	12	243	2,753		0.5		1		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
CAE-MW3s	2/21/2019	9:29		19.4	7.26	1.1	12	233	2,710		0.5		2		
CAE-MW3s	2/21/2019	9:32		19.5	7.25	1.0	12	232	2,695		0.5		3.5		
CAE-MW3s	2/21/2019	9:34		19.6	7.25	1.0	12	233	2,683		0.5		4.5		
CAE-MW3s	2/21/2019	9:36	15.37	19.7	7.24	0.8	8	233	2,678	5	0.5		5.5	6.9	
CAE-MW3s	5/17/2019	15:13	10.68									1.06			
CAE-MW3s	5/17/2019	15:15		20.9	7.12	1.9	27	249	2,349		0.5		1		
CAE-MW3s	5/17/2019	15:17		21.1	7.04	1.8	26	251	2,380		0.5		2		
CAE-MW3s	5/17/2019	15:19		20.8	7.10	1.7	26	252	2,393		0.5		3		
CAE-MW3s	5/17/2019	15:22		20.7	7.09	2.0	29	254	2,395		0.5		4.5		
CAE-MW3s	5/17/2019	15:24	12.63	20.9	7.11	1.7	26	256	2,401	9	0.5		5.5	5.2	
CAE-MW3s	8/22/2019	14:04	11.91									0.8			
CAE-MW3s	8/22/2019	14:06		26.2	7.09	1.5	9	222	2,136		0.5		1		
CAE-MW3s	8/22/2019	14:09		25.7	7.13	1.2	5	223	2,290		0.5		2.5		
CAE-MW3s	8/22/2019	14:11		25.4	7.14	0.9	2	223	2,298		0.5		3.5		
CAE-MW3s	8/22/2019	14:14		25.2	7.15	0.9	6	225	2,132		0.5		5		
CAE-MW3s	8/22/2019	14:16		25.4	7.15	1.2	5	225	2,107	2	0.5		6	7.5	
CAE-MW3s	11/11/2019	14:22	12.14									0.82			
CAE-MW3s	11/11/2019	14:24		25.3	6.95	0.9	11	38	2,234		0.5		1		
CAE-MW3s	11/11/2019	14:26		25.4	6.91	0.7	9	62	2,307		0.5		2		
CAE-MW3s	11/11/2019	14:28		25.3	6.92	0.7	9	93	2,372		0.5		3		
CAE-MW3s	11/11/2019	14:30		25.2	6.95	0.7	9	94	2,386		0.5		4		
CAE-MW3s	11/11/2019	14:32	14.08	25.1	7.00	0.6	8	115	2,395	9	0.5		5	6.1	
CAE-MW4d	2/21/2019	8:30	14.05									4.52			
CAE-MW4d	2/21/2019	8:35		19.1	6.59	2.6	26	257	1,943		1.0		5		
CAE-MW4d	2/21/2019	8:40		19.6	6.46	2.2	23	257	1,930		1.0		10		
CAE-MW4d	2/21/2019	8:45		19.7	6.48	1.7	19	252	1,937		1.0		15		
CAE-MW4d	2/21/2019	8:50		19.7	6.49	1.4	15	252	1,942		1.0		20		
CAE-MW4d	2/21/2019	8:55	14.54	19.7	6.48	1.4	15	253	1,941	2	1.0		25	5.5	
CAE-MW4s	5/17/2019	14:01	12.80									1.69			
CAE-MW4s	5/17/2019	14:03		20.0	6.49	3.0	32	254	2,735		1.0		2		
CAE-MW4s	5/17/2019	14:05		20.0	6.48	1.9	20	249	2,851		1.0		4		
CAE-MW4s	5/17/2019	14:07		20.2	6.41	1.8	18	248	2,961		1.0		5.5		
CAE-MW4s	5/17/2019	14:09		20.1	6.41	1.8	18	247	3,018		1.0		7		
CAE-MW4s	5/17/2019	14:11	13.16	20.1	6.40	1.8	19	250	3,035	3	1.0		9	5.3	
CAE-MW4d	8/22/2019	13:10	12.87									4.7			
CAE-MW4d	8/22/2019	13:15		22.2	6.39	1.7	18	226	2,521		1.0		5		
CAE-MW4d	8/22/2019	13:20		22.7	6.40	1.3	14	233	2,433		1.0		10		
CAE-MW4d	8/22/2019	13:25		22.7	6.39	1.1	11	236	2,382		1.0		15		
CAE-MW4d	8/22/2019	13:30		22.3	6.40	1.2	11	237	2,380		1.0		20		
CAE-MW4d	8/22/2019	13:35	12.87	22.3	6.39	1.4	13	237	2,355	1	1.0		25	5.3	
CAE-MW4s	11/11/2019	13:45	13.52									1.57			
CAE-MW4s	11/11/2019	13:47		24.3	6.18	1.0	13	194	2,761		1.0		2		
CAE-MW4s	11/11/2019	13:49		24.4	6.08	0.9	10	186	2,811		1.0		4		

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Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
CAE-MW4s	11/11/2019	13:51		24.4	6.08	0.9	10	182	2,823		1.0		6		
CAE-MW4s	11/11/2019	13:52		24.4	6.07	0.8	10	178	2,821		1.0		7		
CAE-MW4s	11/11/2019	13:53	13.78	24.4	6.09	0.8	10	173	2,809	7	1.0		8	5.1	
CAE-MW5s	2/20/2019	16:35	12.37									1.68			
CAE-MW5s	2/20/2019	16:37		20.4	7.18	2.5	28	193	998		1.0		2		
CAE-MW5s	2/20/2019	16:39		20.6	7.15	2.4	27	192	881		1.0		4		
CAE-MW5s	2/20/2019	16:42		20.8	6.90	2.3	26	194	898		1.0		7		
CAE-MW5s	2/20/2019	16:44		20.9	6.86	1.9	22	194	912		1.0		9		
CAE-MW5s	2/20/2019	16:46	13.54	20.9	6.82	1.9	22	195	922	2	1.0		11	6.5	
CAE-MW5s	5/17/2019	13:19	10.82									1.93			
CAE-MW5s	5/17/2019	13:21		22.8	6.77	4.0	41	264	1,046		1.0		2		
CAE-MW5s	5/17/2019	13:23		21.6	6.83	2.7	33	254	1,071		1.0		4		
CAE-MW5s	5/17/2019	13:25		21.0	6.79	2.2	23	254	1,071		1.0		6		
CAE-MW5s	5/17/2019	13:27		21.0	6.73	2.2	23	253	1,073		1.0		8		
CAE-MW5s	5/17/2019	13:29	11.47	21.1	6.72	2.0	21	246	1,070	2	1.0		10	5.2	
CAE-MW5s	8/22/2019	12:23	10.63									1.97			
CAE-MW5s	8/22/2019	12:25		23.3	6.79	2.5	28	219	1,367		1.0		2		
CAE-MW5s	8/22/2019	12:27		23.1	6.79	2.9	29	218	1,403		1.0		4		
CAE-MW5s	8/22/2019	12:29		23.1	6.78	2.5	28	217	1,423		1.0		6		
CAE-MW5s	8/22/2019	12:31		22.9	6.77	2.5	26	216	1,430		1.0		8		
CAE-MW5s	8/22/2019	12:33	11.00	22.9	6.76	2.1	26	214	1,431	2	1.0		10	5.1	
CAE-MW5s	11/11/2019	13:03	11.32									1.85			
CAE-MW5s	11/11/2019	13:05		23.5	6.92	2.6	32	253	1,248		1.0		2		
CAE-MW5s	11/11/2019	13:07		22.9	6.62	2.6	31	234	1,227		1.0		4		
CAE-MW5s	11/11/2019	13:09		22.7	6.56	2.4	29	218	1,261		1.0		6		
CAE-MW5s	11/11/2019	13:11		22.7	6.52	2.3	27	211	1,283		1.0		8		
CAE-MW5s	11/11/2019	13:13	12.28	22.6	6.50	2.2	26	193	1,295	2	1.0		10	5.4	
CAE-MW6s	2/20/2019	16:15	15.34									0.84			
CAE-MW6s	2/20/2019	16:17		19.9	7.43	2.1	23	189	2,347		0.5		1		
CAE-MW6s	2/20/2019	16:19		19.9	7.00	1.8	20	194	2,317		0.5		2		
CAE-MW6s	2/20/2019	16:22		20.6	6.86	1.8	21	196	2,306		0.5		3.5		
CAE-MW6s	2/20/2019	16:24		20.7	6.83	1.6	18	197	2,283		0.5		4.5		
CAE-MW6s	2/20/2019	16:26	15.61	20.8	6.84	1.6	17	198	2,269	3	0.5		5.5	6.5	
CAE-MW6s	5/17/2019	13:40	13.89									1.07			
CAE-MW6s	5/17/2019	13:42		21.9	6.79	2.3	25	241	1,825		0.5		1		
CAE-MW6s	5/17/2019	13:44		22.2	6.74	2.0	22	237	1,852		0.5		2		
CAE-MW6s	5/17/2019	13:46		21.6	6.73	2.0	21	236	1,862		0.5		3		
CAE-MW6s	5/17/2019	13:49		21.5	6.73	1.8	21	236	1,860		0.5		4.5		
CAE-MW6s	5/17/2019	13:51	14.04	21.6	6.72	1.8	20	237	1,860	3	0.5		5.5	5.1	
CAE-MW6s	8/22/2019	12:02	13.80									1.1			
CAE-MW6s	8/22/2019	12:04		22.9	6.92	2.5	18	240	1,838		0.5		1		
CAE-MW6s	8/22/2019	12:06		22.4	6.85	2.0	17	238	1,828		0.5		2		
CAE-MW6s	8/22/2019	12:09		22.2	6.85	1.9	20	236	1,827		0.5		3.5		

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Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
CAE-MW6s	8/22/2019	12:11		22.5	6.83	2.5	26	231	1,811		0.5		4.5		
CAE-MW6s	8/22/2019	12:13	13.82	22.2	6.83	2.0	22	229	1,812	2	0.5		5.5	5	
CAE-MW6s	11/11/2019	13:23	14.25									1.02			
CAE-MW6s	11/11/2019	13:25		23.5	6.71	1.6	19	206	1,740		0.5		1		
CAE-MW6s	11/11/2019	13:27		23.4	6.65	1.3	16	191	1,743		0.5		2		
CAE-MW6s	11/11/2019	13:31		23.3	6.63	1.2	15	175	1,742		0.5		4		
CAE-MW6s	11/11/2019	13:33		23.3	6.60	1.2	15	169	1,743		0.5		5		
CAE-MW6s	11/11/2019	13:35	14.38	23.3	6.59	1.3	15	165	1,745	1	0.5		6	5.9	
ROB-MW1s	2/20/2019	10:14	11.84									1.05			
ROB-MW1s	2/20/2019	10:16		19.0	6.75	2.5	28	179	1,345		0.5		1		
ROB-MW1s	2/20/2019	10:18		19.3	6.52	2.2	25	183	1,170		0.5		2		
ROB-MW1s	2/20/2019	10:21		19.3	6.50	2.2	25	184	1,213		0.5		3.5		
ROB-MW1s	2/20/2019	10:23		19.3	6.47	2.0	22	185	1,299		0.5		4.5		
ROB-MW1s	2/20/2019	10:25	12.50	19.3	6.48	1.9	21	185	1,496	12	0.5		5.5	5.2	3
ROB-MW1s	5/21/2019	10:30	12.07									1.02			
ROB-MW1s	5/21/2019	10:33		19.8	7.08	3.1	42	52	2,814		0.5		1.5		
ROB-MW1s	5/21/2019	10:36		19.7	6.85	2.7	39	67	2,885		0.5		3		
ROB-MW1s	5/21/2019	10:39		19.6	6.89	2.8	40	55	2,960		0.5		4.5		
ROB-MW1s	5/21/2019	10:43		19.4	6.91	2.8	40	58	3,085		0.5		6.5		
ROB-MW1s	5/21/2019	10:46	12.89	19.4	6.85	3.0	41	53	3,185	3	0.5		8	7.8	
ROB-MW1s	8/14/2019	10:18	12.03									1.02			
ROB-MW1s	8/14/2019	10:20		21.8	6.85	2.7	34	61	2,714		1.0		2		
ROB-MW1s	8/14/2019	10:23		22.2	6.63	2.7	34	57	2,744		0.5		3.5		
ROB-MW1s	8/14/2019	10:26		22.7	6.68	2.7	33	57	2,757		0.5		5		
ROB-MW1s	8/14/2019	10:29		22.7	6.70	2.8	33	57	2,781		0.5		6.5		
ROB-MW1s	8/14/2019	10:32	12.65	22.5	6.69	2.7	32	59	2,784	4	0.5		8	7.8	
ROB-MW1s	11/12/2019	11:02	10.63									1.25			
ROB-MW1s	11/12/2019	11:04		21.5	6.73	6.1	73	220	3,419		0.5		1		
ROB-MW1s	11/12/2019	11:08		21.0	6.69	6.4	76	205	3,382		0.5		3		
ROB-MW1s	11/12/2019	11:10		20.4	6.70	2.9	37	211	3,344		0.5		4		
ROB-MW1s	11/12/2019	11:12		20.3	6.69	1.9	28	210	3,343		0.5		5		
ROB-MW1s	11/12/2019	11:16	11.97	20.3	6.70	1.4	24	209	3,330	12	0.5		7	5.6	
ROB-MW2s	2/20/2019	9:59	12.41									0.89			
ROB-MW2s	2/20/2019	10:01		19.8	6.82	1.3	15	175	3,298		0.5		1		
ROB-MW2s	2/20/2019	10:03		20.2	6.54	1.3	16	177	3,406		0.5		2		
ROB-MW2s	2/20/2019	10:03		20.3	6.51	1.3	15	178	3,448		0.5		3.5		
ROB-MW2s	2/20/2019	10:08		20.4	6.51	1.3	16	178	3,470		0.5		4.5		
ROB-MW2s	2/20/2019	10:10	13.20	20.4	6.52	1.3	16	179	3,495	15	0.5		5.5	6.2	
ROB-MW2s	5/21/2019	10:53	12.43									0.89			
ROB-MW2s	5/21/2019	10:55		20.5	6.90	3.4	44	61	3,406		0.5		1		
ROB-MW2s	5/21/2019	10:59		20.7	6.88	3.2	43	65	3,485		0.25		2		

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Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
ROB-MW2s	5/21/2019	11:03		20.7	6.94	3.1	42	81	3,544		0.25		3		
ROB-MW2s	5/21/2019	11:07		20.5	6.73	3.0	40	69	3,665		0.25		4		
ROB-MW2s	5/21/2019	11:12	13.78	20.4	6.69	2.8	39	74	3,675	7	0.25		5.5	6.2	
ROB-MW2s	8/14/2019	10:38	11.62									1.03			
ROB-MW2s	8/14/2019	10:42		22.3	6.59	3.2	40	71	3,444		0.5		2		
ROB-MW2s	8/14/2019	10:45		22.4	6.60	3.1	39	71	3,508		0.5		3.5		
ROB-MW2s	8/14/2019	10:48		22.8	6.59	3.2	40	76	3,641		0.5		5		
ROB-MW2s	8/14/2019	10:51		22.2	6.52	3.0	37	77	3,669		0.5		6.5		
ROB-MW2s	8/14/2019	10:54	12.76	21.8	6.51	3.1	39	77	3,668	100	0.5		8	7.8	
ROB-MW2s	11/12/2019	10:39	11.09									1.11			
ROB-MW2s	11/12/2019	10:41		22.9	6.60	2.1	28	229	3,340		0.5		1		
ROB-MW2s	11/12/2019	10:43		22.8	6.54	2.5	33	215	3,402		0.5		2		
ROB-MW2s	11/12/2019	10:47		22.8	6.51	3.7	45	214	3,444		0.5		4		
ROB-MW2s	11/12/2019	10:49		22.5	6.51	2.0	27	205	3,448		0.5		5		
ROB-MW2s	11/12/2019	10:51	12.02	22.3	6.51	2.2	29	199	3,432	24	0.5		6	5.4	
ROB-MW3s	2/20/2019	10:30	12.39									1.05			
ROB-MW3s	2/20/2019	10:32		20.1	6.74	1.8	19	186	2,665		0.5		1		
ROB-MW3s	2/20/2019	10:34		20.5	6.64	1.2	14	187	2,837		0.5		2		
ROB-MW3s	2/20/2019	10:37		20.6	6.67	1.0	12	185	2,873		0.5		3.5		
ROB-MW3s	2/20/2019	10:39		20.6	6.70	1.0	12	185	2,911		0.5		4.5		
ROB-MW3s	2/20/2019	10:41	12.63	20.6	6.65	1.0	12	185	2,919	4	0.5		5.5	5.2	
ROB-MW3s	5/21/2019	11:18	11.25									1.23			
ROB-MW3s	5/21/2019	11:21		19.8	7.46	3.6	48	72	3,479		0.5		1.5		
ROB-MW3s	5/21/2019	11:24		20.3	7.18	3.2	44	72	3,136		0.5		3		
ROB-MW3s	5/21/2019	11:27		20.5	7.21	3.3	44	92	3,003		0.5		4.5		
ROB-MW3s	5/21/2019	11:30		20.2	7.24	2.7	38	89	2,932		0.5		6		
ROB-MW3s	5/21/2019	11:34	11.79	19.7	7.26	2.7	38	81	2,891	2	0.5		8	6.5	
ROB-MW3s	8/14/2019	11:04	9.72									1.48			
ROB-MW3s	8/14/2019	11:06		23.1	6.88	2.9	35	88	3,111		1.0		2		
ROB-MW3s	8/14/2019	11:09		23.1	6.79	2.7	33	87	2,908		0.5		3.5		
ROB-MW3s	8/14/2019	11:12		22.9	6.81	2.6	30	86	2,814		0.5		5		
ROB-MW3s	8/14/2019	11:15		22.8	6.84	2.6	30	85	2,765		0.5		6.5		
ROB-MW3s	8/14/2019	11:18	10.19	22.4	6.82	2.4	27	81	2,532	2	0.5		8	5.4	3
ROB-MW3s	11/12/2019	10:16	10.09									1.42			
ROB-MW3s	11/12/2019	10:18		22.8	6.92	1.0	15	233	2,167		1.0		2		
ROB-MW3s	11/12/2019	10:20		22.8	6.76	1.6	23	207	2,193		1.0		4		
ROB-MW3s	11/12/2019	10:22		22.8	6.74	0.8	14	191	2,191		1.0		6		
ROB-MW3s	11/12/2019	10:24		22.7	6.75	2.5	33	180	2,200		1.0		8		
ROB-MW3s	11/12/2019	10:26	10.32	22.4	6.75	1.3	19	177	2,196	2	1.0		10	7	
ROB-MW4s	2/20/2019	10:46	11.68									1.01			
ROB-MW4s	2/20/2019	10:48		21.3	6.80	1.7	20	185	2,575		0.5		1		
ROB-MW4s	2/20/2019	10:50		21.2	6.73	0.9	17	183	2,412		0.5		2		
ROB-MW4s	2/20/2019	10:53		21.4	6.67	0.9	11	182	2,403		0.5		3.5		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
ROB-MW4s	2/20/2019	10:55		21.4	6.67	0.8	9	181	2,436		0.5		4.5		
ROB-MW4s	2/20/2019	10:57	12.20	21.5	6.64	0.7	9	181	2,454	3	0.5		5.5	5.4	
ROB-MW4s	5/21/2019	11:40	10.52									1.2			
ROB-MW4s	5/21/2019	11:43		20.2	7.28	3.0	42	78	2,365		0.5		1.5		
ROB-MW4s	5/21/2019	11:46		20.0	7.04	2.6	34	81	2,248		0.5		3		
ROB-MW4s	5/21/2019	11:49		20.0	6.96	2.4	36	81	2,268		0.5		4.5		
ROB-MW4s	5/21/2019	11:53		19.7	6.94	2.4	37	82	2,277		0.5		6.5		
ROB-MW4s	5/21/2019	11:56	11.13	19.7	6.86	2.5	38	81	2,300	3	0.5		8	6.7	
ROB-MW4s	8/14/2019	11:25	7.59									1.68			
ROB-MW4s	8/14/2019	11:27		24.1	6.97	2.7	31	86	2,295		1.0		2		
ROB-MW4s	8/14/2019	11:30		24.0	6.97	2.3	27	76	2,244		1.0		5		
ROB-MW4s	8/14/2019	11:32		23.2	6.90	2.2	26	77	1,797		1.0		7		
ROB-MW4s	8/14/2019	11:34		22.9	6.82	2.7	34	78	1,662		1.0		9		
ROB-MW4s	8/14/2019	11:36	8.32	22.8	6.80	2.3	29	78	1,641	2	1.0		11	6.5	
ROB-MW4s	11/12/2019	10:02	9.35									1.39			
ROB-MW4s	11/12/2019	10:04		23.4	7.14	1.3	21	233	1,730		1.0		2		
ROB-MW4s	11/12/2019	10:05		24.1	6.98	1.8	25	226	1,756		1.0		3		
ROB-MW4s	11/12/2019	10:07		24.3	6.90	2.0	29	210	1,742		1.0		5		
ROB-MW4s	11/12/2019	10:08		24.4	6.89	1.5	22	200	1,730		1.0		6		
ROB-MW4s	11/12/2019	10:09	9.70	24.4	6.89	1.9	25	192	1,718	3.5	1.0		7	5	
ROB-MW5d	2/20/2019	9:38	12.30									2.52			
ROB-MW5d	2/20/2019	9:41		20.6	6.74	1.6	18	170	2,846		1.0		3		
ROB-MW5d	2/20/2019	9:44		20.8	6.71	1.3	15	168	2,823		1.0		6		
ROB-MW5d	2/20/2019	9:48		20.8	6.75	1.1	13	168	2,812		1.0		10		
ROB-MW5d	2/20/2019	9:51		20.9	6.70	1.0	12	168	2,811		1.0		13		
ROB-MW5d	2/20/2019	9:54	12.90	20.9	6.71	1.0	12	168	2,805	2	1.0		16	6.3	
ROB-MW5s	5/21/2019	12:06	11.47									0.58			
ROB-MW5s	5/21/2019	12:09		20.0	7.04	3.7	48	94	2,497		0.25		0.75		
ROB-MW5s	5/21/2019	12:12		20.3	6.85	2.9	41	96	2,560		0.25		1.5		
ROB-MW5s	5/21/2019	12:15		20.2	6.82	2.9	41	95	2,613		0.25		2.25		
ROB-MW5s	5/21/2019	12:18		20.1	6.88	2.9	41	96	2,625		0.25		3		
ROB-MW5s	5/21/2019	12:22	12.10	20.2	6.97	2.7	39	92	2,671	10	0.25		4	6.9	
ROB-MW5s	8/14/2019	11:43	10.31									0.77			
ROB-MW5s	8/14/2019	11:47		25.1	6.85	3.0	36	88	1,925		0.25		1		
ROB-MW5s	8/14/2019	11:51		23.8	6.74	2.6	32	87	2,575		0.25		2		
ROB-MW5s	8/14/2019	11:56		23.5	6.73	2.6	31	85	2,563		0.25		3.25		
ROB-MW5s	8/14/2019	12:00		23.6	6.73	2.6	31	83	2,678		0.25		4.25		
ROB-MW5s	8/14/2019	12:04	11.21	23.3	6.76	2.6	31	82	2,739	19	0.25		5.25	6.8	
ROB-MW5s	11/12/2019	9:40	10.09									0.8			
ROB-MW5s	11/12/2019	9:42		22.7	6.60	3.0	43	247	2,625		0.5		1		
ROB-MW5s	11/12/2019	9:44		23.2	6.73	2.2	32	232	2,632		0.5		2		
ROB-MW5s	11/12/2019	9:46		23.4	6.77	2.9	39	224	2,624		0.5		3		
ROB-MW5s	11/12/2019	9:48		23.3	6.81	1.2	22	205	2,621		0.5		4		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
ROB-MW5s	11/12/2019	9:50	10.72	23.3	6.81	2.2	31	197	2,626	6	0.5		5	6.2	
ROB-MW6s	2/20/2019	11:50	13.35									2.42			
ROB-MW6s	2/20/2019	11:53		19.8	6.61	0.9	10	-5	3,734		1.0		3		
ROB-MW6s	2/20/2019	11:56		20.2	6.61	0.6	7	-16	3,484		1.0		6		
ROB-MW6s	2/20/2019	12:00		20.2	6.63	0.6	7	-12	3,405		1.0		10		
ROB-MW6s	2/20/2019	12:03		20.2	6.62	0.6	7	-12	3,369		1.0		13		
ROB-MW6s	2/20/2019	12:06	14.20	20.2	6.63	0.6	7	-14	3,358	4	1.0		16	6.6	
ROB-MW6s	5/21/2019	9:13	12.70									2.52			
ROB-MW6s	5/21/2019	9:16		19.5	6.76	2.5	34	-105	4,229		1.0		3		
ROB-MW6s	5/21/2019	9:19		19.8	6.86	2.2	33	-119	4,078		1.0		6		
ROB-MW6s	5/21/2019	9:22		19.9	6.80	2.3	35	-111	3,941		1.0		9		
ROB-MW6s	5/21/2019	9:26		20.1	6.76	2.7	39	-110	3,880		1.0		13		
ROB-MW6s	5/21/2019	9:29	13.70	20.1	6.79	2.1	42	-110	3,743	4	1.0		16	6.3	
ROB-MW6s	8/14/2019	9:04	10.82									2.84			
ROB-MW6s	8/14/2019	9:07		22.6	6.57	2.9	35	-111	3,037		1.0		3		
ROB-MW6s	8/14/2019	9:10		22.2	6.77	2.5	32	-102	3,298		1.0		6		
ROB-MW6s	8/14/2019	9:14		21.6	6.81	2.7	34	-108	3,398		1.0		10		
ROB-MW6s	8/14/2019	9:17		21.1	6.70	2.6	34	-102	3,344		1.0		13		
ROB-MW6s	8/14/2019	9:20	12.09	21.1	6.67	2.5	34	-98	3,295	3	1.0		16	5.6	
ROB-MW6s	11/12/2019	12:14	12.05									2.63			
ROB-MW6s	11/12/2019	12:17		21.3	6.91	2.1	28	-89	2,655		1.0		3		
ROB-MW6s	11/12/2019	12:20		21.1	6.83	2.7	36	-78	2,417		1.0		6		
ROB-MW6s	11/12/2019	12:22		20.9	6.81	3.4	44	-77	2,399		1.0		8		
ROB-MW6s	11/12/2019	12:25		20.9	6.80	2.5	33	-77	2,394		1.0		11		
ROB-MW6s	11/12/2019	12:28	12.83	21.2	6.80	3.5	45	-78	2,372	4	1.0		14	5.3	
ROB-MW7s	2/20/2019	11:27	11.52									2.73			
ROB-MW7s	2/20/2019	11:30		19.9	7.09	2.6	28	190	1,596		1.0		3		
ROB-MW7s	2/20/2019	11:33		20.0	6.94	2.2	24	190	1,572		1.0		6		
ROB-MW7s	2/20/2019	11:37		20.0	6.93	2.2	25	189	1,574		1.0		10		
ROB-MW7s	2/20/2019	11:40		20.1	6.91	2.2	24	189	1,574		1.0		13		
ROB-MW7s	2/20/2019	11:43	11.86	20.1	6.89	2.3	26	188	1,575	1	1.0		16	5.9	
ROB-MW7s	5/21/2019	9:36	10.74									2.87			
ROB-MW7s	5/21/2019	9:39		20.2	7.85	4.1	52	-65	2,642		1.0		3		
ROB-MW7s	5/21/2019	9:43		19.4	7.36	4.1	52	-34	1,513		1.0		7		
ROB-MW7s	5/21/2019	9:46		19.4	7.19	4.0	51	-6	1,503		1.0		10		
ROB-MW7s	5/21/2019	9:49		19.4	7.12	3.8	50	3	1,514		1.0		13		
ROB-MW7s	5/21/2019	9:52	11.10	19.3	7.09	3.8	49	18	1,518	3	1.0		16	5.6	
ROB-MW7s	8/14/2019	9:31	9.86									3.01			
ROB-MW7s	8/14/2019	9:33		22.4	7.16	3.3	43	-66	QM		1.5		3		
ROB-MW7s	8/14/2019	9:36		22.0	7.00	3.2	40	-42	QM		1.0		6		
ROB-MW7s	8/14/2019	9:39		22.1	6.96	3.1	40	-22	QM		1.0		9		
ROB-MW7s	8/14/2019	9:42		22.0	6.95	3.0	38	-8	QM		1.0		12		
ROB-MW7s	8/14/2019	9:46	13.28	21.9	6.96	3.0	29	4	QM	2	1.0		16	5.3	

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Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
ROB-MW7s	11/12/2019	11:49	10.46									2.91			
ROB-MW7s	11/12/2019	11:52		22.1	7.38	2.3	31	225	1,250		1.0		3		
ROB-MW7s	11/12/2019	11:55		22.3	7.20	2.2	30	200	1,287		1.0		6		
ROB-MW7s	11/12/2019	11:58		22.2	7.19	2.5	33	186	1,321		1.0		9		
ROB-MW7s	11/12/2019	12:01		22.3	7.21	1.7	24	201	1,339		1.0		12		
ROB-MW7s	11/12/2019	12:04	10.63	22.4	7.22	2.3	31	187	1,348	4	1.0		15	5.2	
ROB-MW8s	2/20/2019	11:05	11.48									2.65			
ROB-MW8s	2/20/2019	11:08		19.6	6.83	1.0	12	191	2,441		1.0		3		
ROB-MW8s	2/20/2019	11:11		20.1	6.71	0.8	10	191	2,437		1.0		6		
ROB-MW8s	2/20/2019	11:15		20.2	6.72	0.7	8	191	2,433		1.0		10		
ROB-MW8s	2/20/2019	11:18		20.2	6.72	0.7	8	190	2,436		1.0		13		
ROB-MW8s	2/20/2019	11:21	12.14	20.2	6.74	0.7	8	190	2,437	2	1.0		16	6	
ROB-MW8s	5/21/2019	10:03	10.98									2.73			
ROB-MW8s	5/21/2019	10:06		19.7	7.19	2.9	40	22	2,312		1.0		3		
ROB-MW8s	5/21/2019	10:09		19.8	6.98	2.8	37	32	2,318		1.0		6		
ROB-MW8s	5/21/2019	10:12		19.8	6.97	2.7	37	35	2,328		1.0		9		
ROB-MW8s	5/21/2019	10:15		19.6	6.92	2.4	33	40	2,337		1.0		12		
ROB-MW8s	5/21/2019	10:19	11.63	19.6	6.95	2.6	35	42	2,345	2	1.0		16	5.9	
ROB-MW8s	8/14/2019	9:56	10.70									2.77			
ROB-MW8s	8/14/2019	9:59		22.4	7.05	3.2	41	18	2,104		1.0		3		
ROB-MW8s	8/14/2019	10:02		21.7	6.95	3.0	39	27	2,233		1.0		6		
ROB-MW8s	8/14/2019	10:06		21.6	6.92	3.0	39	35	2,271		1.0		10		
ROB-MW8s	8/14/2019	10:09		21.4	6.97	2.8	37	36	2,288		1.0		13		
ROB-MW8s	8/14/2019	10:12	11.46	21.0	6.93	2.9	38	41	2,298	2	1.0		16	5.8	
ROB-MW8s	11/12/2019	11:27	10.38									2.82			
ROB-MW8s	11/12/2019	11:30		21.4	7.15	4.4	55	220	2,282		1.0		3		
ROB-MW8s	11/12/2019	11:33		21.3	7.11	3.6	42	218	2,276		1.0		6		
ROB-MW8s	11/12/2019	11:36		21.2	7.09	2.0	29	217	2,264		1.0		9		
ROB-MW8s	11/12/2019	11:39		21.2	7.09	3.3	43	223	2,261		1.0		12		
ROB-MW8s	11/12/2019	11:42	10.85	21.2	7.08	2.6	36	216	2,257	4	1.0		15	5.3	
WOO-MW1	2/25/2019	14:48	39.04									2.66			
WOO-MW1	2/25/2019	14:54		17.3	7.20	5.0	49	141	1,556		0.5		3		
WOO-MW1	2/25/2019	15:00		17.3	7.10	5.2	49	140	1,555		0.5		6		
WOO-MW1	2/25/2019	15:06		17.1	7.09	5.3	50	137	1,558		0.5		9		
WOO-MW1	2/25/2019	15:12		17.2	7.02	5.3	51	135	1,558		0.5		12		
WOO-MW1	2/25/2019	15:18	39.42	17.0	6.99	5.2	50	132	1,559	8	0.5		15	5.6	
WOO-MW1	5/29/2019	9:14	37.63									2.89			
WOO-MW1	5/29/2019	9:17		20.5	6.95	2.6	29	134	1,605		1.0		3		
WOO-MW1	5/29/2019	9:20		18.8	6.88	3.2	38	119	1,607		1.0		6		
WOO-MW1	5/29/2019	9:23		18.6	6.90	3.3	41	93	1,609		1.0		9		
WOO-MW1	5/29/2019	9:26		18.7	6.90	3.4	41	86	1,604		1.0		12		

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Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
WOO-MW1	5/29/2019	9:29	38.25	18.9	6.90	3.5	42	88	1,598	43	1.0		15	5.2	
WOO-MW1	8/14/2019	13:24	41.32									2.29			
WOO-MW1	8/14/2019	13:27		18.8	7.17	5.2	57	194	1,728		1.0		3		
WOO-MW1	8/14/2019	13:30		18.5	6.93	5.5	59	187	1,743		1.0		6		
WOO-MW1	8/14/2019	13:34		18.6	6.87	5.5	59	190	1,742		1.0		10		
WOO-MW1	8/14/2019	13:37		18.5	6.90	5.5	61	185	1,750		1.0		13		
WOO-MW1	8/14/2019	13:40	41.62	18.5	6.84	5.1	56	183	1,751	62	1.0		16	7	
WOO-MW1	11/14/2019	10:27	40.38									2.4			
WOO-MW1	11/14/2019	10:30		18.2	6.86	5.1	66	229	1,698		1.0		3		
WOO-MW1	11/14/2019	10:33		18.3	6.93	4.8	59	225	1,694		1.0		6		
WOO-MW1	11/14/2019	10:36		18.2	6.91	5.1	63	223	1,696		1.0		9		
WOO-MW1	11/14/2019	10:39		18.2	6.90	4.9	59	222	1,698		1.0		12		
WOO-MW1	11/14/2019	10:42	40.86	18.2	6.88	4.9	59	221	1,696	35	1.0		15	6.2	
WOO-MW2	2/25/2019	14:00	36.43									2.89			
WOO-MW2	2/25/2019	14:06		17.1	7.40	5.6	60	134	958		0.5		3		
WOO-MW2	2/25/2019	14:12		17.1	7.33	5.5	60	132	960		0.5		6		
WOO-MW2	2/25/2019	14:18		17.1	7.30	5.5	60	131	962		0.5		9		
WOO-MW2	2/25/2019	14:24		17.0	7.28	5.5	60	127	970		0.5		12		
WOO-MW2	2/25/2019	14:30	36.48	17.0	7.25	5.6	60	121	974	10	0.5		15	5.2	
WOO-MW2	5/29/2019	9:40	34.98									3.13			
WOO-MW2	5/29/2019	9:44		19.0	7.36	3.4	41	94	913		1.0		4		
WOO-MW2	5/29/2019	9:47		18.5	7.18	3.6	43	98	918		1.0		7		
WOO-MW2	5/29/2019	9:50		18.3	7.14	3.6	44	100	920		1.0		10		
WOO-MW2	5/29/2019	9:53		18.3	7.14	3.7	44	101	925		1.0		13		
WOO-MW2	5/29/2019	9:56	35.33	18.5	7.14	3.7	44	103	934	37	1.0		16	5.1	
WOO-MW2	8/14/2019	13:58	38.22									2.6			
WOO-MW2	8/14/2019	14:01		18.6	7.38	5.4	60	191	1,154		1.0		3		
WOO-MW2	8/14/2019	14:04		18.4	7.18	5.6	63	187	1,161		1.0		6		
WOO-MW2	8/14/2019	14:08		18.4	7.16	5.5	60	187	1,158		1.0		10		
WOO-MW2	8/14/2019	14:11		18.3	7.12	5.7	62	187	1,158		1.0		13		
WOO-MW2	8/14/2019	14:14	38.35	18.4	7.11	5.5	60	186	1,163	23	1.0		16	6.2	
WOO-MW2	11/14/2019	10:55	38.23									2.6			
WOO-MW2	11/14/2019	10:58		18.3	7.16	6.8	82	252	1,167		1.0		3		
WOO-MW2	11/14/2019	11:01		18.0	7.15	6.9	83	246	1,159		1.0		6		
WOO-MW2	11/14/2019	11:04		18.0	7.13	6.8	82	242	1,156		1.0		9		
WOO-MW2	11/14/2019	11:07		18.0	7.11	6.8	82	239	1,154		1.0		12		
WOO-MW2	11/14/2019	11:10	38.56	18.0	7.12	6.9	83	238	1,153	21	1.0		15	5.8	
WOO-MW3	2/25/2019	13:10	37.53									3.38			
WOO-MW3	2/25/2019	13:17		17.4	6.61	5.7	62	160	1,562		0.5		3.5		
WOO-MW3	2/25/2019	13:24		17.3	6.78	5.8	63	150	1,562		0.5		7		
WOO-MW3	2/25/2019	13:31		17.4	6.90	5.7	63	147	1,562		0.5		10.5		
WOO-MW3	2/25/2019	13:38		17.3	6.95	5.7	62	134	1,560		0.5		14		
WOO-MW3	2/25/2019	13:45	37.65	17.3	6.97	5.7	62	129	1,560	12	0.5		17.5	5.2	

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
WOO-MW3	5/29/2019	10:09	36.89									3.48			
WOO-MW3	5/29/2019	10:12		18.3	7.00	3.6	44	107	1,412		1.0		3		
WOO-MW3	5/29/2019	10:16		18.2	6.81	3.9	46	114	1,401		1.0		7		
WOO-MW3	5/29/2019	10:19		18.2	6.80	3.9	46	115	1,398		1.0		10		
WOO-MW3	5/29/2019	10:23		18.1	6.82	3.9	48	114	1,400		1.0		14		
WOO-MW3	5/29/2019	10:27	36.98	18.2	6.82	3.9	46	116	1,402	23	1.0		18	5.2	
WOO-MW3	8/14/2019	12:55	39.97									2.98			
WOO-MW3	8/14/2019	12:58		18.7	6.65	5.5	62	180	1,390		1.0		3		
WOO-MW3	8/14/2019	13:01		18.1	6.85	5.7	62	185	1,385		1.0		6		
WOO-MW3	8/14/2019	13:05		18.1	6.91	5.5	62	190	1,395		1.0		10		
WOO-MW3	8/14/2019	13:08		18.1	6.91	5.7	62	181	1,392		1.0		13		
WOO-MW3	8/14/2019	13:11	39.97	18.1	6.92	5.4	58	176	1,398	10	1.0		16	5.4	
WOO-MW3	11/14/2019	10:00	38.88									3.16			
WOO-MW3	11/14/2019	10:03		18.2	6.96	5.0	66	260	1,340		1.0		3		
WOO-MW3	11/14/2019	10:06		17.8	6.93	5.2	67	251	1,330		1.0		6		
WOO-MW3	11/14/2019	10:09		17.7	6.96	5.3	65	242	1,326		1.0		9		
WOO-MW3	11/14/2019	10:12		17.7	6.96	5.4	68	237	1,325		1.0		12		
WOO-MW3	11/14/2019	10:15	38.95	17.7	6.97	5.3	72	234	1,325	5	1.0		15	4.7	

Central Area-West Side

ANT-MW1d	2/26/2019	14:11	27.31									1.47			
ANT-MW1d	2/26/2019	14:13		18.6	7.10	2.8	40	107	2,016		1.0		2		
ANT-MW1d	2/26/2019	14:16		18.9	7.02	2.7	40	112	2,004		0.5		3.5		
ANT-MW1d	2/26/2019	14:19		19.1	7.11	2.7	41	129	1,998		0.5		5		
ANT-MW1d	2/26/2019	14:22		18.8	7.09	2.9	43	123	1,996		0.5		6.5		
ANT-MW1d	2/26/2019	14:25	28.29	18.5	7.27	2.6	41	134	1,987	21	0.5		8	5.4	
ANT-MW1d	5/23/2019	9:27	26.50									1.6			
ANT-MW1d	5/23/2019	9:29		20.9	6.93	2.7	35	131	2,149		1.0		2		
ANT-MW1d	5/23/2019	9:31		21.5	6.73	2.6	32	131	2,179		1.0		4		
ANT-MW1d	5/23/2019	9:33		21.8	6.67	2.5	32	132	2,174		1.0		6		
ANT-MW1d	5/23/2019	9:35		21.6	6.68	2.6	35	132	2,186		1.0		8		
ANT-MW1d	5/23/2019	9:37	29.92	21.9	6.79	2.6	35	142	2,181	5	1.0		10	6.2	
ANT-MW1d	8/15/2019	14:32	22.41									2.27			
ANT-MW1d	8/15/2019	14:35		24.4	7.05	2.5	28	115	2,803		1.0		3		
ANT-MW1d	8/15/2019	14:38		22.3	6.80	2.2	24	112	3,016		1.0		6		
ANT-MW1d	8/15/2019	14:43		21.7	6.79	2.4	26	112	3,003		0.5		8.5		
ANT-MW1d	8/15/2019	14:48		22.6	6.81	2.8	31	109	3,009		0.5		11		
ANT-MW1d	8/15/2019	14:53	23.26	21.7	6.87	2.3	25	108	2,947	13	0.5		13.5	5.9	
ANT-MW1d	11/14/2019	8:43	23.10									2.15			
ANT-MW1d	11/14/2019	8:48		18.7	6.47	2.4	37	206	2,186		0.5		2.5		
ANT-MW1d	11/14/2019	8:53		19.4	6.76	1.7	32	203	2,221		0.5		5		
ANT-MW1d	11/14/2019	8:58		19.6	6.85	1.8	33	185	2,219		0.5		8		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
ANT-MW1d	11/14/2019	9:03		19.7	6.85	1.9	35	176	2,214		0.5		10.5		
ANT-MW1d	11/14/2019	9:08	23.68	19.4	6.90	1.8	33	163	2,212	24	0.5		13	6	
ANT-MW2s	5/23/2019	9:49	27.14									0.97			
ANT-MW2s	5/23/2019	9:51		22.4	7.06	3.7	47	135	2,778		0.5		1		
ANT-MW2s	5/23/2019	9:53		23.1	6.87	3.5	49	149	2,921		0.5		2		
ANT-MW2s	5/23/2019	9:55		22.7	6.91	3.3	44	143	3,017		0.5		3		
ANT-MW2s	5/23/2019	9:59		22.7	6.97	3.3	42	155	2,994		0.5		5		
ANT-MW2s	5/23/2019	10:01	27.93	22.3	6.95	3.3	42	150	2,931	35	0.5		6	6.2	
ANT-MW2s	8/15/2019	15:03	24.86									1.35			
ANT-MW2s	8/15/2019	15:06		23.7	7.59	3.6	42	121	2,420		0.5		1.5		
ANT-MW2s	8/15/2019	15:09		22.6	7.23	3.2	38	118	2,286		0.5		3		
ANT-MW2s	8/15/2019	15:12		23.2	7.14	3.3	38	116	2,278		0.5		4.5		
ANT-MW2s	8/15/2019	15:15		23.0	7.11	3.3	38	130	2,277		0.5		6		
ANT-MW2s	8/15/2019	15:19	25.41	22.5	7.34	3.3	38	137	2,263	11	0.5		8	5.9	
ANT-MW2s	11/14/2019	9:16	25.70									1.21			
ANT-MW2s	11/14/2019	9:19		20.2	7.32	2.4	34	138	2,814		0.5		1.5		
ANT-MW2s	11/14/2019	9:22		20.0	7.11	1.9	28	137	2,791		0.5		3		
ANT-MW2s	11/14/2019	9:25		20.3	7.27	2.0	29	143	2,686		0.5		4.5		
ANT-MW2s	11/14/2019	9:28		20.5	7.09	2.0	29	143	2,582		0.5		6		
ANT-MW2s	11/14/2019	9:32	26.14	20.5	7.08	2.4	35	135	2,534	28	0.5		10	8.3	
ANT-MW3s	2/26/2019	13:51	28.41									0.8			
ANT-MW3s	2/26/2019	13:53		18.9	7.23	3.0	43	101	2,262		0.5		1		
ANT-MW3s	2/26/2019	13:55		18.5	7.41	2.9	42	42	2,245		0.5		2		
ANT-MW3s	2/26/2019	13:57		19.0	7.19	3.1	44	56	2,255		0.5		3		
ANT-MW3s	2/26/2019	14:00		19.0	7.17	2.8	43	74	2,243		0.5		4.5		
ANT-MW3s	2/26/2019	14:02	28.89	19.0	7.00	2.6	41	86	2,238	7	0.5		5.5	6.9	
ANT-MW3s	5/23/2019	10:39	27.40									0.96			
ANT-MW3s	5/23/2019	10:41		21.5	7.60	3.5	44	146	2,387		0.5		1		
ANT-MW3s	5/23/2019	10:43		22.2	7.40	3.2	40	150	2,412		0.5		2		
ANT-MW3s	5/23/2019	10:46		21.9	7.27	2.9	36	157	2,415		0.5		3.5		
ANT-MW3s	5/23/2019	10:48		21.7	7.19	2.9	35	148	2,452		0.5		4.5		
ANT-MW3s	5/23/2019	10:50	27.96	20.1	7.09	2.9	36	138	2,444	4	0.5		5.5	5.7	1
ANT-MW3s	8/15/2019	15:55	24.28									1.47			
ANT-MW3s	8/15/2019	15:58		29.7	7.51	4.0	47	104	2,017		0.5		1.5		
ANT-MW3s	8/15/2019	16:01		28.9	7.24	3.8	44	105	2,005		0.5		3		
ANT-MW3s	8/15/2019	16:04		26.9	7.31	3.9	46	109	1,982		0.5		4.5		
ANT-MW3s	8/15/2019	16:07		25.9	7.35	3.7	42	115	1,989		0.5		6		
ANT-MW3s	8/15/2019	16:10	24.76	25.7	7.28	3.8	44	111	1,974	3	0.5		7.5	5.1	
ANT-MW3s	11/14/2019	10:04	25.35									1.3			
ANT-MW3s	11/14/2019	10:07		19.4	7.21	2.6	37	129	2,267		0.5		1.5		
ANT-MW3s	11/14/2019	10:10		19.6	7.10	2.0	32	128	2,449		0.5		3		
ANT-MW3s	11/14/2019	10:14		19.6	7.13	2.0	32	128	2,444		0.5		5		
ANT-MW3s	11/14/2019	10:17		19.6	7.03	1.7	29	124	2,427		0.5		6.5		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
ANT-MW3s	11/14/2019	10:20	25.84	19.6	7.06	1.7	29	121	2,413	5	0.5		8	6.2	
ANT-MW4s	2/26/2019	13:33	28.48									0.84			
ANT-MW4s	2/26/2019	13:35		18.9	7.33	4.5	58	130	2,060		0.5		1		
ANT-MW4s	2/26/2019	13:37		19.7	7.05	4.0	53	132	2,044		0.5		2		
ANT-MW4s	2/26/2019	13:39		19.2	7.12	3.8	51	122	2,032		0.5		3		
ANT-MW4s	2/26/2019	13:42		19.3	7.03	3.7	50	120	2,003		0.5		4.5		
ANT-MW4s	2/26/2019	13:44	29.12	19.6	6.99	3.7	49	119	1,999	13	0.5		5.5	6.5	
ANT-MW4s	5/23/2019	10:12	27.34									1.03			
ANT-MW4s	5/23/2019	10:14		21.4	7.24	3.8	47	130	2,234		0.5		1		
ANT-MW4s	5/23/2019	10:19		21.5	6.83	3.4	44	125	2,213		0.25		2.25		
ANT-MW4s	5/23/2019	10:24		21.3	6.83	3.3	41	124	2,218		0.25		3.25		
ANT-MW4s	5/23/2019	10:28		21.2	6.88	3.5	44	138	2,189		0.25		4.25		
ANT-MW4s	5/23/2019	10:32	28.22	21.2	7.17	3.5	44	145	2,177	16	0.25		5.25	5.1	
ANT-MW4s	8/15/2019	15:27	24.80									1.44			
ANT-MW4s	8/15/2019	15:30		28.1	7.69	3.0	32	84	2,163		0.5		1.5		
ANT-MW4s	8/15/2019	15:33		27.3	7.40	2.8	30	91	2,113		0.5		3		
ANT-MW4s	8/15/2019	15:36		27.6	7.19	2.9	30	89	2,070		0.5		4.5		
ANT-MW4s	8/15/2019	15:39		27.1	7.18	3.0	32	88	2,033		0.5		6		
ANT-MW4s	8/15/2019	15:42	25.69	26.7	7.17	3.0	32	87	2,010	5	0.5		7.5	5.2	
ANT-MW4s	11/14/2019	9:40	25.81									1.28			
ANT-MW4s	11/14/2019	9:43		19.3	7.36	2.7	38	141	2,393		0.5		1.5		
ANT-MW4s	11/14/2019	9:46		19.5	7.02	2.5	35	150	2,307		0.5		3		
ANT-MW4s	11/14/2019	9:49		19.6	7.22	2.7	38	141	2,247		0.5		4.5		
ANT-MW4s	11/14/2019	9:52		19.8	7.09	2.5	36	135	2,175		0.5		6		
ANT-MW4s	11/14/2019	9:56	26.44	19.8	7.12	2.7	38	127	2,149	9	0.5		8	6.2	
ANT-MW5s	5/23/2019	8:58	29.25									0.73			
ANT-MW5s	5/23/2019	9:01		19.9	6.75	2.4	36	181	1,412		0.25		0.75		
ANT-MW5s	5/23/2019	9:04		20.2	6.68	2.3	32	170	1,398		0.25		1.5		
ANT-MW5s	5/23/2019	9:07		20.2	6.82	2.2	31	162	1,396		0.25		2.25		
ANT-MW5s	5/23/2019	9:10		19.8	6.74	2.1	30	150	1,393		0.25		3		
ANT-MW5s	5/23/2019	9:14	29.43	19.9	6.75	2.1	31	144	1,407	10	0.25		4	5.5	
ANT-MW5s	8/15/2019	14:09	24.94									1.44			
ANT-MW5s	8/15/2019	14:12		22.7	7.92	2.5	30	94	1,853		0.5		1.5		
ANT-MW5s	8/15/2019	14:15		24.1	7.14	2.5	29	113	1,869		0.5		3		
ANT-MW5s	8/15/2019	14:18		22.1	7.15	2.2	26	108	1,867		0.5		4.5		
ANT-MW5s	8/15/2019	14:22		23.7	7.09	2.1	25	103	1,877		0.5		6.5		
ANT-MW5s	8/15/2019	14:25	25.18	23.8	7.10	2.0	21	92	1,879	6	0.5		8	5.6	
ANT-MW5s	11/14/2019	8:19	24.92									1.44			
ANT-MW5s	11/14/2019	8:21		18.0	7.10	2.4	35	152	2,138		0.5		1.5		
ANT-MW5s	11/14/2019	8:24		19.1	7.03	2.6	37	151	2,126		0.5		3		
ANT-MW5s	11/14/2019	8:28		18.9	7.05	3.1	44	150	2,115		0.5		5		
ANT-MW5s	11/14/2019	8:31		19.2	7.16	2.3	36	148	2,140		0.5		6.5		
ANT-MW5s	11/14/2019	8:34	26.04	19.4	7.05	2.1	34	144	2,147	8	0.5		8	5.6	

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
ANT-MW6s	2/26/2019	14:35	24.40									1.42			
ANT-MW6s	2/26/2019	14:38		17.8	7.90	6.3	73	190	1,522		0.5		1.5		
ANT-MW6s	2/26/2019	14:41		18.3	7.31	5.3	65	176	1,511		0.5		3		
ANT-MW6s	2/26/2019	14:44		18.4	7.29	5.5	67	165	1,509		0.5		4.5		
ANT-MW6s	2/26/2019	14:47		18.4	7.24	4.8	61	159	1,511		0.5		6		
ANT-MW6s	2/26/2019	14:51	24.46	18.1	7.26	5.6	67	153	1,512	27	0.5		8	5.6	
ANT-MW6s	5/23/2019	10:58	24.04									1.48			
ANT-MW6s	5/23/2019	11:01		22.7	7.26	4.9	60	119	2,209		0.5		1.5		
ANT-MW6s	5/23/2019	11:04		21.3	7.09	4.7	57	123	2,029		0.5		3		
ANT-MW6s	5/23/2019	11:07		21.5	7.07	4.7	56	129	1,978		0.5		4.5		
ANT-MW6s	5/23/2019	11:11		22.1	7.07	4.6	55	129	1,918		0.5		6.5		
ANT-MW6s	5/23/2019	11:14	24.19	22.4	7.03	4.3	52	133	1,829	9	0.5		8	5.4	
ANT-MW6s	8/15/2019	16:19	19.52									2.22			
ANT-MW6s	8/15/2019	16:22		27.8	7.63	3.3	35	105	2,001		1.0		3		
ANT-MW6s	8/15/2019	16:25		26.5	7.46	3.2	35	104	1,984		1.0		6		
ANT-MW6s	8/15/2019	16:28		26.1	7.38	3.5	38	103	1,968		1.0		9		
ANT-MW6s	8/15/2019	16:31		25.5	7.23	3.2	35	101	1,952		1.0		12		
ANT-MW6s	8/15/2019	16:36	19.71	25.8	7.20	3.0	33	100	1,957	2	0.5		14.5	6.5	
ANT-MW6s	11/14/2019	10:31	20.43									2.07			
ANT-MW6s	11/14/2019	10:34		19.8	7.34	5.1	61	124	2,021		1.0		3		
ANT-MW6s	11/14/2019	10:37		19.9	7.24	5.1	62	127	2,035		1.0		6		
ANT-MW6s	11/14/2019	10:40		19.9	7.22	4.8	59	130	2,044		1.0		9		
ANT-MW6s	11/14/2019	10:43		19.8	7.19	5.0	59	131	2,048		1.0		12		
ANT-MW6s	11/14/2019	10:46	20.56	19.9	7.19	5.1	62	133	2,052	31	1.0		15	7.2	
COR-MW1s	3/1/2019	10:39	5.72									2.02			
COR-MW1s	3/1/2019	10:42		18.4	7.65	3.1	45	170	4,975		1.0		3		
COR-MW1s	3/1/2019	10:44		19.0	7.41	2.4	36	171	4,941		1.0		5		
COR-MW1s	3/1/2019	10:46		19.4	7.30	2.4	36	166	4,918		1.0		7		
COR-MW1s	3/1/2019	10:48		19.4	7.28	2.3	35	161	4,896		1.0		9		
COR-MW1s	3/1/2019	10:50	6.43	19.6	7.23	2.3	35	156	4,879	2	1.0		11	5.4	
COR-MW1s	5/22/2019	9:30	7.25									1.77			
COR-MW1s	5/22/2019	9:32		20.1	7.22	1.6	19	152	4,965		1.0		2		
COR-MW1s	5/22/2019	9:34		20.2	7.20	0.6	8	150	4,911		1.0		4		
COR-MW1s	5/22/2019	9:36		20.2	7.17	0.8	12	152	4,856		1.0		6		
COR-MW1s	5/22/2019	9:38		20.2	7.18	0.8	12	152	4,839		1.0		8		
COR-MW1s	5/22/2019	9:40	7.63	20.3	7.17	0.8	13	151	4,815	1	1.0		10	5.6	
COR-MW1s	8/21/2019	10:30	6.97									1.81			
COR-MW1s	8/21/2019	10:32		21.8	7.54	2.2	24	103	3,942		1.0		2		
COR-MW1s	8/21/2019	10:34		21.6	7.35	1.6	20	89	3,952		1.0		4		
COR-MW1s	8/21/2019	10:36		21.8	7.28	1.7	23	78	3,996		1.0		6		
COR-MW1s	8/21/2019	10:38		21.5	7.29	1.7	24	75	4,015		1.0		8		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
COR-MW1s	8/21/2019	10:40	7.38	21.6	7.30	1.8	25	77	4,022	2	1.0		10	5.5	
COR-MW1s	11/14/2019	12:30	7.64									1.7			
COR-MW1s	11/14/2019	12:34		21.5	7.59	2.5	34	130	4,328		0.5		2		
COR-MW1s	11/14/2019	12:38		21.6	7.50	1.3	25	119	4,458		0.5		4		
COR-MW1s	11/14/2019	12:42		21.5	7.37	0.9	20	117	4,499		0.5		6		
COR-MW1s	11/14/2019	12:46		21.4	7.34	0.9	21	135	4,504		0.5		8		
COR-MW1s	11/14/2019	12:51	8.10	21.5	7.52	0.9	20	124	4,491	3	0.5		10.5	6.2	
COR-MW2s	3/1/2019	11:58	5.29									1.93			
COR-MW2s	3/1/2019	12:02		17.1	7.69	2.4	40	155	2,604		0.5		2		
COR-MW2s	3/1/2019	12:06		17.4	7.33	2.4	40	160	2,374		0.5		4		
COR-MW2s	3/1/2019	12:10		17.2	7.27	2.2	39	156	2,398		0.5		6		
COR-MW2s	3/1/2019	12:14		17.3	7.24	2.2	39	152	2,421		0.5		8		
COR-MW2s	3/1/2019	12:18	6.88	17.1	7.24	2.4	41	149	2,444	17	0.5		10	5.2	
COR-MW2s	5/22/2019	9:55	6.26									1.76			
COR-MW2s	5/22/2019	9:57		20.3	7.29	1.3	17	173	2,033		1.0		2		
COR-MW2s	5/22/2019	9:59		20.2	7.21	0.6	11	160	1,986		1.0		4		
COR-MW2s	5/22/2019	10:01		19.9	7.18	0.5	10	155	1,993		1.0		6		
COR-MW2s	5/22/2019	10:03		20.0	7.19	0.6	11	147	1,989		1.0		8		
COR-MW2s	5/22/2019	10:05	6.36	19.8	7.18	0.6	11	144	1,996	2	1.0		10	5.7	
COR-MW2s	8/21/2019	10:48	5.41									1.9			
COR-MW2s	8/21/2019	10:50		22.0	7.63	2.2	29	123	2,179		1.0		2		
COR-MW2s	8/21/2019	10:52		21.8	7.23	1.6	24	102	2,180		1.0		4		
COR-MW2s	8/21/2019	10:54		21.8	7.19	1.6	25	88	2,184		1.0		6		
COR-MW2s	8/21/2019	10:56		21.6	7.18	1.8	27	85	2,189		1.0		8		
COR-MW2s	8/21/2019	10:58	5.50	21.6	7.16	1.6	24	82	2,192	2	1.0		10	5.3	
COR-MW2s	11/14/2019	12:59	6.63									1.71			
COR-MW2s	11/14/2019	13:01		19.7	7.74	3.4	46	137	3,835		1.0		2		
COR-MW2s	11/14/2019	13:04		20.8	7.44	2.2	35	138	2,178		1.0		5		
COR-MW2s	11/14/2019	13:06		21.0	7.36	1.9	31	137	2,140		1.0		7		
COR-MW2s	11/14/2019	13:08		20.7	7.30	1.0	23	134	2,133		1.0		9		
COR-MW2s	11/14/2019	13:10	6.78	20.9	7.33	1.1	24	132	2,148	2	1.0		11	6.4	
COR-MW3s	3/1/2019	12:26	6.28									1.86			
COR-MW3s	3/1/2019	12:28		17.9	7.27	2.6	42	155	2,659		1.0		2		
COR-MW3s	3/1/2019	12:32		19.1	7.17	2.3	39	154	2,831		0.5		4		
COR-MW3s	3/1/2019	12:36		19.0	7.15	2.5	42	151	2,813		0.5		6		
COR-MW3s	3/1/2019	12:41		19.6	7.13	2.3	39	150	2,816		0.5		8.5		
COR-MW3s	3/1/2019	12:45	6.39	19.5	7.13	2.1	37	148	2,813	4	0.5		10.5	5.6	
COR-MW3s	5/22/2019	10:12	7.39									1.68			
COR-MW3s	5/22/2019	10:14		20.1	7.13	0.7	12	157	2,388		1.0		2		
COR-MW3s	5/22/2019	10:16		19.7	7.11	0.6	12	159	2,397		1.0		4		
COR-MW3s	5/22/2019	10:18		19.8	7.13	0.6	12	157	2,391		1.0		6		
COR-MW3s	5/22/2019	10:20		19.9	7.10	0.6	11	153	2,390		1.0		8		
COR-MW3s	5/22/2019	10:22	7.47	20.0	7.10	0.7	12	151	2,386	1	1.0		10	6	

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
COR-MW3s	8/21/2019	11:05	6.15									1.88			
COR-MW3s	8/21/2019	11:07		22.9	7.18	2.0	28	115	2,455		1.0		2		
COR-MW3s	8/21/2019	11:09		22.7	7.12	1.8	26	105	2,461		1.0		4		
COR-MW3s	8/21/2019	11:11		22.7	7.09	1.8	26	86	2,460		1.0		6		
COR-MW3s	8/21/2019	11:13		22.7	7.10	1.8	26	84	2,457		1.0		8		
COR-MW3s	8/21/2019	11:15	6.28	22.6	7.08	1.9	26	81	2,454	2	1.0		10	5.3	
COR-MW3s	11/14/2019	13:19	7.60									1.65			
COR-MW3s	11/14/2019	13:22		22.7	7.41	1.5	31	128	2,364		1.0		3		
COR-MW3s	11/14/2019	13:26		22.9	7.26	1.2	26	128	2,359		0.5		5		
COR-MW3s	11/14/2019	13:30		22.7	7.22	1.0	20	127	2,343		0.5		7		
COR-MW3s	11/14/2019	13:34		23.0	7.22	0.9	20	126	2,350		0.5		9		
COR-MW3s	11/14/2019	13:38	7.69	23.0	7.22	0.8	17	125	2,349	3	0.5		11	6.7	
COR-MW4s	3/1/2019	10:59	5.30									1.94			
COR-MW4s	3/1/2019	11:03		18.9	7.60	2.6	38	159	3,230		0.5		2		
COR-MW4s	3/1/2019	11:07		18.8	7.30	2.3	36	163	2,760		0.5		4		
COR-MW4s	3/1/2019	11:11		18.7	7.26	2.2	35	161	2,760		0.5		6		
COR-MW4s	3/1/2019	11:15		18.7	7.23	2.0	34	159	2,792		0.5		8		
COR-MW4s	3/1/2019	11:20	6.26	18.7	7.21	2.0	34	156	2,813	2	0.5		10.5	5.4	
COR-MW4s	5/22/2019	9:07	6.52									1.74			
COR-MW4s	5/22/2019	9:09		20.2	7.16	1.0	17	133	2,435		1.0		2		
COR-MW4s	5/22/2019	9:10		20.7	7.17	0.9	16	128	2,327		1.0		3		
COR-MW4s	5/22/2019	9:12		20.7	7.18	0.7	15	126	2,291		1.0		5		
COR-MW4s	5/22/2019	9:14		20.6	7.23	0.8	16	126	2,278		1.0		7		
COR-MW4s	5/22/2019	9:16	6.78	20.8	7.17	0.7	14	127	2,256	1	1.0		9	5.2	
COR-MW4s	8/21/2019	10:09	5.40									1.92			
COR-MW4s	8/21/2019	10:11		23.6	7.37	2.0	26	102	2,214		1.0		2		
COR-MW4s	8/21/2019	10:13		23.8	7.20	1.8	23	74	2,185		1.0		4		
COR-MW4s	8/21/2019	10:15		23.8	7.19	1.7	23	70	2,187		1.0		6		
COR-MW4s	8/21/2019	10:17		23.8	7.18	1.7	23	66	2,187		1.0		8		
COR-MW4s	8/21/2019	10:19	5.93	23.8	7.18	1.7	23	67	2,187	2	1.0		10	5.2	
COR-MW4s	11/14/2019	12:01	6.75									1.71			
COR-MW4s	11/14/2019	12:05		22.1	7.51	1.1	21	93	2,348		0.5		2		
COR-MW4s	11/14/2019	12:09		22.8	7.37	0.8	18	93	2,327		0.5		4		
COR-MW4s	11/14/2019	12:14		23.0	7.30	0.8	19	92	2,329		0.5		6.5		
COR-MW4s	11/14/2019	12:18		22.9	7.26	0.9	20	90	2,345		0.5		8.5		
COR-MW4s	11/14/2019	12:22	7.19	23.0	7.28	0.9	20	90	2,342	3	0.5		10.5	6.1	
COR-MW5s	3/1/2019	11:26	5.55									1.9			
COR-MW5s	3/1/2019	11:30		18.0	7.58	2.6	41	146	4,457		0.5		2		
COR-MW5s	3/1/2019	11:34		17.5	7.61	2.1	36	145	4,834		0.5		4		
COR-MW5s	3/1/2019	11:38		17.8	7.56	2.0	35	144	4,851		0.5		6		
COR-MW5s	3/1/2019	11:42		18.1	7.50	1.9	34	144	4,725		0.5		8		
COR-MW5s	3/1/2019	11:45	13.31	18.4	7.49	1.9	33	142	4,569	7	0.5		11	5.8	

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
COR-MW5s	5/22/2019	8:44	6.83									1.69			
COR-MW5s	5/22/2019	8:46		18.8	7.41	2.2	32	124	4,465		1.0		2		
COR-MW5s	5/22/2019	8:48		20.3	7.34	1.3	21	96	4,082		1.0		4		
COR-MW5s	5/22/2019	8:50		20.6	7.36	0.9	17	56	4,084		1.0		6		
COR-MW5s	5/22/2019	8:51		20.5	7.34	0.9	16	50	4,046		1.0		7		
COR-MW5s	5/22/2019	8:53	9.60	20.4	7.35	0.8	16	55	3,966	7	1.0		9	5.3	
COR-MW5s	8/21/2019	9:53	5.63									1.88			
COR-MW5s	8/21/2019	9:55		24.5	7.24	2.0	21	99	2,889		1.0		2		
COR-MW5s	8/21/2019	9:57		23.9	7.16	1.8	19	97	2,953		1.0		4		
COR-MW5s	8/21/2019	9:59		23.0	7.19	1.8	21	89	3,411		1.0		6		
COR-MW5s	8/21/2019	10:01		22.9	7.21	1.7	21	83	3,418		1.0		8		
COR-MW5s	8/21/2019	10:03	10.85	22.8	7.21	1.8	22	74	3,419	5	1.0		10	5.3	
COR-MW5s	11/14/2019	11:41	7.00									1.66			
COR-MW5s	11/14/2019	11:43		20.8	7.77	4.1	63	152	2,506		1.0		2		
COR-MW5s	11/14/2019	11:46		22.5	7.42	1.8	30	148	3,184		1.0		5		
COR-MW5s	11/14/2019	11:48		22.9	7.27	1.5	28	147	3,205		1.0		7		
COR-MW5s	11/14/2019	11:50		22.8	7.24	1.2	20	144	3,215		1.0		9		
COR-MW5s	11/14/2019	11:52	13.69	22.6	7.22	1.2	21	120	3,196	5	1.0		11	6.6	
FG2-MW1s	3/1/2019	8:52	10.15									1.93			
FG2-MW1s	3/1/2019	8:54		19.1	7.39	2.7	41	147	5,487		1.0		2		
FG2-MW1s	3/1/2019	8:56		18.8	7.21	2.3	39	107	5,441		1.0		4		
FG2-MW1s	3/1/2019	8:58		19.1	7.14	2.3	40	86	5,014		1.0		6		
FG2-MW1s	3/1/2019	9:01		19.2	7.13	2.1	32	66	4,765		1.0		9		
FG2-MW1s	3/1/2019	9:03	14.11	19.2	7.13	2.2	36	54	4,629	11	1.0		11	5.7	
FG2-MW1s	5/23/2019	10:19	9.45									2.04			
FG2-MW1s	5/23/2019	10:21		21.8	7.14	1.1	14	154	4,297		1.0		2		
FG2-MW1s	5/23/2019	10:24		21.5	7.06	0.8	10	119	4,022		1.0		5		
FG2-MW1s	5/23/2019	10:26		21.6	7.05	0.6	8	128	3,963		1.0		7		
FG2-MW1s	5/23/2019	10:28		21.6	7.04	0.6	8	135	3,904		1.0		9		
FG2-MW1s	5/23/2019	10:30	10.63	21.7	7.03	0.6	8	141	3,858	2	1.0		11	5.4	
FG2-MW1s	8/23/2019	13:29	9.88									1.97			
FG2-MW1s	8/23/2019	13:33		25.0	7.06	1.4	10	230	5,159		0.5		2		
FG2-MW1s	8/23/2019	13:37		23.3	7.13	1.1	9	173	4,429		0.5		4		
FG2-MW1s	8/23/2019	13:41		23.4	7.13	1.0	8	152	4,020		0.5		6		
FG2-MW1s	8/23/2019	13:45		23.1	7.11	1.4	12	151	3,995		0.5		8		
FG2-MW1s	8/23/2019	13:49	11.65	22.9	7.11	0.9	7	157	3,933	1	0.5		10	5.1	
FG2-MW1s	11/13/2019	15:00	10.40									1.89			
FG2-MW1s	11/13/2019	15:02		22.8	7.33	1.3	17	179	5,531		1.0		2		
FG2-MW1s	11/13/2019	15:04		23.1	7.06	1.3	17	180	5,442		1.0		4		
FG2-MW1s	11/13/2019	15:07		23.0	7.06	1.3	15	177	4,700		1.0		7		
FG2-MW1s	11/13/2019	15:09		23.1	7.03	1.3	15	177	4,613		1.0		9		
FG2-MW1s	11/13/2019	15:11	11.54	23.1	7.02	1.3	15	176	4,543	3	1.0		11	5.8	

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Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
FG2-MW2s	3/1/2019	7:56	8.29									2.42			
FG2-MW2s	3/1/2019	8:01		14.0	6.77	2.8	46	273	2,099		0.5		2.5		
FG2-MW2s	3/1/2019	8:06		14.3	7.04	2.6	40	229	2,427		0.5		5		
FG2-MW2s	3/1/2019	8:11		15.9	7.10	2.5	40	204	2,831		0.5		7.5		
FG2-MW2s	3/1/2019	8:16		15.6	7.09	2.3	39	185	2,873		0.5		10		
FG2-MW2s	3/1/2019	8:22	9.39	16.0	7.10	2.1	36	173	3,088	15	0.5		13	5.4	3
FG2-MW2s	5/23/2019	9:34	7.27									2.59			
FG2-MW2s	5/23/2019	9:36		20.9	7.11	1.0	15	172	2,863		1.0		2		
FG2-MW2s	5/23/2019	9:39		21.3	7.05	1.1	17	171	2,855		1.0		5		
FG2-MW2s	5/23/2019	9:42		20.5	7.03	0.8	14	172	2,986		1.0		8		
FG2-MW2s	5/23/2019	9:44		20.5	7.01	0.9	16	170	3,006		1.0		10		
FG2-MW2s	5/23/2019	9:47	8.29	20.4	7.01	0.7	14	171	3,011	1	1.0		13	5	
FG2-MW2s	8/23/2019	14:29	6.59									2.7			
FG2-MW2s	8/23/2019	14:32		25.2	7.12	1.1	9	235	2,918		3		3		
FG2-MW2s	8/23/2019	14:35		24.9	7.11	1.1	6	241	2,937		6		6		
FG2-MW2s	8/23/2019	14:38		24.7	7.11	0.9	6	245	2,946		9		9		
FG2-MW2s	8/23/2019	14:41		24.7	7.11	1.4	6	249	2,946		12		12		
FG2-MW2s	8/23/2019	14:44	6.77	24.7	7.12	2.5	23	251	2,955	1	15		15	5.6	
FG2-MW2s	11/13/2019	14:10	7.90									2.49			
FG2-MW2s	11/13/2019	14:13		23.5	7.20	1.4	17	186	2,736		1.0		3		
FG2-MW2s	11/13/2019	14:16		23.7	7.08	1.5	18	187	2,793		1.0		6		
FG2-MW2s	11/13/2019	14:20		23.8	7.02	1.4	17	187	2,813		1.0		10		
FG2-MW2s	11/13/2019	14:23		23.8	7.08	1.4	17	184	2,824		1.0		13		
FG2-MW2s	11/13/2019	14:26	9.31	23.9	7.02	1.4	17	184	2,822	4	1.0		16	6.4	
FG2-MW3s	3/1/2019	8:28	10.90									2.74			
FG2-MW3s	3/1/2019	8:31		19.5	7.18	3.5	52	218	5,183		1.0		3		
FG2-MW3s	3/1/2019	8:34		19.5	7.11	2.5	43	239	5,160		1.0		6		
FG2-MW3s	3/1/2019	8:37		19.7	7.10	2.3	40	231	5,153		1.0		9		
FG2-MW3s	3/1/2019	8:41		19.6	7.08	1.9	33	223	5,158		1.0		13		
FG2-MW3s	3/1/2019	8:44	12.34	19.8	7.06	2.0	34	215	5,130	4	1.0		16	5.8	
FG2-MW3s	5/23/2019	9:55	11.47									2.64			
FG2-MW3s	5/23/2019	9:58		20.9	7.00	0.9	15	184	4,812		1.0		3		
FG2-MW3s	5/23/2019	10:01		21.0	7.02	0.6	11	181	4,815		1.0		6		
FG2-MW3s	5/23/2019	10:04		21.1	6.98	0.8	13	179	4,822		1.0		9		
FG2-MW3s	5/23/2019	10:07		21.1	6.99	0.7	12	176	4,825		1.0		12		
FG2-MW3s	5/23/2019	10:10	12.23	21.1	6.98	0.7	12	176	4,830	1	1.0		15	5.7	
FG2-MW3s	8/23/2019	14:57	10.34									2.8			
FG2-MW3s	8/23/2019	15:00		23.9	7.12	1.2	9	257	4,745		1.0		3		
FG2-MW3s	8/23/2019	15:03		23.4	7.09	1.1	9	261	4,814		1.0		6		
FG2-MW3s	8/23/2019	15:06		23.0	7.10	1.0	8	263	4,828		1.0		9		
FG2-MW3s	8/23/2019	15:09		23.0	7.09	0.8	6	264	4,837		1.0		12		
FG2-MW3s	8/23/2019	15:12	10.83	23.0	7.10	1.0	8	264	4,843	1	1.0		15	5.4	

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
FG2-MW3s	11/13/2019	14:35	11.56									2.63			
FG2-MW3s	11/13/2019	14:38		23.1	7.21	0.9	12	186	4,610		1.0		3		
FG2-MW3s	11/13/2019	14:41		23.1	6.95	0.9	12	184	4,668		1.0		6		
FG2-MW3s	11/13/2019	14:45		23.1	6.93	0.8	10	181	4,672		1.0		10		
FG2-MW3s	11/13/2019	14:48		23.1	6.95	0.8	10	179	4,676		1.0		13		
FG2-MW3s	11/13/2019	14:51	12.28	23.1	6.95	0.8	9	178	4,683	3	1.0		16	6.1	
FG2-MW4s	3/1/2019	9:12	10.60									3			
FG2-MW4s	3/1/2019	9:15		18.8	7.25	2.3	38	66	4,204		1.0		3		
FG2-MW4s	3/1/2019	9:18		19.1	7.09	2.1	35	78	4,140		1.0		6		
FG2-MW4s	3/1/2019	9:21		19.4	7.09	2.0	34	89	4,114		1.0		9		
FG2-MW4s	3/1/2019	9:24		19.5	7.09	2.1	35	97	4,095		1.0		12		
FG2-MW4s	3/1/2019	9:28	12.51	19.6	7.12	2.2	37	105	4,105	5	1.0		16	5.3	
FG2-MW4s	5/23/2019	10:42	8.94									3.27			
FG2-MW4s	5/23/2019	10:45		21.0	7.04	0.8	11	164	3,517		1.0		3		
FG2-MW4s	5/23/2019	10:49		21.2	7.00	0.7	10	163	3,557		1.0		7		
FG2-MW4s	5/23/2019	10:52		21.2	6.99	0.7	9	167	3,568		1.0		10		
FG2-MW4s	5/23/2019	10:55		21.2	7.03	0.8	10	167	3,573		1.0		13		
FG2-MW4s	5/23/2019	10:59	9.70	21.1	7.01	0.6	9	170	3,576	1	1.0		17	5.2	
FG2-MW4s	8/23/2019	14:00	9.00									3.3			
FG2-MW4s	8/23/2019	14:04		24.5	7.12	1.1	9	202	3,464		1.0		4		
FG2-MW4s	8/23/2019	14:08		24.0	7.09	1.1	8	214	3,503		1.0		8		
FG2-MW4s	8/23/2019	14:12		24.1	7.10	1.0	7	220	3,508		1.0		12		
FG2-MW4s	8/23/2019	14:16		24.1	7.08	1.3	10	224	3,513		1.0		16		
FG2-MW4s	8/23/2019	14:20	9.53	24.3	7.10	0.9	6	226	3,512	1	1.0		20	6.1	
FG2-MW4s	11/13/2019	15:17	11.60									2.84			
FG2-MW4s	11/13/2019	15:20		23.6	7.29	1.2	15	174	3,503		1.0		3		
FG2-MW4s	11/13/2019	15:23		23.8	7.00	1.1	14	178	3,456		1.0		6		
FG2-MW4s	11/13/2019	15:27		23.8	6.96	1.1	14	178	3,451		1.0		10		
FG2-MW4s	11/13/2019	15:30		23.9	6.94	1.1	14	177	3,456		1.0		13		
FG2-MW4s	11/13/2019	15:33	12.65	23.9	6.98	1.1	13	177	3,459	3	1.0		16	5.6	
FG2-MW5s	3/1/2019	9:36	5.86									2.44			
FG2-MW5s	3/1/2019	9:39		18.8	7.39	2.4	32	135	2,904		1.0		3		
FG2-MW5s	3/1/2019	9:44		18.8	7.27	2.5	40	132	2,942		0.5		5.5		
FG2-MW5s	3/1/2019	9:49		19.1	7.20	2.2	38	130	3,050		0.5		8		
FG2-MW5s	3/1/2019	9:54		19.1	7.20	2.2	38	128	3,100		0.5		10.5		
FG2-MW5s	3/1/2019	9:59	6.16	19.2	7.18	2.1	36	127	3,141	3	0.5		13	5.3	
FG2-MW5s	5/23/2019	9:07	4.06									2.73			
FG2-MW5s	5/23/2019	9:10		20.3	7.30	1.3	15	104	3,057		1.0		3		
FG2-MW5s	5/23/2019	9:13		20.1	7.11	0.5	9	122	3,127		1.0		6		
FG2-MW5s	5/23/2019	9:16		20.5	7.10	0.7	11	126	3,145		1.0		9		
FG2-MW5s	5/23/2019	9:19		20.1	7.11	0.6	11	129	3,177		1.0		12		
FG2-MW5s	5/23/2019	9:22	4.20	20.1	7.11	0.7	12	135	3,222	1	1.0		15	5.5	
FG2-MW5s	8/23/2019	15:23	16.15									2.6			

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
FG2-MW5s	8/23/2019	15:26		23.2	7.23	0.9	6	265	2,682		1.0		3		
FG2-MW5s	8/23/2019	15:29		23.2	7.21	0.7	6	262	2,736		1.0		6		
FG2-MW5s	8/23/2019	15:32		22.6	7.21	1.0	9	265	2,775		1.0		9		
FG2-MW5s	8/23/2019	15:35		22.7	7.21	0.8	6	265	2,796		1.0		12		
FG2-MW5s	8/23/2019	15:38	4.73	22.6	7.21	1.0	9	266	2,817	1	1.0		15	5.8	
FG2-MW5s	11/13/2019	15:40	4.05									2.73			
FG2-MW5s	11/13/2019	15:43		22.0	7.19	1.0	12	177	3,235		1.0		3		
FG2-MW5s	11/13/2019	15:46		22.0	7.07	0.9	11	178	3,202		1.0		6		
FG2-MW5s	11/13/2019	15:50		22.1	7.06	0.9	11	178	3,187		1.0		10		
FG2-MW5s	11/13/2019	15:53		22.1	7.06	1.0	11	178	3,177		1.0		13		
FG2-MW5s	11/13/2019	15:56	4.25	22.0	7.06	0.9	11	178	3,171	4	1.0		16	5.9	
GOD-MW1s	2/28/2019	12:48	7.80									2.53			
GOD-MW1s	2/28/2019	12:51		19.0	7.83	2.5	36	136	3,046		1.0		3		
GOD-MW1s	2/28/2019	12:54		19.1	7.46	2.2	34	132	2,999		1.0		6		
GOD-MW1s	2/28/2019	12:57		19.1	7.32	2.0	32	143	2,961		1.0		9		
GOD-MW1s	2/28/2019	13:00		19.1	7.41	2.3	35	155	2,940		1.0		12		
GOD-MW1s	2/28/2019	13:03	9.29	19.1	7.46	1.9	31	149	2,913	12	1.0		15	5.9	
GOD-MW1s	5/21/2019	8:32	4.62									3.04			
GOD-MW1s	5/21/2019	8:35		19.1	7.58	1.2	19	124	2,420		1.0		3		
GOD-MW1s	5/21/2019	8:39		19.8	7.50	0.5	13	143	2,432		1.0		7		
GOD-MW1s	5/21/2019	8:42		19.9	7.48	0.6	13	145	2,435		1.0		10		
GOD-MW1s	5/21/2019	8:45		19.8	7.46	0.5	12	146	2,447		1.0		13		
GOD-MW1s	5/21/2019	8:48	5.54	19.8	7.49	0.7	14	148	2,446	30	1.0		16	5.3	
GOD-MW1s	8/14/2019	7:50	6.20									2.79			
GOD-MW1s	8/14/2019	7:53		21.9	7.63	1.2	22	37	2,345		1.0		3		
GOD-MW1s	8/14/2019	7:56		22.4	7.61	1.7	26	61	2,361		1.0		6		
GOD-MW1s	8/14/2019	8:00		22.2	7.61	0.6	15	68	2,383		1.0		10		
GOD-MW1s	8/14/2019	8:02		22.2	7.61	0.6	14	69	2,383		1.0		12		
GOD-MW1s	8/14/2019	8:05	6.79	22.2	7.61	0.6	14	70	2,382	2	1.0		15	5.4	
GOD-MW1s	11/14/2019	8:36	8.74									2.37			
GOD-MW1s	11/14/2019	8:39		20.4	7.48	5.4	66	160	2,305		1.0		3		
GOD-MW1s	11/14/2019	8:41		21.3	7.78	4.3	56	168	2,285		1.0		5		
GOD-MW1s	11/14/2019	8:44		21.3	7.92	1.5	26	186	2,288		1.0		8		
GOD-MW1s	11/14/2019	8:46		21.3	7.99	2.5	36	199	2,293		1.0		10		
GOD-MW1s	11/14/2019	8:48	9.48	21.4	8.02	1.7	28	203	2,288	4	1.0		12	5.1	
GOD-MW2s	2/28/2019	14:02	11.75									2.57			
GOD-MW2s	2/28/2019	14:05		21.4	7.69	2.8	39	115	2,889		1.0		3		
GOD-MW2s	2/28/2019	14:08		21.3	7.67	2.2	32	118	2,934		1.0		6		
GOD-MW2s	2/28/2019	14:12		21.3	7.52	1.8	29	110	3,018		1.0		10		
GOD-MW2s	2/28/2019	14:15		21.2	7.51	1.7	27	107	3,043		1.0		13		
GOD-MW2s	2/28/2019	14:18	12.18	21.3	7.49	1.6	25	149	3,238	3	1.0		16	6.2	3

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Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
GOD-MW2s	5/21/2019	9:36	10.54									2.76			
GOD-MW2s	5/21/2019	9:39		21.5	7.48	0.8	10	180	2,958		1.0		3		
GOD-MW2s	5/21/2019	9:42		21.4	7.45	0.6	9	183	3,110		1.0		6		
GOD-MW2s	5/21/2019	9:45		21.3	7.45	0.6	9	183	3,195		1.0		9		
GOD-MW2s	5/21/2019	9:48		21.3	7.45	0.6	9	185	3,237		1.0		12		
GOD-MW2s	5/21/2019	9:52	10.82	21.3	7.45	0.6	10	185	3,270	6	1.0		16	5.8	
GOD-MW2s	8/14/2019	8:49	10.25									2.81			
GOD-MW2s	8/14/2019	8:52		21.8	7.56	1.1	18	101	2,911		1.0		3		
GOD-MW2s	8/14/2019	8:54		21.8	7.54	0.9	17	98	3,049		1.0		5		
GOD-MW2s	8/14/2019	8:57		21.8	7.54	0.6	14	94	3,165		1.0		8		
GOD-MW2s	8/14/2019	9:00		21.8	7.53	0.8	15	93	3,203		1.0		11		
GOD-MW2s	8/14/2019	9:03	10.58	21.9	7.54	0.5	13	93	3,275	2	1.0		14	5	
GOD-MW2s	11/14/2019	9:31	12.20									2.49			
GOD-MW2s	11/14/2019	9:34		21.4	7.98	2.1	33	224	2,863		1.0		3		
GOD-MW2s	11/14/2019	9:37		21.9	7.91	2.8	39	214	3,009		1.0		6		
GOD-MW2s	11/14/2019	9:39		22.0	7.92	2.3	33	206	3,075		1.0		8		
GOD-MW2s	11/14/2019	9:41		22.0	7.97	3.6	46	200	3,121		1.0		10		
GOD-MW2s	11/14/2019	9:44	12.40	22.0	7.98	1.9	29	198	3,157	3	1.0		13	5.2	
GOD-MW3s	2/28/2019	13:34	12.19									1.72			
GOD-MW3s	2/28/2019	13:38		20.6	7.93	3.5	45	161	3,848		0.5		2		
GOD-MW3s	2/28/2019	13:42		20.9	7.57	2.8	38	133	2,224		0.5		4		
GOD-MW3s	2/28/2019	13:47		21.1	7.32	2.7	37	158	2,153		0.5		6.5		
GOD-MW3s	2/28/2019	13:51		21.1	7.32	2.6	35	130	2,151		0.5		8.5		
GOD-MW3s	2/28/2019	13:55	12.79	21.2	7.20	2.5	34	128	2,164	1	0.5		10.5	6.1	
GOD-MW3s	5/21/2019	9:18	11.22									1.87			
GOD-MW3s	5/21/2019	9:20		21.9	7.16	1.2	16	189	2,259		1.0		2		
GOD-MW3s	5/21/2019	9:22		20.7	7.09	1.2	17	182	2,138		1.0		4		
GOD-MW3s	5/21/2019	9:24		20.5	7.07	1.1	16	176	2,265		1.0		6		
GOD-MW3s	5/21/2019	9:26		20.6	7.07	1.1	16	174	2,280		1.0		8		
GOD-MW3s	5/21/2019	9:28	11.58	20.6	7.08	0.9	14	167	2,310	8	1.0		10	5.3	
GOD-MW3s	8/14/2019	8:34	11.82									1.77			
GOD-MW3s	8/14/2019	8:36		21.7	7.28	3.5	41	97	1,859		1.0		2		
GOD-MW3s	8/14/2019	8:38		21.2	7.21	0.9	16	100	2,028		1.0		4		
GOD-MW3s	8/14/2019	8:39		21.1	7.20	0.8	15	99	2,150		1.0		5		
GOD-MW3s	8/14/2019	8:41		21.1	7.20	1.3	21	99	2,174		1.0		7		
GOD-MW3s	8/14/2019	8:43	12.23	21.0	7.19	1.3	21	99	2,202	1	1.0		9	5.1	
GOD-MW3s	11/14/2019	9:13	13.30									1.53			
GOD-MW3s	11/14/2019	9:15		21.5	7.77	1.6	26	224	1,957		1.0		2		
GOD-MW3s	11/14/2019	9:17		21.6	7.52	2.2	32	221	2,148		1.0		4		
GOD-MW3s	11/14/2019	9:18		21.6	7.45	2.0	30	215	2,255		1.0		5		
GOD-MW3s	11/14/2019	9:20		21.5	7.64	3.7	49	212	2,262		1.0		7		
GOD-MW3s	11/14/2019	9:22	13.62	21.5	7.47	2.6	37	209	2,374	0.79	1.0		9	5.9	
GOD-MW4s	2/28/2019	13:16	10.91									2.01			

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Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
GOD-MW4s	2/28/2019	13:19		21.3	7.49	2.9	39	148	4,090		1.0		3		
GOD-MW4s	2/28/2019	13:21		21.5	7.42	2.2	33	138	4,265		1.0		5		
GOD-MW4s	2/28/2019	13:23		21.6	7.48	2.2	31	173	4,335		1.0		7		
GOD-MW4s	2/28/2019	13:25		21.7	7.44	2.1	27	144	4,377		1.0		9		
GOD-MW4s	2/28/2019	13:27	12.32	21.8	7.38	2.4	34	156	4,392	3	1.0		11	5.5	
GOD-MW4s	5/21/2019	8:58	11.03									1.96			
GOD-MW4s	5/21/2019	9:00		21.9	7.30	1.2	18	173	4,461		1.0		2		
GOD-MW4s	5/21/2019	9:02		22.3	7.30	1.0	15	168	4,416		1.0		4		
GOD-MW4s	5/21/2019	9:05		22.5	7.30	1.0	13	171	4,449		1.0		7		
GOD-MW4s	5/21/2019	9:07		22.5	7.30	1.0	12	164	4,457		1.0		9		
GOD-MW4s	5/21/2019	9:09	11.73	22.6	7.31	0.9	12	166	4,450	14	1.0		11	5.6	
GOD-MW4s	8/14/2019	8:16	11.84									1.85			
GOD-MW4s	8/14/2019	8:18		23.5	7.46	1.1	18	74	4,455		1.0		2		
GOD-MW4s	8/14/2019	8:20		23.5	7.42	0.7	13	81	4,527		1.0		4		
GOD-MW4s	8/14/2019	8:22		23.5	7.41	0.6	12	81	4,546		1.0		6		
GOD-MW4s	8/14/2019	8:24		23.5	7.41	1.0	15	82	4,558		1.0		8		
GOD-MW4s	8/14/2019	8:26	12.58	23.5	7.40	0.4	9	82	4,562	2	1.0		10	5.4	
GOD-MW4s	11/14/2019	8:56	13.27									1.62			
GOD-MW4s	11/14/2019	8:58		22.7	7.82	3.3	44	220	4,351		1.0		2		
GOD-MW4s	11/14/2019	9:00		23.3	7.80	2.2	32	216	4,322		1.0		4		
GOD-MW4s	11/14/2019	9:02		23.2	7.84	2.0	29	212	4,329		1.0		6		
GOD-MW4s	11/14/2019	9:04		23.3	7.87	2.2	31	210	4,333		1.0		8		
GOD-MW4s	11/14/2019	9:06	13.93	23.3	7.83	2.2	32	208	4,334	2	1.0		10	6.2	
GOD-MW5s	2/28/2019	15:10	8.53									3.08			
GOD-MW5s	2/28/2019	15:14		20.1	7.80	2.9	40	187	2,476		1.0		4		
GOD-MW5s	2/28/2019	15:18		20.2	7.56	1.8	30	181	2,447		1.0		8		
GOD-MW5s	2/28/2019	15:23		20.0	7.50	1.8	30	170	2,431		1.0		13		
GOD-MW5s	2/28/2019	15:27		19.8	7.48	1.7	29	161	2,440		1.0		17		
GOD-MW5s	2/28/2019	15:31	9.01	19.7	7.47	2.0	33	153	2,444	2	1.0		21	6.8	
GOD-MW5s	5/21/2019	10:52	7.43									3.25			
GOD-MW5s	5/21/2019	10:55		21.0	7.43	1.1	15	203	2,827		1.0		3		
GOD-MW5s	5/21/2019	10:59		21.0	7.40	0.5	9	194	2,807		1.0		7		
GOD-MW5s	5/21/2019	11:02		20.9	7.39	0.5	8	180	2,775		1.0		10		
GOD-MW5s	5/21/2019	11:05		21.0	7.40	0.5	10	175	2,751		1.0		13		
GOD-MW5s	5/21/2019	11:09	7.65	21.0	7.41	0.6	9	176	2,724	2	1.0		17	5.2	
GOD-MW5s	8/14/2019	9:56	5.50									3.57			
GOD-MW5s	8/14/2019	10:00		22.2	7.59	0.4	8	102	2,400		1.0		4		
GOD-MW5s	8/14/2019	10:04		22.2	7.54	0.4	7	97	2,399		1.0		8		
GOD-MW5s	8/14/2019	10:08		22.1	7.53	0.7	12	94	2,407		1.0		12		
GOD-MW5s	8/14/2019	10:11		22.1	7.53	0.3	8	90	2,408		1.0		15		
GOD-MW5s	8/14/2019	10:14	5.76	22.1	7.53	0.6	11	85	2,409	1	1.0		18	5	
GOD-MW5s	11/14/2019	10:56	8.62									3.06			
GOD-MW5s	11/14/2019	10:59		21.9	8.14	3.8	48	225	2,284		1.0		3		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
GOD-MW5s	11/14/2019	11:02		22.6	8.02	1.5	23	209	2,259		1.0		6		
GOD-MW5s	11/14/2019	11:05		22.7	8.02	2.5	38	198	2,275		1.0		9		
GOD-MW5s	11/14/2019	11:08		22.3	8.04	1.9	29	179	2,281		1.0		12		
GOD-MW5s	11/14/2019	11:12		22.4	8.00	1.7	25	177	2,294	0.72	1.0		16	5.2	
GOD-MW6s	2/28/2019	14:25	8.36									2.67			
GOD-MW6s	2/28/2019	14:28		20.2	7.81	3.2	43	208	3,939		1.0		3		
GOD-MW6s	2/28/2019	14:31		20.3	7.52	2.6	38	179	3,996		1.0		6		
GOD-MW6s	2/28/2019	14:34		20.4	7.47	2.2	34	167	4,045		1.0		9		
GOD-MW6s	2/28/2019	14:37		20.3	7.44	2.0	32	148	4,055		1.0		12		
GOD-MW6s	2/28/2019	14:41	9.78	20.7	7.46	1.8	30	157	4,075	2	1.0		16	6	
GOD-MW6s	5/21/2019	10:04	7.40									2.82			
GOD-MW6s	5/21/2019	10:07		21.0	7.47	0.7	12	197	3,954		1.0		3		
GOD-MW6s	5/21/2019	10:10		20.9	7.40	0.7	12	189	3,933		1.0		6		
GOD-MW6s	5/21/2019	10:13		20.9	7.44	0.7	13	184	3,920		1.0		9		
GOD-MW6s	5/21/2019	10:16		20.9	7.37	0.7	13	182	3,914		1.0		12		
GOD-MW6s	5/21/2019	10:19	8.00	21.1	7.36	0.6	12	173	3,906	4	1.0		15	5.3	
GOD-MW6s	8/14/2019	9:10	7.22									2.85			
GOD-MW6s	8/14/2019	9:13		22.3	7.51	0.7	14	94	3,918		1.0		3		
GOD-MW6s	8/14/2019	9:16		22.3	7.47	0.6	13	87	3,903		1.0		6		
GOD-MW6s	8/14/2019	9:19		22.3	7.46	0.7	14	84	3,895		1.0		9		
GOD-MW6s	8/14/2019	9:22		22.2	7.46	0.8	16	79	3,887		1.0		12		
GOD-MW6s	8/14/2019	9:25	7.83	22.3	7.45	0.8	15	75	3,882	1	1.0		15	5.3	
GOD-MW6s	11/14/2019	9:51	8.93									2.57			
GOD-MW6s	11/14/2019	9:54		22.1	7.96	2.6	37	219	3,702		1.0		3		
GOD-MW6s	11/14/2019	9:57		22.2	7.89	1.5	24	202	3,699		1.0		6		
GOD-MW6s	11/14/2019	10:00		22.1	7.86	1.6	27	189	3,687		1.0		9		
GOD-MW6s	11/14/2019	10:03		22.1	7.87	1.8	28	181	3,678		1.0		12		
GOD-MW6s	11/14/2019	10:05	9.52	22.1	7.89	1.9	30	178	3,674	0.95	1.0		14	5.4	
GOD-MW7s	2/28/2019	14:47	8.25									2.77			
GOD-MW7s	2/28/2019	14:50		20.3	7.51	2.2	34	176	3,672		1.0		3		
GOD-MW7s	2/28/2019	14:53		20.5	7.41	1.9	29	201	3,605		1.0		6		
GOD-MW7s	2/28/2019	14:56		20.6	7.45	1.7	28	177	3,583		1.0		9		
GOD-MW7s	2/28/2019	15:00		20.8	7.41	1.7	28	186	3,572		1.0		13		
GOD-MW7s	2/28/2019	15:03	9.09	20.8	7.49	1.7	27	221	3,562	1	1.0		16	5.8	
GOD-MW7s	5/21/2019	10:27	6.42									3.06			
GOD-MW7s	5/21/2019	10:30		21.0	7.35	0.8	9	189	3,377		1.0		3		
GOD-MW7s	5/21/2019	10:33		21.1	7.34	0.8	10	188	3,380		1.0		6		
GOD-MW7s	5/21/2019	10:36		21.1	7.34	0.8	9	186	3,378		1.0		9		
GOD-MW7s	5/21/2019	10:40		21.2	7.34	0.6	8	184	3,376		1.0		13		
GOD-MW7s	5/21/2019	10:43	6.90	21.2	7.34	0.7	10	183	3,373	3	1.0		16	5.2	
GOD-MW7s	8/14/2019	9:31	6.44									3.06			
GOD-MW7s	8/14/2019	9:34		22.1	7.49	0.6	13	82	3,358		1.0		3		
GOD-MW7s	8/14/2019	9:38		22.0	7.45	0.9	17	83	3,357		1.0		7		

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Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
GOD-MW7s	8/14/2019	9:41		22.0	7.44	0.6	13	82	3,352		1.0		10		
GOD-MW7s	8/14/2019	9:44		22.0	7.44	0.4	12	86	3,352		1.0		13		
GOD-MW7s	8/14/2019	9:47	7.03	22.0	7.44	0.4	12	91	3,349	1	1.0		16	5.2	
GOD-MW7s	11/14/2019	10:25	8.78									2.67			
GOD-MW7s	11/14/2019	10:28		22.0	7.92	1.5	27	225	3,204		1.0		3		
GOD-MW7s	11/14/2019	10:31		22.1	7.83	1.7	29	210	3,233		1.0		6		
GOD-MW7s	11/14/2019	10:34		22.1	7.84	2.1	30	207	3,229		1.0		9		
GOD-MW7s	11/14/2019	10:37		22.2	7.82	2.1	30	206	3,233		1.0		12		
GOD-MW7s	11/14/2019	10:39	9.25	22.2	7.84	2.0	30	204	3,238	0.87	1.0		14	5.2	
MAC-MW1s	2/28/2019	10:39	6.63									1.79			
MAC-MW1s	2/28/2019	10:41		18.0	7.41	3.6	49	83	3,625		1.0		2		
MAC-MW1s	2/28/2019	10:43		18.0	7.48	2.2	35	66	3,481		1.0		4		
MAC-MW1s	2/28/2019	10:45		18.0	7.31	2.1	34	67	3,343		1.0		6		
MAC-MW1s	2/28/2019	10:47		18.0	7.27	1.9	32	98	3,141		1.0		8		
MAC-MW1s	2/28/2019	10:50	8.11	18.0	7.36	2.2	36	79	3,111	2	1.0		11	6.1	
MAC-MW1s	5/21/2019	12:09	8.17									1.53			
MAC-MW1s	5/21/2019	12:11		19.9	7.23	1.0	20	202	2,883		1.0		2		
MAC-MW1s	5/21/2019	12:13		20.0	7.19	0.8	18	203	2,877		1.0		4		
MAC-MW1s	5/21/2019	12:15		20.0	7.25	0.7	16	203	2,875		1.0		6		
MAC-MW1s	5/21/2019	12:17		20.0	7.19	0.7	15	204	2,866		1.0		8		
MAC-MW1s	5/21/2019	12:19	8.65	20.1	7.18	0.7	15	203	2,860	2	1.0		10	6.5	
MAC-MW1s	8/14/2019	11:06	6.22									1.85			
MAC-MW1s	8/14/2019	11:08		23.0	7.42	0.9	6	99	2,736		1.0		2		
MAC-MW1s	8/14/2019	11:10		22.7	7.40	0.5	6	98	2,747		1.0		4		
MAC-MW1s	8/14/2019	11:12		22.4	7.40	0.5	8	96	2,752		1.0		6		
MAC-MW1s	8/14/2019	11:14		22.3	7.39	0.4	8	98	2,750		1.0		8		
MAC-MW1s	8/14/2019	11:16	7.15	22.2	7.38	0.3	8	96	2,742	1	1.0		10	5.4	
MAC-MW1s	11/14/2019	12:45	5.94									1.9			
MAC-MW1s	11/14/2019	12:47		22.5	7.41	1.7	21	130	2,749		1.0		2		
MAC-MW1s	11/14/2019	12:49		22.4	7.21	1.6	19	132	2,694		1.0		4		
MAC-MW1s	11/14/2019	12:52		22.4	7.16	1.6	20	132	2,686		1.0		7		
MAC-MW1s	11/14/2019	12:54		22.4	7.14	1.6	20	132	2,689		1.0		9		
MAC-MW1s	11/14/2019	12:56	6.90	22.4	7.11	1.6	20	132	2,698	3	1.0		11	5.8	
MAC-MW2s	2/28/2019	10:23	6.11									1.89			
MAC-MW2s	2/28/2019	10:25		17.9	7.82	3.3	47	-24	QM		1.0		2		
MAC-MW2s	2/28/2019	10:27		18.4	7.57	2.3	36	-20	QM		1.0		4		
MAC-MW2s	2/28/2019	10:30		18.8	7.46	2.4	37	-13	QM		1.0		7		
MAC-MW2s	2/28/2019	10:32		18.9	7.42	2.2	34	-5	QM		1.0		9		
MAC-MW2s	2/28/2019	10:34	6.89	19.0	7.42	2.1	32	13	QM	2	1.0		11	5.8	
MAC-MW2s	5/21/2019	11:43	7.22									1.71			
MAC-MW2s	5/21/2019	11:45		20.0	7.57	1.7	21	153	3,049		1.0		2		

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Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
MAC-MW2s	5/21/2019	11:47		20.1	7.42	1.0	12	167	3,067		1.0		4		
MAC-MW2s	5/21/2019	11:49		20.1	7.39	0.6	12	175	3,072		1.0		6		
MAC-MW2s	5/21/2019	11:51		20.2	7.31	0.7	14	179	3,112		1.0		8		
MAC-MW2s	5/21/2019	11:53	7.58	20.1	7.20	0.7	14	181	3,158	2	1.0		10	5.8	
MAC-MW2s	8/14/2019	10:42	4.56									2.14			
MAC-MW2s	8/14/2019	10:44		22.5	7.50	0.8	10	163	3,072		1.0		2		
MAC-MW2s	8/14/2019	10:46		22.0	7.24	1.0	14	146	3,121		1.0		4		
MAC-MW2s	8/14/2019	10:49		21.9	7.18	0.4	8	134	3,146		1.0		7		
MAC-MW2s	8/14/2019	10:51		22.0	7.11	0.5	8	129	3,208		1.0		9		
MAC-MW2s	8/14/2019	10:53	4.93	22.0	7.08	0.7	11	121	3,219	1	1.0		11	5.1	
MAC-MW2s	11/14/2019	13:05	6.10									1.89			
MAC-MW2s	11/14/2019	13:07		22.9	7.19	1.7	20	137	3,094		1.0		2		
MAC-MW2s	11/14/2019	13:09		22.7	7.05	1.3	16	139	3,113		1.0		4		
MAC-MW2s	11/14/2019	13:12		22.6	7.00	1.2	14	140	3,134		1.0		7		
MAC-MW2s	11/14/2019	13:14		22.5	6.98	1.2	15	141	3,148		1.0		9		
MAC-MW2s	11/14/2019	13:16	6.56	22.5	6.94	1.2	14	142	3,155	4	1.0		11	5.8	
MAC-MW3s	2/28/2019	11:51	4.89									3.8			
MAC-MW3s	2/28/2019	11:55		18.6	7.41	2.3	31	117	10,520		1.0		4		
MAC-MW3s	2/28/2019	11:59		18.0	7.49	1.6	23	111	9,454		1.0		8		
MAC-MW3s	2/28/2019	12:03		18.2	7.32	1.7	24	98	9,294		1.0		12		
MAC-MW3s	2/28/2019	12:07		18.1	7.29	1.9	28	96	8,955		1.0		16		
MAC-MW3s	2/28/2019	12:12	10.73	18.4	7.39	2.1	32	94	8,840	8	1.0		21	5.5	
MAC-MW3s	5/21/2019	13:43	5.18									3.75			
MAC-MW3s	5/21/2019	13:47		19.6	7.41	1.3	21	233	4,086		1.0		4		
MAC-MW3s	5/21/2019	13:51		19.7	7.34	0.5	12	214	4,437		1.0		8		
MAC-MW3s	5/21/2019	13:55		19.9	7.32	0.6	14	209	4,789		1.0		12		
MAC-MW3s	5/21/2019	13:59		20.0	7.30	0.6	12	200	5,300		1.0		16		
MAC-MW3s	5/21/2019	14:02		20.4	7.28	0.5	12	195	5,609		1.0		19		
MAC-MW3s	5/21/2019	14:05	7.59	19.8	7.27	0.5	13	197	5,894	2	1.0		22	5.9	
MAC-MW3s	8/14/2019	12:22	4.94									3.79			
MAC-MW3s	8/14/2019	12:26		22.4	7.48	0.9	9	99	10,460		1.0		4		
MAC-MW3s	8/14/2019	12:30		22.8	7.33	0.9	14	106	9,840		1.0		8		
MAC-MW3s	8/14/2019	12:34		21.6	7.32	1.2	19	107	9,864		1.0		12		
MAC-MW3s	8/14/2019	12:38		21.9	7.31	0.8	14	107	9,811		1.0		16		
MAC-MW3s	8/14/2019	12:42	9.70	22.1	7.30	0.7	14	107	9,793	17	1.0		20	5.3	
MAC-MW3s	11/14/2019	11:20	5.22									3.75			
MAC-MW3s	11/14/2019	11:24		20.7	7.36	1.4	16	167	7,225		1.0		4		
MAC-MW3s	11/14/2019	11:28		20.8	7.13	1.3	15	168	7,090		1.0		8		
MAC-MW3s	11/14/2019	11:32		20.8	7.09	1.3	15	168	7,062		1.0		12		
MAC-MW3s	11/14/2019	11:36		20.8	7.07	1.4	17	167	7,574		1.0		16		
MAC-MW3s	11/14/2019	11:40	10.04	20.9	7.04	1.4	17	167	7,450	21	1.0		20	5.3	
MAC-MW4s	2/28/2019	11:23	5.68									3.56			
MAC-MW4s	2/28/2019	11:27		18.7	7.46	3.7	50	100	4,917		1.0		4		

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Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
MAC-MW4s	2/28/2019	11:32		18.8	7.39	2.1	35	95	4,950		1.0		9		
MAC-MW4s	2/28/2019	11:36		18.9	7.32	2.0	33	97	4,923		1.0		13		
MAC-MW4s	2/28/2019	11:40		19.1	7.43	2.1	33	83	4,854		1.0		17		
MAC-MW4s	2/28/2019	11:44	7.06	19.1	7.30	2.0	31	83	4,808	2	1.0		21	5.9	
MAC-MW4s	5/21/2019	13:08	6.82									3.37			
MAC-MW4s	5/21/2019	13:12		21.6	7.32	0.7	13	214	3,760		1.0		4		
MAC-MW4s	5/21/2019	13:16		21.4	7.30	0.6	11	204	3,777		1.0		8		
MAC-MW4s	5/21/2019	13:20		21.2	7.30	0.6	12	204	3,841		1.0		12		
MAC-MW4s	5/21/2019	13:24		21.0	7.31	0.6	12	208	3,921		1.0		16		
MAC-MW4s	5/21/2019	13:27	7.30	20.9	7.32	0.7	14	211	3,961	1	1.0		19	5.6	
MAC-MW4s	8/14/2019	11:56	4.96									3.67			
MAC-MW4s	8/14/2019	12:00		23.7	7.50	0.6	9	101	4,480		1.0		4		
MAC-MW4s	8/14/2019	12:03		23.5	7.44	0.4	4	99	4,411		1.0		7		
MAC-MW4s	8/14/2019	12:07		23.5	7.43	0.3	5	81	4,379		1.0		10		
MAC-MW4s	8/14/2019	12:11		23.4	7.42	0.4	5	82	4,392		1.0		14		
MAC-MW4s	8/14/2019	12:15	5.21	23.4	7.42	0.4	5	82	4,360	1	1.0		18	4.9	
MAC-MW4s	11/14/2019	11:47	4.95									3.68			
MAC-MW4s	11/14/2019	11:51		22.0	7.46	1.2	14	167	4,267		1.0		4		
MAC-MW4s	11/14/2019	11:55		22.4	7.16	1.1	13	160	3,845		1.0		8		
MAC-MW4s	11/14/2019	11:59		22.4	7.15	1.2	14	159	3,849		1.0		12		
MAC-MW4s	11/14/2019	12:03		22.4	7.15	1.2	15	156	3,887		1.0		16		
MAC-MW4s	11/14/2019	12:07	5.65	22.5	7.14	1.2	14	154	3,909	4	1.0		20	5.4	
MAC-MW5s	2/28/2019	10:56	5.01									3.61			
MAC-MW5s	2/28/2019	11:00		19.0	7.66	2.6	39	90	4,249		1.0		4		
MAC-MW5s	2/28/2019	11:04		19.6	7.66	1.9	32	95	4,424		1.0		8		
MAC-MW5s	2/28/2019	11:08		19.3	7.75	1.9	32	99	4,421		1.0		12		
MAC-MW5s	2/28/2019	11:12		19.4	7.62	1.8	31	88	4,432		1.0		16		
MAC-MW5s	2/28/2019	11:17	5.99	19.5	7.64	1.8	30	111	4,430	2	1.0		21	5.8	
MAC-MW5s	5/21/2019	12:34	6.31									3.39			
MAC-MW5s	5/21/2019	12:38		21.8	7.60	0.9	10	203	4,321		1.0		4		
MAC-MW5s	5/21/2019	12:42		21.7	7.59	0.9	10	203	4,340		1.0		8		
MAC-MW5s	5/21/2019	12:46		21.5	7.56	0.8	9	203	4,352		1.0		12		
MAC-MW5s	5/21/2019	12:49		21.5	7.54	0.6	9	203	4,359		1.0		15		
MAC-MW5s	5/21/2019	12:52	6.61	21.2	7.54	0.5	8	204	4,361	1	1.0		18	5.3	
MAC-MW5s	8/14/2019	11:26	4.33									3.71			
MAC-MW5s	8/14/2019	11:30		22.1	7.67	0.5	5	104	3,873		1.0		4		
MAC-MW5s	8/14/2019	11:34		21.8	7.61	0.4	6	102	3,919		1.0		8		
MAC-MW5s	8/14/2019	11:38		21.8	7.61	0.7	7	100	3,961		1.0		12		
MAC-MW5s	8/14/2019	11:42		21.8	7.61	0.2	2	97	3,950		1.0		16		
MAC-MW5s	8/14/2019	11:45	5.78	22.0	7.59	0.3	5	90	3,962	1	1.0		19	5.1	
MAC-MW5s	11/14/2019	12:15	4.42									3.7			
MAC-MW5s	11/14/2019	12:19		23.0	7.49	1.0	13	141	4,265		1.0		4		
MAC-MW5s	11/14/2019	12:23		23.1	7.41	1.0	13	137	4,268		1.0		8		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
MAC-MW5s	11/14/2019	12:27		23.0	7.39	1.2	15	133	4,256		1.0		12		
MAC-MW5s	11/14/2019	12:31		22.9	7.39	1.2	15	130	4,234		1.0		16		
MAC-MW5s	11/14/2019	12:35	4.90	22.9	7.39	1.2	14	128	4,227	3	1.0		20	5.4	
NUN-MW1s	2/28/2019	8:56	5.61									1.93			
NUN-MW1s	2/28/2019	8:58		17.7	7.44	3.7	49	161	8,006		1.0		2		
NUN-MW1s	2/28/2019	9:02		18.5	7.45	2.6	40	123	6,611		0.5		4		
NUN-MW1s	2/28/2019	9:06		18.6	7.42	1.8	32	114	6,343		0.5		6		
NUN-MW1s	2/28/2019	9:10		18.9	7.39	1.9	33	107	6,255		0.5		8		
NUN-MW1s	2/28/2019	9:16	6.84	18.8	7.40	2.0	33	110	6,260	3	0.5		11	5.7	
NUN-MW1s	5/21/2019	15:19	6.13									1.84			
NUN-MW1s	5/21/2019	15:21		20.9	7.50	1.1	17	176	5,872		1.0		2		
NUN-MW1s	5/21/2019	15:23		20.8	7.43	0.6	12	175	5,954		1.0		4		
NUN-MW1s	5/21/2019	15:25		20.8	7.42	0.7	12	175	6,051		1.0		6		
NUN-MW1s	5/21/2019	15:27		20.8	7.43	0.5	11	175	6,085		1.0		8		
NUN-MW1s	5/21/2019	15:29	6.57	20.8	7.46	0.6	11	178	6,141	1	1.0		10	5.4	
NUN-MW1s	8/14/2019	14:26	5.49									1.92			
NUN-MW1s	8/14/2019	14:28		22.5	7.58	0.4	5	69	5,850		1.0		2		
NUN-MW1s	8/14/2019	14:30		22.2	7.46	0.4	9	73	5,899		1.0		4		
NUN-MW1s	8/14/2019	14:32		22.2	7.46	0.4	9	74	5,911		1.0		6		
NUN-MW1s	8/14/2019	14:34		22.2	7.46	0.4	9	76	5,940		1.0		8		
NUN-MW1s	8/14/2019	14:36	6.52	22.0	7.44	0.4	9	72	5,950	2	1.0		10	5.2	
NUN-MW1s	11/14/2019	9:40	7.35									1.65			
NUN-MW1s	11/14/2019	9:42		23.2	7.24	2.1	25	192	6,048		1.0		2		
NUN-MW1s	11/14/2019	9:44		23.1	7.20	2.1	25	186	5,880		1.0		4		
NUN-MW1s	11/14/2019	9:47		23.1	7.21	2.0	24	181	5,883		1.0		7		
NUN-MW1s	11/14/2019	9:49		23.2	7.21	2.1	25	179	5,891		1.0		9		
NUN-MW1s	11/14/2019	9:51	7.90	23.2	7.21	2.1	25	177	5,889	4	1.0		11	6.7	
NUN-MW2s	2/28/2019	8:09	6.98									3.42			
NUN-MW2s	2/28/2019	8:13		17.8	6.61	3.2	46	234	3,474		1.0		4		
NUN-MW2s	2/28/2019	8:17		18.6	7.14	2.1	35	131	3,609		1.0		8		
NUN-MW2s	2/28/2019	8:21		18.5	7.22	2.4	38	92	3,601		1.0		12		
NUN-MW2s	2/28/2019	8:25		18.2	7.26	2.0	35	73	3,621		1.0		16		
NUN-MW2s	2/28/2019	8:30	8.38	18.3	7.19	2.1	35	73	3,604	3	1.0		21	6.1	
NUN-MW2s	5/21/2019	14:30	7.54									3.33			
NUN-MW2s	5/21/2019	14:34		20.0	7.37	0.9	15	178	3,874		1.0		4		
NUN-MW2s	5/21/2019	14:38		19.8	7.28	0.5	12	137	3,776		1.0		8		
NUN-MW2s	5/21/2019	14:42		19.7	7.28	0.7	14	106	3,741		1.0		12		
NUN-MW2s	5/21/2019	14:46		19.6	7.29	0.6	13	90	3,736		1.0		16		
NUN-MW2s	5/21/2019	14:49	8.10	19.5	7.27	0.5	13	88	3,732	1	1.0		19	5.7	
NUN-MW2s	8/14/2019	13:39	6.43									3.51			
NUN-MW2s	8/14/2019	13:43		23.0	7.50	0.8	10	89	3,929		1.0		4		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
NUN-MW2s	8/14/2019	13:47		22.9	7.38	0.5	7	78	3,846		1.0		8		
NUN-MW2s	8/14/2019	13:50		22.7	7.39	0.5	5	61	3,800		1.0		11		
NUN-MW2s	8/14/2019	13:54		22.8	7.36	0.4	5	49	3,770		1.0		15		
NUN-MW2s	8/14/2019	13:57	6.93	22.6	7.35	0.3	5	38	3,766	8	1.0		18	5.1	
NUN-MW2s	11/14/2019	10:20	7.12									3.4			
NUN-MW2s	11/14/2019	10:24		21.6	7.50	1.9	22	165	4,334		1.0		4		
NUN-MW2s	11/14/2019	10:28		21.8	7.21	1.9	22	169	4,007		1.0		8		
NUN-MW2s	11/14/2019	10:32		21.8	7.16	1.9	24	169	3,896		1.0		12		
NUN-MW2s	11/14/2019	10:36		21.7	7.17	1.9	23	169	3,826		1.0		16		
NUN-MW2s	11/14/2019	10:40	7.92	21.9	7.16	1.9	22	168	3,808	3	1.0		20	5.9	
NUN-MW3s	2/28/2019	9:21	3.80									1.86			
NUN-MW3s	2/28/2019	9:23		17.5	7.45	3.4	47	128	6,561		1.0		2		
NUN-MW3s	2/28/2019	9:25		17.5	7.23	2.5	39	123	6,601		1.0		4		
NUN-MW3s	2/28/2019	9:27		17.5	7.17	2.0	34	113	6,564		1.0		6		
NUN-MW3s	2/28/2019	9:30		17.6	7.14	1.9	32	111	6,639		1.0		9		
NUN-MW3s	2/28/2019	9:32	7.44	18.0	7.22	2.2	35	124	6,856	2	1.0		11	5.9	
NUN-MW3s	5/21/2019	15:38	5.26									1.61			
NUN-MW3s	5/21/2019	15:40		22.0	7.24	1.0	15	186	6,656		1.0		2		
NUN-MW3s	5/21/2019	15:42		20.9	7.10	0.8	13	187	6,536		1.0		4		
NUN-MW3s	5/21/2019	15:44		20.7	7.10	0.6	11	184	6,617		1.0		6		
NUN-MW3s	5/21/2019	15:46		20.6	7.10	0.7	12	181	6,645		1.0		8		
NUN-MW3s	5/21/2019	15:48	6.97	20.3	7.09	0.6	11	179	6,685	2	1.0		10	6.2	
NUN-MW3s	8/14/2019	14:43	4.83									1.68			
NUN-MW3s	8/14/2019	14:45		24.7	7.14	0.9	12	93	7,760		1.0		2		
NUN-MW3s	8/14/2019	14:47		23.7	7.12	0.5	8	90	6,600		1.0		4		
NUN-MW3s	8/14/2019	14:49		22.8	7.15	0.5	8	89	6,679		1.0		6		
NUN-MW3s	8/14/2019	14:51		22.5	7.17	0.5	9	90	6,744		1.0		8		
NUN-MW3s	8/14/2019	14:52	7.97	22.8	7.17	0.5	10	88	6,767	2	1.0		9	5.4	
NUN-MW3s	11/14/2019	9:18	6.31									1.45			
NUN-MW3s	11/14/2019	9:20		22.7	7.04	1.6	20	206	6,686		1.0		2		
NUN-MW3s	11/14/2019	9:22		23.0	6.94	1.6	20	206	6,624		1.0		4		
NUN-MW3s	11/14/2019	9:25		22.9	6.97	1.7	21	206	6,802		1.0		7		
NUN-MW3s	11/14/2019	9:27		23.0	6.95	1.7	20	204	6,875		1.0		9		
NUN-MW3s	11/14/2019	9:29	8.75	22.9	6.88	1.7	20	204	6,909	5	1.0		11	7.6	
NUN-MW4s	2/28/2019	9:48	5.63									1.54			
NUN-MW4s	2/28/2019	9:50		18.0	7.46	3.4	47	80	9,137		1.0		2		
NUN-MW4s	2/28/2019	9:52		18.0	7.35	2.8	41	46	10,620		1.0		6		
NUN-MW4s	2/28/2019	9:55		18.4	7.22	2.3	36	15	11,930		1.0		9		
NUN-MW4s	2/28/2019	9:57		18.7	7.21	2.1	33	-84	12,410		1.0		11		
NUN-MW4s	2/28/2019	9:59	12.64	19.3	7.14	2.2	35	-141	12,100	20	1.0		13	8.4	
NUN-MW4s	5/21/2019	15:54	6.88									1.33			
NUN-MW4s	5/21/2019	15:58		21.2	7.09	1.0	15	200	8,336		0.5		2		
NUN-MW4s	5/21/2019	16:00		21.1	7.04	0.7	13	196	8,424		0.5		3		

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Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
NUN-MW4s	5/21/2019	16:02		20.9	7.06	0.7	13	192	8,609		0.5		4		
NUN-MW4s	5/21/2019	16:06		20.9	7.11	0.8	13	190	9,121		0.5		6		
NUN-MW4s	5/21/2019	16:10	8.60	21.0	7.08	0.7	13	166	9,514	1	0.5		8	6	
NUN-MW4s	8/14/2019	15:00	6.42									1.41			
NUN-MW4s	8/14/2019	15:04		23.2	7.16	0.5	7	95	11,370		0.5		2		
NUN-MW4s	8/14/2019	15:06		22.5	7.19	0.7	11	67	11,750		0.5		3		
NUN-MW4s	8/14/2019	15:10		22.4	7.18	0.8	13	55	11,600		0.5		5		
NUN-MW4s	8/14/2019	15:12		22.3	7.18	1.1	20	48	11,549		0.5		6		
NUN-MW4s	8/14/2019	15:14		22.2	7.18	1.0	20	34	11,420	8	0.5		7	5	
NUN-MW4s	11/14/2019	9:00	7.39									1.25			
NUN-MW4s	11/14/2019	9:02		22.4	6.69	3.3	35	218	8,140		1.0		2		
NUN-MW4s	11/14/2019	9:04		22.8	6.78	2.8	30	214	8,310		1.0		4		
NUN-MW4s	11/14/2019	9:07		22.8	6.82	2.5	29	212	8,304		1.0		7		
NUN-MW4s	11/14/2019	9:09		22.7	6.63	2.4	27	211	8,283		1.0		9		
NUN-MW4s	11/14/2019	9:11	10.32	22.7	6.69	2.4	27	211	8,272	8	1.0		11	8.8	
NUN-MW5s	2/28/2019	8:37	7.06									1.71			
NUN-MW5s	2/28/2019	8:39		16.8	7.43	3.6	49	120	5,887		1.0		2		
NUN-MW5s	2/28/2019	8:41		18.1	7.22	2.2	36	115	8,277		1.0		4		
NUN-MW5s	2/28/2019	8:44		18.5	7.20	1.8	32	117	8,451		1.0		7		
NUN-MW5s	2/28/2019	8:46		18.3	7.20	1.9	35	119	8,460		1.0		9		
NUN-MW5s	2/28/2019	8:48	12.68	18.3	7.26	1.8	32	116	8,454	5	1.0		11	6.4	
NUN-MW5s	5/21/2019	14:59	7.42									1.65			
NUN-MW5s	5/21/2019	15:01		19.5	7.16	0.8	16	150	8,217		1.0		2		
NUN-MW5s	5/21/2019	15:03		20.2	7.14	0.7	14	151	8,300		1.0		4		
NUN-MW5s	5/21/2019	15:05		20.6	7.16	0.7	14	158	8,246		1.0		6		
NUN-MW5s	5/21/2019	15:07		20.8	7.13	0.7	13	160	8,230		1.0		8		
NUN-MW5s	5/21/2019	15:09	9.20	21.1	7.15	0.6	11	167	8,212	1	1.0		10	6.1	
NUN-MW5s	8/14/2019	14:05	7.20									1.68			
NUN-MW5s	8/14/2019	14:07		24.5	7.32	2.4	25	73	8,240		1.0		2		
NUN-MW5s	8/14/2019	14:09		24.0	7.23	0.4	9	72	8,213		1.0		4		
NUN-MW5s	8/14/2019	14:11		23.1	7.21	0.5	11	77	8,200		1.0		6		
NUN-MW5s	8/14/2019	14:12		22.9	7.21	0.6	12	77	8,177		1.0		7		
NUN-MW5s	8/14/2019	14:14	10.38	22.9	7.20	1.1	13	73	8,164	5	1.0		9	5.4	
NUN-MW5s	11/14/2019	10:00	7.80									1.59			
NUN-MW5s	11/14/2019	10:02		22.8	7.19	1.7	21	176	8,036		1.0		2		
NUN-MW5s	11/14/2019	10:04		23.1	7.01	1.6	20	177	8,163		1.0		4		
NUN-MW5s	11/14/2019	10:07		23.2	6.97	1.6	19	175	8,140		1.0		7		
NUN-MW5s	11/14/2019	10:09		23.3	6.97	2.0	24	173	8,145		1.0		9		
NUN-MW5s	11/14/2019	10:11	10.46	23.4	6.96	1.9	23	172	8,143	5	1.0		11	6.9	
MOO-MW1	2/26/2019	9:45	15.31									7.14			
MOO-MW1	2/26/2019	9:53		19.3	7.54	3.7	49	-9	2,473		1.0		8		

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Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
MOO-MW1	2/26/2019	10:01		18.6	7.30	1.8	30	4	2,428		1.0		16		
MOO-MW1	2/26/2019	10:09		19.2	7.27	1.9	32	13	2,412		1.0		24		
MOO-MW1	2/26/2019	10:17		19.6	7.33	2.1	34	-2	2,402		1.0		32		
MOO-MW1	2/26/2019	10:25	16.85	19.5	7.29	2.2	35	-12	2,406	5	1.0		40	5.6	
MOO-MW1	5/23/2019	14:27	13.63									8.24			
MOO-MW1	5/23/2019	14:33		25.3	7.27	2.9	37	156	3,027		1.5		9		
MOO-MW1	5/23/2019	14:39		23.4	7.03	2.6	34	155	2,875		1.5		18		
MOO-MW1	5/23/2019	14:45		23.5	7.03	2.7	36	154	2,770		1.5		27		
MOO-MW1	5/23/2019	14:51		23.3	7.24	2.6	36	144	2,623		1.5		36		
MOO-MW1	5/23/2019	14:57	14.29	24.0	7.10	2.1	27	113	2,583	2	1.5		45	5.5	
MOO-MW1	8/15/2019	11:23	12.15									9.2			
MOO-MW1	8/15/2019	11:33		25.8	7.49	1.9	21	67	3,274		1.0		10		
MOO-MW1	8/15/2019	11:43		24.5	7.38	2.0	23	43	3,093		1.0		20		
MOO-MW1	8/15/2019	11:53		21.6	7.37	1.9	23	10	2,610		1.0		30		
MOO-MW1	8/15/2019	12:03		21.9	7.17	1.8	23	14	2,620		1.0		40		
MOO-MW1	8/15/2019	12:13	12.38	21.7	7.24	1.8	23	5	2,591	4	1.0		50	5.4	
MOO-MW1	11/13/2019	13:43	13.96									8.02			
MOO-MW1	11/13/2019	13:51		22.3	6.91	2.0	29	93	2,603		1.0		8		
MOO-MW1	11/13/2019	14:00		22.0	6.87	1.0	19	62	2,561		1.0		17		
MOO-MW1	11/13/2019	14:08		21.2	6.84	1.1	20	40	2,550		1.0		25		
MOO-MW1	11/13/2019	14:17		20.9	6.89	1.3	23	20	2,520		1.0		34		
MOO-MW1	11/13/2019	14:25	14.35	21.1	6.90	1.2	22	14	2,492	7	1.0		42	5.2	
MOO-MW2	2/26/2019	10:30	19.73									6.16			
MOO-MW2	2/26/2019	10:37		19.6	7.42	4.7	59	-1	2,802		1.0		7		
MOO-MW2	2/26/2019	10:44		20.5	7.11	2.4	36	22	2,989		1.0		14		
MOO-MW2	2/26/2019	10:45	28.13	20.6	7.07	4.8	60	45	2,984	12	1.0		15	2.4	D
MOO-MW2	5/23/2019	14:03	18.24									7.13			
MOO-MW2	5/23/2019	14:08		22.5	7.15	2.8	38	172	2,849		1.5		7.5		
MOO-MW2	5/23/2019	14:13		21.4	6.80	2.5	34	157	3,186		1.5		15		
MOO-MW2	5/23/2019	14:21	27.74	23.3	6.86	3.3	43	125	3,243	7	0.5		19	2.7	1 D
MOO-MW2	8/15/2019	10:36	17.40									7.68			
MOO-MW2	8/15/2019	10:44		23.0	7.31	2.5	31	77	2,658		1.0		8		
MOO-MW2	8/15/2019	10:52		22.4	7.18	2.2	27	70	3,180		1.0		16		
MOO-MW2	8/15/2019	11:00		23.1	7.31	2.1	22	69	3,239		1.0		24		
MOO-MW2	8/15/2019	11:08		23.3	7.47	2.2	26	85	3,350		1.0		32		
MOO-MW2	8/15/2019	11:16	24.44	23.4	7.20	2.2	27	66	3,349	4	1.0		40	5.2	
MOO-MW2	11/13/2019	13:14	19.14									6.54			
MOO-MW2	11/13/2019	13:21		21.6	7.36	2.8	37	127	2,613		1.0		7		
MOO-MW2	11/13/2019	13:28		21.7	7.04	1.8	27	130	2,997		1.0		14		
MOO-MW2	11/13/2019	13:35		22.1	6.88	1.4	22	125	3,196		1.0		21		
MOO-MW2	11/13/2019	13:37	DRY	23.8	6.81	1.7	26	116	3,367	8	1.0		23	3.5	1-3 D
MOO-MW3	2/26/2019	11:14	14.56									8.79			

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
MOO-MW3	2/26/2019	11:23		18.6	7.41	3.3	46	62	2,109		1.0		9		
MOO-MW3	2/26/2019	11:32		19.5	7.21	2.1	34	70	1,994		1.0		18		
MOO-MW3	2/26/2019	11:41		19.7	7.18	2.0	32	75	1,972		1.0		27		
MOO-MW3	2/26/2019	11:50		19.7	7.28	1.9	31	84	1,966		1.0		36		
MOO-MW3	2/26/2019	11:59	16.06	19.7	7.24	2.1	33	84	1,967	5	1.0		45	5.1	
MOO-MW3	5/23/2019	12:55	12.80									9.92			
MOO-MW3	5/23/2019	13:02		24.1	7.40	2.2	32	166	1,807		1.5		10.5		
MOO-MW3	5/23/2019	13:09		23.8	6.98	2.3	32	175	1,945		1.5		21		
MOO-MW3	5/23/2019	13:16		23.8	7.05	2.4	34	163	2,047		1.5		31.5		
MOO-MW3	5/23/2019	13:23		23.4	6.98	2.3	33	161	2,049		1.5		42		
MOO-MW3	5/23/2019	13:30	13.49	23.6	6.94	2.3	33	155	2,069	2	1.5		52.5	5.3	
MOO-MW3	8/15/2019	8:57	10.68									11.31			
MOO-MW3	8/15/2019	9:09		23.8	7.58	2.4	31	110	2,156		1.0		12		
MOO-MW3	8/15/2019	9:21		23.3	7.42	2.0	27	112	2,202		1.0		24		
MOO-MW3	8/15/2019	9:33		23.0	7.23	1.9	25	92	2,194		1.0		36		
MOO-MW3	8/15/2019	9:45		22.5	7.19	1.9	26	81	2,158		1.0		48		
MOO-MW3	8/15/2019	9:57	11.04	22.5	7.13	1.9	25	74	2,167	1	1.0		60	5.3	
MOO-MW3	11/13/2019	11:43	12.54									10.09			
MOO-MW3	11/13/2019	11:54		21.6	7.19	1.3	22	134	2,050		1.0		11		
MOO-MW3	11/13/2019	12:05		20.9	6.91	1.3	22	133	1,997		1.0		22		
MOO-MW3	11/13/2019	12:16		20.8	6.88	0.9	18	127	2,005		1.0		33		
MOO-MW3	11/13/2019	12:27		20.7	6.87	1.1	20	123	2,014		1.0		44		
MOO-MW3	11/13/2019	12:39	12.90	20.6	6.92	1.1	21	124	2,023	2	1.0		56	5.6	
MOO-MW4	2/26/2019	12:06	14.48									8.11			
MOO-MW4	2/26/2019	12:15		19.7	7.76	3.2	43	114	1,285		1.0		9		
MOO-MW4	2/26/2019	12:24		19.8	7.56	N/M	30	117	1,432		1.0		18		
MOO-MW4	2/26/2019	12:33		20.1	7.48	2.0	32	109	1,499		1.0		27		
MOO-MW4	2/26/2019	12:42		20.1	7.55	1.8	30	102	1,540		1.0		36		
MOO-MW4	2/26/2019	12:51	16.16	20.1	7.49	1.7	28	96	1,569	3	1.0		45	5.5	
MOO-MW4	5/23/2019	12:05	10.52									10.69			
MOO-MW4	5/23/2019	12:13		21.2	7.49	2.7	36	160	1,052		1.5		12		
MOO-MW4	5/23/2019	12:21		22.1	7.24	2.7	36	141	1,153		1.5		24		
MOO-MW4	5/23/2019	12:29		22.4	7.29	2.1	28	127	1,308		1.5		36		
MOO-MW4	5/23/2019	12:37		21.9	7.23	2.1	29	139	1,460		1.5		48		
MOO-MW4	5/23/2019	12:45	12.43	21.9	7.24	1.8	25	137	1,553	2	1.5		60	5.6	3
MOO-MW4	8/15/2019	7:53	10.28									10.85			
MOO-MW4	8/15/2019	8:04		21.1	7.31	2.1	25	131	2,159		1.0		11		
MOO-MW4	8/15/2019	8:15		21.7	7.40	1.9	24	120	2,185		1.0		22		
MOO-MW4	8/15/2019	8:26		21.7	7.38	1.9	25	112	2,181		1.0		33		
MOO-MW4	8/15/2019	8:37		21.8	7.36	1.9	25	98	2,188		1.0		44		
MOO-MW4	8/15/2019	8:48	11.68	21.4	7.37	2.0	28	92	2,160	2	1.0		55	5.1	
MOO-MW4	11/13/2019	10:51	13.41									8.81			
MOO-MW4	11/13/2019	11:00		21.9	6.91	1.9	22	169	1,981		1.0		9		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
MOO-MW4	11/13/2019	11:09		21.8	7.00	1.4	18	166	2,065		1.0		18		
MOO-MW4	11/13/2019	11:18		22.0	7.01	1.1	14	149	2,147		1.0		27		
MOO-MW4	11/13/2019	11:27		21.9	6.99	1.1	13	135	2,220		1.0		36		
MOO-MW4	11/13/2019	11:36	14.99	22.0	6.95	1.2	16	125	2,223	4	1.0		45	5.1	
MOO-MW5s	2/26/2019	10:52	14.75									2.9			
MOO-MW5s	2/26/2019	10:55		18.8	7.45	3.7	49	47	2,366		1.0		3		
MOO-MW5s	2/26/2019	10:58		19.1	7.27	2.9	41	40	2,318		1.0		6		
MOO-MW5s	2/26/2019	11:01		19.2	7.44	2.8	39	-3	2,306		1.0		9		
MOO-MW5s	2/26/2019	11:04		19.1	7.46	2.4	36	7	2,301		1.0		12		
MOO-MW5s	2/26/2019	11:07	15.63	19.0	7.42	2.5	37	41	2,300	5	1.0		15	5.2	
MOO-MW5s	5/23/2019	13:35	13.41									3.12			
MOO-MW5s	5/23/2019	13:39		22.9	7.10	2.6	36	158	2,219		1.0		4		
MOO-MW5s	5/23/2019	13:43		22.2	7.08	2.4	34	170	2,306		1.0		8		
MOO-MW5s	5/23/2019	13:47		22.2	7.05	2.2	33	190	2,388		1.0		12		
MOO-MW5s	5/23/2019	13:51		22.3	7.09	2.4	35	176	2,391		1.0		16		
MOO-MW5s	5/23/2019	13:55	14.18	21.0	7.05	2.2	33	172	2,452	2	1.0		20	6.4	1
MOO-MW5s	8/15/2019	10:06	11.13									3.49			
MOO-MW5s	8/15/2019	10:10		22.6	7.38	2.2	29	78	2,256		1.0		4		
MOO-MW5s	8/15/2019	10:14		22.4	7.20	2.0	28	79	2,289		1.0		8		
MOO-MW5s	8/15/2019	10:19		22.3	7.11	2.1	29	78	2,293		1.0		13		
MOO-MW5s	8/15/2019	10:23		21.8	7.15	2.0	27	75	2,331		1.0		17		
MOO-MW5s	8/15/2019	10:27	11.78	21.4	7.15	1.9	27	72	2,341	2	1.0		21	6	
MOO-MW5s	11/13/2019	12:46	12.81									3.21			
MOO-MW5s	11/13/2019	12:50		20.2	7.30	1.6	26	149	2,194		1.0		4		
MOO-MW5s	11/13/2019	12:54		20.3	7.00	1.2	22	143	2,244		1.0		8		
MOO-MW5s	11/13/2019	12:58		20.3	6.99	1.0	21	137	2,243		1.0		12		
MOO-MW5s	11/13/2019	13:03		20.3	7.12	0.9	20	136	2,241		1.0		17		
MOO-MW5s	11/13/2019	13:07	13.56	20.3	7.08	0.8	18	138	2,242	3	1.0		21	6.5	
MOO-MW6s	2/26/2019	9:21	21.03									2.02			
MOO-MW6s	2/26/2019	9:23		18.6	7.28	4.8	59	103	2,662		1.0		2		
MOO-MW6s	2/26/2019	9:27		18.6	7.20	2.6	39	118	2,555		0.5		4		
MOO-MW6s	2/26/2019	9:31		18.5	7.26	2.6	40	112	2,556		0.5		6		
MOO-MW6s	2/26/2019	9:35		20.8	7.13	2.7	41	112	2,620		0.5		8		
MOO-MW6s	2/26/2019	9:38	30.24	21.7	7.04	3.0	44	110	2,616	12	0.5		9.5	4.7	
MOO-MW6s	5/23/2019	15:04	18.63									2.41			
MOO-MW6s	5/23/2019	15:07		24.7	7.05	2.9	37	132	2,446		1.0		3		
MOO-MW6s	5/23/2019	15:10		23.0	6.82	1.8	31	136	2,370		1.0		6		
MOO-MW6s	5/23/2019	15:13		23.8	6.86	2.5	34	154	2,294		1.0		9		
MOO-MW6s	5/23/2019	15:16		23.6	6.88	2.4	29	160	2,256		0.5		12		
MOO-MW6s	5/23/2019	15:22	30.09	23.7	6.85	2.3	28	152	2,250	7	0.5		15	6.2	
MOO-MW6s	8/15/2019	12:20	19.30									2.3			
MOO-MW6s	8/15/2019	12:23		22.2	7.31	2.5	31	40	2,189		1.0		3		
MOO-MW6s	8/15/2019	12:26		22.7	6.97	2.3	28	51	2,190		1.0		6		

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Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
MOO-MW6s	8/15/2019	12:29		23.0	6.95	2.2	25	57	2,184		1.0		9		
MOO-MW6s	8/15/2019	12:34		23.0	6.94	2.1	23	61	2,199		0.5		11.5		
MOO-MW6s	8/15/2019	12:39	25.59	24.1	6.94	2.2	24	66	2,183	7	0.5		14	6.1	
MOO-MW6s	11/13/2019	14:32	20.78									2.06			
MOO-MW6s	11/13/2019	14:37		20.7	6.91	2.8	39	49	2,345		0.5		2.5		
MOO-MW6s	11/13/2019	14:42		21.2	6.65	2.0	30	68	2,267		0.5		5		
MOO-MW6s	11/13/2019	14:47		21.3	6.64	1.6	26	72	2,056		0.5		7.5		
MOO-MW6s	11/13/2019	14:52		21.3	6.65	1.4	24	83	2,052		0.5		10		
MOO-MW6s	11/13/2019	14:57	28.24	20.8	6.80	1.3	22	98	2,063	14	0.5		12.5	6.1	
MOO-MW7s	2/26/2019	9:00	20.05									1.35			
MOO-MW7s	2/26/2019	9:02		18.5	7.35	4.1	53	98	2,813		1.0		2		
MOO-MW7s	2/26/2019	9:05		18.7	7.27	2.9	42	95	2,854		0.5		3.5		
MOO-MW7s	2/26/2019	9:08		18.9	7.31	3.0	44	114	2,862		0.5		5		
MOO-MW7s	2/26/2019	9:11		19.3	7.33	3.0	43	129	2,871		0.5		6.5		
MOO-MW7s	2/26/2019	9:14	21.39	19.4	7.31	2.6	39	131	2,865	8	0.5		8	5.9	
MOO-MW7s	5/23/2019	15:32	18.36									1.62			
MOO-MW7s	5/23/2019	15:36		24.1	7.06	3.0	39	163	2,532		0.5		2		
MOO-MW7s	5/23/2019	15:40		21.9	6.97	3.0	39	164	2,771		0.5		4		
MOO-MW7s	5/23/2019	15:44		21.7	7.05	3.1	41	167	2,837		0.5		6		
MOO-MW7s	5/23/2019	15:49		21.1	7.11	2.9	39	166	2,905		0.5		8.5		
MOO-MW7s	5/23/2019	15:53	20.22	21.2	7.04	2.7	36	178	2,919	3	0.5		10.5	6.5	
MOO-MW7s	8/15/2019	12:47	16.98									1.85			
MOO-MW7s	8/15/2019	12:49		25.8	7.57	3.3	38	90	2,430		1.0		2		
MOO-MW7s	8/15/2019	12:51		22.2	7.34	2.9	35	101	2,984		1.0		4		
MOO-MW7s	8/15/2019	12:54		21.3	7.32	2.7	34	90	3,016		1.0		7		
MOO-MW7s	8/15/2019	12:56		21.0	7.22	2.7	35	86	3,008		1.0		9		
MOO-MW7s	8/15/2019	12:58	17.69	21.0	7.20	2.7	34	81	3,005	4	1.0		11	5.9	
MOO-MW7s	11/13/2019	15:06	18.70									1.57			
MOO-MW7s	11/13/2019	15:08		20.9	7.34	3.4	44	111	2,303		1.0		2		
MOO-MW7s	11/13/2019	15:10		21.0	7.11	3.1	41	112	2,468		1.0		4		
MOO-MW7s	11/13/2019	15:13		20.9	7.01	2.6	36	111	2,634		1.0		7		
MOO-MW7s	11/13/2019	15:15		21.0	6.94	2.5	36	106	2,723		1.0		9		
MOO-MW7s	11/13/2019	15:17	20.58	20.9	6.91	2.3	32	105	2,769	5	1.0		11	7	
MOO-MW8d	2/26/2019	8:31	20.34									3.44			
MOO-MW8d	2/26/2019	8:35		19.1	6.83	4.5	58	182	1,936		1.0		4		
MOO-MW8d	2/26/2019	8:39		19.6	7.31	2.4	40	158	1,964		1.0		8		
MOO-MW8d	2/26/2019	8:43		18.6	7.47	2.4	36	116	1,904		1.0		12		
MOO-MW8d	2/26/2019	8:47		18.5	7.43	2.4	36	114	1,876		1.0		16		
MOO-MW8d	2/26/2019	8:51	28.49	19.1	7.54	2.3	35	97	1,847	6	1.0		20	5.8	
MOO-MW8d	5/23/2019	16:01	18.96									3.62			
MOO-MW8d	5/23/2019	16:05		20.6	7.63	2.8	37	195	2,157		1.0		4		
MOO-MW8d	5/23/2019	16:09		20.4	7.43	2.9	39	186	2,159		1.0		8		
MOO-MW8d	5/23/2019	16:13		20.4	7.32	2.3	33	179	2,121		1.0		12		

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Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
MOO-MW8d	5/23/2019	16:17		20.5	7.46	2.2	32	180	2,085		1.0		16		
MOO-MW8d	5/23/2019	16:21	25.16	21.0	7.50	2.3	33	184	2,059	3	1.0		20	5.5	
MOO-MW8d	8/15/2019	13:06	18.80									3.69			
MOO-MW8d	8/15/2019	13:10		22.3	7.78	2.7	35	95	2,113		1.0		4		
MOO-MW8d	8/15/2019	13:14		23.4	7.39	2.2	30	89	2,086		1.0		8		
MOO-MW8d	8/15/2019	13:18		23.4	7.56	2.1	27	81	2,051		1.0		12		
MOO-MW8d	8/15/2019	13:22		23.5	7.62	2.0	25	100	2,005		1.0		16		
MOO-MW8d	8/15/2019	13:26	27.16	23.0	7.60	2.0	25	97	1,944	5	1.0		20	5.4	
MOO-MW8d	11/13/2019	15:24	19.65									3.55			
MOO-MW8d	11/13/2019	15:28		21.0	7.26	2.0	29	104	1,913		1.0		4		
MOO-MW8d	11/13/2019	15:32		20.7	7.14	1.6	27	103	1,790		1.0		8		
MOO-MW8d	11/13/2019	15:36		20.9	7.11	1.8	28	100	1,806		1.0		12		
MOO-MW8d	11/13/2019	15:41		20.7	7.08	1.2	22	103	1,839		1.0		17		
MOO-MW8d	11/13/2019	15:45	26.34	20.8	7.15	0.9	21	103	1,854	8	1.0		21	5.9	
TON-MW1s	3/1/2019	14:58	5.50									3			
TON-MW1s	3/1/2019	15:01		18.6	7.25	3.1	46	149	3,332		1.0		3		
TON-MW1s	3/1/2019	15:04		19.2	7.18	2.8	43	150	3,328		1.0		6		
TON-MW1s	3/1/2019	15:07		18.9	7.14	2.9	44	148	3,299		1.0		9		
TON-MW1s	3/1/2019	15:10		18.9	7.12	2.8	42	147	3,337		1.0		12		
TON-MW1s	3/1/2019	15:13	6.38	19.0	7.12	2.8	42	146	3,314	8	1.0		15	5	
TON-MW1s	5/22/2019	13:39	6.95									2.76			
TON-MW1s	5/22/2019	13:42		21.8	7.06	0.8	11	109	3,302		1.0		3		
TON-MW1s	5/22/2019	13:45		21.2	7.04	0.7	10	113	3,319		1.0		6		
TON-MW1s	5/22/2019	13:47		21.3	7.05	0.8	11	120	3,305		1.0		8		
TON-MW1s	5/22/2019	13:50		21.2	7.05	0.7	12	133	3,293		1.0		11		
TON-MW1s	5/22/2019	13:53	7.63	21.5	7.04	0.7	12	141	3,263	1	1.0		14	5.1	
TON-MW1s	8/21/2019	13:53	13.73									1.65			
TON-MW1s	8/21/2019	13:55		22.7	7.25	1.7	20	120	3,244		1.0		2		
TON-MW1s	8/21/2019	13:57		22.1	7.10	1.6	21	115	3,267		1.0		4		
TON-MW1s	8/21/2019	13:59		22.0	7.09	1.6	22	110	3,246		1.0		6		
TON-MW1s	8/21/2019	14:01		22.0	7.10	1.6	23	106	3,171		1.0		8		
TON-MW1s	8/21/2019	14:03	14.62	22.0	7.10	1.6	23	103	3,151	3	1.0		10	6.1	
TON-MW1s	11/14/2019	14:48	12.48									1.86			
TON-MW1s	11/14/2019	14:50		21.8	6.46	1.3	15	93	3,069		1.0		2		
TON-MW1s	11/14/2019	14:52		21.7	6.84	1.1	13	79	3,059		1.0		4		
TON-MW1s	11/14/2019	14:55		21.6	6.88	1.2	15	81	3,052		1.0		7		
TON-MW1s	11/14/2019	14:57		21.8	6.85	1.3	16	82	3,053		1.0		9		
TON-MW1s	11/14/2019	14:59	13.45	21.8	6.86	1.3	15	83	3,045	6	1.0		11	5.9	
TON-MW2s	3/1/2019	15:35	5.40									4.83			
TON-MW2s	3/1/2019	15:40		19.0	7.10	0.6	7	57	4,555		1.0		5		
TON-MW2s	3/1/2019	15:45		19.6	7.04	0.6	8	6	4,587		1.0		10		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
TON-MW2s	3/1/2019	15:50		19.8	7.02	0.5	6	15	4,617		1.0		15		
TON-MW2s	3/1/2019	16:00		19.9	7.01	0.5	5	25	4,648		1.0		20		
TON-MW2s	3/1/2019	16:05	11.82	19.9	7.01	0.5	5	29	4,663	9	1.0		25	5.2	
TON-MW2s	5/22/2019	13:14	4.72									3.04			
TON-MW2s	5/22/2019	13:17		21.6	7.17	1.7	17	37	4,657		1.0		3		
TON-MW2s	5/22/2019	13:21		21.3	7.14	0.9	12	13	4,669		1.0		7		
TON-MW2s	5/22/2019	13:24		21.1	7.14	0.9	13	9	4,667		1.0		10		
TON-MW2s	5/22/2019	13:27		21.4	7.12	0.9	13	14	4,687		1.0		13		
TON-MW2s	5/22/2019	13:30	8.33	21.3	7.11	0.8	12	18	4,709	4	1.0		16	5.3	
TON-MW2s	8/21/2019	14:12	7.48									2.59			
TON-MW2s	8/21/2019	14:14		23.3	7.27	1.7	22	107	3,766		1.0		2		
TON-MW2s	8/21/2019	14:17		23.0	7.19	1.4	16	84	3,922		1.0		5		
TON-MW2s	8/21/2019	14:19		22.8	7.17	1.4	17	60	3,990		1.0		7		
TON-MW2s	8/21/2019	14:22		22.7	7.17	1.5	20	48	4,093		1.0		10		
TON-MW2s	8/21/2019	14:25	12.22	22.6	7.16	1.5	20	34	4,117	5	1.0		13	5	
TON-MW2s	11/14/2019	15:07	9.15									2.32			
TON-MW2s	11/14/2019	15:10		22.3	6.88	1.3	16	54	4,065		1.0		3		
TON-MW2s	11/14/2019	15:13		22.4	6.90	1.2	14	-26	4,237		1.0		6		
TON-MW2s	11/14/2019	15:17		22.3	6.92	1.2	14	-45	4,276		1.0		10		
TON-MW2s	11/14/2019	15:20		22.4	6.89	1.0	13	-50	4,292		1.0		13		
TON-MW2s	11/14/2019	15:23	14.51	22.4	6.90	1.0	12	-52	4,292	9	1.0		16	6.9	
TON-MW3s	3/1/2019	15:11	8.34									2.47			
TON-MW3s	3/1/2019	15:14		18.3	6.88	1.0	11	-10	9,587		1.0		3		
TON-MW3s	3/1/2019	15:17		19.5	6.87	0.6	7	-4	9,434		1.0		6		
TON-MW3s	3/1/2019	15:21		19.9	6.85	0.3	4	7	8,251		1.0		10		
TON-MW3s	3/1/2019	15:24		20.4	6.83	0.3	3	14	7,247		1.0		13		
TON-MW3s	3/1/2019	15:27	12.59	20.6	6.79	0.3	4	23	6,373	45	1.0		16	6.5	3
TON-MW3s	5/22/2019	14:23	12.96									1.72			
TON-MW3s	5/22/2019	14:25		20.7	6.86	1.4	19	-16	7,258		1.0		2		
TON-MW3s	5/22/2019	14:27		20.7	6.87	0.9	14	-26	7,368		1.0		4		
TON-MW3s	5/22/2019	14:29		20.7	6.89	0.8	13	-22	6,879		1.0		6		
TON-MW3s	5/22/2019	14:31		20.9	6.88	0.9	14	-10	5,951		1.0		8		
TON-MW3s	5/22/2019	14:33	17.14	20.8	6.87	0.8	13	-6	5,626	19	1.0		10	5.8	3
TON-MW3d	8/21/2019	12:27	24.55									2.79			
TON-MW3d	8/21/2019	12:30		24.9	7.57	3.5	40	201	2,747		1.0		3		
TON-MW3d	8/21/2019	12:33		24.8	7.44	3.2	39	198	2,751		1.0		6		
TON-MW3d	8/21/2019	12:36		24.8	7.28	2.4	30	177	2,760		1.0		9		
TON-MW3d	8/21/2019	12:38		24.7	7.12	2.0	28	173	2,768		1.0		11		
TON-MW3d	8/21/2019	12:41		24.6	7.05	1.8	22	166	2,774	113	1.0		14	5	
TON-MW3s	11/14/2019	14:20	15.24									1.35			
TON-MW3s	11/14/2019	14:22		22.5	6.65	1.7	20	32	4,109		1.0		2		
TON-MW3s	11/14/2019	14:24		22.9	6.63	1.5	18	-29	3,599		1.0		4		
TON-MW3s	11/14/2019	14:27		23.0	6.56	1.3	15	-26	3,693		1.0		7		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
TON-MW3s	11/14/2019	14:29		22.9	6.57	1.3	16	-37	3,688		1.0		9		
TON-MW3s	11/14/2019	14:31	18.22	22.9	6.59	1.3	16	-42	3,646	3	1.0		11	8.1	
TON-MW4s	3/1/2019	14:08	7.00									2.58			
TON-MW4s	3/1/2019	14:11		19.5	7.65	3.4	46	150	3,840		1.0		3		
TON-MW4s	3/1/2019	14:14		20.4	7.31	3.1	43	152	3,828		1.0		6		
TON-MW4s	3/1/2019	14:17		20.7	7.23	3.0	37	156	3,767		1.0		9		
TON-MW4s	3/1/2019	14:21		20.9	7.15	3.1	44	156	3,743		1.0		13		
TON-MW4s	3/1/2019	14:24	7.48	20.8	7.14	3.1	45	158	3,721	3	1.0		16	6.2	
TON-MW4s	5/22/2019	14:00	10.82									1.95			
TON-MW4s	5/22/2019	14:02		21.5	7.13	1.3	18	159	4,209		1.0		2		
TON-MW4s	5/22/2019	14:04		21.5	7.00	1.3	19	153	3,967		1.0		4		
TON-MW4s	5/22/2019	14:06		21.5	7.01	1.3	18	152	3,880		1.0		6		
TON-MW4s	5/22/2019	14:08		21.5	6.99	1.3	18	160	3,860		1.0		8		
TON-MW4s	5/22/2019	14:10	11.00	21.6	6.97	1.3	18	156	3,849	1	1.0		10	5.1	
TON-MW4d	8/21/2019	13:23	21.28									2.89			
TON-MW4d	8/21/2019	13:26		23.1	7.28	1.9	18	128	3,115		1.0		3		
TON-MW4d	8/21/2019	13:29		22.6	7.06	2.0	20	113	3,184		1.0		6		
TON-MW4d	8/21/2019	13:32		22.1	7.06	2.0	23	111	3,209		1.0		9		
TON-MW4d	8/21/2019	13:35		22.1	7.04	2.1	26	108	3,231		1.0		12		
TON-MW4d	8/21/2019	13:38	21.49	22.2	7.20	2.0	23	114	3,252	2	1.0		15	5.2	
TON-MW4s	11/14/2019	13:40	15.42									1.2			
TON-MW4s	11/14/2019	13:42		22.5	7.45	2.4	27	142	3,253		1.0		2		
TON-MW4s	11/14/2019	13:44		22.7	6.89	1.6	20	182	3,229		1.0		4		
TON-MW4s	11/14/2019	13:47		22.7	6.83	1.5	18	183	3,213		1.0		7		
TON-MW4s	11/14/2019	13:49		22.7	6.82	1.5	18	183	3,213		1.0		9		
TON-MW4s	11/14/2019	13:51	15.60	22.7	6.85	1.5	18	182	3,206	4	1.0		11	9.2	
TON-MW5s	3/1/2019	14:33	7.38									2.52			
TON-MW5s	3/1/2019	14:36		20.1	7.25	2.7	39	162	3,447		1.0		3		
TON-MW5s	3/1/2019	14:39		20.6	7.09	2.7	40	164	3,389		1.0		6		
TON-MW5s	3/1/2019	14:43		20.8	7.04	2.4	36	162	3,373		1.0		10		
TON-MW5s	3/1/2019	14:46		20.9	7.02	2.3	36	160	3,359		1.0		13		
TON-MW5s	3/1/2019	14:49	8.19	20.8	7.04	2.3	35	157	3,363	4	1.0		16	6.3	
TON-MW5s	5/22/2019	14:45	10.42									2.02			
TON-MW5s	5/22/2019	14:47		21.5	7.00	1.3	15	90	3,930		1.0		2		
TON-MW5s	5/22/2019	14:49		21.5	6.94	0.7	10	90	3,750		1.0		4		
TON-MW5s	5/22/2019	14:52		21.6	6.95	0.8	12	97	3,532		1.0		7		
TON-MW5s	5/22/2019	14:54		21.6	6.93	0.8	12	109	3,413		1.0		9		
TON-MW5s	5/22/2019	14:56	10.93	21.7	6.93	0.8	12	111	3,396	1	1.0		11	5.4	
TON-MW5d	8/21/2019	12:51	18.93									3.6			
TON-MW5d	8/21/2019	12:55		22.7	7.21	1.6	15	141	2,920		1.0		4		
TON-MW5d	8/21/2019	12:59		22.3	7.02	1.2	11	133	2,946		1.0		8		
TON-MW5d	8/21/2019	13:03		22.5	7.16	1.2	9	125	2,957		1.0		12		
TON-MW5d	8/21/2019	13:06		22.7	7.00	1.2	8	116	2,962		1.0		17		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
TON-MW5d	8/21/2019	13:09	19.34	22.7	7.01	1.3	11	115	2,965	3	1.0		20	5.6	
TON-MW5s	11/14/2019	13:59	14.69									1.32			
TON-MW5s	11/14/2019	14:01		23.6	7.01	2.0	24	178	3,119		1.0		2		
TON-MW5s	11/14/2019	14:03		23.3	6.80	1.8	22	179	3,102		1.0		4		
TON-MW5s	11/14/2019	14:06		23.2	6.80	1.7	21	179	3,101		1.0		7		
TON-MW5s	11/14/2019	14:08		23.1	6.77	1.7	21	178	3,100		1.0		9		
TON-MW5s	11/14/2019	14:10	15.26	23.1	6.78	1.7	21	178	3,101	3	1.0		11	8.3	
TON-MW6s	3/1/2019	15:24	8.65									3.19			
TON-MW6s	3/1/2019	15:28		19.0	7.63	2.3	38	145	2,970		1.0		4		
TON-MW6s	3/1/2019	15:32		19.3	7.47	2.3	37	146	2,961		1.0		8		
TON-MW6s	3/1/2019	15:36		19.4	7.39	2.5	41	143	2,972		1.0		12		
TON-MW6s	3/1/2019	15:40		19.2	7.38	1.9	33	140	2,985		1.0		16		
TON-MW6s	3/1/2019	15:44	9.86	19.3	7.38	1.9	34	140	2,992	2	1.0		20	6.3	
TON-MW6s	5/22/2019	12:43	9.78									3			
TON-MW6s	5/22/2019	12:46		19.7	7.47	0.9	15	195	3,108		1.0		3		
TON-MW6s	5/22/2019	12:49		19.6	7.42	0.6	11	186	3,184		1.0		6		
TON-MW6s	5/22/2019	12:52		19.9	7.43	0.5	10	181	3,226		1.0		9		
TON-MW6s	5/22/2019	12:56		20.0	7.43	0.6	11	182	3,221		1.0		13		
TON-MW6s	5/22/2019	12:59	11.05	19.8	7.41	0.6	12	183	3,227	1	1.0		16	5.3	
TON-MW6s	8/21/2019	14:34	9.45									3.06			
TON-MW6s	8/21/2019	14:37		24.6	7.76	1.7	21	92	2,086		1.0		3		
TON-MW6s	8/21/2019	14:41		24.0	7.48	1.5	19	88	2,086		1.0		7		
TON-MW6s	8/21/2019	14:44		23.8	7.44	1.5	21	85	2,097		1.0		10		
TON-MW6s	8/21/2019	14:47		23.7	7.43	1.5	20	81	2,096		1.0		13		
TON-MW6s	8/21/2019	14:51	10.78	23.6	7.43	1.4	19	80	2,100	2	1.0		17	5.6	
TON-MW6s	11/14/2019	15:30	9.21									3.09			
TON-MW6s	11/14/2019	15:34		22.3	7.47	1.5	18	37	2,732		1.0		4		
TON-MW6s	11/14/2019	15:38		22.5	6.98	1.6	19	74	2,559		1.0		8		
TON-MW6s	11/14/2019	15:42		22.5	7.13	1.6	20	77	2,796		1.0		12		
TON-MW6s	11/14/2019	15:46		22.5	7.15	1.8	21	83	2,832		1.0		16		
TON-MW6s	11/14/2019	15:50	10.22	22.4	7.13	1.8	21	86	2,853	2	1.0		20	6.5	
TON-MW7s	3/1/2019	16:10	8.36									3.24			
TON-MW7s	3/1/2019	16:14		21.1	8.03	0.8	9	113	1,657		1.0		4		
TON-MW7s	3/1/2019	16:18		21.5	7.64	0.8	9	124	1,563		1.0		8		
TON-MW7s	3/1/2019	16:22		21.4	7.67	0.8	9	136	1,554		1.0		12		
TON-MW7s	3/1/2019	16:26		21.6	7.61	0.8	9	137	1,553		1.0		16		
TON-MW7s	3/1/2019	16:30	8.85	21.6	7.62	0.7	8	137	1,551	1	1.0		20	6.2	
TON-MW7s	5/22/2019	11:30	8.75									3.17			
TON-MW7s	5/22/2019	11:33		21.4	7.91	1.6	21	172	1,548		1.0		3		
TON-MW7s	5/22/2019	11:36		21.4	7.76	0.7	13	172	1,541		1.0		6		
TON-MW7s	5/22/2019	11:39		21.4	7.69	0.5	10	168	1,540		1.0		9		
TON-MW7s	5/22/2019	11:43		21.5	7.70	0.4	9	168	1,538		1.0		13		
TON-MW7s	5/22/2019	11:47	9.18	21.3	7.70	0.4	9	170	1,539	2	1.0		17	5.4	

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Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
TON-MW7s	8/21/2019	15:26	5.74									3.66			
TON-MW7s	8/21/2019	15:30		23.1	8.24	1.9	23	151	1,527		1.0		4		
TON-MW7s	8/21/2019	15:34		23.2	7.82	1.4	18	134	1,539		1.0		8		
TON-MW7s	8/21/2019	15:38		23.1	7.81	1.4	18	131	1,543		1.0		12		
TON-MW7s	8/21/2019	15:42		23.1	7.80	1.4	17	130	1,545		1.0		16		
TON-MW7s	8/21/2019	15:45		23.1	7.79	1.4	17	130	1,546	2	1.0		19	5.2	
TON-MW7s	11/14/2019	15:19	7.74									3.34			
TON-MW7s	11/14/2019	15:23		22.1	8.19	1.4	28	98	1,680		1.0		4		
TON-MW7s	11/14/2019	15:27		22.5	7.81	1.6	29	102	1,641		1.0		8		
TON-MW7s	11/14/2019	15:32		22.5	7.77	1.3	24	106	1,644		1.0		13		
TON-MW7s	11/14/2019	15:36		21.9	7.75	1.5	26	109	1,619		1.0		17		
TON-MW7s	11/14/2019	15:40	8.24	22.3	7.76	1.6	28	110	1,637	3	1.0		21	6.3	
TON-MW8s	3/1/2019	15:53	8.73									3.1			
TON-MW8s	3/1/2019	15:57		18.9	7.34	2.7	42	165	6,354		1.0		4		
TON-MW8s	3/1/2019	16:01		19.0	7.26	2.7	42	171	5,774		1.0		8		
TON-MW8s	3/1/2019	16:05		19.2	7.18	2.4	38	170	5,876		1.0		12		
TON-MW8s	3/1/2019	16:09		19.4	7.16	2.1	36	169	5,996		1.0		17		
TON-MW8s	3/1/2019	16:13	11.85	19.5	7.15	2.1	35	166	6,031	2	1.0		21	6.8	
TON-MW8s	5/22/2019	11:59	8.97									3.05			
TON-MW8s	5/22/2019	12:02		20.6	7.17	0.8	13	188	5,540		1.0		3		
TON-MW8s	5/22/2019	12:05		20.7	7.14	0.9	15	187	5,655		1.0		6		
TON-MW8s	5/22/2019	12:08		20.8	7.14	0.9	14	175	5,706		1.0		9		
TON-MW8s	5/22/2019	12:11		21.0	7.09	0.9	14	169	5,707		1.0		12		
TON-MW8s	5/22/2019	12:15	12.19	20.8	7.11	0.8	13	166	5,730	1	1.0		16	5.2	
TON-MW8s	8/21/2019	14:57	5.95									3.54			
TON-MW8s	8/21/2019	15:01		23.4	7.49	2.0	24	121	4,249		1.0		4		
TON-MW8s	8/21/2019	15:05		23.0	7.32	1.8	22	120	4,328		1.0		8		
TON-MW8s	8/21/2019	15:09		22.7	7.32	1.7	21	106	4,334		1.0		12		
TON-MW8s	8/21/2019	15:12		22.5	7.27	1.6	21	101	4,333		1.0		15		
TON-MW8s	8/21/2019	15:16	7.43	22.4	7.26	1.6	22	99	4,337	1	1.0		19	5.4	
TON-MW8s	11/14/2019	16:00	9.83									2.91			
TON-MW8s	11/14/2019	16:03		21.9	6.95	1.5	18	110	5,663		1.0		3		
TON-MW8s	11/14/2019	16:06		21.7	6.92	1.5	18	112	5,550		1.0		6		
TON-MW8s	11/14/2019	16:10		21.7	6.93	1.5	17	114	5,473		1.0		10		
TON-MW8s	11/14/2019	16:13		21.7	6.92	1.5	18	115	5,405		1.0		13		
TON-MW8s	11/14/2019	16:16	11.22	21.6	6.92	1.4	17	116	5,354	2	1.0		16	5.5	

North Area

BRE-MW1s	2/12/2019		20.47									2			
BRE-MW1s	2/12/2019	10:25		NM	6.08	6.08	67	139.5	540		0.66		2		
BRE-MW1s	2/12/2019	10:28		NM	6.37	5.95	66	130.2	478		0.66		4		
BRE-MW1s	2/12/2019	10:31		NM	6.48	5.31	62	127.1	460		0.66		6		

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Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
BRE-MW1s	2/12/2019	10:34		NM	6.49	5.23	61	125.8	464		0.66		8		
BRE-MW1s	2/12/2019	10:37	21.38	NM	6.50	5.23	61	125.1	463	35	0.66		10	5	
BRE-MW1s	8/16/2019	9:30	15.81									3			
BRE-MW1s	8/16/2019	9:36		25	8.77	4.05	50	94.1	681		0.5		3		
BRE-MW1s	8/16/2019	9:42		24	7.97	4.58	56	100.4	537		0.5		6		
BRE-MW1s	8/16/2019	9:48		22	7.41	5.03	59	100.9	535		0.5		9		
BRE-MW1s	8/16/2019	9:59		21	7.40	5.02	59	100.8	535		0.5		12		
BRE-MW1s	8/16/2019	10:00	16.09	21	7.40	5.02	59	100.9	535	2.3	0.5		15	5	
BRE-MW1d	11/25/2019	9:20	69.65									5.4			
BRE-MW1d	11/25/2019	9:23		21.0	8.06	6.17	67	64.7	QM		1.83		5.5		
BRE-MW1d	11/25/2019	9:26		20.7	7.47	6.23	69	74.3	QM		1.83		16.5		
BRE-MW1d	11/25/2019	9:29		20.4	7.34	6.05	68	73.3	QM		1.83		22		
BRE-MW1d	11/25/2019	9:32		20.4	7.31	6.03	68	73.0	QM		1.83		27.5		
BRE-MW1d	11/25/2019	9:35	71.31	20.1	7.28	6.00	67	73.2	QM	94.48	1.83		33	6.1	
BRE-MW2s	2/12/2019		74.05									5.5			
BRE-MW2s	2/12/2019	11:00		17.8	6.89	7.68	72	152.4	350.7		1.1		5.5		
BRE-MW2s	2/12/2019	11:05		17.8	6.95	8.01	70	146.6	353.2		1.1		11		
BRE-MW2s	2/12/2019	11:10		17.6	7.01	8.17	70	142.7	356.9		1.1		16.5		
BRE-MW2s	2/12/2019	11:15		17.5	7.02	8.23	70	140.5	357.5		1.1		22		
BRE-MW2s	2/12/2019	11:20	75.28	17.5	7.04	8.25	70	139.1	357.9	526	1.1		27.5	5	
BRE-MW2s	8/16/2019	10:30	92.24									2.5			
BRE-MW2s	8/16/2019	10:33		22	7.47	3.65	42	107.3	404.3		0.8		2.5		
BRE-MW2s	8/16/2019	10:36		21	7.25	3.67	42	118.4	381.2		0.8		5		
BRE-MW2s	8/16/2019	10:39		20	7.27	4.19	47	114.4	355.1		0.8		7.5		
BRE-MW2s	8/16/2019	10:42		20	7.25	4.20	47	114.3	355.1		0.8		10		
BRE-MW2s	8/16/2019	10:45	92.57	20	7.25	4.20	47	114.4	355.0	9.99	0.8		12.5	5	
BRE-MW2d	11/25/2019	9:55	80.00									7.84			
BRE-MW2d	11/25/2019	9:58		19.6	7.55	7.30	81	75.7	372.1		2.6		7.8		
BRE-MW2d	11/25/2019	10:01		17.9	7.58	7.34	81	68.9	367.4		2.6		15.6		
BRE-MW2d	11/25/2019	10:04		17.7	7.60	7.37	81	68.3	367.9		2.6		23.7		
BRE-MW2d	11/25/2019	10:07		17.7	7.61	7.40	81	68.5	370.3		2.6		31.2		
BRE-MW2d	11/25/2019	10:10	80.21	17.5	7.61	7.41	82	68.4	370.6	271.3	2.6		39	5	
BRE-MW3s	2/12/2019		60.47									6.5			
BRE-MW3s	2/12/2019	11:45		17.5	6.95	6.92	68	38.2	312.1		1.3		6.5		
BRE-MW3s	2/12/2019	11:50		17.8	6.97	6.87	71	37.6	310.5		1.3		13		
BRE-MW3s	2/12/2019	11:55		17.9	7.10	6.99	74	41.5	307.9		1.3		19.5		
BRE-MW3s	2/12/2019	12:00		18.0	7.12	7.00	74	41.7	307.2		1.3		26		
BRE-MW3s	2/12/2019	12:05	61.73	18.0	7.13	7.06	75	42.0	305.9	324	1.3		32.5	5	
BRE-MW3s	5/8/2019	10:25	60.68									4			
BRE-MW3s	5/8/2019	10:30		20.8	7.18	77.2	82	129.7	352		NM		NM		
BRE-MW3s	5/8/2019	10:35		19.9	7.20	6.07	70	129.8	338		NM		NM		
BRE-MW3s	5/8/2019	10:40		19.6	7.22	6.00	67	120.3	319		NM		NM		
BRE-MW3s	5/8/2019	10:45		19.6	7.20	5.97	67	122.4	310		NM		NM		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
BRE-MW3s	5/8/2019	10:50		19.6	7.23	9.92	66	121.5	311	774	NM		NM		
BRE-MW3s	8/16/2019	11:05	78.79									3.6			
BRE-MW3s	8/16/2019	11:09		21	7.51	2.69	31	125.5	329.7		0.9		3.6		
BRE-MW3s	8/16/2019	11:13		19	7.42	2.75	31	129.5	319.3		0.9		7.2		
BRE-MW3s	8/16/2019	11:17		19	7.42	2.91	32	127.0	316.8		0.9		10.8		
BRE-MW3s	8/16/2019	11:21		19	7.42	2.90	32	127.4	316.8		0.9		14.4		
BRE-MW3s	8/16/2019	11:25	78.91	19	7.42	2.90	32	127.3	316.7	6.6	0.9		18	5	
BRE-MW3s	11/25/2019	10:34	76.73									4			
BRE-MW3s	11/25/2019	10:37		17.3	7.68	7.49	81	94.6	311.6		1.3		4		
BRE-MW3s	11/25/2019	10:40		17.3	7.71	7.43	80	81.7	327.7		1.3		8		
BRE-MW3s	11/25/2019	10:43		17.3	7.75	7.40	80	81.4	330.1		1.3		12		
BRE-MW3s	11/25/2019	10:46		17.4	7.75	7.38	80	81.1	330.3		1.3		16		
BRE-MW3s	11/25/2019	10:49	76.84	17.4	7.75	7.36	79	80.9	330.7	98.7	1.3		20	5	
CRE-MW1s	2/13/2019		0.07									2.5			
CRE-MW1s	2/13/2019	10:00		12.3	6.85	3.57	34	89.3	1,400		0.63		2.5		
CRE-MW1s	2/13/2019	10:14		12.9	6.63	1.78	14	82.8	1,414		0.63		5		
CRE-MW1s	2/13/2019	10:18		13.3	6.52	1.38	14	77.6	1,430		0.63		7.5		
CRE-MW1s	2/13/2019	10:24		13.3	6.50	1.35	13	77.1	1,434		0.63		10		
CRE-MW1s	2/13/2019	10:28	2.13	13.4	6.48	1.33	13	76.9	1,438	351	0.63		12.5	5	
CRE-MW1s	5/7/2019		4.08									2			
CRE-MW1s	5/7/2019	9:55		16.5	7.72	1.63	17	99.8	QM		0.4		2		
CRE-MW1s	5/7/2019	10:00		16.4	7.53	1.77	17	98.7	QM		0.4		4		
CRE-MW1s	5/7/2019	10:05		16.3	7.37	1.83	19	98.4	QM		0.4		6		
CRE-MW1s	5/7/2019	10:10		16.3	7.38	1.88	19	95.2	QM		0.4		8		
CRE-MW1s	5/7/2019	10:15	4.12	16.3	7.40	1.90	19	91.6	QM	21	0.4		10	5	
CRE-MW1s	8/16/2019	11:28	4.20									1.9			
CRE-MW1s	8/16/2019	11:31		23.5	6.67	2.45	30	-16.1	1,768		1.0		2		
CRE-MW1s	8/16/2019	11:33		23.9	6.70	2.30	22	-15.0	1,800		1.0		4		
CRE-MW1s	8/16/2019	11:35		24.0	6.70	2.15	23	-13.8	1,809		1.0		6		
CRE-MW1s	8/16/2019	11:37		24.0	6.69	2.10	22	-14.2	1,806		1.0		8		
CRE-MW1s	8/16/2019	11:39	4.35	24.0	6.68	2.01	21	-15.6	1,804	28.2	1.0		10	5.3	
CRE-MW1s	11/25/2019	11:32	5.50									1.68			
CRE-MW1s	11/25/2019	11:35		19.4	7.06	4.29	47	86	1,639		0.6		1.8		
CRE-MW1s	11/25/2019	11:38		19.6	6.87	4.44	49	98.2	1,644		0.6		3.6		
CRE-MW1s	11/25/2019	11:41		20.3	7.19	2.28	24	99.2	1,646		0.6		5.4		
CRE-MW1s	11/25/2019	11:44		20.3	7.21	2.13	23	99.7	1,650		0.6		7.2		
CRE-MW1s	11/25/2019	11:47	5.67	20.4	7.23	2.11	23	99.9	1,653	27.6	0.6		9	5.4	
CRE-MW2s	2/13/2019		2.42									3			
CRE-MW2s	2/13/2019	10:38		12.0	6.48	4.28	43	85.5	1,069		0.6		3		
CRE-MW2s	2/13/2019	10:43		11.9	6.57	3.97	40	81.2	1,075		0.6		6		
CRE-MW2s	2/13/2019	10:48		11.7	6.60	3.78	36	74.5	1,077		0.6		9		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
CRE-MW2s	2/13/2019	10:53		11.6	6.64	3.77	35	74.5	1,080		0.6		12		
CRE-MW2s	2/13/2019	10:58		11.7	6.65	3.76	35	72.6	1,096	263	0.6		15	5	
CRE-MW2s	5/7/2019		5.26									2.5			
CRE-MW2s	5/7/2019	10:30		17.4	8.70	3.00	30	41.3	QM				2.5		
CRE-MW2s	5/7/2019	10:35		16.5	8.51	2.98	30	48.8	QM				5		
CRE-MW2s	5/7/2019	10:40		15.9	8.32	2.97	30	57.6	QM				7.5		
CRE-MW2s	5/7/2019	10:45		16.0	8.30	2.94	29	59.9	QM				10		
CRE-MW2s	5/7/2019	10:50	5.68	15.9	8.29	2.93	29	63.1	QM	37			10.5	4.2	
CRE-MW2s	8/16/2019	11:00	4.55									2.28			
CRE-MW2s	8/16/2019	11:03	4.8	23.2	7.15	2.85	31	-37.0	946		1.0		2.4		
CRE-MW2s	8/16/2019	11:06		23.1	6.81	2.38	31	-40.5	900		1.0		4.8		
CRE-MW2s	8/16/2019	11:09		23.0	6.81	2.41	29	-42.0	897		1.0		7.2		
CRE-MW2s	8/16/2019	11:12		23.1	6.80	2.35	29	-42.9	895		1.0		9.6		
CRE-MW2s	8/16/2019	11:15	4.35	23.1	6.79	2.29	29	-44.4	887	215	1.0		12	5.3	
CRE-MW2s	11/25/2019	11:13	6.58									2			
CRE-MW2s	11/25/2019	11:17		18.46	7.00	2.51	28	176	1,258		0.5		2		
CRE-MW2s	11/25/2019	11:21		18.42	7.02	2.59	28	177	1,249		0.5		4		
CRE-MW2s	11/25/2019	11:25		18.39	7.02	2.66	28	178	1,255		0.5		6		
CRE-MW2s	11/25/2019	11:29		18.37	7.03	2.70	28	178	1,250		0.5		8		
CRE-MW2s	11/25/2019	11:33	8.33	18.36	7.04	2.76	28	179	1,251	147	0.5		10	5	
CRE-MW3s	2/13/2019		1.94									2			
CRE-MW3s	2/13/2019	9:10		12.4	6.82	2.94	28	89.5	1,935				2		
CRE-MW3s	2/13/2019	9:13		12.0	6.87	2.07	19	88.6	1,682				4		
CRE-MW3s	2/13/2019	9:16		12.0	6.79	1.49	14	87.0	1,494				6		
CRE-MW3s	2/13/2019	9:19		11.9	6.78	1.48	14	87.2	1,478				8		
CRE-MW3s	2/13/2019	9:22	3.42	11.9	6.78	1.47	14	85.8	1,433	478			10	5	
CRE-MW3s	5/7/2019		4.67									1.5			
CRE-MW3s	5/7/2019	9:28		16.9	6.93	5.42	52	183	QM		0.5		1.5		
CRE-MW3s	5/7/2019	9:31		16.9	6.74	5.49	52	177	QM		0.5		3		
CRE-MW3s	5/7/2019	9:34		16.9	6.69	3.55	39	169	QM		0.5		4.5		
CRE-MW3s	5/7/2019	9:37		16.9	6.67	3.51	39	165	QM		0.5		6		
CRE-MW3s	5/7/2019	9:40	6.12	16.9	6.65	3.50	36	169	QM	38	0.5		7.5	5	
CRE-MW3s	8/16/2019	10:39	4.37									1.71			
CRE-MW3s	8/16/2019	10:41		21.4	6.76	5.60	54	8.1	1,720		1.0		1.8		
CRE-MW3s	8/16/2019	10:43		21.2	6.81	2.9	21	-13.5	1,703		1.0		3.6		
CRE-MW3s	8/16/2019	10:45		21.3	6.82	1.90	21	-36.2	1,704		1.0		5.4		
CRE-MW3s	8/16/2019	10:47		21.3	6.82	1.96	22	-38.9	1,704		1.0		7.2		
CRE-MW3s	8/16/2019	10:49	4.45	21.3	6.82	1.83	21	-42.1	1,702	9.59	1.0		9	5.3	
CRE-MW3s	11/25/2019	10:42	5.52									1.55			
CRE-MW3s	11/25/2019	10:45		17.41	7.06	1.86	21	281	1,540		0.6		1.8		
CRE-MW3s	11/25/2019	10:48		17.49	7.10	1.74	19	282	1,539		0.6		3.6		
CRE-MW3s	11/25/2019	10:51		17.52	7.12	1.60	19	285	1,480		0.6		5.4		
CRE-MW3s	11/25/2019	10:54		17.54	7.15	1.52	19	286	1,472		0.6		7.2		

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Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
CRE-MW3s	11/25/2019	10:57	7.26	17.57	7.17	1.50	18	288	1,466	177	0.6		9	5.8	
MTS-MW1	2/13/2019		64.10									3			
MTS-MW1	2/13/2019	13:23		15.2	6.97	5.98	69	105.8	932		0.75		3		
MTS-MW1	2/13/2019	13:27		14.8	6.75	5.90	67	104.7	915		0.75		6		
MTS-MW1	2/13/2019	13:31		14.7	6.89	5.86	66	102.8	889		0.75		9		
MTS-MW1	2/13/2019	13:35		14.6	6.89	5.87	66	102.6	882		0.75		12		
MTS-MW1	2/13/2019	13:39	65.73	14.6	6.88	5.89	65	101.9	873	453	0.75		15	5	
MTS-MW1	5/7/2019											4.5			
MTS-MW1	5/7/2019	12:15		19.5	7.70	7.45	78	78.0	QM		NM		NM		
MTS-MW1	5/7/2019	12:20		19.6	7.70	6.12	69	78.2	QM		NM		NM		
MTS-MW1	5/7/2019	12:25		19.7	7.69	5.79	61	78.7	QM		NM		NM		
MTS-MW1	5/7/2019	12:30		19.7	7.67	5.71	58	82.1	QM		NM		NM		
MTS-MW1	5/7/2019	12:35		19.7	7.66	5.69	58	83.6	QM	278	NM		NM		
MTS-MW1	8/16/2019	8:35	57.70									4.08			
MTS-MW1	8/16/2019	8:39		22.7	7.59	4.51	49	22.7	1,307		1.0		4.1		
MTS-MW1	8/16/2019	8:43		23.0	7.03	3.49	42	12.3	1,283		1.0		8.2		
MTS-MW1	8/16/2019	8:47		23.0	7.03	3.58	43	9.1	1,215		1.0		12.3		
MTS-MW1	8/16/2019	8:51		22.9	7.04	3.50	43	8.9	1,219		1.0		16.4		
MTS-MW1	8/16/2019	8:55	57.77	23.0	7.03	3.42	42	8.7	1,216	179	1.0		20.6	5	
MTS-MW1	11/25/2019	8:38	63.16									3.2			
MTS-MW1	11/25/2019	8:42		17.69	7.16	2.79	36	96	QM		0.8		3.2		
MTS-MW1	11/25/2019	8:46		17.63	7.12	2.85	37	102	QM		0.8		6.4		
MTS-MW1	11/25/2019	8:50		17.60	7.10	2.92	37	105	QM		0.8		9.6		
MTS-MW1	11/25/2019	8:54		17.61	7.07	2.99	37	107	QM		0.8		12.8		
MTS-MW1	11/25/2019	8:58	63.71	17.64	7.04	3.07	37	108	QM	61	0.8		16	5	
MTS-MW2d	5/7/2019		50.14									2.5			
MTS-MW2d	5/7/2019	12:44		19.0	7.73	5.31	54	77.6	QM		0.6		2.5		
MTS-MW2d	5/7/2019	12:48		18.7	7.61	5.27	53	80.7	QM		0.6		5		
MTS-MW2d	5/7/2019	12:52		18.5	7.53	5.02	51	83.3	QM		0.6		7.5		
MTS-MW2d	5/7/2019	12:56		18.5	7.50	4.99	51	86.8	QM		0.6		10		
MTS-MW2d	5/7/2019	13:00	51.32	18.6	7.49	4.97	50	88.1	QM	262	0.6		12.5	5	
MTS-MW2d	8/16/2019	9:47	52.78									1.99			
MTS-MW2d	8/16/2019	9:49		20.5	6.76	8.95	80	12.1	928		1.0		2		
MTS-MW2d	8/16/2019	9:51		20.5	6.74	3.66	42	3.0	915		1.0		4		
MTS-MW2d	8/16/2019	9:53		20.5	6.74	3.58	42	-0.8	914		1.0		6		
MTS-MW2d	8/16/2019	9:55		20.6	6.74	3.60	42	-2.9	913		1.0		8		
MTS-MW2d	8/16/2019	9:57	53.09	20.5	6.79	3.52	42	-4.3	913	159	1.0		10	5	
MTS-MW2d	11/25/2019	9:06	57.82									1.2			
MTS-MW2d	11/25/2019	9:09		17.69	7.02	2.39	30	116	QM		0.4		1.2		
MTS-MW2d	11/25/2019	9:12		17.84	7.06	2.36	38	116	QM		0.4		2.4		
MTS-MW2d	11/25/2019	9:15		17.84	7.10	3.11	38	118	QM		0.4		3.6		

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Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
MTS-MW2d	11/25/2019	9:18		17.90	7.12	3.30	39	121	QM		0.4		4.8		
MTS-MW2d	11/25/2019	9:21	58.80	17.87	7.13	3.31	39	123	QM	481	0.4		6	5	
MTS-MW3d	5/7/2019		48.48									3			
MTS-MW3d	5/7/2019	13:07		19.8	7.42	5.75	58	90.5	QM		0.6		3		
MTS-MW3d	5/7/2019	13:12		19.0	7.35	5.51	55	92.7	QM		0.6		6		
MTS-MW3d	5/7/2019	13:17		19.9	7.30	5.25	54	93.8	QM		0.6		9		
MTS-MW3d	5/7/2019	13:22		19.9	7.27	5.22	52	98.1	QM		0.6		12		
MTS-MW3d	5/7/2019	13:27		19.9	7.25	5.20	52	101.2	QM	>1,000	0.6		15	5	
MTS-MW3d	8/16/2019	9:10	51.33									2.85			
MTS-MW3d	8/16/2019	9:13		21.9	7.01	6.58	70	45.3	1,323		1.0		2.9		
MTS-MW3d	8/16/2019	9:16		21.6	6.57	3.71	46	30.3	1,205		1.0		5.8		
MTS-MW3d	8/16/2019	9:19		21.5	6.58	3.60	40	21.7	1,023		1.0		8.7		
MTS-MW3d	8/16/2019	9:22		21.5	6.58	3.66	38	22.2	1,018		1.0		11.6		
MTS-MW3d	8/16/2019	9:25	51.45	21.5	6.55	3.51	38	20.2	1,007	113	1.0		14.5	5.1	
MTS-MW3d	11/25/2019	9:35	55.81									2.2			
MTS-MW3d	11/25/2019	9:39		18.09	7.04	1.19	14	89	QM		0.6		2.4		
MTS-MW3d	11/25/2019	9:43		18.02	6.99	1.08	13	92	QM		0.6		4.8		
MTS-MW3d	11/25/2019	9:47		18.05	6.96	1.02	13	95	QM		0.6		7.2		
MTS-MW3d	11/25/2019	9:51		18.07	6.95	1.00	13	95	QM		0.6		9.6		
MTS-MW3d	11/25/2019	9:55	57.20	18.02	6.95	1.00	13	93	QM	288	0.6		12	5.5	

South Area

AUK-MW1	2/20/2019	15:30	66.71									3.4			
AUK-MW1	2/20/2019	15:33		20.4	7.16	4.59	55	150	1,496		1.0		3.5		
AUK-MW1	2/20/2019	15:37		20.5	7.14	4.36	55	147	1,502		1.0		7		
AUK-MW1	2/20/2019	15:40		20.5	7.13	4.11	55	142	1,504		1.0		10.5		
AUK-MW1	2/20/2019	15:44		20.4	7.12	4.00	55	140	1,504		1.0		14		
AUK-MW1	2/20/2019	15:47	68.00	20.4	7.12	3.92	55	137	1,505	>1,000	1.0		17.5	5.1	
AUK-MW1	5/14/2019	16:55	64.5									3.8			
AUK-MW1	5/14/2019	17:00		20.6	7.16	2.10	21	42.1	1,261		0.8		3.8		
AUK-MW1	5/14/2019	17:05		20.7	7.10	2.01	18	40.6	1,231		0.8		7.6		
AUK-MW1	5/14/2019	17:10		20.6	7.08	1.96	18	38.0	1,230		0.8		11.4		
AUK-MW1	5/14/2019	17:15		20.6	7.08	1.93	18	37.1	1,230		0.8		15.2		
AUK-MW1	5/14/2019	17:20	69.10	20.6	7.08	1.95	18	37.6	1,231	126	0.8		19	5	
AUK-MW1	8/13/2019	17:33	61.45									4.18			
AUK-MW1	8/13/2019	17:38		21.0	6.93	5.97	68	13.0	1,796		1.0		4.2		
AUK-MW1	8/13/2019	17:42		20.2	6.98	5.96	66	2.5	1,738		1.0		8.4		
AUK-MW1	8/13/2019	17:46		19.7	6.99	5.76	65	1.3	1,688		1.0		12.6		
AUK-MW1	8/13/2019	17:49		19.7	6.99	5.88	66	0.6	1,700		1.0		16.8		
AUK-MW1	8/13/2019	17:53	62.31	19.7	6.98	5.80	67	-0.2	1,695	>1,000	1.0		21	5	
AUK-MW1	11/20/2019	12:20	55.15									5.25			
AUK-MW1	11/20/2019	12:25		19.27	6.44	2.84	30	161	QM		1.0		5.25		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
AUK-MW1	11/20/2019	12:31		19.42	6.41	2.85	30	177	QM		1.0		10.5		
AUK-MW1	11/20/2019	12:36		19.44	6.45	2.52	27	190	QM		1.0		15.75		
AUK-MW1	11/20/2019	12:41		19.40	6.46	2.49	27	192	QM		1.0		21		
AUK-MW1	11/20/2019	12:46	57.61	19.41	6.48	2.49	27	195	QM	61	1.0		26.25	5	
AUK-MW2	2/20/2019	15:58	67.11									4.25			
AUK-MW2	2/20/2019	16:01		20.3	7.22	3.78	46	168	1,353		1.5		4.5		
AUK-MW2	2/20/2019	16:04		20.3	7.20	3.70	45	140	1,350		1.5		9		
AUK-MW2	2/20/2019	16:07		20.3	7.20	3.50	44	110	1,349		1.5		13.5		
AUK-MW2	2/20/2019	16:10		20.3	7.21	3.47	44	100	1,346		1.5		18		
AUK-MW2	2/20/2019	16:13	69.19	20.3	7.20	3.45	44	100	1,341	639	1.5		22.5	5.3	
AUK-MW2	5/14/2019	15:35	69.90									3.9			
AUK-MW2	5/14/2019	15:40		18.4	6.71	2.60	21	56.2	1,206		0.8		3.9		
AUK-MW2	5/14/2019	15:49		18.6	6.69	2.30	20	59.0	1,200		0.8		7.8		
AUK-MW2	5/14/2019	15:50		18.6	6.68	2.10	20	61.2	1,196		0.8		11.7		
AUK-MW2	5/14/2019	15:55		18.7	6.68	2.07	20	61.9	1,196		0.8		15.6		
AUK-MW2	5/14/2019	16:00	74.19	18.7	6.68	2.06	20	62.1	1,195	206	0.8		19.5	5	
AUK-MW2	8/13/2019	16:25	62.72									4.92			
AUK-MW2	8/13/2019	16:30		22.0	6.77	7.02	81	30.8	1,793		1.0		5		
AUK-MW2	8/13/2019	16:35		20.8	6.70	4.70	52	6.0	1,748		1.0		10		
AUK-MW2	8/13/2019	16:40		20.3	6.68	4.67	51	2.6	1,721		1.0		15		
AUK-MW2	8/13/2019	16:45		20.3	6.68	4.59	49	4.7	1,734		1.0		20		
AUK-MW2	8/13/2019	16:50	62.85	20.3	6.68	4.63	52	4.5	1,739	151	1.0		25	5.1	
AUK-MW2	11/20/2019	12:54	57.00									5.86			
AUK-MW2	11/20/2019	12:58		18.69	7.49	4.53	49	181	QM		1.5		6		
AUK-MW2	11/20/2019	13:02		18.74	7.38	4.47	48	185	QM		1.5		12		
AUK-MW2	11/20/2019	13:06		18.76	7.36	4.32	45	183	QM		1.5		18		
AUK-MW2	11/20/2019	13:10		18.71	7.35	4.23	45	181	QM		1.5		24		
AUK-MW2	11/20/2019	13:14		18.73	7.35	4.22	45	180	QM	139	1.5		30	5.1	
AUK-MW3	2/20/2019	15:38	67.28									5			
AUK-MW3	2/20/2019	15:43		18.4	7.23	4.39	56	164	1,999		1		5		
AUK-MW3	2/20/2019	15:48		18.4	7.12	4.27	54	145	1,980		1		10		
AUK-MW3	2/20/2019	15:53		18.4	6.98	4.03	53	143	1,977		1		15		
AUK-MW3	2/20/2019	15:58		18.5	6.97	3.91	53	141	1,971		1		20		
AUK-MW3	2/20/2019	16:03	69.06	18.5	6.95	3.86	53	138	1,960	25	1		25	5	
AUK-MW3	5/14/2019	16:15	69.40									4.5			
AUK-MW3	5/14/2019	16:20		19.6	6.96	2.61	36	46.2	1,386		0.9		4.5		
AUK-MW3	5/14/2019	16:25		19.2	6.90	2.80	38	58.1	1,380		0.9		9		
AUK-MW3	5/14/2019	16:30		19.2	6.86	2.76	39	59.0	1,376		0.9		13.5		
AUK-MW3	5/14/2019	16:35		19.2	6.87	2.73	39	60.0	1,374		0.9		18		
AUK-MW3	5/14/2019	16:40	74.61	19.1	6.87	2.71	39	60.4	1,373	86	0.9		22.5	5	
AUK-MW3	8/13/2019	15:35	62.97									5.41			
AUK-MW3	8/13/2019	15:39		22.0	6.84	3.22	39	-3.4	1,693		1.0		5.5		
AUK-MW3	8/13/2019	15:44		22.0	6.84	3.30	38	-7.1	1,695		1.0		11		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
AUK-MW3	8/13/2019	15:50		22.0	6.85	3.18	37	-6.2	1,705		1.0		16.5		
AUK-MW3	8/13/2019	15:56		21.9	6.83	3.05	34	-6.3	1,702		1.0		22		
AUK-MW3	8/13/2019	16:03	63.12	21.9	6.83	3.13	35	-6.3	1,700	229	1.0		22.5	4.2	
AUK-MW3	11/20/2019	13:35	59.90									6			
AUK-MW3	11/20/2019	13:39		18.24	6.71	5.47	59	175	QM		1.5		6		
AUK-MW3	11/20/2019	13:43		18.36	6.76	4.8	51	179	QM		1.5		12		
AUK-MW3	11/20/2019	13:47		18.45	6.78	4.88	51	180	QM		1.5		18		
AUK-MW3	11/20/2019	13:51		18.49	6.80	4.97	53	180	QM		1.5		24		
AUK-MW3	11/20/2019	13:55		18.53	6.81	5.02	54	180	QM	219	1.5		30	5	
DLF-MW2	8/13/2019	12:17	93.85									18.62			
DLF-MW2	8/13/2019	12:35		23.1	6.53	2.73	33	96.4	QM		1.0		18.62		
DLF-MW2	8/13/2019	12:53		19.9	6.61	2.65	33	91.1	QM		1.0		37.24		
DLF-MW2	8/13/2019	13:11		19.6	6.62	2.63	33	89.7	QM		1.0		55.86		
DLF-MW2	8/13/2019	13:29		19.5	6.63	2.61	33	89.7	QM		1.0		74.48		
DLF-MW2	8/13/2019	13:47	94.92	19.5	6.63	2.61	33	89.8	QM	17	1.0		93.1	5	
DLF-MW4A	8/13/2019	10:50	78.12									3.94			
DLF-MW4A	8/13/2019	10:54		21.4	6.96	5.51	66	-0.1	QM		1.0		4		
DLF-MW4A	8/13/2019	10:58		21.5	6.88	5.23	61	-10.9	QM		1.0		8		
DLF-MW4A	8/13/2019	11:02		20.9	6.90	5.95	68	-9.7	QM		1.0		12		
DLF-MW4A	8/13/2019	11:07		20.5	6.90	6.02	68	-0.6	QM		1.0		16		
DLF-MW4A	8/13/2019	11:11	79.15	20.6	6.85	5.82	69	-1.7	QM	16.7	1.0		20	5.1	
DLF-MW4B	11/20/2019		117.05									3.5			
DLF-MW4B	11/20/2019	9:18		19	6.95	5.62	60	133.1	902		0.9		3.5		
DLF-MW4B	11/20/2019	9:22		18.2	6.99	5.53	58	128.3	952		0.9		7		
DLF-MW4B	11/20/2019	9:26		17.6	7.17	5.51	58	119.8	982		0.9		10.5		
DLF-MW4B	11/20/2019	9:32		17.5	7.18	5.49	56	117.5	990		0.9		14		
DLF-MW4B	11/20/2019	9:34	118.32	17.2	7.20	5.46	56	115.6	993	86	0.9		17.5	5	
DLF-MW5A	5/14/2019	9:26	74.50									7.3			
DLF-MW5A	5/14/2019	9:31		20.0	7.36	1.09	16	-40.1	QM		1.5		7.3		
DLF-MW5A	5/14/2019	9:36		19.8	7.31	0.96	17	-38.0	QM		1.5		14.6		
DLF-MW5A	5/14/2019	9:41		19.7	7.30	0.93	17	-37.1	QM		1.5		21.9		
DLF-MW5A	5/14/2019	9:46		19.7	7.30	0.92	17	-36.5	QM		1.5		29.2		
DLF-MW5A	5/14/2019	9:51	79.10	19.7	7.30	0.92	17	-36.3	QM	46	1.5		36.5	5	
DLF-MW5B	8/13/2019	9:43	109.19									7.84			
DLF-MW5B	8/13/2019	9:58		20.0	7.27	3.57	51	26.9	QM		1.0		7.9		
DLF-MW5B	8/13/2019	10:06		22.0	7.21	6.96	75	12.5	QM		1.0		15.8		
DLF-MW5B	8/13/2019	10:12		22.2	7.20	7.00	79	10.1	QM		1.0		23.7		
DLF-MW5B	8/13/2019	10:18		22.1	7.19	7.15	80	9.0	QM		1.0		31.6		
DLF-MW5B	8/13/2019	10:24	110.1	22.3	7.19	7.05	82	8.4	QM	10.3	1.0		39.5	5	
DLF-MW5A	11/20/2019		93.00									4			
DLF-MW5A	11/20/2019	8:50		18.3	8.22	6.94	72	101.7	QM		1		4		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
DLF-MW5A	11/20/2019	8:54		18.0	7.82	6.23	65	105.6	QM		1		8		
DLF-MW5A	11/20/2019	8:58		17.9	7.57	5.55	58	107.2	QM		1		12		
DLF-MW5A	11/20/2019	9:02		17.9	7.55	5.51	57	110.2	QM		1		16		
DLF-MW5A	11/20/2019	9:06	97.16	17.9	7.53	5.50	56	111.9	QM	>1,000	1		20	5	
DLF-MW6C	2/14/2019	12:11	128.61									2			
DLF-MW6C	2/14/2019	12:15		17.1	6.89	4.96	61	160	896		0.5		2		
DLF-MW6C	2/14/2019	12:19		17.2	6.91	5.11	62	166	901		0.5		4		
DLF-MW6C	2/14/2019	12:23		17.2	6.92	5.23	63	167	904		0.5		6		
DLF-MW6C	2/14/2019	12:27		17.2	6.93	5.31	63	167	907		0.5		8		
DLF-MW6C	2/14/2019	12:31	128.90	17.2	6.95	5.35	64	167	910	310	0.5		10	5	
DLF-MW6C	5/14/2019	8:40	110.20									4.9			
DLF-MW6C	5/14/2019	8:45		18.4	6.96	2.13	21	-45.2	QM		1.0		5		
DLF-MW6C	5/14/2019	8:50		18.3	7.01	1.96	20	-48.1	QM		1.0		10		
DLF-MW6C	5/14/2019	8:55		18.3	7.04	1.96	20	-50.2	QM		1.0		15		
DLF-MW6C	5/14/2019	9:00		18.2	7.05	1.84	20	-50.6	QM		1.0		20		
DLF-MW6C	5/14/2019	9:05	113.61	18.2	7.05	1.82	20	-50.9	QM	36	1.0		25	5.1	
DLF-MW6C	8/13/2019	8:32	108.35									5.15			
DLF-MW6C	8/13/2019	8:38		22.7	6.68	5.44	61	82.0	QM		1.0		5.2		
DLF-MW6C	8/13/2019	8:46		20.9	6.72	3.93	44	67.5	QM		1.0		10.4		
DLF-MW6C	8/13/2019	8:52		21.1	6.72	3.47	40	53.8	QM		1.0		15.6		
DLF-MW6C	8/13/2019	8:58		21.0	6.72	3.45	40	55.1	QM		1.0		20.8		
DLF-MW6C	8/13/2019	9:04	108.55	21.0	6.73	3.41	39	52.4	QM	12.1	1.0		26	5	
DLF-MW6D	11/20/2019		104.18									11.3			
DLF-MW6D	11/20/2019	7:55		17.8	6.79	3.49	36	148.1	1,306		2.25		11.3		
DLF-MW6D	11/20/2019	8:00		17.9	6.86	2.86	30	140.2	1,386		2.25		22.6		
DLF-MW6D	11/20/2019	8:05		18.6	7.17	2.24	24	137.3	1,441		2.25		33.9		
DLF-MW6D	11/20/2019	8:10		18.6	7.18	2.20	24	135.6	1,450		2.25		45.2		
DLF-MW6D	11/20/2019	8:15	108.4	18.6	7.20	2.20	23	133.4	1,452	279	2.25		56.12	5	
ZZI-MW1D	5/22/2019		106.60									5			
ZZI-MW1D	5/22/2019	14:40		19.4	8.14	1.70	21	52	QM		0.5		5		
ZZI-MW1D	5/22/2019	14:50		19.4	8.10	1.68	20	60	QM		0.5		10		
ZZI-MW1D	5/22/2019	15:00		19.5	8.05	1.64	19	65	QM		0.5		15		
ZZI-MW1D	5/22/2019	15:10		19.5	8.02	1.63	19	68	QM		0.5		20		
ZZI-MW1D	5/22/2019	15:20	113.08	19.5	8.00	1.60	19	71	QM	81	0.5		25	5	
ZZI-MW1C	8/14/2019	7:59	105.37									3.57			
ZZI-MW1C	8/14/2019	8:05		20.8	8.14	1.59	18	13.0	740		1.0		3.4		
ZZI-MW1C	8/14/2019	8:10		20.5	7.89	0.74	8	-22.1	720		1.0		6.8		
ZZI-MW1C	8/14/2019	8:14		20.5	7.87	0.61	7	-29.9	730		1.0		10.2		
ZZI-MW1C	8/14/2019	8:20		20.5	7.85	0.56	6	-32.9	728		1.0		14.6		
ZZI-MW1C	8/14/2019	8:25	105.95	20.4	7.83	0.61	7	-31.9	730	22.5	1.0		18.8	5.3	
ZZI-MW1D	11/21/2019		103.42									5			

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
ZZI-MW1D	11/21/2019	8:21		20.9	8.00	4.14	46	122.3	676		1		5		
ZZI-MW1D	11/21/2019	8:26		20.3	8.18	3.78	41	120.4	684		1		10		
ZZI-MW1D	11/21/2019	8:31		20.0	8.27	3.47	38	116.1	696		1		15		
ZZI-MW1D	11/21/2019	8:36		20.0	8.30	3.45	36	112.3	704		1		20		
ZZI-MW1D	11/21/2019	8:41	105.12	19.0	8.31	3.41	35	110.8	712	138	1		25	5	1
ZZI-MW2D	3/28/2019	11:49	100.89									6.5			
ZZI-MW2D	3/28/2019	11:53		16.4	7.76	3.16	33	59	QM		1.75		7		
ZZI-MW2D	3/28/2019	11:57		16.5	7.61	3.34	35	62	QM		1.75		14		
ZZI-MW2D	3/28/2019	12:01		16.5	7.6	3.51	37	64	QM		1.75		21		
ZZI-MW2D	3/28/2019	12:05		16.5	7.62	3.62	37	66	QM		1.75		28		
ZZI-MW2D	3/28/2019	12:09	108.11	16.5	7.64	3.63	37	69	QM	296	1.75		33	5.1	
ZZI-MW2C	5/22/2019		104.68									3.5			
ZZI-MW2C	5/22/2019	17:37		19.9	8.53	2.34	24	-39.8	QM		0.7		3.5		
ZZI-MW2C	5/22/2019	17:41		19.8	8.60	1.82	19	-40.2	QM		0.7		7		
ZZI-MW2C	5/22/2019	17:44		19.8	8.65	1.64	18	-42.8	QM		0.7		10.5		
ZZI-MW2C	5/22/2019	17:48		19.8	8.68	1.63	18	-41.3	QM		0.7		14		
ZZI-MW2C	5/22/2019	17:52	105.12	19.8	8.69	1.60	17	-45.4	QM	23	0.7		17.5	5	
ZZI-MW2C	8/14/2019	8:49	103.16									3.9			
ZZI-MW2C	8/14/2019	8:53		21.9	7.73	1.34	15	-64.7	343		1.0		3.9		
ZZI-MW2C	8/14/2019	8:57		21.9	7.74	0.90	10	-73.8	338		1.0		7.8		
ZZI-MW2C	8/14/2019	9:01		21.6	7.74	0.85	11	-69.0	350		1.0		11.7		
ZZI-MW2C	8/14/2019	9:05		21.5	7.74	0.87	10	-68.5	352		1.0		15.6		
ZZI-MW2C	8/14/2019	9:09	104.05	21.5	7.71	0.85	10	-69.7	358	19.3	1.0		19.5	5	
ZZI-MW2C	11/21/2019		101.35									4			
ZZI-MW2C	11/21/2019	8:51		20.0	8.63	1.96	22	82.4	387.6		1		4		
ZZI-MW2C	11/21/2019	8:55		20.4	8.65	2.21	26	78.1	373.7		1		8		
ZZI-MW2C	11/21/2019	8:59		20.9	8.67	2.61	29	72.7	350.1		1		12		
ZZI-MW2C	11/21/2019	9:03		21.1	8.69	2.78	32	70.9	342.9		1		16		
ZZI-MW2C	11/21/2019	9:07	103.57	21.7	8.71	2.80	32	70.5	340.7	178	1		20	5	
ZZI-MW3B	4/17/2019	12:36	113.81									3			
ZZI-MW3B	4/17/2019	12:39		17.1	7.40	3.51	42	109	QM		1.0		3		
ZZI-MW3B	4/17/2019	12:42		17.2	7.36	3.39	41	110	QM		1.0		6		
ZZI-MW3B	4/17/2019	12:45		17.1	7.33	3.68	42	115	QM		1.0		9		
ZZI-MW3B	4/17/2019	12:48		17.0	7.30	3.85	43	119	QM		1.0		12		
ZZI-MW3B	4/17/2019	12:51	NM	17.0	7.28	3.90	44	123	QM	59	1.0		15	5	
ZZI-MW3B	5/22/2019		109.88									3.5			
ZZI-MW3B	5/22/2019	17:10		19.6	7.74	1.79	19	3.0	QM		0.9		3.5		
ZZI-MW3B	5/22/2019	17:14		19.5	7.86	1.50	15	1.1	QM		0.9		7		
ZZI-MW3B	5/22/2019	17:18		19.4	7.97	1.24	14	-2.8	QM		0.9		10.5		
ZZI-MW3B	5/22/2019	17:22		19.4	7.99	1.23	14	-5.3	QM		0.9		14		
ZZI-MW3B	5/22/2019	17:26	110.21	19.4	8.01	1.21	13	-9.1	QM	52	0.9		17.5	5	
ZZI-MW3B	8/14/2019	8:14	109									3.76			
ZZI-MW3B	8/14/2019	8:19		20	5.97	1.80	19	219.6	956		0.5		3.76		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
ZZI-MW3B	8/14/2019	8:24		19	6.95	1.31	14	186.4	867		0.5		7.57		
ZZI-MW3B	8/14/2019	8:29		19	7.42	1.22	13	133.6	865		0.5		11.28		
ZZI-MW3B	8/14/2019	8:34		19	7.44	1.21	13	133.6	866		0.5		15.04		
ZZI-MW3B	8/14/2019	8:39	109.91	18	7.42	1.20	13	133.5	867	4.7	0.5		18	4.8	1
ZZI-MW3B	11/21/2019		107.41									4			
ZZI-MW3B	11/21/2019	9:26		20.6	8.35	4.04	42	69.9	925		1		4		
ZZI-MW3B	11/21/2019	9:30		20.3	8.33	3.42	32	67.3	928		1		8		
ZZI-MW3B	11/21/2019	9:34		20.0	8.30	2.57	28	65.6	936		1		12		
ZZI-MW3B	11/21/2019	9:38		20.0	8.26	2.54	26	61.4	940		1		16		
ZZI-MW3B	11/21/2019	9:42	111.63	19.8	8.24	2.50	21	60.2	941	42	1		20	5	
ZZI-MW5C	3/28/2019	12:56	113.39									1.25			
ZZI-MW5C	3/28/2019	12:59		16.1	7.66	2.11	38	55	QM		0.5		1.5		
ZZI-MW5C	3/28/2019	13:01		16.1	7.73	1.34	25	52	QM		0.5		2.5		
ZZI-MW5C	3/28/2019	13:03		16.0	7.78	1.02	21	50	QM		0.5		3.75		
ZZI-MW5C	3/28/2019	13:05		16.0	7.81	0.98	21	50	QM		0.5		5		
ZZI-MW5C	3/28/2019	13:07	114.86	16.0	7.80	0.95	20	49	QM	179	0.5		6.5	5.2	
ZZI-MW5D	5/22/2019		175.00									2.5			
ZZI-MW5D	5/22/2019	16:05		18.8	7.34	5.40	58	3.4	QM		0.8		2.5		
ZZI-MW5D	5/22/2019	16:08		18.8	7.96	4.82	52	2.1	QM		0.8		5		
ZZI-MW5D	5/22/2019	16:11		18.8	7.57	4.53	50	-1.2	QM		0.8		7.5		
ZZI-MW5D	5/22/2019	16:14		18.8	7.58	4.51	50	-5.1	QM		0.8		10		
ZZI-MW5D	5/22/2019	16:17	115.87	18.8	7.61	4.49	48	-7.7	QM	42	0.8		12.5	5	
ZZI-MW5D	8/14/2019	10:05	114.78									3.5			
ZZI-MW5D	8/14/2019	10:11		20	7.48	3.14	35	82.1	1,455		0.5		3.5		
ZZI-MW5D	8/14/2019	10:17		19	7.45	2.97	32	87.7	1,684		0.5		7		
ZZI-MW5D	8/14/2019	10:23		19	7.43	2.78	30	97.1	1,675		0.5		10.5		
ZZI-MW5D	8/14/2019	10:29		18	7.43	2.77	30	97.2	1,673		0.5		14		
ZZI-MW5D	8/14/2019	10:35	115.31	18	7.42	2.77	30	97.2	1,673	2.3	0.5		17.5	5	
ZZI-MW5D	11/21/2019		114.33									3			
ZZI-MW5D	11/21/2019	10:49		20.6	8.13	6.43	73	53.0	1,690		0.75		3		
ZZI-MW5D	11/21/2019	10:53		20.4	8.12	6.12	67	49.4	1,673		0.75		6		
ZZI-MW5D	11/21/2019	10:57		20.3	8.11	5.82	64	47.7	1,667		0.75		9		
ZZI-MW5D	11/21/2019	11:01		20.3	8.09	5.80	60	45.4	1,674		0.75		12		
ZZI-MW5D	11/21/2019	11:05		20.2	8.06	5.77	59	41.4	1,662	NM	0.75		15	5	
ZZI-MW6D	4/17/2019	12:10	119.31									2.5			
ZZI-MW6D	4/17/2019	12:13		17.1	7.26	2.00	31	102	QM		1.0		2.5		
ZZI-MW6D	4/17/2019	12:15		17.3	7.24	0.81	27	100	QM		1.0		5		
ZZI-MW6D	4/17/2019	12:18		17.4	7.28	0.76	22	100	QM		1.0		7.5		
ZZI-MW6D	4/17/2019	12:20		17.5	7.31	0.85	21	99	QM		1.0		10		
ZZI-MW6D	4/17/2019	12:23	120.11	17.5	7.35	0.80	21	100	QM	247	1.0		12.5	5	
ZZI-MW6D	5/22/2019		117.53									2.5			
ZZI-MW6D	5/22/2019	15:40		19.3	7.56	6.51	72	-0.1	QM		0.8		2.5		
ZZI-MW6D	5/22/2019	15:43		19.3	7.50	5.12	50	0.1	QM		0.8		5		

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Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
ZZI-MW6D	5/22/2019	15:46		19.2	7.44	3.24	37	1.2	QM		0.8		7.5		
ZZI-MW6D	5/22/2019	15:49		19.2	7.44	3.23	36	2.8	QM		0.8		10		
ZZI-MW6D	5/22/2019	15:52	118.02	19.1	7.92	3.21	36	4.4	QM	32	0.8		10.25	4.1	2
ZZI-MW6D	8/14/2019	10:18	118.27									2.94			
ZZI-MW6D	8/14/2019	10:21		20.1	7.1	3.25	36	3.5	2,016		1.0		3		
ZZI-MW6D	8/14/2019	10:24		21.4	7.06	4.19	50	12.7	2,015		1.0		6		
ZZI-MW6D	8/14/2019	10:27		23.0	7.05	4.08	45	-5.0	2,013		1.0		9		
ZZI-MW6D	8/14/2019	10:30		20.1	7.05	3.99	43	-6.5	2,020		1.0		12		
ZZI-MW6D	8/14/2019	10:33	119.25	20.1	7.06	3.95	43	-6.6	2,020	15.8	1.0		15	5.1	
ZZI-MW6D	11/21/2019		116.61									3			
ZZI-MW6D	11/21/2019	10:23		20.0	7.90	6.30	68	51.6	2,020		0.6		3		
ZZI-MW6D	11/21/2019	10:28		19.6	7.73	5.31	65	52.4	2,038		0.6		6		
ZZI-MW6D	11/21/2019	10:33		19.5	7.59	4.26	46	54.2	2,052		0.6		9		
ZZI-MW6D	11/21/2019	10:38		19.3	7.52	4.22	49	58.2	2,058		0.6		12		
ZZI-MW6D	11/21/2019	10:43		19.4	7.55	4.16	49	63.8	2,062	NM	0.6		15	5	
ZZI-MW7C	3/28/2019	14:10	116.14									2			
ZZI-MW7C	3/28/2019	14:12		16.6	7.48	1.49	15	61	QM		1.0		2		
ZZI-MW7C	3/28/2019	14:14		16.6	7.52	1.37	15	65	QM		1.0		4		
ZZI-MW7C	3/28/2019	14:16		16.6	7.55	1.33	15	68	QM		1.0		6		
ZZI-MW7C	3/28/2019	14:18		16.6	7.61	1.30	14	70	QM		1.0		8		
ZZI-MW7C	3/28/2019	14:20	117.49	16.6	7.65	1.31	14	72	QM	96	1.0		10	5	
ZZI-MW7D	5/22/2019		110.4									5			
ZZI-MW7D	5/22/2019	16:35		19.4	7.94	2.25	24	-14.4	QM		1		5		
ZZI-MW7D	5/22/2019	16:40		19.4	8.07	1.95	20	-20.6	QM		1		10		
ZZI-MW7D	5/22/2019	16:45		19.3	8.20	1.44	16	-23.2	QM		1		15		
ZZI-MW7D	5/22/2019	16:50		19.3	8.21	1.41	16	-25.8	QM		1		20		
ZZI-MW7D	5/22/2019	16:55	111.38	19.3	8.24	1.40	15	-28.9	QM	>1,000	1		25	5	
ZZI-MW7C	8/14/2019	9:03	110.13									3			
ZZI-MW7C	8/14/2019	9:09		20	7.59	3.25	35	126.5	1,495		0.5		3		
ZZI-MW7C	8/14/2019	9:15		20	7.56	0.82	9	119.3	1,498		0.5		6		
ZZI-MW7C	8/14/2019	9:21		19	7.58	0.80	9	100.1	1,500		0.5		9		
ZZI-MW7C	8/14/2019	9:27		19	7.56	0.80	9	100.1	1,500		0.5		12		
ZZI-MW7C	8/14/2019	9:33	110.73	18	7.56	0.79	9	100.0	1,500	4.52	0.5		15	5	1
ZZI-MW7D	11/21/2019		108.65									5			
ZZI-MW7D	11/21/2019	9:52		20.3	8.45	6.01	65	45.6	1,083		1		5		
ZZI-MW7D	11/21/2019	9:57		20.9	8.32	5.82	64	41.2	1,032		1		10		
ZZI-MW7D	11/21/2019	10:02		22.1	8.24	5.22	60	36.6	1,106		1		15		
ZZI-MW7D	11/21/2019	10:07		22.2	8.21	5.20	59	33.4	1,100		1		20		
ZZI-MW7D	11/21/2019	10:12	110.38	22.2	8.19	5.18	59	29.3	1,096	241	1		25	5	
ZZI-MW9C	4/17/2019	13:02	104.41									1.6			
ZZI-MW9C	4/17/2019	13:04		17.3	7.36	3.49	46	116	QM		1.0		1.6		
ZZI-MW9C	4/17/2019	13:06		17.3	7.41	3.85	49	119	QM		1.0		3.2		
ZZI-MW9C	4/17/2019	13:08		17.4	7.45	4.16	49	119	QM		1.0		4.8		

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Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
ZZI-MW9C	4/17/2019	13:10		17.4	7.46	4.29	49	122	QM		1.0		6.4		
ZZI-MW9C	4/17/2019	13:12	105.00	17.5	7.47	4.43	50	125	QM	>1,000	1.0		8	5	
ZZI-MW9D	5/22/2019		101.18									5			
ZZI-MW9D	5/22/2019	18:05		19.7	8.56	1.05	13	87	QM		1		5		
ZZI-MW9D	5/22/2019	18:10		19.7	8.54	1.02	12	90	QM		1		10		
ZZI-MW9D	5/22/2019	18:15		19.8	8.47	0.99	12	96	QM		1		15		
ZZI-MW9D	5/22/2019	18:20		19.8	8.43	0.97	12	99	QM		1		20		
ZZI-MW9D	5/22/2019	18:25	101.82	19.7	8.40	0.95	11	101	QM	NM	1		25	5	
ZZI-MW9C	8/14/2019	9:35	98.73									2.5			
ZZI-MW9C	8/14/2019	9:38		20.5	8.02	1.33	16	-29.1	467		1.0		2.5		
ZZI-MW9C	8/14/2019	9:41		20.5	7.93	1.21	13	-40.5	462		1.0		5		
ZZI-MW9C	8/14/2019	9:44		20.1	7.78	1.09	12	-47.9	447		1.0		7.5		
ZZI-MW9C	8/14/2019	9:47		20.0	7.75	0.99	11	-48.0	441		1.0		10		
ZZI-MW9C	8/14/2019	9:50	99.59	20.1	7.75	0.95	11	-48.5	438	7.35	1.0		12.5	5	
ZZI-MW9D	11/21/2019		97.00									6			
ZZI-MW9D	11/21/2019	11:17		21.1	8.44	6.12	59	41.1	491.2		NM		NM		
ZZI-MW9D	11/21/2019	11:22		21.1	8.23	5.72	59	40.8	452.4		NM		NM		
ZZI-MW9D	11/21/2019	11:27		21.1	8.12	5.14	58	33.7	400.3		NM		NM		
ZZI-MW9D	11/21/2019	11:32		21.0	8.08	5.10	56	29.6	391.2		NM		NM		
ZZI-MW9D	11/21/2019	11:37		21.0	8.07	5.08	54	27.5	386.4	NM	NM		NM	NM	
HOL-MW1	11/20/2019	15:39	121									2.67			
HOL-MW1	11/20/2019	15:43		18.81	7.44	5.11	55	153	1,610		0.75		3		
HOL-MW1	11/20/2019	15:47		18.83	7.46	5.08	54	155	1,350		0.75		6		
HOL-MW1	11/20/2019	15:51		18.85	7.51	5.03	54	154	1,260		0.75		9		
HOL-MW1	11/20/2019	15:55		18.89	7.52	5.00	53	153	1,253		0.75		12		
HOL-MW1	11/20/2019	15:59	123.33	18.96	7.53	4.94	52	153	1,249	99	0.75		15	5.6	
HOL-MW2	11/20/2019	15:07	121.55									2.43			
HOL-MW2	11/20/2019	15:11		18.80	7.26	3.89	42	145	2,400		0.5		2.5		
HOL-MW2	11/20/2019	15:15		18.81	7.24	3.92	42	145	2,510		0.5		5		
HOL-MW2	11/20/2019	15:19		18.80	7.23	3.95	43	145	2,476		0.5		7.5		
HOL-MW2	11/20/2019	15:23		18.78	7.22	3.97	43	145	2,451		0.5		10		
HOL-MW2	11/20/2019	15:27	122.19	18.76	7.22	3.96	43	146	2,421	397	0.5		12.5	5.1	
JAD-MW3	8/13/2019	14:30	59.76									1.88			
JAD-MW3	8/13/2019	14:32		20.4	7.18	8.23	88	16.5	1,155		1.0		1.9		
JAD-MW3	8/13/2019	14:34		20.0	7.06	7.50	81	0.5	1,117		1.0		3.8		
JAD-MW3	8/13/2019	14:36		19.4	7.05	6.69	71	-4.4	1,097		1.0		5.7		
JAD-MW3	8/13/2019	14:38		19.2	7.03	6.58	65	-6.4	1,088		1.0		7.6		
JAD-MW3	8/13/2019	14:40	60.59	19.2	7.03	6.50	65	-7.0	1,085	13.6	1.0		9.5	5.1	
JAD-MW4d	3/14/2019	11:39	68.88									1.52			
JAD-MW4d	3/14/2019	11:43		19.1	7.65	8.89	89	25.6	928		0.5		1.5		

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Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
JAD-MW4d	3/14/2019	11:46		18.9	7.66	6.31	68	21.4	918		0.5		3		
JAD-MW4d	3/14/2019	11:48		19.0	7.66	6.11	67	17.4	927		0.5		4.5		
JAD-MW4d	3/14/2019	11:51		19.1	7.66	6.30	67	14.1	929		0.5		6		
JAD-MW4d	3/14/2019	11:53	69.6	19.2	7.66	6.27	68	13.6	929	131	0.5		7.5	4.9	
JAD-MW4d	5/14/2019	14:30	67.10									1.8			
JAD-MW4d	5/14/2019	14:35		20.1	7.01	0.80	13	-60.9	1,206		0.4		1.8		
JAD-MW4d	5/14/2019	14:40		20.2	7.00	0.76	13	-63.1	1,200		0.4		3.6		
JAD-MW4d	5/14/2019	14:45		20.2	6.99	0.73	13	-64.0	1,204		0.4		5.4		
JAD-MW4d	5/14/2019	14:50		20.2	6.99	0.72	13	-64.2	1,204		0.4		7.2		
JAD-MW4d	5/14/2019	14:55	69.30	20.2	6.99	0.72	13	-64.4	1,203	96	0.4		9	5	
JAD-MW4d	8/13/2019	13:54	66.30									1.92			
JAD-MW4d	8/13/2019	13:57		21.8	7.38	7.69	75	-0.7	613		1.0		2		
JAD-MW4d	8/13/2019	13:59		20.3	7.35	8.42	91	-14.8	565		1.0		4		
JAD-MW4d	8/13/2019	14:02		20.0	7.32	6.20	70	-17.9	561		1.0		6		
JAD-MW4d	8/13/2019	14:04		20.1	7.27	6.35	70	-18.5	559		1.0		8		
JAD-MW4d	8/13/2019	14:06	67.19	20.1	7.25	6.29	70	-18.8	556	18.1	1.0		10	5.2	
JAD-MW4d	11/20/2019		66.0									2			
JAD-MW4d	11/20/2019	10:34		17.2	7.80	7.67	79	98.5	689		0.66		2		
JAD-MW4d	11/20/2019	10:37		17.7	7.77	7.42	75	98.3	714		0.66		4		
JAD-MW4d	11/20/2019	10:40		17.9	7.75	7.10	75	98.6	742		0.66		6		
JAD-MW4d	11/20/2019	10:43		18	7.73	7.09	74	98.3	750		0.66		8		
JAD-MW4d	11/20/2019	10:46		18	7.71	7.05	74	98.3	756	>1,000	0.66		10	5	
JAD-MW5s	5/14/2019	13:45	74.30									1.4			
JAD-MW5s	5/14/2019	13:50		21.0	7.42	0.96	16	-50.2	1,096		0.3		1.4		
JAD-MW5s	5/14/2019	13:55		20.6	7.38	0.90	16	-56.1	1,090		0.3		2.8		
JAD-MW5s	5/14/2019	14:00		20.7	7.36	0.86	15	-57.0	1,092		0.3		4.2		
JAD-MW5s	5/14/2019	14:05		20.7	7.36	0.87	15	-57.2	1,092		0.3		5.6		
JAD-MW5s	5/14/2019	14:10	75.92	20.7	7.36	0.86	16	-57.4	1,091	102	0.3		7	5	
JAD-MW5s	11/20/2019		69.53									2			
JAD-MW5s	11/20/2019	11:00		18.3	7.49	8.51	90	110.6	994		0.66		2		
JAD-MW5s	11/20/2019	11:03		18.4	7.49	6.24	74	109.3	1,018		0.66		4		
JAD-MW5s	11/20/2019	11:06		18.5	7.50	5.40	57	106.6	1,047		0.66		6		
JAD-MW5s	11/20/2019	11:09		18.5	7.52	5.39	54	100.2	1,060		0.66		8		
JAD-MW5s	11/20/2019	11:12	71.34	18.5	7.52	5.36	51	99.8	1,055	NM	0.66		10	5	
JAD-MW6d	3/14/2019	10:25	81.17									2.51			
JAD-MW6d	3/14/2019	10:30		17.7	7.20	7.21	79	118.2	1,304		0.75		2.5		
JAD-MW6d	3/14/2019	10:34		17.8	7.13	7.43	79	125.6	1,269		0.75		5		
JAD-MW6d	3/14/2019	10:37		18.0	6.38	6.95	73	132.6	1,244		0.75		1.5		
JAD-MW6d	3/14/2019	10:40		18.1	6.95	6.91	73	131.5	1,233		0.75		10		
JAD-MW6d	3/14/2019	10:43	80.3	18.0	7.00	6.83	71	130.8	1,243	28.1	0.75		12.5	5	
JAD-MW6d	5/14/2019	13:02	75.90									3.5			
JAD-MW6d	5/14/2019	13:07		19.6	6.56	1.46	21	-26.1	806		0.7		3.5		
JAD-MW6d	5/14/2019	13:12		19.9	7.04	1.40	20	-30.4	810		0.7		7		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
JAD-MW6d	5/14/2019	13:17		20.1	7.06	1.32	20	-31.0	813		0.7		10.5		
JAD-MW6d	5/14/2019	13:22		20.1	7.07	1.30	21	-31.6	812		0.7		14		
JAD-MW6d	5/14/2019	13:27	80.01	20.1	7.07	1.29	21	-32.0	812	160	0.7		17.5	5	
JAD-MW6d	8/13/2019	15:06	73.33									3.7			
JAD-MW6d	8/13/2019	15:11		20	6.09	6.61	77	242.2	1,296		0.7		3.7		
JAD-MW6d	8/13/2019	15:16		20	7.02	6.67	77	212.1	1,536		0.7		7.4		
JAD-MW6d	8/13/2019	15:21		18	7.17	5.49	61	196.1	1,593		0.7		11.1		
JAD-MW6d	8/13/2019	15:26		17	7.19	5.50	61	196.0	1,596		0.7		14.8		
JAD-MW6d	8/13/2019	15:31	73.71	17	7.19	5.51	61	196.0	1,597	3.25	0.7		18.5	5	
JAD-MW6d	11/20/2019		71.64									4			
JAD-MW6d	11/20/2019	11:57		18.6	8.03	5.71	61	84.4	1,199		1.33		4		
JAD-MW6d	11/20/2019	12:00		18.5	7.89	6.21	70	85.4	1,248		1.33		8		
JAD-MW6d	11/20/2019	12:03		18.4	7.68	6.86	76	86.9	1,464		1.33		12		
JAD-MW6d	11/20/2019	12:06		18.4	7.66	6.79	74	88.8	1,472		1.33		16		
JAD-MW6d	11/20/2019	12:09	73.21	18.4	7.63	6.82	75	90.2	1,480	NM	1.33		20	5	
JAD-MW7d	11/20/2019		72.12									1.5			
JAD-MW7d	11/20/2019	12:20		18.6	7.57	4.05	44	86.4	1,445		0.5		1.5		
JAD-MW7d	11/20/2019	12:23		18.6	7.43	4.18	46	85.9	1,398		0.5		3		
JAD-MW7d	11/20/2019	12:26		18.6	7.38	4.29	49	85.9	1,370		0.5		4.5		
JAD-MW7d	11/20/2019	12:29		18.6	7.35	4.32	51	83.1	1,364		0.5		6		
JAD-MW7d	11/20/2019	12:32	73.42	18.6	7.32	4.39	52	80.2	1,357	NM	0.5		7.5	5	
LON-MW1C	4/17/2019	10:45	112.47									4			
LON-MW1C	4/17/2019	10:49		15.8	7.29	4.28	46	89	861		1.0		4		
LON-MW1C	4/17/2019	10:53		15.9	7.41	3.11	40	86	885		1.0		8		
LON-MW1C	4/17/2019	10:57		15.8	7.46	2.66	38	82	904		1.0		12		
LON-MW1C	4/17/2019	11:01		15.7	7.50	2.54	37	80	911		1.0		16		
LON-MW1C	4/17/2019	11:05	114.39	15.7	7.53	2.50	36	80	916	89	1.0		20	5	
LON-MW1C	5/22/2019		112.97									4			
LON-MW1C	5/22/2019	11:45		19.7	6.91	3.14	30	203	QM		1		4		
LON-MW1C	5/22/2019	11:49		19.7	6.98	2.38	25	197	QM		1		8		
LON-MW1C	5/22/2019	11:53		19.6	7.12	2.31	24	189	QM		1		12		
LON-MW1C	5/22/2019	11:57		19.6	7.16	2.29	26	187	QM		1		16		
LON-MW1C	5/22/2019	12:01		19.6	7.18	2.28	24	182	QM	238	1		20	5	
LON-MW1C	8/14/2019	15:14	111.81									4			
LON-MW1C	8/14/2019	15:18		22	7.86	1.65	18	101.6	829		1.0		4		
LON-MW1C	8/14/2019	15:22		21	7.6	0.88	11	87.6	784		1.0		8		
LON-MW1C	8/14/2019	15:26		21	7.55	0.82	9	83.2	776		1.0		12		
LON-MW1C	8/14/2019	15:30		20	7.44	0.80	9	83.1	776		1.0		16		
LON-MW1C	8/14/2019	15:34	112.09	20	7.44	0.80	9	83.1	775	6.3	1.0		20	5	
LON-MW1C	11/22/2019	8:19	110.66									4.4			
LON-MW1C	11/22/2019	8:24		18.88	7.31	0.96	11	126	QM		1		4.5		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
LON-MW1C	11/22/2019	8:28		18.83	7.35	0.81	10	128	QM		1		9		
LON-MW1C	11/22/2019	8:33		18.86	7.36	0.74	9	131	QM		1		3.5		
LON-MW1C	11/22/2019	8:37		18.88	7.34	0.70	9	134	QM		1		18		
LON-MW1C	11/22/2019	8:42	113.08	18.91	7.35	0.69	9	135	QM	56	1		22.5	5.1	
LON-MW2C	3/28/2019	7:15	106.25									3			
LON-MW2C	3/28/2019	7:16		14.7	7.13	2.79	32	72	QM		1.0		3		
LON-MW2C	3/28/2019	7:19		14.9	6.90	2.31	27	70	QM		1.0		6		
LON-MW2C	3/28/2019	7:22		15.0	6.81	2.02	23	66	QM		1.0		9		
LON-MW2C	3/28/2019	7:25		15.0	6.79	1.99	23	65	QM		1.0		12		
LON-MW2C	3/28/2019	7:28	N/M	15.1	6.75	1.97	23	65	QM	710	1.0		15	5	
LON-MW2C	5/22/2019		112.40									2			
LON-MW2C	5/22/2019	11:06		19.5	6.75	3.50	39	72.1	QM				2		
LON-MW2C	5/22/2019	11:11		19.5	6.83	3.47	39	63.8	QM				4		
LON-MW2C	5/22/2019	11:16		19.6	6.97	3.40	39	60.4	QM				6		
LON-MW2C	5/22/2019	11:21		19.6	6.98	3.39	39	58.1	QM				8		
LON-MW2C	5/22/2019	11:26	113.12	19.6	7.00	3.39	39	57.3	QM	88			10	5	
LON-MW2C	11/22/2019	8:53	110.6									2.42			
LON-MW2C	11/22/2019	8:56		19.21	7.41	2.26	28	166	1,333		8		2.42		
LON-MW2C	11/22/2019	8:59		19.26	7.36	2.11	26	172	1,421		8		4.84		
LON-MW2C	11/22/2019	9:02		19.27	7.23	1.95	25	175	1,439		8		7.26		
LON-MW2C	11/22/2019	9:05		19.23	7.32	1.90	25	180	1,455		8		4.68		
LON-MW2C	11/22/2019	9:08	110.95	19.25	7.32	1.86	25	183	1,472	80	8		12.1	5	
LON-MW3C	3/28/2019	7:37	106.39									3.8			
LON-MW3C	3/28/2019	7:41		15.0	7.24	4.11	46	95	1,645		1.0		7		
LON-MW3C	3/28/2019	7:45		15.0	7.11	3.03	40	71	1,711		1.0		8		
LON-MW3C	3/28/2019	7:49		15.0	7.04	2.40	31	60	1,710		1.0		12		
LON-MW3C	3/28/2019	7:53		15.1	7.00	2.31	31	54	1,704		1.0		16		
LON-MW3C	3/28/2019	7:57	N/M	15.1	6.99	2.20	31	50	1,707	509	1.0		20	5.3	
LON-MW3B	5/22/2019		113.44									2.5			
LON-MW3B	5/22/2019	10:30		19.3	7.68	7.07	78	12.2	QM				2.5		
LON-MW3B	5/22/2019	10:35		19.7	7.70	7.04	77	-15.3	QM				5		
LON-MW3B	5/22/2019	10:40		19.8	7.74	7.01	76	-19.8	QM				7.5		
LON-MW3B	5/22/2019	10:45		19.8	7.75	6.99	76	-21.3	QM				10		
LON-MW3B	5/22/2019	10:50	113.78	20.0	7.79	6.97	76	-26.7	QM	52			12.5	5	
LON-MW3B	8/14/2019	14:25	111.47									3			
LON-MW3B	8/14/2019	14:28		23	7.37	2.69	29	146.5	1,693		1.0		3		
LON-MW3B	8/14/2019	14:31		22	7.30	2.82	33	122.1	1,723		1.0		6		
LON-MW3B	8/14/2019	14:34		22	7.20	2.19	36	113.0	1,737		1.0		9		
LON-MW3B	8/14/2019	14:37		21	7.19	2.19	36	112.9	1,738		1.0		12		
LON-MW3B	8/14/2019	14:40	111.81	21	7.19	2.18	36	112.9	1,738	7.3	1.0		15	5	
LON-MW3C	11/22/2019	9:16	110.56									4.8			
LON-MW3C	11/22/2019	9:21		18.86	7.33	2.96	34	149	1,108		1.0		5		
LON-MW3C	11/22/2019	9:26		19.03	7.31	2.61	32	153	1,672		1.0		10		

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Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
LON-MW3C	11/22/2019	9:31		19.15	7.30	2.48	30	156	1,551		1.0		15		
LON-MW3C	11/22/2019	9:36		19.16	7.30	2.42	29	158	1,530		1.0		20		
LON-MW3C	11/22/2019	9:41	112.33	19.11	7.29	2.39	29	160	1,511	107	1.0		25	5.2	
LON-MW4C	3/28/2019	8:14	107.24									5.25			
LON-MW4C	3/28/2019	8:18		15.3	6.91	3.46	40	69	QM		1.3		5.25		
LON-MW4C	3/28/2019	8:22		15.3	6.89	3.59	42	74	QM		1.3		10.5		
LON-MW4C	3/28/2019	8:26		15.3	6.90	3.71	43	77	QM		1.3		15.75		
LON-MW4C	3/28/2019	8:30		15.3	6.91	3.80	43	79	QM		1.3		21		
LON-MW4C	3/28/2019	8:34	N/M	15.3	6.92	3.84	43	81	QM	209	1.3		26.25	5	
LON-MW4D	5/22/2019		119.61									5.5			
LON-MW4D	5/22/2019	9:20		19.0	6.46	1.81	20	62.9	QM		1.1		5.5		
LON-MW4D	5/22/2019	9:25		18.9	6.58	2.19	21	59.7	QM		1.1		11		
LON-MW4D	5/22/2019	9:30		18.9	6.62	2.30	24	57.1	QM		1.1		16.5		
LON-MW4D	5/22/2019	9:35		18.8	6.63	2.28	24	52.7	QM		1.1		22		
LON-MW4D	5/22/2019	9:40	119.98	18.8	6.65	2.26	24	49.9	QM	>1,000	1.1		27.5	5	
LON-MW4C	8/14/2019	13:10	115.30									4			
LON-MW4C	8/14/2019	13:18		22	7.40	3.28	38	88.1	2,204		0.5		4		
LON-MW4C	8/14/2019	13:26		21	7.24	3.56	40	77.9	2,414		0.5		8		
LON-MW4C	8/14/2019	13:34		21	7.11	3.88	46	77.1	2,467		0.5		12		
LON-MW4C	8/14/2019	13:42		20	7.10	3.88	46	77.0	2,465		0.5		16		
LON-MW4C	8/14/2019	13:50	115.61	20	7.10	3.87	46	77.0	2,465	6.8	0.5		20	5	
LON-MW4D	11/22/2019		114.02									5.5			
LON-MW4D	11/22/2019	8:05		18.2	7.53	2.63	28	129.8	2,216		0.72		5.5		
LON-MW4D	11/22/2019	8:54		18.7	7.48	2.55	27	129.1	2,353		0.72		11		
LON-MW4D	11/22/2019	8:58		19.1	7.41	2.30	25	128.5	2,471		0.72		16.5		
LON-MW4D	11/22/2019	9:02		19.4	7.39	2.22	24	128.2	2,512		0.72		22		
LON-MW4D	11/22/2019	9:06	118.79	19.6	7.37	2.09	24	127.9	2,523	>1,000	0.72		27.5	5	
ADO-MW1d	3/31/2019	11:40	95.17									2.17			
ADO-MW1d	3/31/2019	11:44		20.5	6.64	6.48	71	114.6	1,260		0.5		2.2		
ADO-MW1d	3/31/2019	11:48		20.5	6.82	5.95	62	102.9	1,261		0.5		4.4		
ADO-MW1d	3/31/2019	11:52		20.6	6.95	5.60	62	102.1	1,257		0.5		6.6		
ADO-MW1d	3/31/2019	11:56		20.6	6.96	5.66	62	103.6	1,259		0.5		8.8		
ADO-MW1d	3/31/2019	12:00	95.39	20.5	6.97	5.52	64	102.4	1,254	19.7	0.5		11	5.1	
ADO-MW1d	5/23/2019		95.39									2			
ADO-MW1d	5/23/2019	8:50		18.8	7.37	3.17	34	167	1,338		0.5		2		
ADO-MW1d	5/23/2019	8:54		18.9	7.34	3.21	34	165	1,314		0.5		4		
ADO-MW1d	5/23/2019	8:58		19.0	7.32	3.27	35	160	1,307		0.5		6		
ADO-MW1d	5/23/2019	9:02		19.0	7.31	3.28	36	159	1,299		0.5		8		
ADO-MW1d	5/23/2019	9:06	95.72	18.9	7.31	3.28	36	157	1,295	62	0.5		10	5	
ADO-MW2d	3/31/2019	11:07	95.72									2.17			
ADO-MW2d	3/31/2019	11:12		20.9	6.65	5.69	64	113.5	1,282		0.5		2.2		

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Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
ADO-MW2d	3/31/2019	11:16		20.7	6.41	4.77	51	131.1	1,249		0.5		4.4		
ADO-MW2d	3/31/2019	11:20		20.5	6.40	4.56	56	132.4	1,228		0.5		6.6		
ADO-MW2d	3/31/2019	11:24		20.4	6.35	5.01	54	130.9	1,202		0.5		8.8		
ADO-MW2d	3/31/2019	11:28	95.39	20.5	6.39	4.46	50	134.2	1,189	167	0.5		11	5.1	
ADO-MW2d	5/23/2019		95.90									2			
ADO-MW2d	5/23/2019	8:10		18.7	7.32	3.86	37	162	1,325		0.5		2		
ADO-MW2d	5/23/2019	8:14		18.8	7.29	3.80	37	160	1,319		0.5		4		
ADO-MW2d	5/23/2019	8:18		18.8	7.28	3.72	36	157	1,301		0.5		6		
ADO-MW2d	5/23/2019	8:22		18.9	7.26	3.71	36	153	1,297		0.5		8		
ADO-MW2d	5/23/2019	8:26	96.08	18.9	7.26	3.71	36	152	1,290	47	0.5		10	5	
MAL-MW1	3/21/2019	2:30	13.82									2			
MAL-MW1	3/21/2019	14:34		18.6	8.05	2.18	24	117	2,238		0.5		2		
MAL-MW1	3/21/2019	14:38		18.6	8.00	2.10	24	125	2,174		0.5		4		
MAL-MW1	3/21/2019	14:42		18.7	7.91	1.93	22	120	2,156		0.5		6		
MAL-MW1	3/21/2019	14:46		18.7	7.89	1.90	21	124	2,132		0.5		8		
MAL-MW1	3/21/2019	14:50		18.7	7.88	1.90	21	125	2,120	>1,000	0.5		10	5	
MAL-MW1	5/15/2019	14:55	13									1.7			
MAL-MW1	5/15/2019	14:59		21.6	7.86	2.16	32	66.2	2,061		0.5		1.7		
MAL-MW1	5/15/2019	15:03		21.3	7.82	2.04	31	70.4	2,040		0.5		3.4		
MAL-MW1	5/15/2019	15:07		21.3	7.80	2.01	30	77.0	2,036		0.5		5.1		
MAL-MW1	5/15/2019	15:11		21.3	7.80	1.98	30	72.9	2,039		0.5		6.8		
MAL-MW1	5/15/2019	15:15	15	21.2	7.80	1.96	30	73.1	2,040	756	0.5		8.5	5	
MAL-MW1	8/15/2019	9:03	12.59									2			
MAL-MW1	8/15/2019	9:07		22	8.02	3.16	36	148.5	1,798		0.5		2		
MAL-MW1	8/15/2019	9:11		21	7.82	1.83	15	125.2	2,115		0.5		4		
MAL-MW1	8/15/2019	9:15		21	7.83	1.84	15	116.7	2,114		0.5		6		
MAL-MW1	8/15/2019	9:19		21	7.81	1.83	15	116.7	2,112		0.5		8		
MAL-MW1	8/15/2019	9:23	12.95	20	7.81	1.83	15	116.7	2,112	9.99	0.5		10	5	
MAL-MW1	11/21/2019	9:13	12.38									1.5			
MAL-MW1	11/21/2019	9:16		20.36	7.66	2.61	27	126	3,200		0.5		1.5		
MAL-MW1	11/21/2019	9:19		20.31	7.73	2.57	27	126	3,021		0.5		3		
MAL-MW1	11/21/2019	9:22		20.28	7.79	2.55	27	128	3,000		0.5		4.5		
MAL-MW1	11/21/2019	9:25		20.27	7.83	2.50	27	129	3,008		0.5		6		
MAL-MW1	11/21/2019	9:28	12.91	20.20	7.85	2.40	27	129	2,920	253	0.5		7.5	5	
MAL-MW2	3/21/2019		10.46									3			
MAL-MW2	3/21/2019	13:35		18.6	7.64	1.93	20	85	2,863		0.6		3		
MAL-MW2	3/21/2019	13:40		18.7	7.52	1.75	19	92	2,833		0.6		6		
MAL-MW2	3/21/2019	13:45		18.6	7.49	1.52	16	103	2,815		0.6		9		
MAL-MW2	3/21/2019	13:50		18.6	7.47	1.48	16	108	2,797		0.6		12		
MAL-MW2	3/21/2019	13:55	10.63	18.6	7.45	1.47	16	112	2,782	185	0.6		15	5	
MAL-MW2	5/15/2019	13:48	10.75									2.5			

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
MAL-MW2	5/15/2019	13:52		20.1	7.30	23.1	20	-26.1	2,690		0.7		2.5		
MAL-MW2	5/15/2019	13:56		20.1	7.26	24.6	21	-29.0	2,801		0.7		5		
MAL-MW2	5/15/2019	14:00		20.3	7.23	25.0	21	-31.6	2,816		0.7		7.5		
MAL-MW2	5/15/2019	14:04		20.3	7.22	26.0	21	-31.9	2,813		0.7		10		
MAL-MW2	5/15/2019	14:08	13.66	20.3	7.22	25.5	21	-32.0	2,812	801	0.7		12.5	5	
MAL-MW2	8/15/2019	8:25	8.33									3			
MAL-MW2	8/15/2019	8:29		21	7.30	1.32	15	128.1	4,132		0.75		3		
MAL-MW2	8/15/2019	8:33		20	7.32	1.17	13	120.8	4,165		0.75		6		
MAL-MW2	8/15/2019	8:37		20	7.33	1.00	11	115.9	4,171		0.75		9		
MAL-MW2	8/15/2019	8:41		20	7.33	1.00	11	115.7	4,173		0.75		12		
MAL-MW2	8/15/2019	8:45	8.64	19	7.30	0.99	11	115.7	4,173	8.3	0.75		15	5	1
MAL-MW2	11/21/2019	9:45	9.20									2.75			
MAL-MW2	11/21/2019	9:49		20.91	7.00	0.70	7	132	4,120		0.75		3		
MAL-MW2	11/21/2019	9:53		20.76	7.09	0.68	7	130	4,197		0.75		6		
MAL-MW2	11/21/2019	9:57		20.81	7.13	0.66	7	129	4,269		0.75		9		
MAL-MW2	11/21/2019	10:01		20.80	7.16	0.64	7	128	4,337		0.75		12		
MAL-MW2	11/21/2019	10:05	9.61	20.85	7.20	0.64	7	127	4,301	99	0.75		15	5.5	
MAL-MW3	5/15/2019	12:37	10.20									1.8			
MAL-MW3	5/15/2019	12:41		19.6	7.26	3.10	39	130.2	4,060		0.5		1.8		
MAL-MW3	5/15/2019	12:45		19.3	7.21	2.96	39	136.1	4,081		0.5		3.6		
MAL-MW3	5/15/2019	12:49		19.2	7.20	2.91	39	137.0	4,090		0.5		5.4		
MAL-MW3	5/15/2019	12:53		19.2	7.21	2.89	39	137.5	4,090		0.5		7.2		
MAL-MW3	5/15/2019	12:57	12.30	19.2	7.21	2.86	39	137.9	4,091	680	0.5		9	5	
MAL-MW3	8/15/2019	10:25	8.56									2.09			
MAL-MW3	8/15/2019	10:29		23	7.15	2.30	28	94.9	4,415		0.5		2.1		
MAL-MW3	8/15/2019	10:33		23	7.35	1.97	22	91.7	4,173		0.5		4.2		
MAL-MW3	8/15/2019	10:37		22	7.49	1.91	22	90.8	4,081		0.5		6.3		
MAL-MW3	8/15/2019	10:41		21	7.50	1.90	22	90.6	4,080		0.5		8.4		
MAL-MW3	8/15/2019	10:45	8.97	21	7.50	1.90	22	90.7	4,080	7.7	0.5		10.5	5	
MAL-MW3	11/21/2019	12:34	9.12									2			
MAL-MW3	11/21/2019	12:38		20.21	7.11	1.16	12	128	QM		0.5		2		
MAL-MW3	11/21/2019	12:42		20.26	7.16	1.08	11	125	QM		0.5		4		
MAL-MW3	11/21/2019	12:46		20.21	7.20	1.04	11	124	QM		0.5		6		
MAL-MW3	11/21/2019	12:50		20.23	7.24	1.01	10	122	QM		0.5		8		
MAL-MW3	11/21/2019	12:54	9.67	20.27	7.27	0.98	10	119	QM	779	0.5		10	5	
MAL-MW4	3/21/2019		10.87									2			
MAL-MW4	3/21/2019	12:50		18.9	7.93	1.24	21	69	3,012		0.5		2		
MAL-MW4	3/21/2019	12:54		18.8	7.88	1.12	20	75	3,072		0.5		4		
MAL-MW4	3/21/2019	12:58		19.0	7.79	0.97	19	79	3,145		0.5		6		
MAL-MW4	3/21/2019	13:02		19.0	7.74	0.95	18	81	3,174		0.5		8		
MAL-MW4	3/21/2019	13:06		19.0	7.72	0.91	18	83	3,179	81	0.5		10	5	
MAL-MW4	5/15/2019	14:20	10.10									2.2			
MAL-MW4	5/15/2019	14:24		19.6	8.06	0.80	26	66.1	2,804		0.6		2.2		

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Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
MAL-MW4	5/15/2019	14:28		19.3	7.83	0.76	28	60.9	2,813		0.6		4.4		
MAL-MW4	5/15/2019	14:32		19.2	7.80	0.73	28	57.1	2,820		0.6		6.6		
MAL-MW4	5/15/2019	14:36		19.3	7.81	0.72	28	56.5	2,826		0.6		8.8		
MAL-MW4	5/15/2019	14:40	12.10	19.4	7.81	0.73	28	56.3	2,823	450	0.6		11	5	
MAL-MW4	8/15/2019	9:40	9.73									2.16			
MAL-MW4	8/15/2019	9:44		23	7.60	1.16	14	130.1	2,075		0.5		2.2		
MAL-MW4	8/15/2019	9:48		23	7.59	0.98	12	125.5	2,714		0.5		4.4		
MAL-MW4	8/15/2019	9:52		22	7.52	0.91	11	112.4	2,705		0.5		6.6		
MAL-MW4	8/15/2019	9:56		21	7.51	0.90	11	112.4	2,703		0.5		8.8		
MAL-MW4	8/15/2019	10:00	10.01	21	7.51	0.90	11	112.3	2,703	7.6	0.5		10	4.6	
MAL-MW4	11/21/2019	13:03	9.80									2.2			
MAL-MW4	11/21/2019	13:06		20.81	7.27	1.07	12	110	3,792		0.75		2.25		
MAL-MW4	11/21/2019	13:09		20.89	7.31	0.80	10	102	3,410		0.75		4.5		
MAL-MW4	11/21/2019	13:12		20.95	7.36	0.74	10	101	3,283		0.75		6.75		
MAL-MW4	11/21/2019	13:15		20.99	7.37	0.70	10	100	3,234		0.75		10		
MAL-MW4	11/21/2019	13:18	10.62	21.02	7.35	0.68	10	100	3,224	419	0.75		12.25	5.6	
MAL-MW5	3/21/2019		8.91									3			
MAL-MW5	3/21/2019	14:10		18.7	7.63	1.15	15	77	2,975		0.6		3		
MAL-MW5	3/21/2019	14:15		18.7	7.58	1.07	11	85	2,958		0.6		6		
MAL-MW5	3/21/2019	14:20		18.8	7.47	1.12	11	87	2,832		0.6		9		
MAL-MW5	3/21/2019	14:25		18.8	7.44	1.10	11	91	2,810		0.6		12		
MAL-MW5	3/21/2019	14:30	9.63	18.8	7.43	1.07	11	90	2,799	135	0.6		15	5	
MAL-MW5	5/15/2019	13:10	8.16									2.7			
MAL-MW5	5/15/2019	13:14		20.6	6.96	1.16	16	-16.1	4,810		0.7		2.7		
MAL-MW5	5/15/2019	13:18		20.1	7.10	1.21	17	-18.0	4,960		0.7		5.4		
MAL-MW5	5/15/2019	13:22		20.1	7.11	1.26	18	-19.2	4,966		0.7		8.1		
MAL-MW5	5/15/2019	13:26		20.3	7.11	1.22	18	-19.6	4,971		0.7		10.8		
MAL-MW5	5/15/2019	13:30	11.30	20.3	7.12	1.23	18	-19.8	4,973	841	0.7		13.5	5	
MAL-MW5	8/15/2019	8:13	10.31									2.47			
MAL-MW5	8/15/2019	8:16		22.1	7.17	0.58	7	-9.4	4,522		1.0		2.5		
MAL-MW5	8/15/2019	8:19		22.0	7.19	0.55	7	-8.6	5,059		1.0		5		
MAL-MW5	8/15/2019	8:22		22.0	7.19	0.61	6	-9.1	5,449		1.0		7.5		
MAL-MW5	8/15/2019	8:25		21.9	7.19	0.59	7	-8.8	5,450		1.0		10		
MAL-MW5	8/15/2019	8:28	10.34	22.0	7.19	0.56	7	-8.5	5,460	125.9	1.0		12.5	5.1	
MAL-MW5	11/21/2019	8:40	8.21									2.8			
MAL-MW5	11/21/2019	8:44		20.36	7.10	1.39	18	202	6,695		0.75		3		
MAL-MW5	11/21/2019	8:48		20.39	7.06	1.36	15	202	6,531		0.75		6		
MAL-MW5	11/21/2019	8:52		20.41	7.05	1.31	15	200	6,481		0.75		9		
MAL-MW5	11/21/2019	8:56		20.43	7.02	1.29	14	200	6,442		0.75		12		
MAL-MW5	11/21/2019	9:00	9.10	20.45	7.00	1.26	14	199	6,409	103	0.75		15	5.4	
MAL-MW6	3/21/2019		9.00									2.5			
MAL-MW6	3/21/2019	10:54		18.6	7.18	1.09	14	42	3,082		0.63		2.5		
MAL-MW6	3/21/2019	10:58		18.6	7.16	1.00	13	47	3,165		0.63		5		

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Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
MAL-MW6	3/21/2019	11:02		18.5	7.14	0.97	11	49	3,192		0.63		7.5		
MAL-MW6	3/21/2019	11:06	9.36	18.5	7.13	0.92	11	50	3,208		0.63		10		
MAL-MW6	3/21/2019	11:10		18.4	7.13	0.90	11	51	3,214	328	0.63		12.5	5	
MAL-MW6	5/15/2019	11:09	7.00									2.8			
MAL-MW6	5/15/2019	11:15		20.0	7.13	1.16	16	42.1	2,610		0.7		2.8		
MAL-MW6	5/15/2019	11:23		20.2	7.10	1.04	17	46.0	2,630		0.7		5.6		
MAL-MW6	5/15/2019	11:27		20.2	7.06	1.00	17	46.5	2,632		0.7		8.4		
MAL-MW6	5/15/2019	11:31		20.2	7.03	0.98	17	46.7	2,635		0.7		11.2		
MAL-MW6	5/15/2019	11:35	10.4	20.3	7.04	0.97	17	46.9	2,635	201	0.7		14	5	
MAL-MW6	8/15/2019	7:27	6.27									2.89			
MAL-MW6	8/15/2019	7:30		19.7	7.10	2.39	26	27.7	2,487		1.0		2.9		
MAL-MW6	8/15/2019	7:33		19.6	7.10	1.77	19	15.1	2,513		1.0		5.8		
MAL-MW6	8/15/2019	7:36		19.7	7.10	1.75	19	7.8	2,536		1.0		8.7		
MAL-MW6	8/15/2019	7:39		19.6	7.10	1.65	18	5.0	2,534		1.0		11.6		
MAL-MW6	8/15/2019	7:42	6.35	19.7	7.10	1.56	18	2.5	2,532	78.2	1.0		14.5	5	
MAL-MW6	11/21/2019	10:53	7.03									2.79			
MAL-MW6	11/21/2019	10:57		19.20	6.85	1.00	11	124	3,170		0.75		3		
MAL-MW6	11/21/2019	11:01		19.20	6.82	0.93	10	124	3,189		0.75		6		
MAL-MW6	11/21/2019	11:05		19.22	6.80	0.90	10	122	3,209		0.75		9		
MAL-MW6	11/21/2019	11:09		19.23	6.82	0.89	10	122	3,218		0.75		12		
MAL-MW6	11/21/2019	11:13	8.09	19.21	6.80	0.86	9	122	3,228	80	0.75		15	5.4	
MAL-MW7	3/21/2019		6.69									4			
MAL-MW7	3/21/2019	9:43		18.8	6.65	1.4	13	63	5,162		0.8		4		
MAL-MW7	3/21/2019	9:48		18.7	6.63	1.3	13	66	5,322		0.8		8		
MAL-MW7	3/21/2019	9:53		18.7	6.62	1.1	12	69	5,418		0.8		12		
MAL-MW7	3/21/2019	9:58		18.7	6.62	0.9	12	71	5,432		0.8		16		
MAL-MW7	3/21/2019	10:03		18.7	6.61	0.9	11	70	5,476	537	0.8		20	5	
MAL-MW7	5/15/2019	10:40	6.00									3.8			
MAL-MW7	5/15/2019	10:44		20.1	6.80	1.16	22	66.1	3,601		1.0		3.8		
MAL-MW7	5/15/2019	10:48		20.0	6.82	1.01	21	66.0	3,610		1.0		7.6		
MAL-MW7	5/15/2019	10:52		20.0	6.83	0.98	21	65.8	3,611		1.0		11.4		
MAL-MW7	5/15/2019	10:56		19.9	6.83	0.96	20	65.7	3,613		1.0		15.2		
MAL-MW7	5/15/2019	11:00	10.55	19.9	6.83	0.97	20	65.7	3,613	506	1.0		19	5	
MAL-MW7	8/15/2019	7:48	4.59									2			
MAL-MW7	8/15/2019	7:52		20	6.98	1.46	16	93.5	1,980		1		4		
MAL-MW7	8/15/2019	7:56		20	6.95	1.40	16	103.9	2,278		1		8		
MAL-MW7	8/15/2019	8:00		19	6.99	1.39	16	108.5	2,378		1		12		
MAL-MW7	8/15/2019	8:04		19	6.97	1.36	16	108.4	2,380		1		16		
MAL-MW7	8/15/2019	8:08	4.87	19	6.97	1.36	16	108.4	2,380	9.99	1		20	10	
MAL-MW7	11/21/2019	10:19	5.11									3.87			
MAL-MW7	11/21/2019	10:23		20.69	7.21	1.40	13	127	3,689		1.0		4		
MAL-MW7	11/21/2019	10:27		20.72	7.19	1.35	13	125	3,711		1.0		8		
MAL-MW7	11/21/2019	10:31		20.72	7.20	1.32	13	123	3,723		1.0		12		

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MAL-MW7	11/21/2019	10:35		20.74	7.21	1.30	13	122	3,730		1.0		16		
MAL-MW7	11/21/2019	10:37	6.39	20.75	7.22	1.29	12	120	3,748	481	1.0		20	5.2	
MAL-MW8	3/21/2019		7.15									3.5			
MAL-MW8	3/21/2019	12:03		18.5	7.74	1.99	21	-39.7	2,257		0.7		3.5		
MAL-MW8	3/21/2019	12:08		18.5	8.02	1.87	6	-52.9	2,314		0.7		7		
MAL-MW8	3/21/2019	12:13		18.5	8.33	1.83	20	-82.7	2,397		0.7		10.5		
MAL-MW8	3/21/2019	12:18		18.5	8.35	1.81	19	-85.4	2,415		0.7		14		
MAL-MW8	3/21/2019	12:23	8.11	18.5	8.38	1.78	19	-86.0	2,421	125	0.7		17.5	5	
MAL-MW8	5/15/2019	11:55	5.30									4.1			
MAL-MW8	5/15/2019	11:59		20.9	8.16	0.96	16	-99.1	2,106		1.0		4.1		
MAL-MW8	5/15/2019	12:03		21.4	8.21	0.93	16	-106.1	2,121		1.0		8.2		
MAL-MW8	5/15/2019	12:07		21.4	8.26	0.92	16	-109.0	2,126		1.0		12.3		
MAL-MW8	5/15/2019	12:11		21.5	8.27	0.92	16	-110.4	2,130		1.0		16.4		
MAL-MW8	5/15/2019	12:15	10.10	21.5	8.27	0.91	16	-111.0	2,128	801	1.0		20.5	5	
MAL-MW8	8/15/2019	7:03	3.37									4			
MAL-MW8	8/15/2019	7:08		19	8.71	2.83	31	97.8	2,356		0.8		4		
MAL-MW8	8/15/2019	7:13		19	8.70	1.83	20	77.0	2,401		0.8		8		
MAL-MW8	8/15/2019	7:18		19	8.70	1.75	20	62.2	2,408		0.8		12		
MAL-MW8	8/15/2019	7:23		19	8.70	1.74	20	62.2	2,406		0.8		16		
MAL-MW8	8/15/2019	7:28	3.69	19	8.69	1.75	20	62.2	2,406	6.8	0.8		20	5	
MAL-MW8	11/21/2019	12:00	5.45									4			
MAL-MW8	11/21/2019	12:04		20.99	7.20	0.92	10	128	QM		1.0		4		
MAL-MW8	11/21/2019	12:08		21.16	7.23	0.88	10	129	QM		1.0		8		
MAL-MW8	11/21/2019	12:12		21.20	7.20	0.86	10	128	QM		1.0		12		
MAL-MW8	11/21/2019	12:16		21.20	7.21	0.86	10	128	QM		1.0		16		
MAL-MW8	11/21/2019	12:20	6.00	21.16	7.22	0.80	10	129	QM	133	1.0		20	5	
MAP-MW10	2/20/2019	12:42	90.80									2.8			
MAP-MW10	2/20/2019	12:45		18.6	7.56	7.13	80	85	2,111		1.0		3		
MAP-MW10	2/20/2019	12:48		18.6	7.54	7.26	80	87	1,865		1.0		6		
MAP-MW10	2/20/2019	12:51		18.6	7.54	7.30	80	87	1,710		1.0		9		
MAP-MW10	2/20/2019	12:54		18.6	7.53	7.35	81	88	1,695		1.0		12		
MAP-MW10	2/20/2019	12:57	91.26	18.6	7.53	7.39	81	89	1,695	104	1.0		15	5.4	
MAP-MW10	5/21/2019		91.92									2.5			
MAP-MW10	5/21/2019	12:30		18.3	6.25	6.31	68	194.3	QM		0.63		2.5		
MAP-MW10	5/21/2019	12:34		18.3	6.73	6.37	68	160.8	QM		0.63		5		
MAP-MW10	5/21/2019	12:38		18.3	7.01	6.39	68	131.2	QM		0.63		7.5		
MAP-MW10	5/21/2019	12:42		18.4	7.05	6.40	69	127.7	QM		0.63		10		
MAP-MW10	5/21/2019	12:48	92.13	18.4	7.08	6.41	69	124.4	QM	38	0.63		10.5	4.2	
MAP-MW10	8/14/2019	14:58	90.31									2.91			
MAP-MW10	8/14/2019	15:01		23.9	7.29	5.15	60	-3.1	1,455		1.0		3		
MAP-MW10	8/14/2019	15:01		23.2	7.28	4.70	57	-8.7	1,477		1.0		6		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
MAP-MW10	8/14/2019	15:07		22.1	7.28	3.83	48	-14.5	1,495		1.0		9		
MAP-MW10	8/14/2019	15:10		22.1	7.28	4.02	45	-13.9	1,501		1.0		12		
MAP-MW10	8/14/2019	15:13	92.35	22.1	7.28	3.95	48	-15.5	1,500	8.76	1.0		15	5.2	
MAP-MW10	11/21/2019		87.68									3			
MAP-MW10	11/21/2019	13:35		19.4	7.00	7.82	83	80.8	732		0.75		3		
MAP-MW10	11/21/2019	13:39		20.0	7.54	7.29	76	79.3	718		0.75		6		
MAP-MW10	11/21/2019	13:43		20.0	7.56	6.30	69	74.5	704		0.75		9		
MAP-MW10	11/21/2019	13:47		20.1	7.58	6.28	68	70.2	697		0.75		12		
MAP-MW10	11/21/2019	14:01		20.0	7.62	6.23	65	67.3	691	NM	0.75		15	5	
ZON-MW2B	4/17/2019	13:12	119.54									1.5			
ZON-MW2B	4/17/2019	13:18		19.1	5.44	5.72	59	168.6	789		0.3		1.5		
ZON-MW2B	4/17/2019	13:24		19.0	5.98	5.70	58	153.2	625		0.3		3		
ZON-MW2B	4/17/2019	13:30		18.8	6.49	5.61	57	146.7	498		0.3		4.5		
ZON-MW2B	4/17/2019	13:36		18.8	6.50	5.58	55	142.8	499		0.3		6		
ZON-MW2B	4/17/2019	13:42	123.17	18.7	6.51	5.56	55	140.6	455	84	0.3		7.5	5	3
ZON-MW2B	5/21/2019		120.6									1			
ZON-MW2B	5/21/2019	14:10		19.8	9.25	7.47	82	11.3	QM		NM		NM		
ZON-MW2B	5/21/2019	16:00	121.52	19.6	8.82	7.38	80	21.4	QM	28	NM		NM		D
ZON-MW2B	11/21/2019		114.19									2			
ZON-MW2B	11/21/2019	14:50		20.9	8.31	6.51	73	33.0	508		0.66		2		
ZON-MW2B	11/21/2019	14:53		20.9	8.33	6.35	69	32.9	497		0.66		4		
ZON-MW2B	11/21/2019	14:56		20.9	8.37	6.08	69	32.4	490		0.66		6		
ZON-MW2B	11/21/2019	14:59		20.9	8.40	6.00	65	29.8	486		0.66		8		
ZON-MW2B	11/21/2019	15:02	116.10	20.9	8.41	5.98	68	25.2	482	>1,000	0.66		10	5	
ZON-MW3B	2/20/2019	14:00	118.42									2			
ZON-MW3B	2/20/2019	14:02		70.0	6.76	7.18	76	198	1,072		1.0		2		
ZON-MW3B	2/20/2019	14:04		70.0	6.73	7.04	76	197	1,076		1.0		4		
ZON-MW3B	2/20/2019	14:06		70.2	6.72	7.02	76	197	1,080		1.0		6		
ZON-MW3B	2/20/2019	14:08		70.1	6.72	7.00	76	197	1,084		1.0		8		
ZON-MW3B	2/20/2019	14:10		70.1	6.72	6.99	76	197	1,086	184	1.0		10	5	
ZON-MW3B	5/21/2019		121.78									3.3			
ZON-MW3B	5/21/2019	14:50		19.2	8.25	7.24	79	-29.4	QM				3.3		
ZON-MW3B	5/21/2019	14:55		19.2	8.27	7.01	77	-27.1	QM				6.6		
ZON-MW3B	5/21/2019	15:00		19.3	8.28	6.80	75	-24.9	QM				9.9		
ZON-MW3B	5/21/2019	15:05		19.3	8.29	6.79	75	-21.5	QM				13.2		
ZON-MW3B	5/21/2019	15:10	122.31	19.4	8.31	6.75	74	-19.8	QM	36			16.5	5	
ZON-MW3B	8/14/2019	16:48	122.61									3.18			
ZON-MW3B	8/14/2019	16:52		22.6	7.20	4.29	46	-16.9	1,244		1.0		3.2		
ZON-MW3B	8/14/2019	16:55		21.5	7.00	3.62	40	-43.5	1,113		1.0		6.4		
ZON-MW3B	8/14/2019	16:58		21.8	7.05	3.65	40	-44.2	1,120		1.0		9.6		
ZON-MW3B	8/14/2019	17:01		21.8	7.10	3.50	38	-45.1	1,124		1.0		12.8		

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Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
ZON-MW3B	8/14/2019	17:04	123.01	21.7	7.11	3.39	38	-45.0	1,125	35.9	1.0		16	5	
RIC-MW1	4/18/2019	13:05	15.26									5			
RIC-MW1	4/18/2019	13:07		18.2	7.77	1.01	16	38	2,050		2.0		5		
RIC-MW1	4/18/2019	13:10		18.1	7.80	0.89	14	34	2,011		2.0		10		
RIC-MW1	4/18/2019	13:12		18.1	7.66	0.86	14	31	1,970		2.0		15		
RIC-MW1	4/18/2019	13:15		18.1	7.64	0.85	14	30	1,955		2.0		20		
RIC-MW1	4/18/2019	13:17	17.60	18.1	7.64	0.84	14	30	1,968	71	2.0		25	5	
RIC-MW1	5/13/2019	14:20	14.45									5			
RIC-MW1	5/13/2019	14:25		20.6	7.36	1.16	16	-56.2	1,261		1.0		5		
RIC-MW1	5/13/2019	14:30		20.9	7.39	0.98	19	-42.1	1,270		1.0		10		
RIC-MW1	5/13/2019	14:35		20.9	7.41	0.93	20	-39.6	1,272		1.0		15		
RIC-MW1	5/13/2019	14:40		21.0	7.41	0.92	20	-36.9	1,273		1.0		20		
RIC-MW1	5/13/2019	14:45	14.60	21.0	7.41	0.91	20	-37.2	1,273	101	1.0		25	5	
RIC-MW1	8/12/2019	16:16	13.43									5.22			
RIC-MW1	8/12/2019	16:21		22.8	7.79	0.89	10	-57.2	1,688		1.0		5.2		
RIC-MW1	8/12/2019	16:26		22.5	7.79	0.80	9	-64.4	1,750		1.0		10.4		
RIC-MW1	8/12/2019	16:30		22.5	7.75	0.72	8	-68.2	1,749		1.0		15.6		
RIC-MW1	8/12/2019	16:34		22.6	7.77	0.73	8	-64.8	1,744		1.0		20.8		
RIC-MW1	8/12/2019	16:38	13.59	22.4	7.77	0.78	9	-62.9	1,747	10.2	1.0		26	5	
RIC-MW1	11/19/2019		14.66									5			
RIC-MW1	11/19/2019	14:10		23.3	8.26	2.63	30	3.0	1,732		1.25		5		
RIC-MW1	11/19/2019	14:14		23.0	8.15	1.93	24	2.0	1,621		1.25		10		
RIC-MW1	11/19/2019	14:18		22.6	8.14	1.76	20	1.0	1,574		1.25		15		
RIC-MW1	11/19/2019	14:22		22.5	8.11	1.73	20	-2.1	1,563		1.25		20		
RIC-MW1	11/19/2019	14:26	18.64	22.5	8.09	1.70	18	-4.2	1,558	32	1.25		25	5	
RIC-MW3	4/18/2019	11:51	9.99									7.5			
RIC-MW3	4/18/2019	11:57		17.1	7.26	1.61	23	105	1,411		1.5		7.5		
RIC-MW3	4/18/2019	12:03		17.4	7.41	1.04	19	89	1,357		1.5		15		
RIC-MW3	4/18/2019	12:09		17.5	7.49	0.96	18	87	1,340		1.5		22.5		
RIC-MW3	4/18/2019	12:15		17.4	7.60	0.94	17	85	1,336		1.5		30		
RIC-MW3	4/18/2019	12:21	16.24	17.4	7.60	0.94	17	82	1,337	411	1.5		37.5	5	
RIC-MW4	5/13/2019	13:38	7.90									1.1			
RIC-MW4	5/13/2019	13:43		20.0	6.71	1.39	18	-36.1	961		0.25		1.1		
RIC-MW4	5/13/2019	13:48		19.6	6.75	1.30	17	-49.0	980		0.25		2.2		
RIC-MW4	5/13/2019	13:53		19.9	6.76	1.26	17	-51.2	984		0.25		3.3		
RIC-MW4	5/13/2019	13:58		19.8	6.77	1.24	18	-53.0	986		0.25		4.4		
RIC-MW4	5/13/2019	14:03	8.13	19.8	6.77	1.23	17	-52.5	986	16	0.25		5.5	5	
RIC-MW4	8/12/2019	14:33	7.65									1.19			
RIC-MW4	8/12/2019	14:38		25.6	7.36	3.92	45	-25.4	1,599		0.25		1.2		
RIC-MW4	8/12/2019	14:43		25.7	7.18	0.96	12	-41.5	1,684		0.25		2.4		
RIC-MW4	8/12/2019	14:46		25.6	7.16	0.90	9	-44.4	1,841		0.25		3.6		

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Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
RIC-MW4	8/12/2019	14:50		25.4	7.15	0.93	9	-46.3	1,840		0.25		4.8		
RIC-MW4	8/12/2019	14:53	7.97	25.6	7.19	0.87	9	-47.8	1,848	383	0.25		6	5	
RIC-MW4	11/19/2019		7.05									1			
RIC-MW4	11/19/2019	14:31		23.8	7.45	6.23	72	-9.0	2,182		0.33		1		
RIC-MW4	11/19/2019	14:34		23.8	7.49	4.23	41	-25.6	1,936		0.33		2		
RIC-MW4	11/19/2019	14:47		23.8	7.52	2.96	35	-31.8	1,897		0.33		3		
RIC-MW4	11/19/2019	14:50		23.8	7.55	2.92	33	-34.2	1,888		0.33		4		
RIC-MW4	11/19/2019	14:53	8.55	23.8	7.56	2.90	31	-37.1	1,876	>1,000	0.33		5	5	
RIC-MW5	4/18/2019	12:34	15.37									6.15			
RIC-MW5	4/18/2019	12:37		17.6	7.59	1.61	17	150	889		2.0		6		
RIC-MW5	4/18/2019	12:40		17.9	7.62	1.67	17	140	911		2.0		12		
RIC-MW5	4/18/2019	12:43		17.9	7.65	1.69	17	138	917		2.0		18		
RIC-MW5	4/18/2019	12:46		17.8	7.66	1.70	17	137	924		2.0		24		
RIC-MW5	4/18/2019	12:50	18.79	17.8	7.67	1.71	17	137	931	166	2.0		32	5.2	
RIC-MW6	5/13/2019	12:50	13.75									0.6			
RIC-MW6	5/13/2019	12:55		20.6	7.50	1.10	21	-50.6	619		0.15		0.6		
RIC-MW6	5/13/2019	13:00		21.0	7.42	0.90	20	-52.1	631		0.15		1.2		
RIC-MW6	5/13/2019	13:05		21.1	7.40	0.86	20	-53.9	636		0.15		1.8		
RIC-MW6	5/13/2019	13:10		21.1	7.39	0.88	20	-54.1	639		0.15		2.4		
RIC-MW6	5/13/2019	13:15	14.01	21.1	7.39	0.87	20	-55.0	638	50	0.15		3	5	
RIC-MW5	8/12/2019	15:40	14.47									6.82			
RIC-MW5	8/12/2019	15:46		23.7	7.45	0.52	6	-13.5	453		1.0		6.9		
RIC-MW5	8/12/2019	15:52		22.9	7.27	0.43	5	-79.5	401		1.0		13.8		
RIC-MW5	8/12/2019	15:58		22.7	7.25	0.45	5	-79.9	400		1.0		20.7		
RIC-MW5	8/12/2019	16:04	15.52	22.7	7.19	0.40	4	-81.7	398		1.0		27.6		
RIC-MW5	8/12/2019	16:09		22.6	7.22	0.41	4	-79.5	399	58.2	1.0		34.5	5.1	
RIC-MW5	11/19/2019		14.64									7			
RIC-MW5	11/19/2019	15:00		22.4	8.38	1.34	15	-38.3	502.5		NM		NM		
RIC-MW5	11/19/2019	15:08		22.3	8.14	1.15	13	-18.7	439.9	NM	NM		NM	NM	3
RIC-MW7s	4/18/2019	13:32	13.47									2.25			
RIC-MW7s	4/18/2019	13:34		19.1	7.29	1.41	18	102	1,291		1.25		2.5		
RIC-MW7s	4/18/2019	13:36		19.1	7.26	1.42	18	106	1,311		1.25		5		
RIC-MW7s	4/18/2019	13:38		19.0	7.25	1.42	18	109	1,360		1.25		7.5		
RIC-MW7s	4/18/2019	13:40		19.0	7.26	1.44	18	111	1,368		1.25		10		
RIC-MW7s	4/18/2019	13:42	15.47	19.0	7.26	1.43	18	112	1,374	121	1.25		12.5	5.6	
RIC-MW7s	5/13/2019	15:05	13.72									2.2			
RIC-MW7s	5/13/2019	15:10		20.6	6.89	1.60	16	31.2	1,106		0.45		2.2		
RIC-MW7s	5/13/2019	15:15		20.3	6.92	1.09	14	33.0	1,101		0.45		4.4		
RIC-MW7s	5/13/2019	15:20		20.6	6.93	1.06	13	34.1	1,103		0.45		6.6		
RIC-MW7s	5/13/2019	15:25		20.6	6.93	1.09	13	34.6	1,101		0.45		8.8		
RIC-MW7s	5/13/2019	15:30	13.86	20.6	6.93	1.06	13	34.9	1,101	130	0.45		11	5	
RIC-MW7s	8/12/2019	16:47	12.98									2.35			

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Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
RIC-MW7s	8/12/2019	16:49		22.0	7.50	1.75	16	-10.1	1,799		1.0		2.4		
RIC-MW7s	8/12/2019	16:52		21.0	7.52	1.61	18	-22.5	1,724		1.0		4.8		
RIC-MW7s	8/12/2019	16:56		21.2	7.50	0.53	6	-40.2	1,991		1.0		7.2		
RIC-MW7s	8/12/2019	16:59		21.0	7.50	0.52	6	-41.9	1,990		1.0		9.6		
RIC-MW7s	8/12/2019	17:02	13.13	21.1	7.49	0.50	6	-42.8	1,994	77.2	1.0		12	5.1	
RIC-MW7s	11/19/2019		14.53									2.1			
RIC-MW7s	11/19/2019	13:42		21.6	7.90	2.71	30	32.9	2,081		NM		NM		
RIC-MW7s	11/19/2019	13:45		21.6	7.64	1.36	18	33.1	1,973		NM		NM		
RIC-MW7s	11/19/2019	13:48		21.6	7.59	1.33	15	33.3	1,924		NM		NM		
RIC-MW7s	11/19/2019	13:51		21.6	7.56	1.35	14	33.5	1,918		NM		NM		
RIC-MW7s	11/19/2019	13:54	16.23	21.6	7.54	1.33	15	33.4	1,915	251	NM		NM	NM	
RIC-MW8s	4/18/2019	13:53	14.30									2.5			
RIC-MW8s	4/18/2019	13:55		19.3	8.11	2.61	31	46	1,027		1.25		2.5		
RIC-MW8s	4/18/2019	13:57		19.3	8.08	2.39	30	43	1,031		1.25		5		
RIC-MW8s	4/18/2019	13:59		19.3	8.09	2.26	30	43	1,030		1.25		7.5		
RIC-MW8s	4/18/2019	14:01		19.3	8.10	2.20	29	42	1,032		1.25		10		
RIC-MW8s	4/18/2019	14:03	15.99	19.3	8.10	2.17	29	42	1,031	109	1.25		12.5	5	
RIC-MW8s	5/13/2019	15:49	13.68									2.5			
RIC-MW8s	5/13/2019	15:50		20.7	8.06	1.10	17	-46.1	806		0.5		2.5		
RIC-MW8s	5/13/2019	15:55		20.4	8.04	1.06	18	-49.0	801		0.5		5		
RIC-MW8s	5/13/2019	16:00		20.5	8.02	1.03	18	-52.1	796		0.5		7.5		
RIC-MW8s	5/13/2019	16:05		20.6	8.02	1.03	18	-56.0	793		0.5		10		
RIC-MW8s	5/13/2019	16:10	15.06	20.6	8.02	1.04	18	-53.9	794	79	0.5		12.5	5	
RIC-MW8s	8/12/2019	13:28	13.83									2.55			
RIC-MW8s	8/12/2019	13:33		23.2	7.82	0.88	10	-3.2	1,246		0.5		2.55		
RIC-MW8s	8/12/2019	13:39		21.7	7.92	1.19	13	-23.7	1,192		0.5		5.1		
RIC-MW8s	8/12/2019	13:44		21.6	7.96	0.82	9	-32.8	1,164		0.5		7.65		
RIC-MW8s	8/12/2019	13:49		21.7	7.92	0.52	6	-40.2	1,155		0.5		10.2		
RIC-MW8s	8/12/2019	13:54	15.66	21.8	7.90	0.61	6	-41.2	1,158	9.21	0.5		12.75	5	
RIC-MW8d	11/19/2019		15.16									5.7			
RIC-MW8d	11/19/2019	12:45		21.1	7.46	1.91	20	61.5	1,288		1.4		5.7		
RIC-MW8d	11/19/2019	12:49		21.1	7.39	0.93	14	21.4	1,364		1.4		11.4		
RIC-MW8d	11/19/2019	12:53		21.2	7.56	0.88	10	9.5	1,538		1.4		17.1		
RIC-MW8d	11/19/2019	12:57		21.2	7.58	0.85	7	5.4	1,542		1.4		22.8		
RIC-MW8d	11/19/2019	13:01	16.14	21.2	7.58	0.84	5	2.3	1,545	452	1.4		28.5	5	
RIC-MW9s	4/18/2019	14:11	12.42									2.5			
RIC-MW9s	4/18/2019	14:13		19.3	7.21	2.28	26	97	1,088		1.25		2.5		
RIC-MW9s	4/18/2019	14:16		19.3	7.22	2.36	27	99	1,104		1.25		5		
RIC-MW9s	4/18/2019	14:18		19.2	7.24	2.41	27	95	1,109		1.25		7.5		
RIC-MW9s	4/18/2019	14:20		19.3	7.24	2.47	28	93	1,110		1.25		10		
RIC-MW9s	4/18/2019	14:22	13.60	19.3	7.25	2.53	28	90	1,111	58	1.25		12.5	5	
RIC-MW9s	5/13/2019	16:22	8.21									3.2			
RIC-MW9s	5/13/2019	16:27		18.6	7.80	2.16	21	36.0	1,161		0.65		3.2		

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
RIC-MW9s	5/13/2019	16:32		19.3	7.61	1.96	21	39.2	1,152		0.65		6.4		
RIC-MW9s	5/13/2019	16:37		19.6	7.56	1.90	22	42.1	1,150		0.65		9.6		
RIC-MW9s	5/13/2019	16:42		19.5	7.53	1.92	22	43.7	1,148		0.65		12.8		
RIC-MW9s	5/13/2019	16:47	10.06	19.5	7.54	1.94	22	44.0	1,148	33	0.65		16	5	
RIC-MW9s	8/12/2019	17:13	8.0									3.27			
RIC-MW9s	8/12/2019	17:16		24.4	7.50	1.00	10	20.3	1,466		1.0		3.27		
RIC-MW9s	8/12/2019	17:20		24.2	7.30	0.63	7	-8.2	1,445		1.0		6.54		
RIC-MW9s	8/12/2019	17:25		24.2	7.31	0.60	6	-28.9	1,452		1.0		9.81		
RIC-MW9s	8/12/2019	17:28		24.2	7.30	0.59	6	-29.3	1,449		1.0		13.08		
RIC-MW9s	8/12/2019	17:32	8.63	24.3	7.33	0.61	6	-28.6	1,448	9.59	1.0		16.53	5.1	
RIC-MW9d	11/19/2019		11.99									5.7			
RIC-MW9d	11/19/2019	13:18		22.9	8.12	3.06	35	33.2	1,232		1.4		5.7		
RIC-MW9d	11/19/2019	13:22		22.0	8.09	2.23	21	30.4	1,240		1.4		11.4		
RIC-MW9d	11/19/2019	13:26		21.6	8.04	1.12	13	27.4	1,244		1.4		17.1		
RIC-MW9d	11/19/2019	13:30		21.6	8.02	1.08	10	25.6	1,244		1.4		22.8		
RIC-MW9d	11/19/2019	13:34	12.74	21.5	8.01	1.07	9	22.3	1,251	>1,000	1.4		28.5	5	
SIE-MW1	2/13/2019	22:27	86.16									6			
SIE-MW1	2/13/2019	22:33		16.9	6.81	6.13	71	171	996		1.0		6		
SIE-MW1	2/13/2019	22:39		16.8	6.83	6.29	72	174	1,053		1.0		12		
SIE-MW1	2/13/2019	22:45		16.8	6.84	6.48	72	179	1,102		1.0		18		
SIE-MW1	2/13/2019	22:53		16.9	6.85	6.58	73	182	1,116		1.0		24		
SIE-MW1	2/13/2019	22:59	88.11	16.9	6.85	6.72	73	185	1,114	285	1.0		30	5	
SIE-MW1	5/15/2019	7:18	89.31									5.4			
SIE-MW1	5/15/2019	7:23		18.6	6.30	5.21	50	-31.2	704		1.1		5.4		
SIE-MW1	5/15/2019	7:28		18.3	6.26	5.06	48	-21.1	700		1.1		10.8		
SIE-MW1	5/15/2019	7:33		18.3	6.21	5.02	47	-16.4	694		1.1		16.2		
SIE-MW1	5/15/2019	7:38		18.2	6.20	5.01	46	-17.1	693		1.1		21.6		
SIE-MW1	5/15/2019	7:43	95.80	18.2	6.20	5.04	46	-17.4	692	130	1.1		27	5	
SIE-MW1	8/13/2019	17:23	82									6.5			
SIE-MW1	8/13/2019	17:29		21	5.96	4.15	47	233.1	874		1.0		6.5		
SIE-MW1	8/13/2019	17:35		21	7.04	3.65	41	172.5	791		1.0		13		
SIE-MW1	8/13/2019	17:41		20	7.14	3.43	40	148.9	786		1.0		19.5		
SIE-MW1	8/13/2019	17:47		19	7.13	3.41	39	148.9	784		1.0		26		
SIE-MW1	8/13/2019	17:53	82.19	19	7.13	3.40	39	148.9	785	6.3	1.0		32.5	5	
SIE-MW1	11/20/2019		84.90									6			
SIE-MW1	11/20/2019	14:52		19.9	7.59	8.04	87	90.3	858		1.5		6		
SIE-MW1	11/20/2019	14:56		18.6	7.58	7.41	73	88.2	862		1.5		12		
SIE-MW1	11/20/2019	15:00		18.5	7.58	6.30	67	87.9	864		1.5		18		
SIE-MW1	11/20/2019	15:04		18.5	7.56	6.27	66	84.3	870		1.5		24		
SIE-MW1	11/20/2019	15:08	86.23	18.6	7.56	6.22	66	81.2	874	182	1.5		32	5.3	
SIE-MW3	2/13/2019	21:30	97.29									4			

Table 4-1
Summary of Monitoring Well Purging Records (2019)

Well	Date	Time	DTW	T	pH	DO	DO %	ORP	SC	Turb	Pumping Rate (gpm)	Calc SCV	Purged Gallons	Purged Casings	Flag
SIE-MW3	2/13/2019	21:34		17.6	6.76	5.45	68	150	1,131		1.0		4		
SIE-MW3	2/13/2019	21:38		17.6	6.80	5.49	69	151	1,146		1.0		8		
SIE-MW3	2/13/2019	21:42		17.7	6.82	5.63	69	151	1,150		1.0		12		
SIE-MW3	2/13/2019	21:46		17.7	6.84	5.69	69	150	1,151		1.0		16		
SIE-MW3	2/13/2019	21:50	99.63	17.7	6.85	5.73	69	149	1,151	724	1.0		20	5	
SIE-MW3	5/15/2019	8:05	107.30									2.5			
SIE-MW3	5/15/2019	8:10		18.6	6.91	3.61	49	41.0	816		0.5		2.5		
SIE-MW3	5/15/2019	8:15		18.3	6.96	3.40	50	47.2	810		0.5		5		
SIE-MW3	5/15/2019	8:20		18.2	6.97	3.36	51	49.1	806		0.5		7.5		
SIE-MW3	5/15/2019	8:25		18.2	6.97	3.33	51	49.6	806		0.5		10		
SIE-MW3	5/15/2019	8:30	110.30	18.1	6.97	3.31	51	49.9	805	406	0.5		12.5	5	
SIE-MW3	8/13/2019	16:35	91.11									5			
SIE-MW3	8/13/2019	16:45		22	6.34	5.27	61	205.4	788		0.5		5		
SIE-MW3	8/13/2019	16:55		21	7.24	5.54	63	184.5	698		0.5		10		
SIE-MW3	8/13/2019	17:05		20	7.34	5.31	60	150.3	690		0.5		15		
SIE-MW3	8/13/2019	17:15		20	7.35	5.32	60	150.2	688		0.5		20		
SIE-MW3	8/13/2019	17:25	91.41	20	7.35	5.32	60	150.1	688	7.1	0.5		25	5	
SIE-MW3	11/20/2019		92.51									5			
SIE-MW3	11/20/2019	14:20		18.5	8.13	7.35	77	83.7	798		1		5		
SIE-MW3	11/20/2019	14:25		18.8	8.09	6.89	72	83.1	791		1		10		
SIE-MW3	11/20/2019	14:30		19.1	8.02	6.28	68	82.8	783		1		15		
SIE-MW3	11/20/2019	14:35		19.1	7.95	6.20	67	82.5	779		1		20		
SIE-MW3	11/20/2019	14:40	94.18	19.1	7.90	6.18	67	82.3	777	>1,000	1		25	5	

Values in mg/L except temperature (T) in degrees Celsius, pH in standard pH-units, dissolved oxygen percent (DO %) in percent saturation, oxygen reduction potential (ORP) in millivolts,
turbidity (Turb) in nephelometric turbidity units, specific conductance (SC) in microsiemens per centimeter.
SCV, Single Casing Volume
NM, No Measurement
MI, Missing Field Data Sheet; not available from Field Services Provider
QM, Questionable Measurement
Flag:
1 - Final temperature measurement indicates >5% variability.
2 - Final pH measurement indicates >5% variability.
3 - Final SC measurement indicates >5% variability.
D - Well was pumped dry and sample collected after recovery

Table 4-2
Laboratory Results for Field Duplicate Sampling (2019)

Well	Date	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Q	Duplicate Label
Central Area-East Side																		
MEN-MW1s	8/14/2019	4,000	84		2.4													
MEN-MW1s	8/14/2019	3,900	82		2.2													Field Duplicate #7
ANC-MW4	2/25/2019	940	57	<0.050	0.059J	<0.20	130	5.6	29	82	68	96	1.1	220	<8.2	<8.2		
ANC-MW4	2/25/2019	930	57	<0.050	0.062J	0.22	130	5.5	29	83	68	96	1.1	220	<8.2	<8.2		Field Duplicate #3
ANC-MW7s	8/16/2019	940	24		<0.2													
ANC-MW7s	8/16/2019	940	24		<0.20													Field Duplicate #6
BET-MW8s	11/11/2019	460	34		0.13J													
BET-MW8s	11/11/2019	460	34		0.13J													Field Duplicate 5
DIE-MW3	2/22/2019	920	34	<0.050	0.11J	0.21	120	7.4	57	170	110	38	0.23	590	<8.2	<8.2		
DIE-MW3	2/22/2019	920	33	<0.050	0.098J	0.088J	120	7.3	56	170	120	40	0.39	590	<8.2	<8.2		Field Duplicate #4
DIE-MW4	11/18/2019	810	30		<0.20													
DIE-MW4	11/18/2019	680	29		<0.20													Field Duplicate #1
DUR-MW10d	2/19/2019	1,500	74	<0.050	0.10J	0.94	270	7.1	81	150	140	92	0.35	730	<8.2	<8.2		
DUR-MW10d	2/19/2019	1,500	73	<0.050	0.077J	0.91	270	7.1	82	150	150	99	0.34	740	<8.2	<8.2		Field Duplicate #1
FG1-MW2s	5/24/2019	1,600	58		0.24													
FG1-MW2s	5/24/2019	1,700	58		0.26													Field Duplicate #4
COT-MW9	3/1/2019	1,300	55	<0.050	<0.20	0.42	170	5.7	55	220	110	140	0.57	550	<8.2	<8.2		
COT-MW9	3/1/2019	1,300	55	<0.050	<0.20	0.42	170	4.8	55	220	110	140	0.62	550	<8.2	<8.2		Field Duplicate #5
COT-MW10	8/23/2019	1,100	13		<0.2													
COT-MW10	8/23/2019	1,200	13		<0.20													Field Duplicate
GEN-MW10	5/17/2019	1,800	58		0.10J													
GEN-MW10	5/17/2019	1,800	58		0.14J													Field Duplicate #1
TRO-MW2	11/18/2019	1,300	90		0.084J													
TRO-MW2	11/18/2019	1,300	89		0.070J													Field Duplicate #2

Table 4-2
Laboratory Results for Field Duplicate Sampling (2019)

Well	Date	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Q	Duplicate Label
PLS-MW1s	11/12/2019	1,400	76		0.088J													
PLS-MW1s	11/12/2019	1,300	76		0.071J													Field Duplicate #1
PLS-MW7s	5/21/2019	2,000	130		0.96													
PLS-MW7s	5/21/2019	2,000	130		0.83													Field Duplicate
CAE-MW2s	11/11/2019	600	36		0.13J													
CAE-MW2s	11/11/2019	580	36		0.11J													Field Duplicate 7
CAE-MW6s	2/20/2019	1,600	120	<0.050	0.14J	<0.20	130	27	94	160	86	120	0.53	500	<8.2	<8.2		
CAE-MW6s	2/20/2019	1,600	120	<0.050	0.14J	1.6	140	27	97	170	89	120	0.53	500	<8.2	<8.2		Field Duplicate #2
ROB-MW8s	5/21/2019	1,400	80		<0.2													
ROB-MW8s	5/21/2019	1,400	81		<0.2													Field Duplicate #2
WOO-MW1	2/25/2019	980	29	<0.050	0.062J	0.31	110	1.7	61	160	110	79	0.68	520	<8.2	<8.2		
WOO-MW1	2/25/2019	920	29	<0.050	0.056J	0.30	100	1.7	61	160	98	74	0.71	520	<8.2	<8.2		Field Dup #6
WOO-MW2	8/14/2019	680	27		<0.2													
WOO-MW2	8/14/2019	680	26		<0.20													Field Duplicate #1
Central Area-West Side																		
ANT-MW6s	5/23/2019	1,300	37		0.067J													
ANT-MW6s	5/23/2019	1,300	37		0.073J													Field Duplicate #5
ANT-MW6s	8/15/2019	1,300	44		<0.2													
ANT-MW6s	8/15/2019	1,300	44		<0.20													Field Duplicate #4
COR-MW1s	5/22/2019	3,000	58		0.11J													
COR-MW1s	5/22/2019	3,000	58		0.097J													Field Duplicate 8
COR-MW5s	11/14/2019	1,700	7.8		0.19J													
COR-MW5s	11/14/2019	1,800	9.8*		0.19J													Field Duplicate #6
FG2-MW5s	8/23/2019	1,900	5.6		<0.2													
FG2-MW5s	8/23/2019	1,900	5.4		<0.20													Field Duplicate #3

Table 4-2
Laboratory Results for Field Duplicate Sampling (2019)

Well	Date	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Q	Duplicate Label
GOD-MW4s	5/21/2019	2,900	18		0.083J													
GOD-MW4s	5/21/2019	2,900	18		0.073J													Field Duplicate 7
GOD-MW7s	11/14/2019	2,300	1.7		0.10J													
GOD-MW7s	11/14/2019	2,200	1.7		0.11J													Field Duplicate 3
MAC-MW3s	11/14/2019	7,000	43*		0.14J												H	
MAC-MW3s	11/14/2019	11,000	31*		0.12J												H	Field Duplicate #4
NUN-MW3s	2/28/2019	4,900	12	0.045J	0.15J	1.2	1,200	1.3J	130	220	880	1,800	0.23	710	<8.2	<8.2		
NUN-MW3s	2/28/2019	4,800	13	0.034J	0.075J	1.1	1,200	1.4J	130	220	870	1,800	0.19	700	<8.2	<8.2		Field Duplicate #8
NUN-MW3s	8/14/2019	4,900	21		0.09J													
NUN-MW3s	8/14/2019	4,700	21		0.086J													Field Duplicate 8
MOO-MW1	2/26/2019	1,600	4.0	0.024J	0.28	0.72	250	2.4	160	79	290	260	0.31	800	<8.2	<8.2		
MOO-MW1	2/26/2019	1,600	4.0	0.023J	0.28	0.69	250	2.6	160	83	290	260	0.29	810	<8.2	<8.2		Field Duplicate
MOO-MW4	8/15/2019	1,400	5.9		<0.2													
MOO-MW4	8/15/2019	1,400	5.9		<0.20													Field Duplicate #5
TON-MW5s	5/22/2019	2,000	75		0.086J													
TON-MW5s	5/22/2019	2,000	75		0.086J													Field Duplicate 6
North Area																		
BRE-MW1s	2/12/2019	280	8.2	<0.050	<0.20	0.19J	22	0.64J	25	25	17	37	0.49	120	<4.1	<4.1		
BRE-MW1s	2/12/2019	240	4.4	<0.050	<0.20	0.28	22	0.80J	17	27	22	13	3.3	130	<4.1	<4.1		Field Duplicate #3
BRE-MW3s	11/25/2019	220	3.2		0.074J													
BRE-MW3s	11/25/2019	230	3.5		0.071J													DUP1
CRE-MW1s	11/25/2019	1,000	76		0.19J													
CRE-MW1s	11/25/2019	1,000	72		0.14J													DUP2
CRE-MW2s	5/7/2019	560	17		<0.2													
CRE-MW2s	5/7/2019	580	17		0.05J													Field Duplicate
MTS-MW1	8/16/2019	530	24		<0.2													

Table 4-2
Laboratory Results for Field Duplicate Sampling (2019)

Well	Date	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Q	Duplicate Label
MTS-MW1	8/16/2019	520	24		<0.20													Field Duplicate
South Area																		
AUK-MW1	5/14/2019	1,300	54		<0.2													
AUK-MW1	5/14/2019	1,200	47		<0.2													Dup-2 Field Duplicate
AUK-MW2	2/20/2019	1,400	73	<0.050	0.086J	0.58	150	0.73J	24	220	55	240	3.0	420	<8.2	<8.2		
AUK-MW2	2/20/2019	1,400	73	<0.050	0.073J	0.68	150	0.75J	24	230	55	240	3.5	430	<8.2	<8.2		Dup-2
AUK-MW3	8/13/2019	1,000	56		<0.2													
AUK-MW3	8/13/2019	1,000	56		<0.20													DUP-4
DLF-MW6C	8/13/2019	900	68		<0.2													
DLF-MW6C	8/13/2019	920	69		<0.20													DUP-3
ZZI-MW2D	3/28/2019	240	1.8	0.11	<0.20	0.20	61	0.24J	1.3	8.2	11	14	0.24	130	<4.1	<4.1		
ZZI-MW2D	3/28/2019	240	2.1	0.026J	0.093J	0.18J	63	0.21J	1.3	8.0	11	13	0.39	130	<4.1	<4.1		DUP-4
ZZI-MW2C	11/21/2019	220	1.3		<0.20													
ZZI-MW2C	11/21/2019	200	1.3		<0.20													Field Duplicate
ZZI-MW9D	5/22/2019	250	2.4		<0.2													
ZZI-MW9D	5/22/2019	260	2.4		0.074J													Field Duplicate
MAL-MW5	5/15/2019	4,700	270		0.28													
MAL-MW5	5/15/2019	4,800	270		0.34													DUP-4 Field Duplicate
MAL-MW6	11/21/2019	1,800	70		0.11J													
MAL-MW6	11/21/2019	1,900	71		0.093J													DUP-5
MAL-MW8	3/21/2019	1,700	75	0.75	0.059J	1.5	460	0.61J	1.9	6.7	98	100	4.4	660	58	<8.2		
MAL-MW8	3/21/2019	1,700	76	0.78	0.081J	0.89	450	0.57J	0.95	3.3	97	100	4.9	660	58	<8.2		Field Duplicate
RIC-MW9s	4/18/2019	940	48	0.93	<0.20	0.40	110	1.9	59	110	89	75	0.42	390	<8.2	<8.2		
RIC-MW9s	4/18/2019	930	48	0.97	<0.20	0.44	110	1.8	59	110	89	74	0.36	390	<8.2	<8.2		Field Duplicate
SIE-MW1	2/13/2019	430	29	<0.050	0.084J	0.52	29	1.6	18	97	15	35	0.49	220	<4.1	<4.1		
SIE-MW1	2/13/2019	410	27	<0.050	0.092J	0.70	25	0.97J	16	81	14	31	0.83	210	<4.1	<4.1		Field Duplicate

Table 4-2
Laboratory Results for Field Duplicate Sampling (2019)

Well	Date	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Q	Duplicate Label
SIE-MW1	11/20/2019	560	30		<0.20													
SIE-MW1	11/20/2019	480	31		<0.20													Field Duplicate
SIE-MW3	5/15/2019	450	22		<0.2													
SIE-MW3	5/15/2019	450	21		<0.2													DUP-5 Field Duplicate

All concentrations in mg/L. Nitrate, nitrite, ammoniacal-N, and total kjeldahl nitrogen are reported as nitrogen. Sulfate is reported as sulfate; total phosphate is reported as phosphate.
Q, qualifiers (H) sample holding time was exceeded where indicated with an *; (P) complete purge was not attained; (D) well was pumped dry and sample collected after recovery; (U) uncertain duplicate Well ID.

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MEN-MW1s	1/29/2012	8:57	8.77	52.04	0.22	0.02
MEN-MW1s	2/7/2012	17:25	7.12	53.69	-0.05	-0.00
MEN-MW1s	3/5/2012	15:40	8.66	52.15	<|0.05|	0
MEN-MW1s	4/5/2012	13:12	8.25	52.56	<|0.05|	0
MEN-MW1s	5/8/2012	15:56	9.05	51.76	-0.06	-0.00
MEN-MW1s	6/18/2012	9:48	9.15	51.66	-0.06	-0.00
MEN-MW1s	7/9/2012	10:01	8.75	52.06	-0.06	-0.00
MEN-MW1s	8/14/2012	7:56	7.36	53.45	0.09	0.01
MEN-MW1s	9/17/2012	11:11	8.12	52.69	<|0.05|	0
MEN-MW1s	10/19/2012	11:11	8.44	52.37	<|0.05|	0
MEN-MW1s	12/6/2012	10:24	9.20	51.61	<|0.05|	0
MEN-MW1s	12/28/2012	10:08	6.65	54.16	<|0.05|	0
MEN-MW1s	1/15/2013	13:10	6.45	54.36	<|0.05|	0
MEN-MW1s	2/16/2013	14:42	8.60	52.21	<|0.05|	0
MEN-MW1s	3/18/2013	16:50	8.82	51.99	0.06	0.00
MEN-MW1s	4/16/2013	10:11	8.35	52.46	<|0.05|	0
MEN-MW1s	5/28/2013	16:51	8.48	52.33	<|0.05|	0
MEN-MW1s	6/17/2013	17:49	9.96	50.85	<|0.05|	0
MEN-MW1s	7/15/2013	15:13	10.05	50.76	<|0.05|	0
MEN-MW1s	8/22/2013	13:05	9.91	50.90	<|0.05|	0
MEN-MW1s	9/9/2013	12:48	10.06	50.75	<|0.05|	0
MEN-MW1s	10/7/2013	13:31	9.36	51.45	<|0.05|	0
MEN-MW1s	11/12/2013	17:05	9.45	51.36	<|0.05|	0
MEN-MW1s	12/17/2013	12:53	9.78	51.03	<|0.05|	0
MEN-MW1s	1/13/2014	12:30	10.16	50.65	<|0.05|	0
MEN-MW1s	2/18/2014	13:00	9.53	51.28	<|0.05|	0
MEN-MW1s	3/16/2014	12:47	9.85	50.96	<|0.05|	0
MEN-MW1s	4/20/2014	10:55	10.90	49.91	<|0.05|	0
MEN-MW1s	5/20/2014	13:18	10.07	50.74	<|0.05|	0
MEN-MW1s	6/19/2014	12:07	Dry			
MEN-MW1s	7/17/2014	17:43	10.15	50.66	<|0.05|	0
MEN-MW1s	8/19/2014	18:24	8.95	51.86	<|0.05|	0
MEN-MW1s	9/19/2014	17:40	8.37	52.44	<|0.05|	0
MEN-MW1s	10/14/2014	13:18	9.68	51.13	<|0.05|	0
MEN-MW1s	11/6/2014	8:19	10.09	50.72	-0.11	-0.01
MEN-MW1s	12/14/2014	14:05	6.06	54.75	<|0.05|	0
MEN-MW1s	1/12/2015	15:21	7.14	53.67	<|0.05|	0
MEN-MW1s	2/5/2015	14:17	8.27	52.54	<|0.05|	0
MEN-MW1s	3/13/2015	13:15	9.39	51.42	<|0.05|	0
MEN-MW1s	4/17/2015	11:16	9.89	50.92	<|0.05|	0
MEN-MW1s	5/12/2015	12:32	9.83	50.98	0.06	0.00
MEN-MW1s	6/4/2015	17:46	10.55	50.26	<|0.05|	0
MEN-MW1s	7/13/2015	14:22	10.97	49.84	<|0.05|	0
MEN-MW1s	8/21/2015	9:33	10.38	50.43	<|0.05|	0
MEN-MW1s	9/14/2015	10:10	11.23	49.58	<|0.05|	0
MEN-MW1s	10/16/2015	10:19	11.38	49.43	<|0.05|	0
MEN-MW1s	11/12/2015	7:26	11.46	49.35	<|0.05|	0
MEN-MW1s	12/26/2015	10:40	11.40	49.41	<|0.05|	0
MEN-MW1s	1/15/2016	13:11	11.06	49.75	<|0.05|	0
MEN-MW1s	2/17/2016	16:46	9.82	50.99	<|0.05|	0
MEN-MW1s	3/18/2016	12:26	9.40	51.41	<|0.05|	0
MEN-MW1s	4/18/2016	13:18	8.75	52.06	<|0.05|	0
MEN-MW1s	5/17/2016	16:19	9.03	51.78	<|0.05|	0
MEN-MW1s	6/17/2016	15:41	9.00	51.81	<|0.05|	0
MEN-MW1s	7/21/2016	12:49	9.86	50.95	<|0.05|	0
MEN-MW1s	8/16/2016	15:34	9.51	51.30	<|0.05|	0
MEN-MW1s	9/15/2016	12:06	9.63	51.18	<|0.05|	0
MEN-MW1s	10/14/2016	13:06	9.74	51.07	<|0.05|	0
MEN-MW1s	11/29/2016	14:41	9.32	51.49	<|0.05|	0
MEN-MW1s	12/12/2016	13:04	9.58	51.23	<|0.05|	0
MEN-MW1s	1/25/2017	12:31	5.90	54.91	<|0.05|	0
MEN-MW1s	2/1/2017		N/M			
MEN-MW1s	3/14/2017	12:20	7.06	53.75	<|0.05|	0
MEN-MW1s	4/20/2017	12:32	6.42	54.39	<|0.05|	0
MEN-MW1s	5/17/2017	12:27	6.59	54.22	<|0.05|	0
MEN-MW1s	6/24/2017	11:55	8.28	52.53	<|0.05|	0
MEN-MW1s	7/14/2017	12:06	8.20	52.61	<|0.05|	0
MEN-MW1s	8/25/2017	14:56	8.16	52.65	<|0.05|	0
MEN-MW1s	9/22/2017	13:13	8.72	52.09	<|0.05|	0
MEN-MW1s	10/19/2017	12:28	8.71	52.10	<|0.05|	0
MEN-MW1s	11/20/2017	9:53	9.66	51.15	<|0.05|	0
MEN-MW1s	12/21/2017	12:57	8.30	52.51	<|0.05|	0
MEN-MW1s	1/23/2018	12:22	8.04	52.77	<|0.05|	0
MEN-MW1s	2/20/2018	13:03	9.69	51.12	<|0.05|	0
MEN-MW1s	3/1/2018		N/M			
MEN-MW1s	4/24/2018	11:16	9.19	51.62	<|0.05|	0
MEN-MW1s	5/8/2018	17:07	8.36	52.45	<|0.05|	0
MEN-MW1s	6/13/2018	12:53	9.51	51.30	<|0.05|	0
MEN-MW1s	7/16/2018	10:55	8.43	52.38	<|0.05|	0
MEN-MW1s	8/20/2018	13:22	7.58	53.23	<|0.05|	0
MEN-MW1s	9/16/2018	14:07	8.31	52.50	<|0.05|	0
MEN-MW1s	10/25/2018	12:03	8.78	52.03	<|0.05|	0
MEN-MW1s	11/12/2018	9:40	9.05	51.76	<|0.05|	0
MEN-MW1s	12/15/2018	10:29	8.01	52.80	<|0.05|	0
MEN-MW1s	1/25/2019	11:44	6.32	54.49	<|0.05|	0
MEN-MW1s	2/20/2019	12:38	5.23	55.58	<|0.05|	0
MEN-MW1s	3/16/2019	13:38	6.77	54.04	<|0.05|	0
MEN-MW1s	4/16/2019	13:07	6.55	54.26	<|0.05|	0
MEN-MW1s	5/22/2019	9:32	6.46	54.35	<|0.05|	0
MEN-MW1s	6/20/2019	12:42	8.40	52.41	<|0.05|	0
MEN-MW1s	7/17/2019	13:39	7.31	53.50	<|0.05|	0
MEN-MW1s	8/14/2019	13:07	7.71	53.10	<|0.05|	0
MEN-MW1s	9/27/2019	13:19	8.19	52.62	<|0.05|	0
MEN-MW1s	10/28/2019	15:31	7.50	53.31	<|0.05|	0
MEN-MW1s	11/12/2019	13:56	8.30	52.51	<|0.05|	0
MEN-MW1s	12/14/2019	10:11	6.10	54.71	0.08	0.01
MEN-MW1d	1/29/2012	9:00	8.90	51.82		
MEN-MW1d	2/7/2012	17:26	6.98	53.74		
MEN-MW1d	3/5/2012	15:41	8.56	52.16		
MEN-MW1d	4/5/2012	13:12	8.15	52.57		
MEN-MW1d	5/8/2012	15:58	8.90	51.82		
MEN-MW1d	6/18/2012	9:47	9.00	51.72		
MEN-MW1d	7/9/2012	10:00	8.60	52.12		
MEN-MW1d	8/14/2012	7:57	7.36	53.36		
MEN-MW1d	9/17/2012	11:10	8.03	52.69		
MEN-MW1d	10/19/2012	11:11	8.35	52.37		
MEN-MW1d	12/6/2012	10:24	9.09	51.63		
MEN-MW1d	12/28/2012	10:09	6.57	54.15		
MEN-MW1d	1/15/2013	13:11	6.36	54.36		
MEN-MW1d	2/16/2013	14:42	8.50	52.22		
MEN-MW1d	3/18/2013	16:51	8.79	51.93		
MEN-MW1d	4/16/2013	10:11	8.24	52.48		
MEN-MW1d	5/28/2013	16:51	8.43	52.29		
MEN-MW1d	6/17/2013	17:49	9.85	50.87		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MEN-MW1d	7/15/2013	15:13	9.94	50.78		
MEN-MW1d	8/22/2013	13:05	9.78	50.94		
MEN-MW1d	9/9/2013	12:48	9.97	50.75		
MEN-MW1d	10/7/2013	13:31	9.23	51.49		
MEN-MW1d	11/12/2013	17:05	9.38	51.34		
MEN-MW1d	12/17/2013	12:53	9.69	51.03		
MEN-MW1d	1/13/2014	12:30	10.08	50.64		
MEN-MW1d	2/18/2014	13:00	9.42	51.30		
MEN-MW1d	3/16/2014	12:47	9.76	50.96		
MEN-MW1d	4/20/2014	10:55	10.78	49.94		
MEN-MW1d	5/20/2014	13:18	9.96	50.76		
MEN-MW1d	6/19/2014	12:07	9.98	50.74		
MEN-MW1d	7/17/2014	17:43	10.06	50.66		
MEN-MW1d	8/19/2014	18:24	8.86	51.86		
MEN-MW1d	9/19/2014	17:40	8.31	52.41		
MEN-MW1d	10/14/2014	13:18	9.59	51.13		
MEN-MW1d	11/6/2014	8:19	9.89	50.83		
MEN-MW1d	12/14/2014	14:05	5.93	54.79		
MEN-MW1d	1/12/2015	15:21	7.04	53.68		
MEN-MW1d	2/5/2015	14:17	8.19	52.53		
MEN-MW1d	3/13/2015	13:15	9.29	51.43		
MEN-MW1d	4/17/2015	11:16	9.82	50.90		
MEN-MW1d	5/12/2015	12:32	9.80	50.92		
MEN-MW1d	6/4/2015	17:46	10.48	50.24		
MEN-MW1d	7/13/2015	14:22	10.85	49.87		
MEN-MW1d	8/21/2015	9:34	10.30	50.42		
MEN-MW1d	9/14/2015	10:11	11.14	49.58		
MEN-MW1d	10/16/2015	10:20	11.29	49.43		
MEN-MW1d	11/12/2015	7:27	11.36	49.36		
MEN-MW1d	12/26/2015	10:41	11.29	49.43		
MEN-MW1d	1/15/2016	13:12	11.00	49.72		
MEN-MW1d	2/17/2016	16:47	9.74	50.98		
MEN-MW1d	3/18/2016	12:27	9.34	51.38		
MEN-MW1d	4/18/2016	13:18	8.70	52.02		
MEN-MW1d	5/17/2016	16:19	8.98	51.74		
MEN-MW1d	6/17/2016	15:42	8.91	51.81		
MEN-MW1d	7/21/2016	12:49	9.79	50.93		
MEN-MW1d	8/16/2016	15:34	9.43	51.29		
MEN-MW1d	9/15/2016	12:07	9.52	51.20		
MEN-MW1d	10/14/2016	13:06	9.63	51.09		
MEN-MW1d	11/29/2016	14:41	9.21	51.51		
MEN-MW1d	12/12/2016	13:05	9.45	51.27		
MEN-MW1d	1/25/2017	12:32	5.81	54.91		
MEN-MW1d	2/1/2017		N/M			
MEN-MW1d	3/14/2017	12:19	6.97	53.75		
MEN-MW1d	4/20/2017	12:33	6.32	54.40		
MEN-MW1d	5/17/2017	12:28	6.50	54.22		
MEN-MW1d	6/24/2017	11:56	8.16	52.56		
MEN-MW1d	7/14/2017	12:07	8.13	52.59		
MEN-MW1d	8/25/2017	14:56	8.06	52.66		
MEN-MW1d	9/22/2017	13:14	8.59	52.13		
MEN-MW1d	10/19/2017	12:29	8.62	52.10		
MEN-MW1d	11/20/2017	9:53	9.56	51.16		
MEN-MW1d	12/21/2017	12:58	8.24	52.48		
MEN-MW1d	1/23/2018	12:23	7.96	52.76		
MEN-MW1d	2/20/2018	13:04	9.60	51.12		
MEN-MW1d	3/1/2018		N/M			
MEN-MW1d	4/24/2018	11:17	9.13	51.59		
MEN-MW1d	5/8/2018	17:08	8.27	52.45		
MEN-MW1d	6/13/2018	12:52	9.41	51.31		
MEN-MW1d	7/16/2018	10:56	8.34	52.38		
MEN-MW1d	8/20/2018	13:22	7.48	53.24		
MEN-MW1d	9/16/2018	14:07	8.20	52.52		
MEN-MW1d	10/25/2018	12:04	8.66	52.06		
MEN-MW1d	11/12/2018	9:40	8.95	51.77		
MEN-MW1d	12/15/2018	10:30	7.90	52.82		
MEN-MW1d	1/25/2019	11:45	6.25	54.47		
MEN-MW1d	2/20/2019	12:39	5.16	55.56		
MEN-MW1d	3/16/2019	13:38	6.70	54.02		
MEN-MW1d	4/16/2019	13:07	6.46	54.26		
MEN-MW1d	5/22/2019	9:32	6.40	54.32		
MEN-MW1d	6/20/2019	12:43	8.30	52.42		
MEN-MW1d	7/17/2019	13:39	7.22	53.50		
MEN-MW1d	8/14/2019	13:07	7.65	53.07		
MEN-MW1d	9/27/2019	13:19	8.13	52.59		
MEN-MW1d	10/28/2019	15:32	7.45	53.27		
MEN-MW1d	11/12/2019	13:57	8.25	52.47		
MEN-MW1d	12/14/2019	10:12	6.09	54.63		
MEN-MW2s	1/29/2012	9:07	8.89	51.98	-0.06	-0.00
MEN-MW2s	2/7/2012	17:11	7.04	53.83	-0.08	-0.01
MEN-MW2s	3/5/2012	15:43	8.55	52.32	<|0.05|	0
MEN-MW2s	4/5/2012	13:18	8.21	52.66	<|0.05|	0
MEN-MW2s	5/8/2012	15:03	8.54	52.33	-0.12	-0.01
MEN-MW2s	6/18/2012	9:51	9.13	51.74	<|0.05|	0
MEN-MW2s	7/9/2012	10:04	8.72	52.15	-0.08	-0.01
MEN-MW2s	8/14/2012	7:59	7.25	53.62	0.11	0.01
MEN-MW2s	9/17/2012	11:13	8.12	52.75	<|0.05|	0
MEN-MW2s	10/19/2012	11:08	8.32	52.55	<|0.05|	0
MEN-MW2s	12/6/2012	10:20	9.15	51.72	-0.06	-0.00
MEN-MW2s	12/28/2012	10:12	6.75	54.12	<|0.05|	0
MEN-MW2s	1/15/2013	13:13	6.41	54.46	<|0.05|	0
MEN-MW2s	2/16/2013	14:44	8.42	52.45	<|0.05|	0
MEN-MW2s	3/18/2013	16:54	8.75	52.12	0.19	0.01
MEN-MW2s	4/16/2013	10:13	8.14	52.73	0.09	0.01
MEN-MW2s	5/28/2013	16:53	8.48	52.39	<|0.05|	0
MEN-MW2s	6/17/2013	17:52	9.97	50.90	-0.05	-0.00
MEN-MW2s	7/15/2013	15:15	9.79	51.08	<|0.05|	0
MEN-MW2s	8/22/2013	13:08	9.68	51.19	-0.07	-0.01
MEN-MW2s	9/9/2013	12:52	10.23	50.64	<|0.05|	0
MEN-MW2s	10/7/2013	13:27	9.18	51.69	-0.34	-0.03
MEN-MW2s	11/12/2013	17:08	9.45	51.42	<|0.05|	0
MEN-MW2s	12/17/2013	12:50	9.83	51.04	<|0.05|	0
MEN-MW2s	1/13/2014	12:27	10.16	50.71	<|0.05|	0
MEN-MW2s	2/18/2014	12:57	9.55	51.32	0.07	0.01
MEN-MW2s	3/16/2014	12:45	9.44	51.43	<|0.05|	0
MEN-MW2s	4/20/2014	10:51	10.80	50.07	<|0.05|	0
MEN-MW2s	5/20/2014	13:14	9.68	51.19	<|0.05|	0
MEN-MW2s	6/19/2014	12:01	10.45	50.42	-0.10	-0.01
MEN-MW2s	7/17/2014	17:41	9.93	50.94	<|0.05|	0
MEN-MW2s	8/19/2014	18:19	8.83	52.04	<|0.05|	0
MEN-MW2s	9/19/2014	17:38	8.38	52.49	0.07	0.01
MEN-MW2s	10/14/2014	13:16	9.77	51.10	<|0.05|	0
MEN-MW2s	11/6/2014	8:16	10.18	50.69	-0.14	-0.01
MEN-MW2s	12/14/2014	14:07	5.88	54.99	-0.17	-0.01

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MEN-MW2s	1/12/2015	15:18	7.18	53.69	<|0.05|	0
MEN-MW2s	2/5/2015	14:20	8.30	52.57	0.08	0.01
MEN-MW2s	3/13/2015	13:13	9.20	51.67	0.12	0.01
MEN-MW2s	4/17/2015	11:13	9.75	51.12	0.09	0.01
MEN-MW2s	5/12/2015	12:30	9.88	50.99	0.09	0.01
MEN-MW2s	6/4/2015	17:49	10.21	50.66	0.10	0.01
MEN-MW2s	7/13/2015	14:24	10.58	50.29	-0.18	-0.01
MEN-MW2s	8/21/2015	9:36	10.10	50.77	<|0.05|	0
MEN-MW2s	9/14/2015	10:12	11.05	49.82	0.07	0.01
MEN-MW2s	10/16/2015	10:22	11.31	49.56	0.06	0.00
MEN-MW2s	11/12/2015	7:29	11.40	49.47	<|0.05|	0
MEN-MW2s	12/26/2015	10:44	11.40	49.47	<|0.05|	0
MEN-MW2s	1/15/2016	13:14	11.02	49.85	<|0.05|	0
MEN-MW2s	2/17/2016	16:48	9.67	51.20	0.13	0.01
MEN-MW2s	3/18/2016	12:30	9.16	51.71	0.10	0.01
MEN-MW2s	4/18/2016	13:15	8.49	52.38	0.17	0.01
MEN-MW2s	5/17/2016	16:21	8.66	52.21	0.07	0.01
MEN-MW2s	6/17/2016	15:43	8.95	51.92	0.12	0.01
MEN-MW2s	7/21/2016	12:40	9.63	51.24	0.07	0.01
MEN-MW2s	8/16/2016	15:37	9.40	51.47	<|0.05|	0
MEN-MW2s	9/15/2016	12:09	9.49	51.38	0.06	0.00
MEN-MW2s	10/14/2016	13:03	9.61	51.26	<|0.05|	0
MEN-MW2s	11/29/2016	14:45	9.28	51.59	<|0.05|	0
MEN-MW2s	12/12/2016	13:02	9.58	51.29	<|0.05|	0
MEN-MW2s	1/25/2017	12:29	5.90	54.97	<|0.05|	0
MEN-MW2s	2/1/2017		N/M			
MEN-MW2s	3/14/2017	12:22	7.10	53.77	0.09	0.01
MEN-MW2s	4/20/2017	12:31	6.31	54.56	0.09	0.01
MEN-MW2s	5/17/2017	12:29	6.43	54.44	<|0.05|	0
MEN-MW2s	6/24/2017	11:58	8.06	52.81	<|0.05|	0
MEN-MW2s	7/14/2017	12:04	8.16	52.71	<|0.05|	0
MEN-MW2s	8/25/2017	14:55	8.09	52.78	0.36	0.03
MEN-MW2s	9/22/2017	13:11	8.50	52.37	<|0.05|	0
MEN-MW2s	10/19/2017	12:31	8.62	52.25	0.06	0.00
MEN-MW2s	11/20/2017	9:50	9.65	51.22	0.08	0.01
MEN-MW2s	12/21/2017	12:59	8.29	52.58	<|0.05|	0
MEN-MW2s	1/23/2018	12:24	7.90	52.97	0.09	0.01
MEN-MW2s	2/20/2018	13:01	9.40	51.47	0.06	0.00
MEN-MW2s	3/1/2018		N/M			
MEN-MW2s	4/24/2018	11:13	9.09	51.78	0.08	0.01
MEN-MW2s	5/8/2018	17:04	8.16	52.71	0.10	0.01
MEN-MW2s	6/13/2018	12:54	9.44	51.43	0.11	0.01
MEN-MW2s	7/16/2018	10:57	8.35	52.52	0.14	0.01
MEN-MW2s	8/20/2018	13:25	7.40	53.47	0.06	0.00
MEN-MW2s	9/16/2018	14:08	8.21	52.66	0.06	0.00
MEN-MW2s	10/25/2018	12:05	8.83	52.04	-0.11	-0.01
MEN-MW2s	11/12/2018	9:39	9.09	51.78	0.06	0.00
MEN-MW2s	12/15/2018	10:31	8.11	52.76	0.07	0.01
MEN-MW2s	1/25/2019	11:46	6.28	54.59	0.13	0.01
MEN-MW2s	2/20/2019	12:40	5.20	55.67	0.14	0.01
MEN-MW2s	3/16/2019	13:39	6.77	54.10	0.09	0.01
MEN-MW2s	4/16/2019	13:10	6.35	54.52	0.13	0.01
MEN-MW2s	5/22/2019	9:30	6.38	54.49	0.11	0.01
MEN-MW2s	6/20/2019	12:44	8.32	52.55	0.10	0.01
MEN-MW2s	7/17/2019	13:36	7.26	53.61	0.18	0.01
MEN-MW2s	8/14/2019	13:04	7.64	53.23	0.11	0.01
MEN-MW2s	9/27/2019	13:23	8.12	52.75	0.07	0.01
MEN-MW2s	10/28/2019	15:35	7.42	53.45	0.10	0.01
MEN-MW2s	11/12/2019	13:58	8.34	52.53	0.06	0.00
MEN-MW2s	12/14/2019	10:14	6.22	54.65	0.06	0.00
MEN-MW2d	1/29/2012	9:10	8.77	52.04		
MEN-MW2d	2/7/2012	17:12	6.90	53.91		
MEN-MW2d	3/5/2012	15:44	8.53	52.28		
MEN-MW2d	4/5/2012	13:19	8.16	52.65		
MEN-MW2d	5/8/2012	15:03	8.36	52.45		
MEN-MW2d	6/18/2012	9:50	9.03	51.78		
MEN-MW2d	7/9/2012	10:03	8.58	52.23		
MEN-MW2d	8/14/2012	8:00	7.30	53.51		
MEN-MW2d	9/17/2012	11:13	8.09	52.72		
MEN-MW2d	10/19/2012	11:08	8.23	52.58		
MEN-MW2d	12/6/2012	10:20	9.03	51.78		
MEN-MW2d	12/28/2012	10:13	6.67	54.14		
MEN-MW2d	1/15/2013	13:14	6.39	54.42		
MEN-MW2d	2/16/2013	14:44	8.40	52.41		
MEN-MW2d	3/18/2013	16:55	8.88	51.93		
MEN-MW2d	4/16/2013	10:13	8.17	52.64		
MEN-MW2d	5/28/2013	16:53	8.44	52.37		
MEN-MW2d	6/17/2013	17:52	9.86	50.95		
MEN-MW2d	7/15/2013	15:15	9.71	51.10		
MEN-MW2d	8/22/2013	13:08	9.55	51.26		
MEN-MW2d	9/9/2013	12:52	10.14	50.67		
MEN-MW2d	10/7/2013	13:27	8.78	52.03		
MEN-MW2d	11/12/2013	17:08	9.39	51.42		
MEN-MW2d	12/17/2013	12:50	9.75	51.06		
MEN-MW2d	1/13/2014	12:27	10.14	50.67		
MEN-MW2d	2/18/2014	12:57	9.56	51.25		
MEN-MW2d	3/16/2014	12:45	9.33	51.48		
MEN-MW2d	4/20/2014	10:51	10.75	50.06		
MEN-MW2d	5/20/2014	13:14	9.62	51.19		
MEN-MW2d	6/19/2014	12:01	10.29	50.52		
MEN-MW2d	7/17/2014	17:41	9.89	50.92		
MEN-MW2d	8/19/2014	18:19	8.80	52.01		
MEN-MW2d	9/19/2014	17:38	8.39	52.42		
MEN-MW2d	10/14/2014	13:16	9.70	51.11		
MEN-MW2d	11/6/2014	8:16	9.98	50.83		
MEN-MW2d	12/14/2014	14:07	5.65	55.16		
MEN-MW2d	1/12/2015	15:18	7.17	53.64		
MEN-MW2d	2/5/2015	14:20	8.32	52.49		
MEN-MW2d	3/13/2015	13:13	9.26	51.55		
MEN-MW2d	4/17/2015	11:13	9.78	51.03		
MEN-MW2d	5/12/2015	12:30	9.91	50.90		
MEN-MW2d	6/4/2015	17:49	10.25	50.56		
MEN-MW2d	7/13/2015	14:24	10.34	50.47		
MEN-MW2d	8/21/2015	9:37	10.08	50.73		
MEN-MW2d	9/14/2015	10:13	11.06	49.75		
MEN-MW2d	10/16/2015	10:23	11.31	49.50		
MEN-MW2d	11/12/2015	7:30	11.37	49.44		
MEN-MW2d	12/26/2015	10:45	11.33	49.48		
MEN-MW2d	1/15/2016	13:15	10.98	49.83		
MEN-MW2d	2/17/2016	16:49	9.74	51.07		
MEN-MW2d	3/18/2016	12:30	9.20	51.61		
MEN-MW2d	4/18/2016	13:15	8.60	52.21		
MEN-MW2d	5/17/2016	16:21	8.67	52.14		
MEN-MW2d	6/17/2016	15:44	9.01	51.80		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MEN-MW2d	7/21/2016	12:40	9.64	51.17		
MEN-MW2d	8/16/2016	15:37	9.39	51.42		
MEN-MW2d	9/15/2016	12:10	9.49	51.32		
MEN-MW2d	10/14/2016	13:03	9.53	51.28		
MEN-MW2d	11/29/2016	14:45	9.25	51.56		
MEN-MW2d	12/12/2016	13:01	9.53	51.28		
MEN-MW2d	1/25/2017	12:28	5.85	54.96		
MEN-MW2d	2/1/2017		N/M			
MEN-MW2d	3/14/2017	12:21	7.13	53.68		
MEN-MW2d	4/20/2017	12:32	6.34	54.47		
MEN-MW2d	5/17/2017	12:30	6.38	54.43		
MEN-MW2d	6/24/2017	11:59	8.04	52.77		
MEN-MW2d	7/14/2017	12:05	8.09	52.72		
MEN-MW2d	8/25/2017	14:55	8.39	52.42		
MEN-MW2d	9/22/2017	13:12	8.47	52.34		
MEN-MW2d	10/19/2017	12:32	8.62	52.19		
MEN-MW2d	11/20/2017	9:50	9.67	51.14		
MEN-MW2d	12/21/2017	12:59	8.25	52.56		
MEN-MW2d	1/23/2018	12:25	7.93	52.88		
MEN-MW2d	2/20/2018	13:02	9.40	51.41		
MEN-MW2d	3/1/2018		N/M			
MEN-MW2d	4/24/2018	11:13	9.11	51.70		
MEN-MW2d	5/8/2018	17:05	8.20	52.61		
MEN-MW2d	6/13/2018	12:55	9.49	51.32		
MEN-MW2d	7/16/2018	10:58	8.43	52.38		
MEN-MW2d	8/20/2018	13:25	7.40	53.41		
MEN-MW2d	9/16/2018	14:08	8.21	52.60		
MEN-MW2d	10/25/2018	12:06	8.66	52.15		
MEN-MW2d	11/12/2018	9:39	9.09	51.72		
MEN-MW2d	12/15/2018	10:32	8.12	52.69		
MEN-MW2d	1/25/2019	11:47	6.35	54.46		
MEN-MW2d	2/20/2019	12:41	5.28	55.53		
MEN-MW2d	3/16/2019	13:39	6.80	54.01		
MEN-MW2d	4/16/2019	13:10	6.42	54.39		
MEN-MW2d	5/22/2019	9:30	6.43	54.38		
MEN-MW2d	6/20/2019	12:45	8.36	52.45		
MEN-MW2d	7/17/2019	13:36	7.38	53.43		
MEN-MW2d	8/14/2019	13:04	7.69	53.12		
MEN-MW2d	9/27/2019	13:23	8.13	52.68		
MEN-MW2d	10/28/2019	15:36	7.46	53.35		
MEN-MW2d	11/12/2019	13:59	8.34	52.47		
MEN-MW2d	12/14/2019	10:15	6.22	54.59		
MEN-MW3s	1/29/2012	9:14	8.70	52.07	-0.08	-0.01
MEN-MW3s	2/7/2012	16:05	6.85	53.92	-0.10	-0.01
MEN-MW3s	3/5/2012	15:47	8.19	52.58	<|0.05|	0
MEN-MW3s	4/5/2012	13:58	7.90	52.87	<|0.05|	0
MEN-MW3s	5/8/2012	17:30	8.24	52.53	-0.56	-0.04
MEN-MW3s	6/18/2012	9:55	9.16	51.61	<|0.05|	0
MEN-MW3s	7/9/2012	10:07	8.20	52.57	-0.06	-0.00
MEN-MW3s	8/14/2012	8:26	8.48	52.29	-0.13	-0.01
MEN-MW3s	9/17/2012	11:16	8.96	51.81	-0.08	-0.01
MEN-MW3s	10/19/2012	10:40	8.41	52.36	-0.12	-0.01
MEN-MW3s	12/6/2012	10:16	9.23	51.54	-0.09	-0.01
MEN-MW3s	12/28/2012	10:24	7.78	52.99	-0.15	-0.01
MEN-MW3s	1/15/2013	14:33	7.10	53.67	-0.11	-0.01
MEN-MW3s	2/16/2013	15:04	8.90	51.87	-0.15	-0.01
MEN-MW3s	3/18/2013	17:04	10.16	50.61	-0.07	-0.01
MEN-MW3s	4/16/2013	10:34	8.08	52.69	-0.05	-0.00
MEN-MW3s	5/28/2013	17:12	9.29	51.48	-0.11	-0.01
MEN-MW3s	6/17/2013	18:09	10.50	50.27	-0.13	-0.01
MEN-MW3s	7/15/2013	15:36	10.48	50.29	-0.24	-0.02
MEN-MW3s	8/22/2013	13:30	10.85	49.92	-0.25	-0.02
MEN-MW3s	9/9/2013	13:13	11.18	49.59	-0.14	-0.01
MEN-MW3s	10/7/2013	13:08	9.16	51.61	-0.72	-0.06
MEN-MW3s	11/12/2013	16:48	9.54	51.23	-0.06	-0.00
MEN-MW3s	12/17/2013	12:34	9.77	51.00	<|0.05|	0
MEN-MW3s	1/13/2014	12:10	10.08	50.69	<|0.05|	0
MEN-MW3s	2/18/2014	12:41	10.31	50.46	-0.15	-0.01
MEN-MW3s	3/16/2014	12:27	9.59	51.18	-0.49	-0.04
MEN-MW3s	4/20/2014	10:39	10.84	49.93	-0.08	-0.01
MEN-MW3s	5/20/2014	13:00	10.23	50.54	-0.20	-0.02
MEN-MW3s	6/19/2014	11:41	10.30	50.47	-0.40	-0.03
MEN-MW3s	7/17/2014	17:19	11.02	49.75	-0.17	-0.01
MEN-MW3s	8/19/2014	18:00	9.86	50.91	-0.23	-0.02
MEN-MW3s	9/19/2014	17:22	9.55	51.22	-0.12	-0.01
MEN-MW3s	10/14/2014	12:57	10.37	50.40	-0.09	-0.01
MEN-MW3s	11/6/2014	7:56	10.36	50.41	-0.06	-0.00
MEN-MW3s	12/14/2014	13:48	7.23	53.54	-0.42	-0.03
MEN-MW3s	1/12/2015	14:59	8.11	52.66	-0.11	-0.01
MEN-MW3s	2/5/2015	14:08	8.90	51.87	-0.25	-0.02
MEN-MW3s	3/13/2015	12:57	9.98	50.79	-0.07	-0.01
MEN-MW3s	4/17/2015	11:10	10.40	50.37	-0.10	-0.01
MEN-MW3s	5/12/2015	12:16	11.02	49.75	-0.13	-0.01
MEN-MW3s	6/4/2015	17:54	10.88	49.89	-0.20	-0.02
MEN-MW3s	7/13/2015	14:35	11.65	49.12	-0.42	-0.03
MEN-MW3s	8/21/2015	10:12	11.72	49.05	-0.32	-0.02
MEN-MW3s	9/14/2015	10:41	11.75	49.02	-0.16	-0.01
MEN-MW3s	10/16/2015	10:48	12.19	48.58	-0.15	-0.01
MEN-MW3s	11/12/2015	7:51	11.67	49.10	-0.08	-0.01
MEN-MW3s	12/26/2015	11:15	11.44	49.33	-0.06	-0.00
MEN-MW3s	1/15/2016	13:34	11.38	49.39	-0.08	-0.01
MEN-MW3s	2/17/2016	17:09	10.46	50.31	-0.11	-0.01
MEN-MW3s	3/18/2016	10:50	10.85	49.92	-0.17	-0.01
MEN-MW3s	4/18/2016	12:52	10.40	50.37	-0.26	-0.02
MEN-MW3s	5/17/2016	16:01	8.88	51.89	-0.08	-0.01
MEN-MW3s	6/17/2016	16:04	10.26	50.51	-0.33	-0.03
MEN-MW3s	7/21/2016	12:26	10.20	50.57	-0.13	-0.01
MEN-MW3s	8/16/2016	15:20	10.11	50.66	-0.15	-0.01
MEN-MW3s	9/15/2016	12:28	10.05	50.72	-0.09	-0.01
MEN-MW3s	10/14/2016	12:40	9.92	50.85	-0.09	-0.01
MEN-MW3s	11/29/2016	14:29	9.30	51.47	-0.07	-0.01
MEN-MW3s	12/12/2016	12:35	9.48	51.29	<|0.05|	0
MEN-MW3s	1/25/2017	11:54	6.70	54.07	0.81	0.06
MEN-MW3s	2/1/2017		N/M			
MEN-MW3s	3/14/2017	12:34	7.79	52.98	-0.06	-0.00
MEN-MW3s	4/20/2017	12:08	6.53	54.24	-0.06	-0.00
MEN-MW3s	5/17/2017	12:51	7.13	53.64	-0.10	-0.01
MEN-MW3s	6/24/2017	12:20	8.48	52.29	-0.13	-0.01
MEN-MW3s	7/14/2017	12:15	8.19	52.58	-0.23	-0.02
MEN-MW3s	8/25/2017	14:44	8.27	52.50	-0.12	-0.01
MEN-MW3s	9/22/2017	12:51	8.67	52.10	-0.15	-0.01
MEN-MW3s	10/19/2017	12:47	8.85	51.92	-0.08	-0.01
MEN-MW3s	11/20/2017	9:31	9.62	51.15	-0.08	-0.01
MEN-MW3s	12/21/2017	13:21	10.08	50.69	-0.10	-0.01

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MEN-MW3s	1/23/2018	12:45	9.09	51.68	-0.14	-0.01
MEN-MW3s	2/20/2018	12:48	10.25	50.52	-0.21	-0.02
MEN-MW3s	3/1/2018		N/M			
MEN-MW3s	4/24/2018	10:55	10.01	50.76	-0.13	-0.01
MEN-MW3s	5/8/2018	16:37	8.77	52.00	-0.17	-0.01
MEN-MW3s	6/13/2018	13:15	10.21	50.56	-0.09	-0.01
MEN-MW3s	7/16/2018	11:14	9.24	51.53	-0.12	-0.01
MEN-MW3s	8/20/2018	13:08	8.43	52.34	-0.38	-0.03
MEN-MW3s	9/16/2018	14:30	9.09	51.68	-0.14	-0.01
MEN-MW3s	10/25/2018	12:22	10.16	50.61	-0.19	-0.01
MEN-MW3s	11/12/2018	9:24	10.04	50.73	-0.06	-0.00
MEN-MW3s	12/15/2018	10:48	9.17	51.60	-0.09	-0.01
MEN-MW3s	1/25/2019	12:10	8.16	52.61	-0.15	-0.01
MEN-MW3s	2/20/2019	12:32	6.93	53.84	-0.15	-0.01
MEN-MW3s	3/16/2019	13:59	7.80	52.97	-0.09	-0.01
MEN-MW3s	4/16/2019	13:15	7.08	53.69	-0.10	-0.01
MEN-MW3s	5/22/2019	9:23	7.15	53.62	-0.11	-0.01
MEN-MW3s	6/20/2019	13:07	8.90	51.87	-0.10	-0.01
MEN-MW3s	7/17/2019	13:15	8.39	52.38	-0.11	-0.01
MEN-MW3s	8/14/2019	12:39	8.37	52.40	-0.12	-0.01
MEN-MW3s	9/27/2019	13:26	8.64	52.13	-0.07	-0.01
MEN-MW3s	10/28/2019	15:03	8.03	52.74	-0.19	-0.01
MEN-MW3s	11/12/2019	14:06	8.97	51.80	-0.09	-0.01
MEN-MW3s	12/14/2019	10:30	7.43	53.34	-0.12	-0.01
MEN-MW3d	1/29/2012	9:15	8.52	52.15		
MEN-MW3d	2/7/2012	16:06	6.65	54.02		
MEN-MW3d	3/5/2012	15:48	8.05	52.62		
MEN-MW3d	4/5/2012	13:59	7.77	52.90		
MEN-MW3d	5/8/2012	17:33	7.58	53.09		
MEN-MW3d	6/18/2012	9:54	9.03	51.64		
MEN-MW3d	7/9/2012	10:06	8.04	52.63		
MEN-MW3d	8/14/2012	8:27	8.25	52.42		
MEN-MW3d	9/17/2012	11:16	8.78	51.89		
MEN-MW3d	10/19/2012	10:40	8.19	52.48		
MEN-MW3d	12/6/2012	10:16	9.04	51.63		
MEN-MW3d	12/28/2012	10:25	7.53	53.14		
MEN-MW3d	1/15/2013	14:34	6.89	53.78		
MEN-MW3d	2/16/2013	15:04	8.65	52.02		
MEN-MW3d	3/18/2013	17:05	9.99	50.68		
MEN-MW3d	4/16/2013	10:34	7.93	52.74		
MEN-MW3d	5/28/2013	17:12	9.08	51.59		
MEN-MW3d	6/17/2013	18:09	10.27	50.40		
MEN-MW3d	7/15/2013	15:36	10.14	50.53		
MEN-MW3d	8/22/2013	13:30	10.50	50.17		
MEN-MW3d	9/9/2013	13:13	10.94	49.73		
MEN-MW3d	10/7/2013	13:08	8.34	52.33		
MEN-MW3d	11/12/2013	16:48	9.38	51.29		
MEN-MW3d	12/17/2013	12:34	9.63	51.04		
MEN-MW3d	1/13/2014	12:10	10.00	50.67		
MEN-MW3d	2/18/2014	12:41	10.06	50.61		
MEN-MW3d	3/16/2014	12:27	9.00	51.67		
MEN-MW3d	4/20/2014	10:39	10.66	50.01		
MEN-MW3d	5/20/2014	13:00	9.93	50.74		
MEN-MW3d	6/19/2014	11:41	9.80	50.87		
MEN-MW3d	7/17/2014	17:19	10.75	49.92		
MEN-MW3d	8/19/2014	18:00	9.53	51.14		
MEN-MW3d	9/19/2014	17:22	9.33	51.34		
MEN-MW3d	10/14/2014	12:57	10.18	50.49		
MEN-MW3d	11/6/2014	7:56	10.20	50.47		
MEN-MW3d	12/14/2014	13:48	6.71	53.96		
MEN-MW3d	1/12/2015	14:59	7.90	52.77		
MEN-MW3d	2/5/2015	14:08	8.55	52.12		
MEN-MW3d	3/13/2015	12:57	9.81	50.86		
MEN-MW3d	4/17/2015	11:10	10.20	50.47		
MEN-MW3d	5/12/2015	12:16	10.79	49.88		
MEN-MW3d	6/4/2015	17:54	10.58	50.09		
MEN-MW3d	7/13/2015	14:35	11.13	49.54		
MEN-MW3d	8/21/2015	10:13	11.30	49.37		
MEN-MW3d	9/14/2015	10:42	11.49	49.18		
MEN-MW3d	10/16/2015	10:49	11.94	48.73		
MEN-MW3d	11/12/2015	7:52	11.49	49.18		
MEN-MW3d	12/26/2015	11:16	11.28	49.39		
MEN-MW3d	1/15/2016	13:35	11.20	49.47		
MEN-MW3d	2/17/2016	17:10	10.25	50.42		
MEN-MW3d	3/18/2016	10:50	10.58	50.09		
MEN-MW3d	4/18/2016	12:52	10.04	50.63		
MEN-MW3d	5/17/2016	16:01	8.70	51.97		
MEN-MW3d	6/17/2016	16:05	9.83	50.84		
MEN-MW3d	7/21/2016	12:26	9.97	50.70		
MEN-MW3d	8/16/2016	15:20	9.86	50.81		
MEN-MW3d	9/15/2016	12:29	9.86	50.81		
MEN-MW3d	10/14/2016	12:40	9.73	50.94		
MEN-MW3d	11/29/2016	14:29	9.13	51.54		
MEN-MW3d	12/12/2016	12:36	9.34	51.33		
MEN-MW3d	1/25/2017	11:55	7.41	53.26		
MEN-MW3d	2/1/2017		N/M			
MEN-MW3d	3/14/2017	12:34	7.63	53.04		
MEN-MW3d	4/20/2017	12:09	6.37	54.30		
MEN-MW3d	5/17/2017	12:52	6.93	53.74		
MEN-MW3d	6/24/2017	12:21	8.25	52.42		
MEN-MW3d	7/14/2017	12:16	7.86	52.81		
MEN-MW3d	8/25/2017	14:45	8.05	52.62		
MEN-MW3d	9/22/2017	12:50	8.42	52.25		
MEN-MW3d	10/19/2017	12:48	8.67	52.00		
MEN-MW3d	11/20/2017	9:31	9.44	51.23		
MEN-MW3d	12/21/2017	13:22	9.88	50.79		
MEN-MW3d	1/23/2018	12:46	8.85	51.82		
MEN-MW3d	2/20/2018	12:49	9.94	50.73		
MEN-MW3d	3/1/2018		N/M			
MEN-MW3d	4/24/2018	10:55	9.78	50.89		
MEN-MW3d	5/8/2018	16:38	8.50	52.17		
MEN-MW3d	6/13/2018	13:16	10.02	50.65		
MEN-MW3d	7/16/2018	11:15	9.02	51.65		
MEN-MW3d	8/20/2018	13:08	7.95	52.72		
MEN-MW3d	9/16/2018	14:30	8.85	51.82		
MEN-MW3d	10/25/2018	12:23	9.87	50.80		
MEN-MW3d	11/12/2018	9:25	9.88	50.79		
MEN-MW3d	12/15/2018	10:49	8.98	51.69		
MEN-MW3d	1/25/2019	12:11	7.91	52.76		
MEN-MW3d	2/20/2019	12:33	6.68	53.99		
MEN-MW3d	3/16/2019	13:59	7.61	53.06		
MEN-MW3d	4/16/2019	13:15	6.88	53.79		
MEN-MW3d	5/22/2019	9:23	6.94	53.73		
MEN-MW3d	6/20/2019	13:08	8.70	51.97		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MEN-MW3d	7/17/2019	13:15	8.18	52.49		
MEN-MW3d	8/14/2019	12:39	8.15	52.52		
MEN-MW3d	9/27/2019	13:26	8.47	52.20		
MEN-MW3d	10/28/2019	15:04	7.74	52.93		
MEN-MW3d	11/12/2019	14:07	8.78	51.89		
MEN-MW3d	12/14/2019	10:31	7.21	53.46		
MEN-MW4s	1/29/2012	9:20	8.02	52.42	-0.07	-0.01
MEN-MW4s	2/7/2012	15:47	6.32	54.12	<|0.05|	0
MEN-MW4s	3/5/2012	15:50	7.80	52.64	<|0.05|	0
MEN-MW4s	4/5/2012	13:53	7.44	53.00	<|0.05|	0
MEN-MW4s	5/8/2012	17:49	7.63	52.81	-0.07	-0.01
MEN-MW4s	6/18/2012	9:58	8.73	51.71	<|0.05|	0
MEN-MW4s	7/9/2012	10:11	7.71	52.73	<|0.05|	0
MEN-MW4s	8/14/2012	8:23	7.67	52.77	<|0.05|	0
MEN-MW4s	9/17/2012	11:18	8.50	51.94	<|0.05|	0
MEN-MW4s	10/19/2012	10:43	7.81	52.63	-0.06	-0.00
MEN-MW4s	12/6/2012	10:12	8.87	51.57	<|0.05|	0
MEN-MW4s	12/28/2012	10:28	7.46	52.98	<|0.05|	0
MEN-MW4s	1/15/2013	14:29	6.64	53.80	<|0.05|	0
MEN-MW4s	2/16/2013	15:02	8.40	52.04	<|0.05|	0
MEN-MW4s	3/18/2013	17:08	9.68	50.76	<|0.05|	0
MEN-MW4s	4/16/2013	10:32	7.54	52.90	<|0.05|	0
MEN-MW4s	5/28/2013	17:10	8.80	51.64	<|0.05|	0
MEN-MW4s	6/17/2013	18:11	10.01	50.43	-0.06	-0.00
MEN-MW4s	7/15/2013	15:33	9.81	50.63	<|0.05|	0
MEN-MW4s	8/22/2013	13:33	10.29	50.15	-0.06	-0.00
MEN-MW4s	9/9/2013	13:11	10.65	49.79	<|0.05|	0
MEN-MW4s	10/7/2013	13:10	8.61	51.83	<|0.05|	0
MEN-MW4s	11/12/2013	16:45	9.04	51.40	<|0.05|	0
MEN-MW4s	12/17/2013	12:31	9.40	51.04	<|0.05|	0
MEN-MW4s	1/13/2014	12:12	9.75	50.69	<|0.05|	0
MEN-MW4s	2/18/2014	12:39	9.82	50.62	-0.06	-0.00
MEN-MW4s	3/16/2014	12:24	8.94	51.50	<|0.05|	0
MEN-MW4s	4/20/2014	10:37	10.36	50.08	<|0.05|	0
MEN-MW4s	5/20/2014	12:58	9.53	50.91	<|0.05|	0
MEN-MW4s	6/19/2014	11:44	9.65	50.79	<|0.05|	0
MEN-MW4s	7/17/2014	17:17	10.41	50.03	<|0.05|	0
MEN-MW4s	8/19/2014	17:57	9.25	51.19	<|0.05|	0
MEN-MW4s	9/19/2014	17:20	9.03	51.41	<|0.05|	0
MEN-MW4s	10/14/2014	12:59	9.96	50.48	<|0.05|	0
MEN-MW4s	11/6/2014	7:54	10.00	50.44	<|0.05|	0
MEN-MW4s	12/14/2014	13:51	6.50	53.94	<|0.05|	0
MEN-MW4s	1/12/2015	14:56	7.69	52.75	<|0.05|	0
MEN-MW4s	2/5/2015	14:06	8.53	51.91	<|0.05|	0
MEN-MW4s	3/13/2015	12:55	9.59	50.85	<|0.05|	0
MEN-MW4s	4/17/2015	10:50	9.85	50.59	0.06	0.00
MEN-MW4s	5/12/2015	12:14	10.22	50.22	<|0.05|	0
MEN-MW4s	6/4/2015	17:56	10.32	50.12	<|0.05|	0
MEN-MW4s	7/13/2015	14:32	10.82	49.62	<|0.05|	0
MEN-MW4s	8/21/2015	10:14	11.05	49.39	<|0.05|	0
MEN-MW4s	9/14/2015	10:37	11.09	49.35	<|0.05|	0
MEN-MW4s	10/16/2015	10:45	11.39	49.05	<|0.05|	0
MEN-MW4s	11/12/2015	7:49	11.00	49.44	<|0.05|	0
MEN-MW4s	12/26/2015	11:18	11.30	49.14	-0.33	-0.03
MEN-MW4s	1/15/2016	13:31	10.86	49.58	-0.05	-0.00
MEN-MW4s	2/17/2016	17:07	9.87	50.57	<|0.05|	0
MEN-MW4s	3/18/2016	10:47	10.35	50.09	<|0.05|	0
MEN-MW4s	4/18/2016	12:50	9.64	50.80	<|0.05|	0
MEN-MW4s	5/17/2016	16:03	8.20	52.24	<|0.05|	0
MEN-MW4s	6/17/2016	16:06	9.80	50.64	<|0.05|	0
MEN-MW4s	7/21/2016	12:20	9.59	50.85	<|0.05|	0
MEN-MW4s	8/16/2016	15:17	9.55	50.89	<|0.05|	0
MEN-MW4s	9/15/2016	12:30	9.46	50.98	<|0.05|	0
MEN-MW4s	10/14/2016	12:43	9.31	51.13	<|0.05|	0
MEN-MW4s	11/29/2016	14:26	8.78	51.66	<|0.05|	0
MEN-MW4s	12/12/2016	12:38	9.08	51.36	<|0.05|	0
MEN-MW4s	1/25/2017	11:56	7.11	53.33	<|0.05|	0
MEN-MW4s	2/1/2017		N/M			
MEN-MW4s	3/14/2017	12:32	7.25	53.19	<|0.05|	0
MEN-MW4s	4/20/2017	12:10	6.09	54.35	<|0.05|	0
MEN-MW4s	5/17/2017	12:49	6.50	53.94	<|0.05|	0
MEN-MW4s	6/24/2017	12:18	7.82	52.62	<|0.05|	0
MEN-MW4s	7/14/2017	12:17	7.80	52.64	<|0.05|	0
MEN-MW4s	8/25/2017	14:46	7.67	52.77	<|0.05|	0
MEN-MW4s	9/22/2017	12:52	8.01	52.43	<|0.05|	0
MEN-MW4s	10/19/2017	12:49	8.21	52.23	<|0.05|	0
MEN-MW4s	11/20/2017	9:24	9.13	51.31	<|0.05|	0
MEN-MW4s	12/21/2017	13:19	9.54	50.90	<|0.05|	0
MEN-MW4s	1/23/2018	12:47	8.50	51.94	<|0.05|	0
MEN-MW4s	2/20/2018	12:50	9.67	50.77	<|0.05|	0
MEN-MW4s	3/1/2018		N/M			
MEN-MW4s	4/24/2018	10:52	9.44	51.00	<|0.05|	0
MEN-MW4s	5/8/2018	16:39	8.02	52.42	<|0.05|	0
MEN-MW4s	6/13/2018	13:17	9.73	50.71	<|0.05|	0
MEN-MW4s	7/16/2018	11:16	8.72	51.72	<|0.05|	0
MEN-MW4s	8/20/2018	13:05	7.87	52.57	<|0.05|	0
MEN-MW4s	9/16/2018	14:33	8.50	51.94	<|0.05|	0
MEN-MW4s	10/25/2018	12:24	9.56	50.88	<|0.05|	0
MEN-MW4s	11/12/2018	9:26	9.57	50.87	<|0.05|	0
MEN-MW4s	12/15/2018	10:50	8.73	51.71	<|0.05|	0
MEN-MW4s	1/25/2019	12:12	7.66	52.78	<|0.05|	0
MEN-MW4s	2/20/2019	12:30	6.33	54.11	<|0.05|	0
MEN-MW4s	3/16/2019	13:57	7.39	53.05	<|0.05|	0
MEN-MW4s	4/16/2019	13:17	6.47	53.97	<|0.05|	0
MEN-MW4s	5/22/2019	9:21	6.69	53.75	<|0.05|	0
MEN-MW4s	6/20/2019	13:09	8.41	52.03	<|0.05|	0
MEN-MW4s	7/17/2019	13:12	7.90	52.54	<|0.05|	0
MEN-MW4s	8/14/2019	12:36	7.87	52.57	<|0.05|	0
MEN-MW4s	9/27/2019	13:29	8.12	52.32	<|0.05|	0
MEN-MW4s	10/28/2019	15:07	7.47	52.97	<|0.05|	0
MEN-MW4s	11/12/2019	14:08	8.52	51.92	<|0.05|	0
MEN-MW4s	12/14/2019	10:35	6.82	53.62	<|0.05|	0
MEN-MW4d	1/29/2012	9:21	7.84	52.49		
MEN-MW4d	2/7/2012	15:48	6.20	54.13		
MEN-MW4d	3/5/2012	15:52	7.67	52.66		
MEN-MW4d	4/5/2012	13:54	7.31	53.02		
MEN-MW4d	5/8/2012	17:50	7.45	52.88		
MEN-MW4d	6/18/2012	9:57	8.60	51.73		
MEN-MW4d	7/9/2012	10:11	7.60	52.73		
MEN-MW4d	8/14/2012	8:24	7.57	52.76		
MEN-MW4d	9/17/2012	11:18	8.40	51.93		
MEN-MW4d	10/19/2012	10:43	7.64	52.69		
MEN-MW4d	12/6/2012	10:12	8.75	51.58		
MEN-MW4d	12/28/2012	10:29	7.35	52.98		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MEN-MW4d	1/15/2013	14:30	6.52	53.81		
MEN-MW4d	2/16/2013	15:02	8.29	52.04		
MEN-MW4d	3/18/2013	17:09	9.59	50.74		
MEN-MW4d	4/16/2013	10:32	7.41	52.92		
MEN-MW4d	5/28/2013	17:10	8.69	51.64		
MEN-MW4d	6/17/2013	18:11	9.84	50.49		
MEN-MW4d	7/15/2013	15:33	9.69	50.64		
MEN-MW4d	8/22/2013	13:33	10.12	50.21		
MEN-MW4d	9/9/2013	13:11	10.53	49.80		
MEN-MW4d	10/7/2013	13:10	8.48	51.85		
MEN-MW4d	11/12/2013	16:45	8.96	51.37		
MEN-MW4d	12/17/2013	12:31	9.28	51.05		
MEN-MW4d	1/13/2014	12:12	9.65	50.68		
MEN-MW4d	2/18/2014	12:39	9.65	50.68		
MEN-MW4d	3/16/2014	12:24	8.83	51.50		
MEN-MW4d	4/20/2014	10:37	10.22	50.11		
MEN-MW4d	5/20/2014	12:58	9.40	50.93		
MEN-MW4d	6/19/2014	11:44	9.55	50.78		
MEN-MW4d	7/17/2014	17:17	10.30	50.03		
MEN-MW4d	8/19/2014	17:57	9.15	51.18		
MEN-MW4d	9/19/2014	17:20	8.95	51.38		
MEN-MW4d	10/14/2014	12:59	9.83	50.50		
MEN-MW4d	11/6/2014	7:54	9.85	50.48		
MEN-MW4d	12/14/2014	13:51	6.38	53.95		
MEN-MW4d	1/12/2015	14:56	7.56	52.77		
MEN-MW4d	2/5/2015	14:06	8.39	51.94		
MEN-MW4d	3/13/2015	12:55	9.50	50.83		
MEN-MW4d	4/17/2015	10:50	9.80	50.53		
MEN-MW4d	5/12/2015	12:14	10.12	50.21		
MEN-MW4d	6/4/2015	17:56	10.20	50.13		
MEN-MW4d	7/13/2015	14:32	10.74	49.59		
MEN-MW4d	8/21/2015	10:15	10.96	49.37		
MEN-MW4d	9/14/2015	10:38	11.00	49.33		
MEN-MW4d	10/16/2015	10:46	11.29	49.04		
MEN-MW4d	11/12/2015	7:50	10.87	49.46		
MEN-MW4d	12/26/2015	11:19	10.86	49.47		
MEN-MW4d	1/15/2016	13:32	10.70	49.63		
MEN-MW4d	2/17/2016	17:08	9.78	50.55		
MEN-MW4d	3/18/2016	10:48	10.25	50.08		
MEN-MW4d	4/18/2016	12:50	9.51	50.82		
MEN-MW4d	5/17/2016	16:03	8.11	52.22		
MEN-MW4d	6/17/2016	16:07	9.66	50.67		
MEN-MW4d	7/21/2016	12:20	9.49	50.84		
MEN-MW4d	8/16/2016	15:17	9.44	50.89		
MEN-MW4d	9/15/2016	12:31	9.35	50.98		
MEN-MW4d	10/14/2016	12:43	9.18	51.15		
MEN-MW4d	11/29/2016	14:26	8.64	51.69		
MEN-MW4d	12/12/2016	12:39	8.93	51.40		
MEN-MW4d	1/25/2017	11:57	7.02	53.31		
MEN-MW4d	2/1/2017		N/M			
MEN-MW4d	3/14/2017	12:33	7.14	53.19		
MEN-MW4d	4/20/2017	12:11	6.00	54.33		
MEN-MW4d	5/17/2017	12:50	6.38	53.95		
MEN-MW4d	6/24/2017	12:19	7.71	52.62		
MEN-MW4d	7/14/2017	12:18	7.69	52.64		
MEN-MW4d	8/25/2017	14:46	7.57	52.76		
MEN-MW4d	9/22/2017	12:53	7.90	52.43		
MEN-MW4d	10/19/2017	12:50	8.11	52.22		
MEN-MW4d	11/20/2017	9:24	8.98	51.35		
MEN-MW4d	12/21/2017	13:20	9.45	50.88		
MEN-MW4d	1/23/2018	12:48	8.41	51.92		
MEN-MW4d	2/20/2018	12:51	9.56	50.77		
MEN-MW4d	3/1/2018		N/M			
MEN-MW4d	4/24/2018	10:52	9.35	50.98		
MEN-MW4d	5/8/2018	16:40	7.90	52.43		
MEN-MW4d	6/13/2018	13:18	9.61	50.72		
MEN-MW4d	7/16/2018	11:16	8.59	51.74		
MEN-MW4d	8/20/2018	13:05	7.76	52.57		
MEN-MW4d	9/16/2018	14:33	8.40	51.93		
MEN-MW4d	10/25/2018	12:25	9.47	50.86		
MEN-MW4d	11/12/2018	9:27	9.47	50.86		
MEN-MW4d	12/15/2018	10:51	8.61	51.72		
MEN-MW4d	1/25/2019	12:13	7.56	52.77		
MEN-MW4d	2/20/2019	12:31	6.24	54.09		
MEN-MW4d	3/16/2019	13:58	7.27	53.06		
MEN-MW4d	4/16/2019	13:17	6.38	53.95		
MEN-MW4d	5/22/2019	9:21	6.55	53.78		
MEN-MW4d	6/20/2019	13:10	8.30	52.03		
MEN-MW4d	7/17/2019	13:12	7.80	52.53		
MEN-MW4d	8/14/2019	12:36	7.77	52.56		
MEN-MW4d	9/27/2019	13:29	8.00	52.33		
MEN-MW4d	10/28/2019	15:08	7.41	52.92		
MEN-MW4d	11/12/2019	14:09	8.41	51.92		
MEN-MW4d	12/14/2019	10:36	6.72	53.61		
MEN-MW5s	1/29/2012	9:24	8.19	52.91	<|0.05|	0
MEN-MW5s	2/7/2012	15:26	7.72	53.38	<|0.05|	0
MEN-MW5s	3/5/2012	15:55	8.61	52.49	<|0.05|	0
MEN-MW5s	4/5/2012	14:02	8.47	52.63	<|0.05|	0
MEN-MW5s	5/8/2012	17:05	9.79	51.31	<|0.05|	0
MEN-MW5s	6/18/2012	10:01	9.75	51.35	<|0.05|	0
MEN-MW5s	7/9/2012	10:16	8.81	52.29	<|0.05|	0
MEN-MW5s	8/14/2012	8:18	9.10	52.00	<|0.05|	0
MEN-MW5s	9/17/2012	11:20	9.88	51.22	<|0.05|	0
MEN-MW5s	10/19/2012	10:47	9.65	51.45	<|0.05|	0
MEN-MW5s	12/6/2012	10:09	10.10	51.00	<|0.05|	0
MEN-MW5s	12/28/2012	10:19	9.12	51.98	<|0.05|	0
MEN-MW5s	1/15/2013	14:28	8.28	52.82	<|0.05|	0
MEN-MW5s	2/16/2013	15:10	10.02	51.08	<|0.05|	0
MEN-MW5s	3/18/2013	17:13	11.36	49.74	<|0.05|	0
MEN-MW5s	4/16/2013	10:28	8.93	52.17	<|0.05|	0
MEN-MW5s	5/28/2013	17:07	10.29	50.81	<|0.05|	0
MEN-MW5s	6/17/2013	18:15	11.56	49.54	<|0.05|	0
MEN-MW5s	7/15/2013	15:41	12.44	48.66	<|0.05|	0
MEN-MW5s	8/22/2013	13:39	13.20	47.90	<|0.05|	0
MEN-MW5s	9/9/2013	13:17	12.72	48.38	<|0.05|	0
MEN-MW5s	10/7/2013	13:04	12.04	49.06	<|0.05|	0
MEN-MW5s	11/12/2013	16:35	10.35	50.75	<|0.05|	0
MEN-MW5s	12/17/2013	12:28	10.13	50.97	<|0.05|	0
MEN-MW5s	1/13/2014	12:07	10.46	50.64	<|0.05|	0
MEN-MW5s	2/18/2014	12:33	11.58	49.52	<|0.05|	0
MEN-MW5s	3/16/2014	12:21	11.80	49.30	0.12	0.01
MEN-MW5s	4/20/2014	10:34	11.86	49.24	<|0.05|	0
MEN-MW5s	5/20/2014	12:55	11.86	49.24	<|0.05|	0
MEN-MW5s	6/19/2014	11:37	12.21	48.89	0.20	0.02

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MEN-MW5s	7/17/2014	17:22	12.37	48.73	<|0.05|	0
MEN-MW5s	8/19/2014	17:54	11.84	49.26	<|0.05|	0
MEN-MW5s	9/19/2014	17:16	11.01	50.09	<|0.05|	0
MEN-MW5s	10/14/2014	12:54	11.48	49.62	<|0.05|	0
MEN-MW5s	11/6/2014	7:51	11.10	50.00	<|0.05|	0
MEN-MW5s	12/14/2014	13:42	10.57	50.53	<|0.05|	0
MEN-MW5s	1/12/2015	14:53	9.41	51.69	<|0.05|	0
MEN-MW5s	2/5/2015	14:03	10.23	50.87	<|0.05|	0
MEN-MW5s	3/13/2015	12:51	11.08	50.02	0.17	0.01
MEN-MW5s	4/17/2015	10:47	12.00	49.10	<|0.05|	0
MEN-MW5s	5/12/2015	12:11	12.20	48.90	<|0.05|	0
MEN-MW5s	6/4/2015	18:00	13.03	48.07	<|0.05|	0
MEN-MW5s	7/13/2015	14:37	14.89	46.21	<|0.05|	0
MEN-MW5s	8/21/2015	9:58	14.64	46.46	<|0.05|	0
MEN-MW5s	9/14/2015	10:32	13.24	47.86	<|0.05|	0
MEN-MW5s	10/16/2015	10:41	13.68	47.42	<|0.05|	0
MEN-MW5s	11/12/2015	7:56	12.44	48.66	<|0.05|	0
MEN-MW5s	12/26/2015	11:02	11.99	49.11	<|0.05|	0
MEN-MW5s	1/15/2016	13:39	12.21	48.89	<|0.05|	0
MEN-MW5s	2/17/2016	17:14	11.88	49.22	<|0.05|	0
MEN-MW5s	3/18/2016	12:16	12.95	48.15	<|0.05|	0
MEN-MW5s	4/18/2016	12:45	12.33	48.77	<|0.05|	0
MEN-MW5s	5/17/2016	16:07	10.91	50.19	<|0.05|	0
MEN-MW5s	6/17/2016	16:00	11.40	49.70	<|0.05|	0
MEN-MW5s	7/21/2016	12:16	11.28	49.82	<|0.05|	0
MEN-MW5s	8/16/2016	15:14	10.90	50.20	<|0.05|	0
MEN-MW5s	9/15/2016	12:25	10.33	50.77	<|0.05|	0
MEN-MW5s	10/14/2016	12:23	10.35	50.75	<|0.05|	0
MEN-MW5s	11/29/2016	14:22	9.72	51.38	<|0.05|	0
MEN-MW5s	12/12/2016	12:41	9.86	51.24	0.06	0.00
MEN-MW5s	1/25/2017	12:10	9.96	51.14	<|0.05|	0
MEN-MW5s	2/1/2017		N/M			
MEN-MW5s	3/14/2017	12:36	8.85	52.25	<|0.05|	0
MEN-MW5s	4/20/2017	12:13	7.42	53.68	<|0.05|	0
MEN-MW5s	5/17/2017	12:46	8.19	52.91	<|0.05|	0
MEN-MW5s	6/24/2017	12:15	9.39	51.71	<|0.05|	0
MEN-MW5s	7/14/2017	12:30	9.81	51.29	<|0.05|	0
MEN-MW5s	8/25/2017	14:41	9.76	51.34	<|0.05|	0
MEN-MW5s	9/22/2017	12:55	9.98	51.12	<|0.05|	0
MEN-MW5s	10/19/2017	12:45	9.80	51.30	<|0.05|	0
MEN-MW5s	11/20/2017	9:18	10.27	50.83	<|0.05|	0
MEN-MW5s	12/21/2017	13:15	10.70	50.40	<|0.05|	0
MEN-MW5s	1/23/2018	12:41	11.11	49.99	<|0.05|	0
MEN-MW5s	2/20/2018	12:52	12.55	48.55	<|0.05|	0
MEN-MW5s	3/1/2018		N/M			
MEN-MW5s	4/24/2018	10:48	11.84	49.26	<|0.05|	0
MEN-MW5s	5/8/2018	16:41	10.73	50.37	<|0.05|	0
MEN-MW5s	6/13/2018	13:12	11.42	49.68	<|0.05|	0
MEN-MW5s	7/16/2018	11:09	9.70	51.40	-0.10	-0.01
MEN-MW5s	8/20/2018	13:01	10.23	50.87	<|0.05|	0
MEN-MW5s	9/16/2018	14:27	10.10	51.00	<|0.05|	0
MEN-MW5s	10/25/2018	12:19	11.44	49.66	<|0.05|	0
MEN-MW5s	11/12/2018	9:21	11.19	49.91	<|0.05|	0
MEN-MW5s	12/15/2018	10:45	10.28	50.82	<|0.05|	0
MEN-MW5s	1/25/2019	12:03	10.01	51.09	<|0.05|	0
MEN-MW5s	2/20/2019	12:28	9.14	51.96	<|0.05|	0
MEN-MW5s	3/16/2019	13:55	9.38	51.72	<|0.05|	0
MEN-MW5s	4/16/2019	13:20	8.75	52.35	<|0.05|	0
MEN-MW5s	5/22/2019	9:17	8.95	52.15	<|0.05|	0
MEN-MW5s	6/20/2019	13:04	9.91	51.19	<|0.05|	0
MEN-MW5s	7/17/2019	13:08	9.49	51.61	<|0.05|	0
MEN-MW5s	8/14/2019	12:31	9.71	51.39	<|0.05|	0
MEN-MW5s	9/27/2019	13:34	9.67	51.43	<|0.05|	0
MEN-MW5s	10/28/2019	15:17	10.42	50.68	<|0.05|	0
MEN-MW5s	11/12/2019	14:18	10.07	51.03	<|0.05|	0
MEN-MW5s	12/14/2019	10:33	9.07	52.03	<|0.05|	0
MEN-MW5d	1/29/2012	9:25	8.07	52.93		
MEN-MW5d	2/7/2012	15:27	7.64	53.36		
MEN-MW5d	3/5/2012	15:56	8.51	52.49		
MEN-MW5d	4/5/2012	14:03	8.35	52.65		
MEN-MW5d	5/8/2012	17:06	9.69	51.31		
MEN-MW5d	6/18/2012	10:00	9.65	51.35		
MEN-MW5d	7/9/2012	10:15	8.70	52.30		
MEN-MW5d	8/14/2012	8:19	9.00	52.00		
MEN-MW5d	9/17/2012	11:20	9.78	51.22		
MEN-MW5d	10/19/2012	10:47	9.56	51.44		
MEN-MW5d	12/6/2012	10:09	10.00	51.00		
MEN-MW5d	12/28/2012	10:20	9.02	51.98		
MEN-MW5d	1/15/2013	14:29	8.19	52.81		
MEN-MW5d	2/16/2013	15:10	9.93	51.07		
MEN-MW5d	3/18/2013	17:15	11.29	49.71		
MEN-MW5d	4/16/2013	10:28	8.80	52.20		
MEN-MW5d	5/28/2013	17:07	10.18	50.82		
MEN-MW5d	6/17/2013	18:15	11.50	49.50		
MEN-MW5d	7/15/2013	15:41	12.33	48.67		
MEN-MW5d	8/22/2013	13:39	13.15	47.85		
MEN-MW5d	9/9/2013	13:17	12.62	48.38		
MEN-MW5d	10/7/2013	13:04	11.94	49.06		
MEN-MW5d	11/12/2013	16:35	10.24	50.76		
MEN-MW5d	12/17/2013	12:28	10.00	51.00		
MEN-MW5d	1/13/2014	12:07	10.34	50.66		
MEN-MW5d	2/18/2014	12:33	11.49	49.51		
MEN-MW5d	3/16/2014	12:21	11.82	49.18		
MEN-MW5d	4/20/2014	10:34	11.78	49.22		
MEN-MW5d	5/20/2014	12:55	11.73	49.27		
MEN-MW5d	6/19/2014	11:37	12.31	48.69		
MEN-MW5d	7/17/2014	17:22	12.30	48.70		
MEN-MW5d	8/19/2014	17:54	11.75	49.25		
MEN-MW5d	9/19/2014	17:16	10.90	50.10		
MEN-MW5d	10/14/2014	12:54	11.40	49.60		
MEN-MW5d	11/6/2014	7:51	11.01	49.99		
MEN-MW5d	12/14/2014	13:42	10.45	50.55		
MEN-MW5d	1/12/2015	14:53	9.34	51.66		
MEN-MW5d	2/5/2015	14:03	10.16	50.84		
MEN-MW5d	3/13/2015	12:51	11.15	49.85		
MEN-MW5d	4/17/2015	10:47	11.93	49.07		
MEN-MW5d	5/12/2015	12:11	12.12	48.88		
MEN-MW5d	6/4/2015	18:00	12.97	48.03		
MEN-MW5d	7/13/2015	14:37	14.75	46.25		
MEN-MW5d	8/21/2015	9:59	14.55	46.45		
MEN-MW5d	9/14/2015	10:33	13.15	47.85		
MEN-MW5d	10/16/2015	10:42	13.59	47.41		
MEN-MW5d	11/12/2015	7:57	12.37	48.63		
MEN-MW5d	12/26/2015	11:03	11.89	49.11		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MEN-MW5d	1/15/2016	13:40	12.12	48.88		
MEN-MW5d	2/17/2016	17:15	11.79	49.21		
MEN-MW5d	3/18/2016	12:16	12.89	48.11		
MEN-MW5d	4/18/2016	12:45	12.23	48.77		
MEN-MW5d	5/17/2016	16:07	10.80	50.20		
MEN-MW5d	6/17/2016	15:59	11.30	49.70		
MEN-MW5d	7/21/2016	12:16	11.15	49.85		
MEN-MW5d	8/16/2016	15:14	10.79	50.21		
MEN-MW5d	9/15/2016	12:26	10.27	50.73		
MEN-MW5d	10/14/2016	12:23	10.28	50.72		
MEN-MW5d	11/29/2016	14:22	9.65	51.35		
MEN-MW5d	12/12/2016	12:42	9.82	51.18		
MEN-MW5d	1/25/2017	12:11	9.87	51.13		
MEN-MW5d	2/1/2017		N/M			
MEN-MW5d	3/14/2017	12:37	8.72	52.28		
MEN-MW5d	4/20/2017	12:14	7.31	53.69		
MEN-MW5d	5/17/2017	12:47	8.10	52.90		
MEN-MW5d	6/24/2017	12:16	9.29	51.71		
MEN-MW5d	7/14/2017	12:31	9.74	51.26		
MEN-MW5d	8/25/2017	14:42	9.67	51.33		
MEN-MW5d	9/22/2017	12:56	9.90	51.10		
MEN-MW5d	10/19/2017	12:44	9.75	51.25		
MEN-MW5d	11/20/2017	9:18	10.17	50.83		
MEN-MW5d	12/21/2017	13:16	10.62	50.38		
MEN-MW5d	1/23/2018	12:42	10.98	50.02		
MEN-MW5d	2/20/2018	12:53	12.45	48.55		
MEN-MW5d	3/1/2018		N/M			
MEN-MW5d	4/24/2018	10:48	11.73	49.27		
MEN-MW5d	5/8/2018	16:42	10.65	50.35		
MEN-MW5d	6/13/2018	13:13	11.31	49.69		
MEN-MW5d	7/16/2018	11:10	9.50	51.50		
MEN-MW5d	8/20/2018	13:01	10.12	50.88		
MEN-MW5d	9/16/2018	14:27	10.01	50.99		
MEN-MW5d	10/25/2018	12:20	11.34	49.66		
MEN-MW5d	11/12/2018	9:22	11.08	49.92		
MEN-MW5d	12/15/2018	10:46	10.18	50.82		
MEN-MW5d	1/25/2019	12:04	9.92	51.08		
MEN-MW5d	2/20/2019	12:28	9.03	51.97		
MEN-MW5d	3/16/2019	13:55	9.30	51.70		
MEN-MW5d	4/16/2019	13:20	8.68	52.32		
MEN-MW5d	5/22/2019	9:17	8.87	52.13		
MEN-MW5d	6/20/2019	13:05	9.79	51.21		
MEN-MW5d	7/17/2019	13:08	9.41	51.59		
MEN-MW5d	8/14/2019	12:31	9.64	51.36		
MEN-MW5d	9/27/2019	13:34	9.55	51.45		
MEN-MW5d	10/28/2019	15:18	10.34	50.66		
MEN-MW5d	11/12/2019	14:19	9.97	51.03		
MEN-MW5d	12/14/2019	10:34	8.97	52.03		
MEN-MW6s	1/29/2012	9:27	8.70	50.32	<|0.05|	0
MEN-MW6s	2/7/2012	16:50	5.79	53.23	<|0.05|	0
MEN-MW6s	3/5/2012	15:58	8.45	50.57	<|0.05|	0
MEN-MW6s	4/5/2012	13:28	7.77	51.25	<|0.05|	0
MEN-MW6s	5/8/2012	16:15	7.36	51.66	<|0.05|	0
MEN-MW6s	6/18/2012	10:08	5.44	53.58	-0.06	-0.00
MEN-MW6s	7/9/2012	10:29	4.83	54.19	<|0.05|	0
MEN-MW6s	8/14/2012	8:05	6.45	52.57	<|0.05|	0
MEN-MW6s	9/17/2012	11:27	7.19	51.83	<|0.05|	0
MEN-MW6s	10/19/2012	11:03	6.91	52.11	<|0.05|	0
MEN-MW6s	12/6/2012	9:58	8.70	50.32	<|0.05|	0
MEN-MW6s	12/28/2012	10:33	6.24	52.78	<|0.05|	0
MEN-MW6s	1/15/2013	14:18	6.11	52.91	<|0.05|	0
MEN-MW6s	2/16/2013	14:52	8.16	50.86	<|0.05|	0
MEN-MW6s	3/18/2013	17:31	8.12	50.90	<|0.05|	0
MEN-MW6s	4/16/2013	10:18	7.59	51.43	<|0.05|	0
MEN-MW6s	5/28/2013	16:57	7.81	51.21	<|0.05|	0
MEN-MW6s	6/17/2013	17:57	9.00	50.02	<|0.05|	0
MEN-MW6s	7/15/2013	15:21	8.00	51.02	<|0.05|	0
MEN-MW6s	8/22/2013	13:16	7.02	52.00	<|0.05|	0
MEN-MW6s	9/9/2013	12:58	7.84	51.18	<|0.05|	0
MEN-MW6s	10/7/2013	13:20	6.12	52.90	<|0.05|	0
MEN-MW6s	11/12/2013	16:59	8.67	50.35	<|0.05|	0
MEN-MW6s	12/17/2013	12:45	9.52	49.50	<|0.05|	0
MEN-MW6s	1/13/2014	12:21	9.92	49.10	<|0.05|	0
MEN-MW6s	2/18/2014	12:52	8.86	50.16	<|0.05|	0
MEN-MW6s	3/16/2014	12:40	7.49	51.53	<|0.05|	0
MEN-MW6s	4/20/2014	10:48	7.82	51.20	<|0.05|	0
MEN-MW6s	5/20/2014	13:09	7.02	52.00	<|0.05|	0
MEN-MW6s	6/19/2014	11:54	9.40	49.62	<|0.05|	0
MEN-MW6s	7/17/2014	17:35	7.83	51.19	<|0.05|	0
MEN-MW6s	8/19/2014	18:11	6.73	52.29	<|0.05|	0
MEN-MW6s	9/19/2014	17:33	7.18	51.84	<|0.05|	0
MEN-MW6s	10/14/2014	13:09	8.39	50.63	<|0.05|	0
MEN-MW6s	11/6/2014	8:11	9.40	49.62	<|0.05|	0
MEN-MW6s	12/14/2014	14:11	5.44	53.58	<|0.05|	0
MEN-MW6s	1/12/2015	15:09	7.22	51.80	<|0.05|	0
MEN-MW6s	2/5/2015	14:25	8.14	50.88	<|0.05|	0
MEN-MW6s	3/13/2015	13:08	8.12	50.90	<|0.05|	0
MEN-MW6s	4/17/2015	11:07	9.05	49.97	<|0.05|	0
MEN-MW6s	5/12/2015	12:25	9.17	49.85	<|0.05|	0
MEN-MW6s	6/4/2015	18:13	8.90	50.12	<|0.05|	0
MEN-MW6s	7/13/2015	14:27	8.37	50.65	<|0.05|	0
MEN-MW6s	8/21/2015	9:35	7.43	51.59	<|0.05|	0
MEN-MW6s	9/14/2015	10:18	9.00	50.02	<|0.05|	0
MEN-MW6s	10/16/2015	10:29	9.32	49.70	<|0.05|	0
MEN-MW6s	11/12/2015	7:36	10.09	48.93	<|0.05|	0
MEN-MW6s	12/26/2015	10:05	10.63	48.39	<|0.05|	0
MEN-MW6s	1/15/2016	13:20	10.73	48.29	<|0.05|	0
MEN-MW6s	2/17/2016	16:53	7.19	51.83	<|0.05|	0
MEN-MW6s	3/18/2016	12:35	7.29	51.73	<|0.05|	0
MEN-MW6s	4/18/2016	13:08	7.70	51.32	<|0.05|	0
MEN-MW6s	5/17/2016	16:28	7.94	51.08	<|0.05|	0
MEN-MW6s	6/17/2016	15:48	7.56	51.46	<|0.05|	0
MEN-MW6s	7/21/2016	12:37	7.94	51.08	<|0.05|	0
MEN-MW6s	8/16/2016	15:45	7.50	51.52	<|0.05|	0
MEN-MW6s	9/15/2016	12:15	7.69	51.33	<|0.05|	0
MEN-MW6s	10/14/2016	12:55	8.41	50.61	<|0.05|	0
MEN-MW6s	11/29/2016	14:47	9.12	49.90	<|0.05|	0
MEN-MW6s	12/12/2016	12:58	9.49	49.53	<|0.05|	0
MEN-MW6s	1/25/2017	12:23	5.56	53.46	-0.99	-0.06
MEN-MW6s	2/1/2017		N/M			
MEN-MW6s	3/14/2017	12:23	6.09	52.94	<|0.05|	0
MEN-MW6s	4/20/2017	12:25	5.37	53.65	<|0.05|	0
MEN-MW6s	5/17/2017	12:35	5.51	53.51	<|0.05|	0
MEN-MW6s	6/24/2017	12:04	6.55	52.47	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MEN-MW6s	7/14/2017	11:59	5.45	53.57	<|0.05|	0
MEN-MW6s	8/25/2017	15:00	6.11	52.91	<|0.05|	0
MEN-MW6s	9/22/2017	13:06	6.84	52.18	<|0.05|	0
MEN-MW6s	10/19/2017	12:36	7.52	51.50	<|0.05|	0
MEN-MW6s	11/20/2017	9:44	8.88	50.14	<|0.05|	0
MEN-MW6s	12/21/2017	13:03	9.49	49.53	<|0.05|	0
MEN-MW6s	1/23/2018	12:30	7.97	51.05	<|0.05|	0
MEN-MW6s	2/20/2018	13:10	8.36	50.66	<|0.05|	0
MEN-MW6s	3/1/2018		N/M			
MEN-MW6s	4/24/2018	11:06	7.70	51.32	<|0.05|	0
MEN-MW6s	5/8/2018	16:53	7.09	51.93	<|0.05|	0
MEN-MW6s	6/13/2018	13:01	8.18	50.84	<|0.05|	0
MEN-MW6s	7/16/2018	11:00	7.03	51.99	<|0.05|	0
MEN-MW6s	8/20/2018	13:31	6.09	52.93	0.10	0.01
MEN-MW6s	9/16/2018	14:16	7.06	51.96	<|0.05|	0
MEN-MW6s	10/25/2018	12:09	6.55	52.47	0.61	0.03
MEN-MW6s	11/12/2018	9:46	7.79	51.23	<|0.05|	0
MEN-MW6s	12/15/2018	10:36	7.86	51.16	<|0.05|	0
MEN-MW6s	1/25/2019	11:52	6.00	53.02	<|0.05|	0
MEN-MW6s	2/20/2019	12:47	4.51	54.51	<|0.05|	0
MEN-MW6s	3/16/2019	13:45	6.40	52.62	<|0.05|	0
MEN-MW6s	4/16/2019	13:30	5.52	53.50	<|0.05|	0
MEN-MW6s	5/22/2019	9:37	5.43	53.59	<|0.05|	0
MEN-MW6s	6/20/2019	12:52	7.20	51.82	<|0.05|	0
MEN-MW6s	7/17/2019	13:30	5.39	53.63	<|0.05|	0
MEN-MW6s	8/14/2019	12:57	6.47	52.55	<|0.05|	0
MEN-MW6s	9/27/2019	13:59	6.90	52.12	<|0.05|	0
MEN-MW6s	10/28/2019	15:39	6.23	52.79	<|0.05|	0
MEN-MW6s	11/12/2019	14:27	7.39	51.63	<|0.05|	0
MEN-MW6s	12/14/2019	10:18	5.54	53.48	<|0.05|	0
MEN-MW6d	1/29/2012	9:28	8.63	50.32		
MEN-MW6d	2/7/2012	16:51	5.70	53.25		
MEN-MW6d	3/5/2012	16:00	8.39	50.56		
MEN-MW6d	4/5/2012	13:29	7.71	51.24		
MEN-MW6d	5/8/2012	16:16	7.30	51.65		
MEN-MW6d	6/18/2012	10:07	5.31	53.64		
MEN-MW6d	7/9/2012	10:28	4.77	54.18		
MEN-MW6d	8/14/2012	8:06	6.33	52.62		
MEN-MW6d	9/17/2012	11:27	7.10	51.85		
MEN-MW6d	10/19/2012	11:03	6.84	52.11		
MEN-MW6d	12/6/2012	9:58	8.64	50.31		
MEN-MW6d	12/28/2012	10:34	6.19	52.76		
MEN-MW6d	1/15/2013	14:19	6.03	52.92		
MEN-MW6d	2/16/2013	14:52	8.09	50.86		
MEN-MW6d	3/18/2013	17:32	8.04	50.91		
MEN-MW6d	4/16/2013	10:18	7.51	51.44		
MEN-MW6d	5/28/2013	16:57	7.73	51.22		
MEN-MW6d	6/17/2013	17:57	8.92	50.03		
MEN-MW6d	7/15/2013	15:21	7.93	51.02		
MEN-MW6d	8/22/2013	13:16	6.94	52.01		
MEN-MW6d	9/9/2013	12:58	7.78	51.17		
MEN-MW6d	10/7/2013	13:20	6.01	52.94		
MEN-MW6d	11/12/2013	16:59	8.60	50.35		
MEN-MW6d	12/17/2013	12:45	9.43	49.52		
MEN-MW6d	1/13/2014	12:21	9.89	49.06		
MEN-MW6d	2/18/2014	12:52	8.79	50.16		
MEN-MW6d	3/16/2014	12:40	7.38	51.57		
MEN-MW6d	4/20/2014	10:48	7.74	51.21		
MEN-MW6d	5/20/2014	13:09	6.96	51.99		
MEN-MW6d	6/19/2014	11:54	9.34	49.61		
MEN-MW6d	7/17/2014	17:35	7.74	51.21		
MEN-MW6d	8/19/2014	18:11	6.62	52.33		
MEN-MW6d	9/19/2014	17:33	7.09	51.86		
MEN-MW6d	10/14/2014	13:09	8.29	50.66		
MEN-MW6d	11/6/2014	8:11	9.33	49.62		
MEN-MW6d	12/14/2014	14:11	5.36	53.59		
MEN-MW6d	1/12/2015	15:09	7.13	51.82		
MEN-MW6d	2/5/2015	14:25	8.08	50.87		
MEN-MW6d	3/13/2015	13:08	8.03	50.92		
MEN-MW6d	4/17/2015	11:07	8.95	50.00		
MEN-MW6d	5/12/2015	12:25	9.10	49.85		
MEN-MW6d	6/4/2015	18:13	8.83	50.12		
MEN-MW6d	7/13/2015	14:27	8.32	50.63		
MEN-MW6d	8/21/2015	9:36	7.35	51.60		
MEN-MW6d	9/14/2015	10:19	8.94	50.01		
MEN-MW6d	10/16/2015	10:30	9.25	49.70		
MEN-MW6d	11/12/2015	7:37	10.04	48.91		
MEN-MW6d	12/26/2015	10:51	10.56	48.39		
MEN-MW6d	1/15/2016	13:21	10.67	48.28		
MEN-MW6d	2/17/2016	16:54	7.10	51.85		
MEN-MW6d	3/18/2016	12:36	7.20	51.75		
MEN-MW6d	4/18/2016	13:08	7.61	51.34		
MEN-MW6d	5/17/2016	16:28	7.88	51.07		
MEN-MW6d	6/17/2016	15:49	7.49	51.46		
MEN-MW6d	7/21/2016	12:37	7.90	51.05		
MEN-MW6d	8/16/2016	15:45	7.43	51.52		
MEN-MW6d	9/15/2016	12:16	7.62	51.33		
MEN-MW6d	10/14/2016	12:55	8.33	50.62		
MEN-MW6d	11/29/2016	14:47	9.05	49.90		
MEN-MW6d	12/12/2016	12:59	9.39	49.56		
MEN-MW6d	1/25/2017	12:24	4.50	54.45		
MEN-MW6d	2/1/2017		N/M			
MEN-MW6d	3/14/2017	12:24	6.02	52.93		
MEN-MW6d	4/20/2017	12:26	5.28	53.67		
MEN-MW6d	5/17/2017	12:36	5.42	53.53		
MEN-MW6d	6/24/2017	12:05	6.48	52.47		
MEN-MW6d	7/14/2017	12:00	5.35	53.60		
MEN-MW6d	8/25/2017	15:01	6.01	52.94		
MEN-MW6d	9/22/2017	13:07	6.77	52.18		
MEN-MW6d	10/19/2017	12:35	7.42	51.53		
MEN-MW6d	11/20/2017	9:44	8.81	50.14		
MEN-MW6d	12/21/2017	13:04	9.40	49.55		
MEN-MW6d	1/23/2018	12:31	7.86	51.09		
MEN-MW6d	2/20/2018	13:11	8.28	50.67		
MEN-MW6d	3/1/2018		N/M			
MEN-MW6d	4/24/2018	11:07	7.63	51.32		
MEN-MW6d	5/8/2018	16:54	7.04	51.91		
MEN-MW6d	6/13/2018	13:02	8.10	50.85		
MEN-MW6d	7/16/2018	11:01	6.98	51.97		
MEN-MW6d	8/20/2018	13:31	6.12	52.83		
MEN-MW6d	9/16/2018	14:16	6.95	52.00		
MEN-MW6d	10/25/2018	12:10	7.09	51.86		
MEN-MW6d	11/12/2018	9:47	7.72	51.23		
MEN-MW6d	12/15/2018	10:37	7.80	51.15		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MEN-MW6d	1/25/2019	11:53	5.95	53.00		
MEN-MW6d	2/20/2019	12:48	4.42	54.53		
MEN-MW6d	3/16/2019	13:45	6.34	52.61		
MEN-MW6d	4/16/2019	13:30	5.48	53.47		
MEN-MW6d	5/22/2019	9:37	5.32	53.63		
MEN-MW6d	6/20/2019	12:53	7.13	51.82		
MEN-MW6d	7/17/2019	13:30	5.30	53.65		
MEN-MW6d	8/14/2019	12:57	6.39	52.56		
MEN-MW6d	9/27/2019	13:59	6.82	52.13		
MEN-MW6d	10/28/2019	15:40	6.17	52.78		
MEN-MW6d	11/12/2019	14:28	7.33	51.62		
MEN-MW6d	12/14/2019	10:19	5.52	53.43		
MEN-MW7s	1/29/2012	9:30	4.34	55.14	0.09	0.00
MEN-MW7s	2/7/2012	16:25	4.26	55.22	<|0.05|	0
MEN-MW7s	3/5/2012	16:03	6.38	53.10	<|0.05|	0
MEN-MW7s	4/5/2012	13:44	5.86	53.62	<|0.05|	0
MEN-MW7s	5/8/2012	16:43	3.09	56.39	<|0.05|	0
MEN-MW7s	6/18/2012	10:04	6.97	52.51	<|0.05|	0
MEN-MW7s	7/9/2012	10:23	6.02	53.46	<|0.05|	0
MEN-MW7s	8/14/2012	8:14	3.81	55.67	<|0.05|	0
MEN-MW7s	9/17/2012	11:23	6.12	53.36	<|0.05|	0
MEN-MW7s	10/19/2012	10:51	5.52	53.96	<|0.05|	0
MEN-MW7s	12/6/2012	10:01	6.96	52.52	<|0.05|	0
MEN-MW7s	12/28/2012	10:16	5.17	54.31	<|0.05|	0
MEN-MW7s	1/15/2013	14:24	4.91	54.57	<|0.05|	0
MEN-MW7s	2/16/2013	14:57	5.50	53.98	<|0.05|	0
MEN-MW7s	3/18/2013	17:20	6.38	53.10	1.24	0.07
MEN-MW7s	4/16/2013	10:24	5.84	53.64	<|0.05|	0
MEN-MW7s	5/28/2013	17:04	6.44	53.04	<|0.05|	0
MEN-MW7s	6/17/2013	18:04	7.64	51.84	0.09	0.00
MEN-MW7s	7/15/2013	15:28	6.30	53.18	<|0.05|	0
MEN-MW7s	8/22/2013	13:26	5.34	54.14	<|0.05|	0
MEN-MW7s	9/9/2013	13:07	7.31	52.17	<|0.05|	0
MEN-MW7s	10/7/2013	13:14	5.43	54.05	0.08	0.00
MEN-MW7s	11/12/2013	16:52	7.02	52.46	<|0.05|	0
MEN-MW7s	12/17/2013	12:38	7.90	51.58	<|0.05|	0
MEN-MW7s	1/13/2014	12:16	8.36	51.12	0.08	0.00
MEN-MW7s	2/18/2014	12:47	7.17	52.31	<|0.05|	0
MEN-MW7s	3/16/2014	12:33	4.74	54.74	<|0.05|	0
MEN-MW7s	4/20/2014	10:43	7.96	51.52	<|0.05|	0
MEN-MW7s	5/20/2014	13:04	5.69	53.79	<|0.05|	0
MEN-MW7s	6/19/2014	11:48	8.87	50.61	-0.97	-0.05
MEN-MW7s	7/17/2014	17:29	6.88	52.60	<|0.05|	0
MEN-MW7s	8/19/2014	18:05	6.23	53.25	<|0.05|	0
MEN-MW7s	9/19/2014	17:26	6.53	52.95	<|0.05|	0
MEN-MW7s	10/14/2014	13:02	7.51	51.97	<|0.05|	0
MEN-MW7s	11/6/2014	8:01	8.04	51.44	<|0.05|	0
MEN-MW7s	12/14/2014	14:22	3.52	55.96	<|0.05|	0
MEN-MW7s	1/12/2015	15:03	5.78	53.70	<|0.05|	0
MEN-MW7s	2/5/2015	14:13	6.84	52.64	<|0.05|	0
MEN-MW7s	3/13/2015	13:01	7.64	51.84	<|0.05|	0
MEN-MW7s	4/17/2015	10:59	7.93	51.55	<|0.05|	0
MEN-MW7s	5/12/2015	12:20	6.42	53.06	<|0.05|	0
MEN-MW7s	6/4/2015	18:03	7.54	51.94	<|0.05|	0
MEN-MW7s	7/13/2015	14:30	6.49	52.99	<|0.05|	0
MEN-MW7s	8/21/2015	9:52	6.24	53.24	<|0.05|	0
MEN-MW7s	9/14/2015	10:27	6.86	52.62	<|0.05|	0
MEN-MW7s	10/16/2015	10:37	7.13	52.35	<|0.05|	0
MEN-MW7s	11/12/2015	7:44	7.59	51.89	<|0.05|	0
MEN-MW7s	12/26/2015	10:57	8.81	50.67	<|0.05|	0
MEN-MW7s	1/15/2016	13:26	7.07	52.41	-0.07	-0.00
MEN-MW7s	2/17/2016	17:03	6.56	52.92	<|0.05|	0
MEN-MW7s	3/18/2016	12:42	6.61	52.87	-0.05	-0.00
MEN-MW7s	4/18/2016	12:56	7.06	52.42	<|0.05|	0
MEN-MW7s	5/17/2016	16:12	4.92	54.56	<|0.05|	0
MEN-MW7s	6/17/2016	15:56	7.42	52.06	<|0.05|	0
MEN-MW7s	7/21/2016	12:30	6.54	52.94	<|0.05|	0
MEN-MW7s	8/16/2016	15:27	6.52	52.96	<|0.05|	0
MEN-MW7s	9/15/2016	12:21	5.91	53.57	<|0.05|	0
MEN-MW7s	10/14/2016	12:48	4.84	54.64	<|0.05|	0
MEN-MW7s	11/29/2016	14:34	6.53	52.95	<|0.05|	0
MEN-MW7s	12/12/2016	12:46	7.05	52.43	<|0.05|	0
MEN-MW7s	1/25/2017	12:17	3.68	55.80	<|0.05|	0
MEN-MW7s	2/1/2017		N/M			
MEN-MW7s	3/14/2017	12:30	5.20	54.28	<|0.05|	0
MEN-MW7s	4/20/2017	12:19	4.87	54.61	<|0.05|	0
MEN-MW7s	5/17/2017	12:42	3.46	56.02	<|0.05|	0
MEN-MW7s	6/24/2017	12:12	4.94	54.54	-0.05	-0.00
MEN-MW7s	7/14/2017	11:52	6.09	53.39	<|0.05|	0
MEN-MW7s	8/25/2017	14:48	5.09	54.39	<|0.05|	0
MEN-MW7s	9/22/2017	12:51	5.43	54.05	<|0.05|	0
MEN-MW7s	10/19/2017	12:41	5.30	54.18	<|0.05|	0
MEN-MW7s	11/20/2017	9:37	7.02	52.46	<|0.05|	0
MEN-MW7s	12/21/2017	13:11	7.56	51.92	<|0.05|	0
MEN-MW7s	1/23/2018	12:38	5.79	53.69	<|0.05|	0
MEN-MW7s	2/20/2018	12:57	6.60	52.88	<|0.05|	0
MEN-MW7s	3/1/2018		N/M			
MEN-MW7s	4/24/2018	10:59	6.57	52.91	<|0.05|	0
MEN-MW7s	5/8/2018	16:46	5.25	54.23	<|0.05|	0
MEN-MW7s	6/13/2018	13:08	7.38	52.10	<|0.05|	0
MEN-MW7s	7/16/2018	11:06	6.20	53.28	<|0.05|	0
MEN-MW7s	8/20/2018	13:17	3.81	55.67	<|0.05|	0
MEN-MW7s	9/16/2018	14:23	6.02	53.46	<|0.05|	0
MEN-MW7s	10/25/2018	12:15	5.93	53.55	<|0.05|	0
MEN-MW7s	11/12/2018	9:32	6.86	52.62	<|0.05|	0
MEN-MW7s	12/15/2018	10:42	6.42	53.06	<|0.05|	0
MEN-MW7s	1/25/2019	12:00	5.16	54.32	<|0.05|	0
MEN-MW7s	2/20/2019	12:25	3.38	56.10	<|0.05|	0
MEN-MW7s	3/16/2019	13:50	5.45	54.03	<|0.05|	0
MEN-MW7s	4/16/2019	13:24	3.50	55.98	<|0.05|	0
MEN-MW7s	5/22/2019	9:26	4.74	54.74	<|0.05|	0
MEN-MW7s	6/20/2019	13:00	6.31	53.17	<|0.05|	0
MEN-MW7s	7/17/2019	13:23	5.11	54.37	<|0.05|	0
MEN-MW7s	8/14/2019	12:51	5.51	53.97	<|0.05|	0
MEN-MW7s	9/27/2019	13:46	5.83	53.65	<|0.05|	0
MEN-MW7s	10/28/2019	15:11	6.02	53.46	<|0.05|	0
MEN-MW7s	11/12/2019	14:13	6.56	52.92	<|0.05|	0
MEN-MW7s	12/14/2019	10:38	4.21	55.27	<|0.05|	0
MEN-MW7d	1/29/2012	9:32	4.32	55.05		
MEN-MW7d	2/7/2012	16:26	4.14	55.23		
MEN-MW7d	3/5/2012	16:05	6.26	53.11		
MEN-MW7d	4/5/2012	13:45	5.74	53.63		
MEN-MW7d	5/8/2012	16:45	2.96	56.41		
MEN-MW7d	6/18/2012	10:03	6.84	52.53		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MEN-MW7d	7/9/2012	10:22	5.88	53.49		
MEN-MW7d	8/14/2012	8:15	3.69	55.68		
MEN-MW7d	9/17/2012	11:23	5.97	53.40		
MEN-MW7d	10/19/2012	10:51	5.39	53.98		
MEN-MW7d	12/6/2012	10:01	6.82	52.55		
MEN-MW7d	12/28/2012	10:17	5.03	54.34		
MEN-MW7d	1/15/2013	14:25	4.77	54.60		
MEN-MW7d	2/16/2013	14:57	5.40	53.97		
MEN-MW7d	3/18/2013	17:21	7.51	51.86		
MEN-MW7d	4/16/2013	10:24	5.68	53.69		
MEN-MW7d	5/28/2013	17:04	6.33	53.04		
MEN-MW7d	6/17/2013	18:04	7.62	51.75		
MEN-MW7d	7/15/2013	15:28	6.17	53.20		
MEN-MW7d	8/22/2013	13:26	5.20	54.17		
MEN-MW7d	9/9/2013	13:07	7.18	52.19		
MEN-MW7d	10/7/2013	13:14	5.40	53.97		
MEN-MW7d	11/12/2013	16:52	6.91	52.46		
MEN-MW7d	12/17/2013	12:38	7.80	51.57		
MEN-MW7d	1/13/2014	12:16	8.33	51.04		
MEN-MW7d	2/18/2014	12:47	7.04	52.33		
MEN-MW7d	3/16/2014	12:33	4.60	54.77		
MEN-MW7d	4/20/2014	10:43	7.85	51.52		
MEN-MW7d	5/20/2014	13:04	5.54	53.83		
MEN-MW7d	6/19/2014	11:48	7.79	51.58		
MEN-MW7d	7/17/2014	17:29	6.80	52.57		
MEN-MW7d	8/19/2014	18:05	6.11	53.26		
MEN-MW7d	9/19/2014	17:26	6.40	52.97		
MEN-MW7d	10/14/2014	13:02	7.40	51.97		
MEN-MW7d	11/6/2014	8:01	7.93	51.44		
MEN-MW7d	12/14/2014	14:22	3.37	56.00		
MEN-MW7d	1/12/2015	15:03	5.69	53.68		
MEN-MW7d	2/5/2015	14:13	6.70	52.67		
MEN-MW7d	3/13/2015	13:01	7.54	51.83		
MEN-MW7d	4/17/2015	10:59	7.84	51.53		
MEN-MW7d	5/12/2015	12:20	6.35	53.02		
MEN-MW7d	6/4/2015	18:03	7.44	51.93		
MEN-MW7d	7/13/2015	14:30	6.35	53.02		
MEN-MW7d	8/21/2015	9:53	6.10	53.27		
MEN-MW7d	9/14/2015	10:28	6.76	52.61		
MEN-MW7d	10/16/2015	10:38	7.03	52.34		
MEN-MW7d	11/12/2015	7:45	7.50	51.87		
MEN-MW7d	12/26/2015	10:58	8.65	50.72		
MEN-MW7d	1/15/2016	13:27	6.89	52.48		
MEN-MW7d	2/17/2016	17:04	6.48	52.89		
MEN-MW7d	3/18/2016	12:42	6.45	52.92		
MEN-MW7d	4/18/2016	12:56	6.92	52.45		
MEN-MW7d	5/17/2016	16:12	4.80	54.57		
MEN-MW7d	6/17/2016	15:57	7.28	52.09		
MEN-MW7d	7/21/2016	12:30	6.42	52.95		
MEN-MW7d	8/16/2016	15:27	6.37	53.00		
MEN-MW7d	9/15/2016	12:22	5.80	53.57		
MEN-MW7d	10/14/2016	12:48	4.69	54.68		
MEN-MW7d	11/29/2016	14:34	6.40	52.97		
MEN-MW7d	12/12/2016	12:47	6.89	52.48		
MEN-MW7d	1/25/2017	12:18	3.56	55.81		
MEN-MW7d	2/1/2017		N/M			
MEN-MW7d	3/14/2017	12:29	5.10	54.27		
MEN-MW7d	4/20/2017	12:21	4.75	54.62		
MEN-MW7d	5/17/2017	12:42	3.31	56.06		
MEN-MW7d	6/24/2017	12:13	4.78	54.59		
MEN-MW7d	7/14/2017	11:53	5.96	53.41		
MEN-MW7d	8/25/2017	14:49	4.96	54.41		
MEN-MW7d	9/22/2017	13:00	5.30	54.07		
MEN-MW7d	10/19/2017	12:40	5.15	54.22		
MEN-MW7d	11/20/2017	9:37	6.90	52.47		
MEN-MW7d	12/21/2017	13:12	7.44	51.93		
MEN-MW7d	1/23/2018	12:39	5.66	53.71		
MEN-MW7d	2/20/2018	12:58	6.45	52.92		
MEN-MW7d	3/1/2018		N/M			
MEN-MW7d	4/24/2018	10:59	6.51	52.86		
MEN-MW7d	5/8/2018	16:47	5.14	54.23		
MEN-MW7d	6/13/2018	13:09	7.28	52.09		
MEN-MW7d	7/16/2018	11:07	6.09	53.28		
MEN-MW7d	8/20/2018	13:17	3.70	55.67		
MEN-MW7d	9/16/2018	14:23	5.90	53.47		
MEN-MW7d	10/25/2018	12:16	5.82	53.55		
MEN-MW7d	11/12/2018	9:33	6.73	52.64		
MEN-MW7d	12/15/2018	10:43	6.28	53.09		
MEN-MW7d	1/25/2019	12:01	5.01	54.36		
MEN-MW7d	2/20/2019	12:26	3.23	56.14		
MEN-MW7d	3/16/2019	13:51	5.34	54.03		
MEN-MW7d	4/16/2019	13:24	3.38	55.99		
MEN-MW7d	5/22/2019	9:26	4.60	54.77		
MEN-MW7d	6/20/2019	13:01	6.19	53.18		
MEN-MW7d	7/17/2019	13:23	4.96	54.41		
MEN-MW7d	8/14/2019	12:51	5.36	54.01		
MEN-MW7d	9/27/2019	13:46	5.72	53.65		
MEN-MW7d	10/28/2019	15:12	5.90	53.47		
MEN-MW7d	11/12/2019	14:14	6.44	52.93		
MEN-MW7d	12/14/2019	10:39	4.11	55.26		
MEN-MW8s	11/6/2014	8:27	10.72	50.42	-0.24	-0.02
MEN-MW8s	12/14/2014	13:57	9.70	51.44	-0.29	-0.02
MEN-MW8s	1/12/2015	14:50	8.95	52.19	-1.04	-0.08
MEN-MW8s	2/5/2015	13:58	9.62	51.52	<|0.05|	0
MEN-MW8s	3/13/2015	12:43	10.58	50.56	<|0.05|	0
MEN-MW8s	4/17/2015	10:42	11.49	49.65	<|0.05|	0
MEN-MW8s	5/12/2015	12:08	11.87	49.27	<|0.05|	0
MEN-MW8s	6/4/2015	18:21	12.27	48.87	<|0.05|	0
MEN-MW8s	7/13/2015	14:40	13.60	47.54	-0.25	-0.02
MEN-MW8s	8/21/2015	11:17	13.62	47.52	<|0.05|	0
MEN-MW8s	9/14/2015	10:45	12.85	48.29	<|0.05|	0
MEN-MW8s	10/16/2015	10:51	13.19	47.95	<|0.05|	0
MEN-MW8s	11/12/2015	8:06	12.33	48.81	<|0.05|	0
MEN-MW8s	12/26/2015	11:08	11.54	49.60	0.34	0.03
MEN-MW8s	1/15/2016	13:43	11.59	49.55	0.45	0.03
MEN-MW8s	2/17/2016	17:19	11.46	49.68	<|0.05|	0
MEN-MW8s	3/18/2016	12:07	12.22	48.92	-0.24	-0.02
MEN-MW8s	4/18/2016	12:39	12.05	49.09	-0.24	-0.02
MEN-MW8s	5/17/2016	15:58	10.93	50.21	-0.25	-0.02
MEN-MW8s	6/17/2016	16:09	11.01	50.13	<|0.05|	0
MEN-MW8s	7/21/2016	12:11	11.28	49.86	-0.27	-0.02
MEN-MW8s	8/16/2016	15:10	10.95	50.19	<|0.05|	0
MEN-MW8s	9/15/2016	12:34	10.80	50.34	-0.25	-0.02
MEN-MW8s	10/14/2016	12:29	10.45	50.69	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MEN-MW8s	11/29/2016	14:18	9.83	51.31	-0.10	-0.01
MEN-MW8s	12/12/2016	12:32	9.90	51.24	<|0.05|	0
MEN-MW8s	1/25/2017	11:50	9.26	51.88	<|0.05|	0
MEN-MW8s	2/1/2017		N/M			
MEN-MW8s	3/14/2017	12:42	8.49	52.65	<|0.05|	0
MEN-MW8s	4/20/2017	12:05	7.35	53.79	<|0.05|	0
MEN-MW8s	5/17/2017	12:57	8.04	53.10	<|0.05|	0
MEN-MW8s	6/24/2017	12:23	9.34	51.80	<|0.05|	0
MEN-MW8s	7/14/2017	12:11	9.51	51.63	<|0.05|	0
MEN-MW8s	8/25/2017	14:38	9.55	51.59	<|0.05|	0
MEN-MW8s	9/22/2017	12:46	9.87	51.27	<|0.05|	0
MEN-MW8s	10/19/2017	12:54	9.78	51.36	<|0.05|	0
MEN-MW8s	11/20/2017	9:14	10.17	50.97	<|0.05|	0
MEN-MW8s	12/21/2017	13:24	10.54	50.60	<|0.05|	0
MEN-MW8s	1/23/2018	13:03	10.53	50.61	<|0.05|	0
MEN-MW8s	2/20/2018	12:44	11.80	49.34	<|0.05|	0
MEN-MW8s	3/1/2018		N/M			
MEN-MW8s	4/24/2018	10:43	11.29	49.85	<|0.05|	0
MEN-MW8s	5/8/2018	16:33	10.75	50.39	<|0.05|	0
MEN-MW8s	6/13/2018	13:21	11.19	49.95	<|0.05|	0
MEN-MW8s	7/16/2018	11:18	10.34	50.80	<|0.05|	0
MEN-MW8s	8/20/2018	13:12	10.18	50.96	<|0.05|	0
MEN-MW8s	9/16/2018	14:36	9.98	51.16	<|0.05|	0
MEN-MW8s	10/25/2018	12:28	10.92	50.22	<|0.05|	0
MEN-MW8s	11/12/2018	9:18	10.86	50.28	<|0.05|	0
MEN-MW8s	12/15/2018	10:53	9.84	51.30	<|0.05|	0
MEN-MW8s	1/25/2019	12:07	9.37	51.77	<|0.05|	0
MEN-MW8s	2/20/2019	12:36	8.40	52.74	<|0.05|	0
MEN-MW8s	3/16/2019	14:01	8.61	52.53	-0.10	-0.01
MEN-MW8s	4/16/2019	13:00	7.34	53.80	-0.10	-0.01
MEN-MW8s	5/22/2019	9:13	8.55	52.59	<|0.05|	0
MEN-MW8s	6/20/2019	13:13	9.66	51.48	<|0.05|	0
MEN-MW8s	7/17/2019	13:18	9.33	51.81	<|0.05|	0
MEN-MW8s	8/14/2019	12:45	9.53	51.61	<|0.05|	0
MEN-MW8s	9/27/2019	13:55	9.66	51.48	<|0.05|	0
MEN-MW8s	10/28/2019	15:23	9.84	51.30	<|0.05|	0
MEN-MW8s	11/12/2019	14:03	9.83	51.31	<|0.05|	0
MEN-MW8s	12/14/2019	10:27	8.90	52.24	<|0.05|	0
MEN-MW8d	11/6/2014	8:27	10.60	50.66		
MEN-MW8d	12/14/2014	13:57	9.53	51.73		
MEN-MW8d	1/12/2015	14:50	8.03	53.23		
MEN-MW8d	2/5/2015	13:58	9.78	51.48		
MEN-MW8d	3/13/2015	12:43	10.70	50.56		
MEN-MW8d	4/17/2015	10:42	11.63	49.63		
MEN-MW8d	5/12/2015	12:08	11.98	49.28		
MEN-MW8d	6/4/2015	18:21	12.38	48.88		
MEN-MW8d	7/13/2015	14:40	13.47	47.79		
MEN-MW8d	8/21/2015	11:18	13.76	47.50		
MEN-MW8d	9/14/2015	10:46	12.99	48.27		
MEN-MW8d	10/16/2015	10:52	13.31	47.95		
MEN-MW8d	11/12/2015	8:07	12.48	48.78		
MEN-MW8d	12/26/2015	11:09	12.00	49.26		
MEN-MW8d	1/15/2016	13:43	12.16	49.10		
MEN-MW8d	2/17/2016	17:20	11.59	49.67		
MEN-MW8d	3/18/2016	12:08	12.10	49.16		
MEN-MW8d	4/18/2016	12:39	11.93	49.33		
MEN-MW8d	5/17/2016	15:58	10.80	50.46		
MEN-MW8d	6/17/2016	16:10	11.13	50.13		
MEN-MW8d	7/21/2016	12:11	11.13	50.13		
MEN-MW8d	8/16/2016	15:10	11.11	50.15		
MEN-MW8d	9/15/2016	12:35	10.67	50.59		
MEN-MW8d	10/14/2016	12:29	10.58	50.68		
MEN-MW8d	11/29/2016	14:18	9.85	51.41		
MEN-MW8d	12/12/2016	12:33	10.06	51.20		
MEN-MW8d	1/25/2017	11:51	9.37	51.89		
MEN-MW8d	2/1/2017		N/M			
MEN-MW8d	3/14/2017	12:43	8.61	52.65		
MEN-MW8d	4/20/2017	12:06	7.49	53.77		
MEN-MW8d	5/17/2017	12:58	8.15	53.11		
MEN-MW8d	6/24/2017	12:24	9.48	51.78		
MEN-MW8d	7/14/2017	12:12	9.64	51.62		
MEN-MW8d	8/25/2017	14:39	9.67	51.59		
MEN-MW8d	9/22/2017	12:47	10.00	51.26		
MEN-MW8d	10/19/2017	12:53	9.88	51.38		
MEN-MW8d	11/20/2017	9:14	10.30	50.96		
MEN-MW8d	12/21/2017	13:25	10.68	50.58		
MEN-MW8d	1/23/2018	13:04	10.65	50.61		
MEN-MW8d	2/20/2018	12:45	11.92	49.34		
MEN-MW8d	3/1/2018		N/M			
MEN-MW8d	4/24/2018	10:44	11.43	49.83		
MEN-MW8d	5/8/2018	16:34	10.83	50.43		
MEN-MW8d	6/13/2018	13:22	11.32	49.94		
MEN-MW8d	7/16/2018	11:19	10.47	50.79		
MEN-MW8d	8/20/2018	13:12	10.26	51.00		
MEN-MW8d	9/16/2018	14:36	10.10	51.16		
MEN-MW8d	10/25/2018	12:29	11.03	50.23		
MEN-MW8d	11/12/2018	9:19	10.98	50.28		
MEN-MW8d	12/15/2018	10:54	9.93	51.33		
MEN-MW8d	1/25/2019	12:08	9.47	51.79		
MEN-MW8d	2/20/2019	12:37	8.52	52.74		
MEN-MW8d	3/16/2019	14:01	8.63	52.63		
MEN-MW8d	4/16/2019	13:00	7.36	53.90		
MEN-MW8d	5/22/2019	9:13	8.68	52.58		
MEN-MW8d	6/20/2019	13:14	9.77	51.49		
MEN-MW8d	7/17/2019	13:18	9.48	51.78		
MEN-MW8d	8/14/2019	12:45	9.68	51.58		
MEN-MW8d	9/27/2019	13:55	9.80	51.46		
MEN-MW8d	10/28/2019	15:24	9.95	51.31		
MEN-MW8d	11/12/2019	14:04	9.94	51.32		
MEN-MW8d	12/14/2019	10:28	9.02	52.24		
ANC-MW1	1/30/2012	14:13	12.58	60.24		
ANC-MW1	2/12/2012	16:41	12.25	60.57		
ANC-MW1	3/5/2012	9:25	13.19	59.63		
ANC-MW1	4/5/2012	16:23	13.05	59.77		
ANC-MW1	5/11/2012	14:48	13.43	59.39		
ANC-MW1	6/18/2012	11:41	12.85	59.97		
ANC-MW1	7/9/2012	13:49	11.66	61.16		
ANC-MW1	8/16/2012	10:01	12.98	59.84		
ANC-MW1	9/17/2012	12:56	13.03	59.79		
ANC-MW1	10/19/2012	13:55	13.05	59.77		
ANC-MW1	12/6/2012	12:30	13.37	59.45		
ANC-MW1	12/28/2012	12:56	13.15	59.67		
ANC-MW1	1/15/2013	15:52	12.90	59.92		
ANC-MW1	2/17/2013	13:06	13.34	59.48		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ANC-MW1	3/21/2013	9:20	13.49	59.33		
ANC-MW1	4/16/2013	12:45	13.83	58.99		
ANC-MW1	5/30/2013	15:08	13.70	59.12		
ANC-MW1	6/17/2013	13:46	13.92	58.90		
ANC-MW1	7/16/2013	13:45	14.02	58.80		
ANC-MW1	8/27/2013	15:13	14.00	58.82		
ANC-MW1	9/9/2013	15:00	13.82	59.00		
ANC-MW1	10/7/2013	15:27	13.90	58.92		
ANC-MW1	11/14/2013	13:13	13.90	58.92		
ANC-MW1	12/17/2013	14:35	13.92	58.90		
ANC-MW1	1/13/2014	14:08	14.12	58.70		
ANC-MW1	2/20/2014	13:37	14.44	58.38		
ANC-MW1	3/16/2014	14:27	14.39	58.43		
ANC-MW1	4/19/2014	18:02	14.72	58.10		
ANC-MW1	5/21/2014	16:35	15.02	57.80		
ANC-MW1	6/19/2014	14:18	14.82	58.00		
ANC-MW1	7/17/2014	12:57	15.71	57.11		
ANC-MW1	8/21/2014	17:01	16.09	56.73		
ANC-MW1	9/22/2014	13:45	16.02	56.80		
ANC-MW1	10/14/2014	14:57	15.63	57.19		
ANC-MW1	11/7/2014	12:04	15.73	57.09		
ANC-MW1	12/14/2014	16:19	15.28	57.54		
ANC-MW1	1/12/2015	18:06	14.51	58.31		
ANC-MW1	2/6/2015	12:13	14.74	58.08		
ANC-MW1	3/13/2015	15:14	15.33	57.49		
ANC-MW1	4/17/2015	13:02	15.27	57.55		
ANC-MW1	5/13/2015	15:21	15.65	57.17		
ANC-MW1	6/4/2015	13:30	16.30	56.52		
ANC-MW1	7/21/2015	15:32	17.82	55.00		
ANC-MW1	8/19/2015	12:22	18.35	54.47		
ANC-MW1	9/14/2015	15:15	18.66	54.16		
ANC-MW1	10/16/2015	15:04	17.95	54.87		
ANC-MW1	11/17/2015	12:49	17.16	55.66		
ANC-MW1	12/23/2015	16:49	16.89	55.93		
ANC-MW1	1/15/2016	17:13	16.44	56.38		
ANC-MW1	2/23/2016	11:34	15.50	57.32		
ANC-MW1	3/18/2016	14:39	15.02	57.80		
ANC-MW1	4/18/2016	15:28	14.98	57.84		
ANC-MW1	5/18/2016	15:19	15.29	57.53		
ANC-MW1	6/16/2016	14:39	15.66	57.16		
ANC-MW1	7/21/2016	14:48	16.57	56.25		
ANC-MW1	8/19/2016	8:35	17.02	55.80		
ANC-MW1	9/15/2016	16:00	17.00	55.82		
ANC-MW1	10/14/2016	15:01	16.54	56.28		
ANC-MW1	11/22/2016	7:30	15.73	57.09		
ANC-MW1	12/12/2016	16:21	15.45	57.37		
ANC-MW1	1/25/2017	16:37	12.77	60.05		
ANC-MW1	2/1/2017		N/M			
ANC-MW1	3/15/2017	12:55	7.67	65.15		
ANC-MW1	4/20/2017	15:48	7.25	65.57		
ANC-MW1	5/18/2017	15:32	7.63	65.19		
ANC-MW1	6/23/2017	12:18	8.31	64.51		
ANC-MW1	7/14/2017	15:05	8.91	63.91		
ANC-MW1	8/28/2017	13:17	10.42	62.40		
ANC-MW1	9/22/2017	16:41	11.15	61.67		
ANC-MW1	10/19/2017	16:03	11.68	61.14		
ANC-MW1	11/22/2017	12:20	12.11	60.71		
ANC-MW1	12/21/2017	16:28	12.23	60.59		
ANC-MW1	1/23/2018	16:41	12.22	60.60		
ANC-MW1	2/21/2018	14:49	12.66	60.16		
ANC-MW1	3/1/2018		N/M			
ANC-MW1	4/24/2018	13:08	12.03	60.79		
ANC-MW1	5/11/2018	14:09	12.18	60.64		
ANC-MW1	6/13/2018	16:36	12.50	60.32		
ANC-MW1	7/16/2018	14:13	13.44	59.38		
ANC-MW1	8/22/2018	15:07	14.57	58.25		
ANC-MW1	9/16/2018	18:24	14.46	58.36		
ANC-MW1	10/25/2018	16:06	14.03	58.79		
ANC-MW1	11/13/2018	13:18	14.09	58.73		
ANC-MW1	12/15/2018	12:00	13.72	59.10		
ANC-MW1	1/25/2019	14:42	13.10	59.72		
ANC-MW1	2/25/2019	12:51	11.55	61.27		
ANC-MW1	3/16/2019	16:58	10.81	62.01		
ANC-MW1	4/15/2019	13:03	11.10	61.72		
ANC-MW1	5/22/2019	12:51	11.30	61.52		
ANC-MW1	6/20/2019	16:14	9.50	63.32		
ANC-MW1	7/17/2019	12:36	11.20	61.62		
ANC-MW1	8/16/2019	7:30	12.59	60.23		
ANC-MW1	9/26/2019	14:35	13.22	59.60		
ANC-MW1	10/25/2019	11:44	13.12	59.70		
ANC-MW1	11/12/2019	10:54	13.49	59.33		
ANC-MW1	12/14/2019	13:28	13.00	59.82		
ANC-MW2	1/30/2012	14:16	19.85	60.45		
ANC-MW2	2/12/2012	17:03	20.26	60.04		
ANC-MW2	3/5/2012	9:28	20.80	59.50		
ANC-MW2	4/5/2012	16:18	20.34	59.96		
ANC-MW2	5/11/2012	14:20	20.68	59.62		
ANC-MW2	6/18/2012	11:44	20.00	60.30		
ANC-MW2	7/9/2012	13:46	Q/M			
ANC-MW2	8/16/2012	9:58	20.38	59.92		
ANC-MW2	9/17/2012	12:54	20.23	60.07		
ANC-MW2	10/19/2012	13:52	20.00	60.30		
ANC-MW2	12/6/2012	12:32	20.61	59.69		
ANC-MW2	12/28/2012	13:00	20.16	60.14		
ANC-MW2	1/15/2013	15:49	20.08	60.22		
ANC-MW2	2/17/2013	13:01	20.60	59.70		
ANC-MW2	3/21/2013	9:16	20.83	59.47		
ANC-MW2	4/16/2013	12:51	20.93	59.37		
ANC-MW2	5/30/2013	15:20	20.36	59.94		
ANC-MW2	6/17/2013	13:49	20.98	59.32		
ANC-MW2	7/16/2013	13:48	20.90	59.40		
ANC-MW2	8/27/2013	15:20	21.14	59.16		
ANC-MW2	9/9/2013	14:57	20.96	59.34		
ANC-MW2	10/7/2013	15:32	21.15	59.15		
ANC-MW2	11/14/2013	13:08	21.20	59.10		
ANC-MW2	12/17/2013	14:39	21.12	59.18		
ANC-MW2	1/13/2014	14:10	21.39	58.91		
ANC-MW2	2/20/2014	13:41	21.73	58.57		
ANC-MW2	3/16/2014	14:30	21.70	58.60		
ANC-MW2	4/19/2014	18:06	21.90	58.40		
ANC-MW2	5/21/2014	16:39	21.79	58.51		
ANC-MW2	6/19/2014	14:21	21.84	58.46		
ANC-MW2	7/17/2014	13:01	22.69	57.61		
ANC-MW2	8/21/2014	17:04	22.84	57.46		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ANC-MW2	9/22/2014	13:51	22.86	57.44		
ANC-MW2	10/14/2014	15:01	22.76	57.54		
ANC-MW2	11/7/2014	12:08	22.81	57.49		
ANC-MW2	12/14/2014	16:22	22.31	57.99		
ANC-MW2	1/12/2015	18:09	21.69	58.61		
ANC-MW2	2/6/2015	12:10	21.90	58.40		
ANC-MW2	3/13/2015	15:18	22.67	57.63		
ANC-MW2	4/17/2015	13:05	22.17	58.13		
ANC-MW2	5/13/2015	15:25	22.56	57.74		
ANC-MW2	6/4/2015	13:26	23.25	57.05		
ANC-MW2	7/21/2015	15:27	24.70	55.60		
ANC-MW2	8/19/2015	12:25	25.39	54.91		
ANC-MW2	9/14/2015	15:12	25.42	54.88		
ANC-MW2	10/16/2015	15:08	25.02	55.28		
ANC-MW2	11/17/2015	12:50	24.24	56.06		
ANC-MW2	12/23/2015	16:52	24.00	56.30		
ANC-MW2	1/15/2016	17:16	23.60	56.70		
ANC-MW2	2/23/2016	11:37	22.70	57.60		
ANC-MW2	3/18/2016	14:41	22.22	58.08		
ANC-MW2	4/18/2016	15:31	22.25	58.05		
ANC-MW2	5/18/2016	15:22	22.50	57.80		
ANC-MW2	6/16/2016	14:36	22.86	57.44		
ANC-MW2	7/21/2016	14:52	23.33	56.97		
ANC-MW2	8/19/2016	8:30	23.92	56.38		
ANC-MW2	9/15/2016	15:59	23.29	57.01		
ANC-MW2	10/14/2016	15:05	23.36	56.94		
ANC-MW2	11/22/2016	7:35	22.82	57.48		
ANC-MW2	12/12/2016	16:18	22.54	57.76		
ANC-MW2	1/25/2017	16:38	19.54	60.76		
ANC-MW2	2/1/2017		N/M			
ANC-MW2	3/15/2017	12:50	14.83	65.47		
ANC-MW2	4/20/2017	15:50	14.47	65.83		
ANC-MW2	5/18/2017	15:26	14.98	65.32		
ANC-MW2	6/23/2017	12:15	15.33	64.97		
ANC-MW2	7/14/2017	15:02	16.20	64.10		
ANC-MW2	8/28/2017	13:14	17.10	63.20		
ANC-MW2	9/22/2017	16:38	18.39	61.91		
ANC-MW2	10/19/2017	16:02	18.96	61.34		
ANC-MW2	11/22/2017	12:21	19.42	60.88		
ANC-MW2	12/21/2017	16:26	19.75	60.55		
ANC-MW2	1/23/2018	16:38	19.57	60.73		
ANC-MW2	2/21/2018	14:47	20.05	60.25		
ANC-MW2	3/1/2018		N/M			
ANC-MW2	4/24/2018	13:11	19.12	61.18		
ANC-MW2	5/11/2018	14:11	19.58	60.72		
ANC-MW2	6/13/2018	16:34	19.73	60.57		
ANC-MW2	7/16/2018	14:11	20.86	59.44		
ANC-MW2	8/22/2018	15:11	21.98	58.32		
ANC-MW2	9/16/2018	18:22	21.67	58.63		
ANC-MW2	10/25/2018	16:10	21.37	58.93		
ANC-MW2	11/13/2018	13:17	21.42	58.88		
ANC-MW2	12/15/2018	11:58	21.01	59.29		
ANC-MW2	1/25/2019	14:40	20.31	59.99		
ANC-MW2	2/25/2019	12:53	18.50	61.80		
ANC-MW2	3/16/2019	17:00	18.00	62.30		
ANC-MW2	4/15/2019	12:59	18.38	61.92		
ANC-MW2	5/22/2019	12:54	18.22	62.08		
ANC-MW2	6/20/2019	16:11	16.43	63.87		
ANC-MW2	7/17/2019	12:33	18.83	61.47		
ANC-MW2	8/16/2019	7:33	20.35	59.95		
ANC-MW2	9/26/2019	14:33	20.78	59.52		
ANC-MW2	10/25/2019	11:41	20.62	59.68		
ANC-MW2	11/12/2019	10:57	21.09	59.21		
ANC-MW2	12/14/2019	13:26	20.38	59.92		
ANC-MW3	1/30/2012	14:20	10.00	60.75		
ANC-MW3	2/12/2012	17:19	10.23	60.52		
ANC-MW3	3/5/2012	9:31	10.73	60.02		
ANC-MW3	4/5/2012	16:38	10.74	60.01		
ANC-MW3	5/11/2012	14:08	10.93	59.82		
ANC-MW3	6/18/2012	11:47	10.21	60.54		
ANC-MW3	7/9/2012	13:44	10.40	60.35		
ANC-MW3	8/16/2012	9:55	10.43	60.32		
ANC-MW3	9/17/2012	12:51	10.30	60.45		
ANC-MW3	10/19/2012	13:50	10.22	60.53		
ANC-MW3	12/6/2012	12:38	10.87	59.88		
ANC-MW3	12/28/2012	12:48	10.58	60.17		
ANC-MW3	1/15/2013	15:57	10.42	60.33		
ANC-MW3	2/17/2013	12:53	10.86	59.89		
ANC-MW3	3/21/2013	9:11	11.08	59.67		
ANC-MW3	4/16/2013	13:00	11.31	59.44		
ANC-MW3	5/30/2013	15:24	11.07	59.68		
ANC-MW3	6/17/2013	13:53	11.25	59.50		
ANC-MW3	7/16/2013	13:54	11.41	59.34		
ANC-MW3	8/27/2013	15:27	11.37	59.38		
ANC-MW3	9/9/2013	14:53	11.23	59.52		
ANC-MW3	10/7/2013	15:38	11.28	59.47		
ANC-MW3	11/14/2013	13:22	11.40	59.35		
ANC-MW3	12/17/2013	14:43	11.38	59.37		
ANC-MW3	1/13/2014	14:14	11.61	59.14		
ANC-MW3	2/20/2014	13:44	11.94	58.81		
ANC-MW3	3/16/2014	14:36	11.93	58.82		
ANC-MW3	4/19/2014	18:10	11.36	59.39		
ANC-MW3	5/21/2014	16:43	12.42	58.33		
ANC-MW3	6/19/2014	14:24	12.19	58.56		
ANC-MW3	7/17/2014	13:05	12.99	57.76		
ANC-MW3	8/21/2014	17:08	13.50	57.25		
ANC-MW3	9/22/2014	13:57	13.41	57.34		
ANC-MW3	10/14/2014	15:04	13.11	57.64		
ANC-MW3	11/7/2014	12:13	13.15	57.60		
ANC-MW3	12/14/2014	16:27	12.72	58.03		
ANC-MW3	1/12/2015	18:13	12.11	58.64		
ANC-MW3	2/6/2015	12:06	14.29	56.46		
ANC-MW3	3/13/2015	15:22	13.02	57.73		
ANC-MW3	4/17/2015	13:09	12.73	58.02		
ANC-MW3	5/13/2015	15:29	13.13	57.62		
ANC-MW3	6/4/2015	13:22	13.83	56.92		
ANC-MW3	7/21/2015	15:15	15.25	55.50		
ANC-MW3	8/19/2015	12:11	15.98	54.77		
ANC-MW3	9/14/2015	15:21	16.21	54.54		
ANC-MW3	10/16/2015	14:57	15.77	54.98		
ANC-MW3	11/17/2015	12:57	14.98	55.77		
ANC-MW3	12/23/2015	16:39	14.58	56.17		
ANC-MW3	1/15/2016	17:03	14.23	56.52		
ANC-MW3	2/23/2016	11:29	13.34	57.41		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ANC-MW3	3/18/2016	14:46	12.96	57.79		
ANC-MW3	4/18/2016	15:35	12.83	57.92		
ANC-MW3	5/18/2016	15:33	12.99	57.76		
ANC-MW3	6/16/2016	14:55	13.35	57.40		
ANC-MW3	7/21/2016	15:01	14.23	56.52		
ANC-MW3	8/19/2016	8:26	14.63	56.12		
ANC-MW3	9/15/2016	16:11	14.60	56.15		
ANC-MW3	10/14/2016	15:11	14.13	56.62		
ANC-MW3	11/22/2016	7:20	13.43	57.32		
ANC-MW3	12/12/2016	16:30	13.12	57.63		
ANC-MW3	1/25/2017	16:28	11.17	59.58		
ANC-MW3	2/1/2017		N/M			
ANC-MW3	3/15/2017	12:45	5.85	64.90		
ANC-MW3	4/20/2017	15:40	5.16	65.59		
ANC-MW3	5/18/2017	15:27	5.42	65.33		
ANC-MW3	6/23/2017	12:12	5.85	64.90		
ANC-MW3	7/14/2017	15:16	6.31	64.44		
ANC-MW3	8/28/2017	13:20	7.52	63.23		
ANC-MW3	9/22/2017	16:49	8.38	62.37		
ANC-MW3	10/19/2017	16:11	8.94	61.81		
ANC-MW3	11/22/2017	12:17	9.51	61.24		
ANC-MW3	12/21/2017	16:42	9.86	60.89		
ANC-MW3	1/23/2018	16:53	9.85	60.90		
ANC-MW3	2/21/2018	14:52	10.25	60.50		
ANC-MW3	3/1/2018		N/M			
ANC-MW3	4/24/2018	13:15	9.58	61.17		
ANC-MW3	5/11/2018	14:05	9.80	60.95		
ANC-MW3	6/13/2018	16:43	10.02	60.73		
ANC-MW3	7/16/2018	14:21	11.03	59.72		
ANC-MW3	8/22/2018	15:14	12.40	58.35		
ANC-MW3	9/16/2018	18:28	12.32	58.43		
ANC-MW3	10/25/2018	16:14	11.73	59.02		
ANC-MW3	11/13/2018	13:16	11.71	59.04		
ANC-MW3	12/15/2018	11:56	11.40	59.35		
ANC-MW3	1/25/2019	14:38	10.84	59.91		
ANC-MW3	2/25/2019	12:48	9.56	61.19		
ANC-MW3	3/16/2019	16:51	8.68	62.07		
ANC-MW3	4/15/2019	12:56	8.88	61.87		
ANC-MW3	5/22/2019	12:58	8.80	61.95		
ANC-MW3	6/20/2019	16:21	7.20	63.55		
ANC-MW3	7/17/2019	12:25	8.82	61.93		
ANC-MW3	8/16/2019	7:36	10.38	60.37		
ANC-MW3	9/26/2019	14:28	10.98	59.77		
ANC-MW3	10/25/2019	11:39	10.79	59.96		
ANC-MW3	11/12/2019	11:00	11.19	59.56		
ANC-MW3	12/14/2019	13:35	10.88	59.87		
ANC-MW4	1/30/2012	14:09	20.70	60.57		
ANC-MW4	2/12/2012	17:40	20.90	60.37		
ANC-MW4	3/5/2012	9:21	21.23	60.04		
ANC-MW4	4/5/2012	16:31	21.12	60.15		
ANC-MW4	5/11/2012	15:06	21.00	60.27		
ANC-MW4	6/18/2012	11:39	20.82	60.45		
ANC-MW4	7/9/2012	13:52	20.58	60.69		
ANC-MW4	8/16/2012	10:05	20.48	60.79		
ANC-MW4	9/17/2012	12:59	20.84	60.43		
ANC-MW4	10/19/2012	13:57	21.10	60.17		
ANC-MW4	12/6/2012	12:35	21.58	59.69		
ANC-MW4	12/28/2012	12:52	21.45	59.82		
ANC-MW4	1/15/2013	15:54	21.23	60.04		
ANC-MW4	2/17/2013	13:12	21.55	59.72		
ANC-MW4	3/21/2013	9:08	21.67	59.60		
ANC-MW4	4/16/2013	12:40	22.04	59.23		
ANC-MW4	5/30/2013	15:03	21.66	59.61		
ANC-MW4	6/17/2013	13:41	22.03	59.24		
ANC-MW4	7/16/2013	13:41	21.78	59.49		
ANC-MW4	8/27/2013	15:09	21.87	59.40		
ANC-MW4	9/9/2013	15:03	21.63	59.64		
ANC-MW4	10/7/2013	15:23	21.85	59.42		
ANC-MW4	11/14/2013	13:19	21.99	59.28		
ANC-MW4	12/17/2013	14:32	22.19	59.08		
ANC-MW4	1/13/2014	14:03	22.36	58.91		
ANC-MW4	2/20/2014	13:32	22.58	58.69		
ANC-MW4	3/16/2014	14:23	22.61	58.66		
ANC-MW4	4/19/2014	17:59	22.93	58.34		
ANC-MW4	5/21/2014	16:31	23.00	58.27		
ANC-MW4	6/19/2014	14:14	22.96	58.31		
ANC-MW4	7/17/2014	12:54	23.75	57.52		
ANC-MW4	8/21/2014	16:57	24.12	57.15		
ANC-MW4	9/22/2014	13:37	24.26	57.01		
ANC-MW4	10/14/2014	14:53	23.82	57.45		
ANC-MW4	11/7/2014	12:01	24.00	57.27		
ANC-MW4	12/14/2014	16:14	23.73	57.54		
ANC-MW4	1/12/2015	18:02	22.91	58.36		
ANC-MW4	2/6/2015	12:17	23.09	58.18		
ANC-MW4	3/13/2015	15:09	23.35	57.92		
ANC-MW4	4/17/2015	12:57	23.50	57.77		
ANC-MW4	5/13/2015	15:17	23.90	57.37		
ANC-MW4	6/4/2015	13:32	24.27	57.00		
ANC-MW4	7/21/2015	15:37	26.03	55.24		
ANC-MW4	8/19/2015	12:16	26.72	54.55		
ANC-MW4	9/14/2015	15:18	27.04	54.23		
ANC-MW4	10/16/2015	15:01	26.73	54.54		
ANC-MW4	11/17/2015	12:53	26.00	55.27		
ANC-MW4	12/23/2015	16:46	25.49	55.78		
ANC-MW4	1/15/2016	17:09	25.14	56.13		
ANC-MW4	2/23/2016	11:32	24.14	57.13		
ANC-MW4	3/18/2016	14:35	23.78	57.49		
ANC-MW4	4/18/2016	15:25	23.58	57.69		
ANC-MW4	5/18/2016	15:14	23.74	57.53		
ANC-MW4	6/16/2016	14:42	23.76	57.51		
ANC-MW4	7/21/2016	14:44	24.99	56.28		
ANC-MW4	8/19/2016	8:38	25.43	55.84		
ANC-MW4	9/15/2016	16:03	25.50	55.77		
ANC-MW4	10/14/2016	14:56	25.02	56.25		
ANC-MW4	11/22/2016	7:26	24.36	56.91		
ANC-MW4	12/12/2016	16:24	24.06	57.21		
ANC-MW4	1/25/2017	16:33	22.26	59.01		
ANC-MW4	2/1/2017		N/M			
ANC-MW4	3/15/2017	13:01	16.90	64.37		
ANC-MW4	4/20/2017	15:46	15.94	65.33		
ANC-MW4	5/18/2017	15:31	16.04	65.23		
ANC-MW4	6/23/2017	12:23	16.73	64.54		
ANC-MW4	7/14/2017	15:06	16.81	64.46		
ANC-MW4	8/28/2017	13:19	18.12	63.15		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ANC-MW4	9/22/2017	16:42	19.02	62.25		
ANC-MW4	10/19/2017	16:05	19.59	61.68		
ANC-MW4	11/22/2017	12:19	20.18	61.09		
ANC-MW4	12/21/2017	16:35	20.52	60.75		
ANC-MW4	1/23/2018	16:44	20.56	60.71		
ANC-MW4	2/21/2018	14:50	20.94	60.33		
ANC-MW4	3/1/2018		N/M			
ANC-MW4	4/24/2018	13:04	20.48	60.79		
ANC-MW4	5/11/2018	14:07	20.20	61.07		
ANC-MW4	6/13/2018	16:38	20.53	60.74		
ANC-MW4	7/16/2018	14:16	21.23	60.04		
ANC-MW4	8/22/2018	15:03	22.43	58.84		
ANC-MW4	9/16/2018	18:26	22.56	58.71		
ANC-MW4	10/25/2018	16:02	22.29	58.98		
ANC-MW4	11/13/2018	13:21	22.35	58.92		
ANC-MW4	12/15/2018	12:02	22.12	59.15		
ANC-MW4	1/25/2019	14:45	21.65	59.62		
ANC-MW4	2/25/2019	12:50	20.52	60.75		
ANC-MW4	3/16/2019	16:57	19.60	61.67		
ANC-MW4	4/15/2019	13:05	19.49	61.78		
ANC-MW4	5/22/2019	12:48	19.56	61.71		
ANC-MW4	6/20/2019	16:15	17.90	63.37		
ANC-MW4	7/17/2019	12:40	18.85	62.42		
ANC-MW4	8/16/2019	7:26	20.31	60.96		
ANC-MW4	9/26/2019	14:38	21.08	60.19		
ANC-MW4	10/25/2019	11:47	21.18	60.09		
ANC-MW4	11/12/2019	10:50	21.45	59.82		
ANC-MW4	12/14/2019	13:30	21.33	59.94		
ANC-MW5s	1/30/2012	14:00	15.39	61.52	0.45	0.02
ANC-MW5s	2/12/2012	16:13	15.50	61.41	0.09	0.00
ANC-MW5s	3/5/2012	9:19	15.98	60.93	<|0.05|	0
ANC-MW5s	4/5/2012	16:41	16.21	60.70	<|0.05|	0
ANC-MW5s	5/11/2012	15:47	17.65	59.26	-0.21	-0.01
ANC-MW5s	6/18/2012	11:51	15.70	61.21	0.22	0.01
ANC-MW5s	7/9/2012	13:55	15.82	61.09	0.35	0.02
ANC-MW5s	8/16/2012	10:07	16.30	60.61	0.53	0.03
ANC-MW5s	9/17/2012	13:03	15.53	61.38	-0.07	-0.00
ANC-MW5s	10/19/2012	14:00	15.45	61.46	0.31	0.02
ANC-MW5s	12/6/2012	12:46	16.18	60.73	0.45	0.02
ANC-MW5s	12/28/2012	13:03	16.16	60.75	0.12	0.01
ANC-MW5s	1/15/2013	15:59	16.10	60.81	0.07	0.00
ANC-MW5s	2/17/2013	12:45	16.48	60.43	<|0.05|	0
ANC-MW5s	3/21/2013	9:04	16.70	60.21	<|0.05|	0
ANC-MW5s	4/16/2013	12:35	16.94	59.97	0.11	0.01
ANC-MW5s	5/30/2013	14:57	16.60	60.31	0.23	0.01
ANC-MW5s	6/17/2013	13:36	16.51	60.40	0.20	0.01
ANC-MW5s	7/16/2013	13:36	17.65	59.26	0.49	0.03
ANC-MW5s	8/27/2013	15:04	16.90	60.01	0.21	0.01
ANC-MW5s	9/9/2013	15:06	16.74	60.17	0.29	0.02
ANC-MW5s	10/7/2013	15:17	16.96	59.95	0.53	0.03
ANC-MW5s	11/14/2013	13:29	16.70	60.21	0.16	0.01
ANC-MW5s	12/17/2013	14:29	16.90	60.01	0.08	0.00
ANC-MW5s	1/13/2014	14:01	17.20	59.71	0.06	0.00
ANC-MW5s	2/20/2014	13:29	17.58	59.33	<|0.05|	0
ANC-MW5s	3/16/2014	14:20	17.53	59.38	<|0.05|	0
ANC-MW5s	4/19/2014	17:55	18.13	58.78	0.41	0.02
ANC-MW5s	5/21/2014	16:28	18.60	58.31	0.22	0.01
ANC-MW5s	6/19/2014	14:11	17.98	58.93	0.15	0.01
ANC-MW5s	7/17/2014	12:50	19.37	57.54	0.32	0.02
ANC-MW5s	8/21/2014	16:53	19.43	57.48	0.46	0.03
ANC-MW5s	9/22/2014	13:32	19.33	57.58	0.14	0.01
ANC-MW5s	10/14/2014	14:50	18.94	57.97	0.08	0.00
ANC-MW5s	11/7/2014	11:58	18.88	58.03	<|0.05|	0
ANC-MW5s	12/14/2014	16:10	18.33	58.58	0.13	0.01
ANC-MW5s	1/12/2015	17:59	17.88	59.03	<|0.05|	0
ANC-MW5s	2/6/2015	12:19	16.04	60.87	0.10	0.01
ANC-MW5s	3/13/2015	15:04	19.20	57.71	0.50	0.03
ANC-MW5s	4/17/2015	12:54	18.93	57.98	0.06	0.00
ANC-MW5s	5/13/2015	15:13	19.15	57.76	0.24	0.01
ANC-MW5s	6/4/2015	13:35	20.73	56.18	0.46	0.03
ANC-MW5s	7/21/2015	15:09	22.25	54.66	0.52	0.03
ANC-MW5s	8/19/2015	13:06	22.50	54.41	0.59	0.03
ANC-MW5s	9/14/2015	15:25	23.20	53.71	0.60	0.03
ANC-MW5s	10/16/2015	15:12	22.18	54.73	0.61	0.03
ANC-MW5s	11/17/2015	13:01	20.66	56.25	0.58	0.03
ANC-MW5s	12/23/2015	16:43	20.83	56.08	0.08	0.00
ANC-MW5s	1/15/2016	17:06	20.36	56.55	<|0.05|	0
ANC-MW5s	2/23/2016	11:42	19.56	57.35	<|0.05|	0
ANC-MW5s	3/18/2016	14:31	19.23	57.68	<|0.05|	0
ANC-MW5s	4/18/2016	15:21	19.13	57.78	<|0.05|	0
ANC-MW5s	5/18/2016	15:11	19.10	57.81	0.12	0.01
ANC-MW5s	6/16/2016	14:47	20.43	56.48	0.29	0.02
ANC-MW5s	7/21/2016	14:39	21.20	55.71	<|0.05|	0
ANC-MW5s	8/19/2016	8:46	22.23	54.68	-0.25	-0.01
ANC-MW5s	9/15/2016	16:05	21.50	55.41	<|0.05|	0
ANC-MW5s	10/14/2016	14:51	20.50	56.41	<|0.05|	0
ANC-MW5s	11/22/2016	8:00	19.53	57.38	<|0.05|	0
ANC-MW5s	12/12/2016	16:26	19.25	57.66	-0.06	-0.00
ANC-MW5s	1/25/2017	16:31	17.66	59.25	<|0.05|	0
ANC-MW5s	2/1/2017		N/M			
ANC-MW5s	3/15/2017	13:10	13.39	63.52	-0.21	-0.01
ANC-MW5s	4/20/2017	15:43	11.94	64.97	-0.17	-0.01
ANC-MW5s	5/18/2017	15:28	11.92	64.99	<|0.05|	0
ANC-MW5s	6/23/2017	12:26	12.02	64.89	0.06	0.00
ANC-MW5s	7/14/2017	15:09	12.34	64.57	0.15	0.01
ANC-MW5s	8/28/2017	13:23	13.30	63.61	<|0.05|	0
ANC-MW5s	9/22/2017	16:44	13.75	63.16	0.16	0.01
ANC-MW5s	10/19/2017	16:07	14.10	62.81	0.07	0.00
ANC-MW5s	11/22/2017	12:15	14.84	62.07	0.10	0.01
ANC-MW5s	12/21/2017	16:38	15.33	61.58	0.06	0.00
ANC-MW5s	1/23/2018	16:46	15.52	61.39	<|0.05|	0
ANC-MW5s	2/21/2018	14:55	15.30	61.61	1.14	0.06
ANC-MW5s	3/1/2018		N/M			
ANC-MW5s	4/24/2018	13:00	15.60	61.31	<|0.05|	0
ANC-MW5s	5/11/2018	14:00	15.70	61.21	0.06	0.00
ANC-MW5s	6/13/2018	16:40	15.95	60.96	0.09	0.00
ANC-MW5s	7/16/2018	14:19	17.65	59.26	0.32	0.02
ANC-MW5s	8/22/2018	14:58	18.45	58.46	0.63	0.04
ANC-MW5s	9/16/2018	18:31	17.91	59.00	0.34	0.02
ANC-MW5s	10/25/2018	15:58	17.41	59.50	0.10	0.01
ANC-MW5s	11/13/2018	13:30	17.34	59.57	<|0.05|	0
ANC-MW5s	12/15/2018	12:03	17.05	59.86	0.09	0.00
ANC-MW5s	1/25/2019	14:47	16.75	60.16	0.07	0.00
ANC-MW5s	2/25/2019	12:45	15.60	61.31	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ANC-MW5s	3/16/2019	16:54	15.03	61.88	<|0.05|	0
ANC-MW5s	4/15/2019	13:08	15.08	61.83	<|0.05|	0
ANC-MW5s	5/22/2019	12:45	14.45	62.46	0.28	0.02
ANC-MW5s	6/20/2019	16:18	13.63	63.28	0.10	0.01
ANC-MW5s	7/17/2019	12:43	14.47	62.44	0.28	0.02
ANC-MW5s	8/16/2019	7:22	16.18	60.73	0.41	0.02
ANC-MW5s	9/26/2019	14:43	16.70	60.21	0.39	0.02
ANC-MW5s	10/25/2019	11:51	16.29	60.62	<|0.05|	0
ANC-MW5s	11/12/2019	10:47	17.21	59.70	0.18	0.01
ANC-MW5s	12/14/2019	13:32	16.38	60.53	0.07	0.00
ANC-MW5d	1/30/2012	14:03	15.75	61.07		
ANC-MW5d	2/12/2012	16:14	15.50	61.32		
ANC-MW5d	3/5/2012	9:18	15.93	60.89		
ANC-MW5d	4/5/2012	16:41	16.16	60.66		
ANC-MW5d	5/11/2012	15:48	17.35	59.47		
ANC-MW5d	6/18/2012	11:50	15.83	60.99		
ANC-MW5d	7/9/2012	13:55	16.08	60.74		
ANC-MW5d	8/16/2012	10:07	16.74	60.08		
ANC-MW5d	9/17/2012	13:02	15.37	61.45		
ANC-MW5d	10/19/2012	14:00	15.67	61.15		
ANC-MW5d	12/6/2012	12:46	16.54	60.28		
ANC-MW5d	12/28/2012	13:04	16.19	60.63		
ANC-MW5d	1/15/2013	16:00	16.08	60.74		
ANC-MW5d	2/17/2013	12:46	16.39	60.43		
ANC-MW5d	3/21/2013	9:04	16.63	60.19		
ANC-MW5d	4/16/2013	12:35	16.96	59.86		
ANC-MW5d	5/30/2013	14:57	16.74	60.08		
ANC-MW5d	6/17/2013	13:37	16.62	60.20		
ANC-MW5d	7/16/2013	13:36	18.05	58.77		
ANC-MW5d	8/27/2013	15:04	17.02	59.80		
ANC-MW5d	9/9/2013	15:06	16.94	59.88		
ANC-MW5d	10/7/2013	15:17	17.40	59.42		
ANC-MW5d	11/14/2013	13:29	16.77	60.05		
ANC-MW5d	12/17/2013	14:29	16.89	59.93		
ANC-MW5d	1/13/2014	14:01	17.17	59.65		
ANC-MW5d	2/20/2014	13:29	17.54	59.28		
ANC-MW5d	3/16/2014	14:20	17.46	59.36		
ANC-MW5d	4/19/2014	17:55	18.45	58.37		
ANC-MW5d	5/21/2014	16:28	18.73	58.09		
ANC-MW5d	6/19/2014	14:11	18.04	58.78		
ANC-MW5d	7/17/2014	12:50	19.60	57.22		
ANC-MW5d	8/21/2014	16:53	19.80	57.02		
ANC-MW5d	9/22/2014	13:32	19.38	57.44		
ANC-MW5d	10/14/2014	14:50	18.93	57.89		
ANC-MW5d	11/7/2014	11:58	18.77	58.05		
ANC-MW5d	12/14/2014	16:10	18.37	58.45		
ANC-MW5d	1/12/2015	17:59	17.80	59.02		
ANC-MW5d	2/6/2015	12:19	16.05	60.77		
ANC-MW5d	3/13/2015	15:04	19.61	57.21		
ANC-MW5d	4/17/2015	12:54	18.90	57.92		
ANC-MW5d	5/13/2015	15:13	19.30	57.52		
ANC-MW5d	6/4/2015	13:35	21.10	55.72		
ANC-MW5d	7/21/2015	15:09	22.68	54.14		
ANC-MW5d	8/19/2015	13:07	23.00	53.82		
ANC-MW5d	9/14/2015	15:26	23.71	53.11		
ANC-MW5d	10/16/2015	15:13	22.70	54.12		
ANC-MW5d	11/17/2015	13:02	21.15	55.67		
ANC-MW5d	12/23/2015	16:44	20.82	56.00		
ANC-MW5d	1/15/2016	17:07	20.29	56.53		
ANC-MW5d	2/23/2016	11:43	19.50	57.32		
ANC-MW5d	3/18/2016	14:34	19.12	57.70		
ANC-MW5d	4/18/2016	15:21	19.05	57.77		
ANC-MW5d	5/18/2016	15:11	19.13	57.69		
ANC-MW5d	6/16/2016	14:48	20.63	56.19		
ANC-MW5d	7/21/2016	14:39	21.12	55.70		
ANC-MW5d	8/19/2016	8:46	21.89	54.93		
ANC-MW5d	9/15/2016	16:06	21.37	55.45		
ANC-MW5d	10/14/2016	14:51	20.43	56.39		
ANC-MW5d	11/22/2016	8:00	19.41	57.41		
ANC-MW5d	12/12/2016	16:27	19.10	57.72		
ANC-MW5d	1/25/2017	16:32	17.62	59.20		
ANC-MW5d	2/1/2017		N/M			
ANC-MW5d	3/15/2017	13:10	13.09	63.73		
ANC-MW5d	4/20/2017	15:44	11.68	65.14		
ANC-MW5d	5/18/2017	15:29	11.86	64.96		
ANC-MW5d	6/23/2017	12:26	11.99	64.83		
ANC-MW5d	7/14/2017	15:10	12.40	64.42		
ANC-MW5d	8/28/2017	13:24	13.22	63.60		
ANC-MW5d	9/22/2017	16:45	13.82	63.00		
ANC-MW5d	10/19/2017	16:08	14.08	62.74		
ANC-MW5d	11/22/2017	12:15	14.85	61.97		
ANC-MW5d	12/21/2017	16:39	15.30	61.52		
ANC-MW5d	1/23/2018	16:47	15.48	61.34		
ANC-MW5d	2/21/2018	14:56	16.35	60.47		
ANC-MW5d	3/1/2018		N/M			
ANC-MW5d	4/24/2018	13:00	15.55	61.27		
ANC-MW5d	5/11/2018	14:00	15.67	61.15		
ANC-MW5d	6/13/2018	16:41	15.95	60.87		
ANC-MW5d	7/16/2018	14:20	17.88	58.94		
ANC-MW5d	8/22/2018	14:58	18.99	57.83		
ANC-MW5d	9/16/2018	18:31	18.16	58.66		
ANC-MW5d	10/25/2018	15:58	17.42	59.40		
ANC-MW5d	11/13/2018	13:31	17.26	59.56		
ANC-MW5d	12/15/2018	12:04	17.05	59.77		
ANC-MW5d	1/25/2019	14:48	16.73	60.09		
ANC-MW5d	2/25/2019	12:45	15.51	61.31		
ANC-MW5d	3/16/2019	16:54	14.90	61.92		
ANC-MW5d	4/15/2019	13:08	14.98	61.84		
ANC-MW5d	5/22/2019	12:45	14.64	62.18		
ANC-MW5d	6/20/2019	16:19	13.64	63.18		
ANC-MW5d	7/17/2019	12:44	14.66	62.16		
ANC-MW5d	8/16/2019	7:22	16.50	60.32		
ANC-MW5d	9/26/2019	14:43	17.00	59.82		
ANC-MW5d	10/25/2019	11:51	16.25	60.57		
ANC-MW5d	11/12/2019	10:47	17.30	59.52		
ANC-MW5d	12/14/2019	13:33	16.36	60.46		
ANC-MW6s	1/30/2012	14:30	13.72	61.42	<|0.05|	0
ANC-MW6s	2/12/2012	15:47	14.05	61.09	<|0.05|	0
ANC-MW6s	3/5/2012	9:38	14.73	60.41	<|0.05|	0
ANC-MW6s	4/5/2012	17:01	14.05	61.09	0.59	0.03
ANC-MW6s	5/11/2012	13:33	14.73	60.41	<|0.05|	0
ANC-MW6s	6/18/2012	11:58	13.78	61.36	<|0.05|	0
ANC-MW6s	7/9/2012	13:41	13.83	61.31	<|0.05|	0
ANC-MW6s	8/16/2012	9:50	13.89	61.25	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ANC-MW6s	9/17/2012	12:49	13.85	61.29	<|0.05|	0
ANC-MW6s	10/19/2012	13:42	13.22	61.92	<|0.05|	0
ANC-MW6s	12/6/2012	12:40	14.65	60.49	<|0.05|	0
ANC-MW6s	12/28/2012	12:47	14.33	60.81	<|0.05|	0
ANC-MW6s	1/15/2013	15:47	14.25	60.89	<|0.05|	0
ANC-MW6s	2/17/2013	13:15	14.72	60.42	<|0.05|	0
ANC-MW6s	3/21/2013	9:24	14.92	60.22	<|0.05|	0
ANC-MW6s	4/16/2013	13:04	14.96	60.18	<|0.05|	0
ANC-MW6s	5/30/2013	15:28	14.74	60.40	<|0.05|	0
ANC-MW6s	6/17/2013	13:58	14.59	60.55	<|0.05|	0
ANC-MW6s	7/16/2013	13:58	14.56	60.58	0.21	0.01
ANC-MW6s	8/27/2013	15:31	14.78	60.36	<|0.05|	0
ANC-MW6s	9/9/2013	14:48	14.81	60.33	<|0.05|	0
ANC-MW6s	10/7/2013	15:41	15.03	60.11	<|0.05|	0
ANC-MW6s	11/14/2013	13:04	15.21	59.93	<|0.05|	0
ANC-MW6s	12/17/2013	14:46	15.15	59.99	0.05	0.00
ANC-MW6s	1/13/2014	14:17	15.49	59.65	<|0.05|	0
ANC-MW6s	2/20/2014	13:47	15.85	59.29	<|0.05|	0
ANC-MW6s	3/16/2014	14:39	15.86	59.28	0.05	0.00
ANC-MW6s	4/19/2014	18:13	15.94	59.20	<|0.05|	0
ANC-MW6s	5/21/2014	16:46	15.50	59.64	<|0.05|	0
ANC-MW6s	6/19/2014	14:29	15.49	59.65	<|0.05|	0
ANC-MW6s	7/17/2014	13:08	16.61	58.53	<|0.05|	0
ANC-MW6s	8/21/2014	17:11	17.00	58.14	<|0.05|	0
ANC-MW6s	9/22/2014	14:02	16.88	58.26	<|0.05|	0
ANC-MW6s	10/14/2014	15:07	16.79	58.35	<|0.05|	0
ANC-MW6s	11/7/2014	12:17	16.77	58.37	<|0.05|	0
ANC-MW6s	12/14/2014	16:31	16.62	58.52	<|0.05|	0
ANC-MW6s	1/12/2015	18:17	15.92	59.22	<|0.05|	0
ANC-MW6s	2/6/2015	12:02	16.12	59.02	<|0.05|	0
ANC-MW6s	3/13/2015	15:26	17.03	58.11	0.10	0.01
ANC-MW6s	4/17/2015	13:12	16.31	58.83	<|0.05|	0
ANC-MW6s	5/13/2015	15:32	16.60	58.54	0.07	0.00
ANC-MW6s	6/4/2015	13:19	17.35	57.79	<|0.05|	0
ANC-MW6s	7/21/2015	15:19	18.67	56.47	<|0.05|	0
ANC-MW6s	8/19/2015	11:51	19.65	55.49	<|0.05|	0
ANC-MW6s	9/14/2015	15:08	19.52	55.62	<|0.05|	0
ANC-MW6s	10/16/2015	14:53	19.34	55.80	<|0.05|	0
ANC-MW6s	11/17/2015	12:40	18.60	56.54	<|0.05|	0
ANC-MW6s	12/23/2015	16:35	18.50	56.64	<|0.05|	0
ANC-MW6s	1/15/2016	17:00	18.22	56.92	<|0.05|	0
ANC-MW6s	2/23/2016	11:25	17.44	57.70	<|0.05|	0
ANC-MW6s	3/18/2016	14:49	17.12	58.02	<|0.05|	0
ANC-MW6s	4/18/2016	15:38	16.97	58.17	<|0.05|	0
ANC-MW6s	5/18/2016	15:37	16.64	58.50	0.20	0.01
ANC-MW6s	6/16/2016	14:33	17.31	57.83	<|0.05|	0
ANC-MW6s	7/21/2016	15:05	17.47	57.67	<|0.05|	0
ANC-MW6s	8/19/2016	8:16	18.15	56.99	0.05	0.00
ANC-MW6s	9/15/2016	15:52	18.03	57.11	<|0.05|	0
ANC-MW6s	10/14/2016	15:18	17.45	57.69	<|0.05|	0
ANC-MW6s	11/22/2016	7:38	17.20	57.94	<|0.05|	0
ANC-MW6s	12/12/2016	16:15	16.98	58.16	0.14	0.01
ANC-MW6s	1/25/2017	16:22	15.44	59.70	<|0.05|	0
ANC-MW6s	2/1/2017		N/M			
ANC-MW6s	3/15/2017	12:42	10.17	64.97	<|0.05|	0
ANC-MW6s	4/20/2017	15:38	9.27	65.87	<|0.05|	0
ANC-MW6s	5/18/2017	15:23	9.48	65.66	<|0.05|	0
ANC-MW6s	6/23/2017	12:10	9.69	65.45	<|0.05|	0
ANC-MW6s	7/14/2017	14:59	9.91	65.23	<|0.05|	0
ANC-MW6s	8/28/2017	13:12	10.77	64.37	<|0.05|	0
ANC-MW6s	9/22/2017	16:36	12.03	63.11	<|0.05|	0
ANC-MW6s	10/19/2017	15:59	12.81	62.33	<|0.05|	0
ANC-MW6s	11/22/2017	12:24	13.41	61.73	-0.08	-0.00
ANC-MW6s	12/21/2017	16:24	13.86	61.28	<|0.05|	0
ANC-MW6s	1/23/2018	16:34	13.80	61.34	<|0.05|	0
ANC-MW6s	2/21/2018	14:45	14.21	60.93	<|0.05|	0
ANC-MW6s	3/1/2018		N/M			
ANC-MW6s	4/24/2018	13:19	13.39	61.75	<|0.05|	0
ANC-MW6s	5/11/2018	14:15	13.73	61.41	<|0.05|	0
ANC-MW6s	6/13/2018	16:31	13.71	61.43	<|0.05|	0
ANC-MW6s	7/16/2018	14:09	15.32	59.82	<|0.05|	0
ANC-MW6s	8/22/2018	15:17	16.84	58.30	0.11	0.01
ANC-MW6s	9/16/2018	18:20	16.48	58.66	<|0.05|	0
ANC-MW6s	10/25/2018	16:18	15.78	59.36	<|0.05|	0
ANC-MW6s	11/13/2018	13:13	15.71	59.43	<|0.05|	0
ANC-MW6s	12/15/2018	11:53	15.40	59.74	<|0.05|	0
ANC-MW6s	1/25/2019	14:35	14.94	60.20	<|0.05|	0
ANC-MW6s	2/25/2019	12:55	13.56	61.58	<|0.05|	0
ANC-MW6s	3/16/2019	16:49	12.82	62.32	<|0.05|	0
ANC-MW6s	4/15/2019	12:52	12.97	62.17	<|0.05|	0
ANC-MW6s	5/22/2019	13:01	12.50	62.64	<|0.05|	0
ANC-MW6s	6/20/2019	16:08	11.14	64.00	<|0.05|	0
ANC-MW6s	7/17/2019	12:21	13.11	62.03	<|0.05|	0
ANC-MW6s	8/16/2019	7:40	15.04	60.10	<|0.05|	0
ANC-MW6s	9/26/2019	14:25	15.33	59.81	<|0.05|	0
ANC-MW6s	10/25/2019	11:37	14.92	60.22	<|0.05|	0
ANC-MW6s	11/12/2019	11:03	15.75	59.39	<|0.05|	0
ANC-MW6s	12/14/2019	13:23	15.04	60.10	<|0.05|	0
ANC-MW6d	1/30/2012	14:33	13.62	61.41		
ANC-MW6d	2/12/2012	15:48	13.94	61.09		
ANC-MW6d	3/5/2012	9:37	14.60	60.43		
ANC-MW6d	4/5/2012	17:00	14.53	60.50		
ANC-MW6d	5/11/2012	13:35	14.63	60.40		
ANC-MW6d	6/18/2012	11:57	13.68	61.35		
ANC-MW6d	7/9/2012	13:41	13.73	61.30		
ANC-MW6d	8/16/2012	9:50	13.82	61.21		
ANC-MW6d	9/17/2012	12:49	13.75	61.28		
ANC-MW6d	10/19/2012	13:42	13.11	61.92		
ANC-MW6d	12/6/2012	12:40	14.58	60.45		
ANC-MW6d	12/28/2012	12:48	14.24	60.79		
ANC-MW6d	1/15/2013	15:48	14.15	60.88		
ANC-MW6d	2/17/2013	13:16	14.61	60.42		
ANC-MW6d	3/21/2013	9:24	14.82	60.21		
ANC-MW6d	4/16/2013	13:04	14.89	60.14		
ANC-MW6d	5/30/2013	15:28	14.65	60.38		
ANC-MW6d	6/17/2013	13:59	14.48	60.55		
ANC-MW6d	7/16/2013	13:58	14.66	60.37		
ANC-MW6d	8/27/2013	15:31	14.66	60.37		
ANC-MW6d	9/9/2013	14:48	14.73	60.30		
ANC-MW6d	10/7/2013	15:41	14.92	60.11		
ANC-MW6d	11/14/2013	13:04	15.12	59.91		
ANC-MW6d	12/17/2013	14:46	15.09	59.94		
ANC-MW6d	1/13/2014	14:17	15.38	59.65		
ANC-MW6d	2/20/2014	13:47	15.73	59.30		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ANC-MW6d	3/16/2014	14:39	15.80	59.23		
ANC-MW6d	4/19/2014	18:13	15.85	59.18		
ANC-MW6d	5/21/2014	16:46	15.41	59.62		
ANC-MW6d	6/19/2014	14:29	15.42	59.61		
ANC-MW6d	7/17/2014	13:08	16.53	58.50		
ANC-MW6d	8/21/2014	17:11	16.90	58.13		
ANC-MW6d	9/22/2014	14:02	16.76	58.27		
ANC-MW6d	10/14/2014	15:07	16.68	58.35		
ANC-MW6d	11/7/2014	12:17	16.62	58.41		
ANC-MW6d	12/14/2014	16:31	16.49	58.54		
ANC-MW6d	1/12/2015	18:17	15.83	59.20		
ANC-MW6d	2/6/2015	12:02	16.02	59.01		
ANC-MW6d	3/13/2015	15:26	17.02	58.01		
ANC-MW6d	4/17/2015	13:13	16.16	58.87		
ANC-MW6d	5/13/2015	15:32	16.56	58.47		
ANC-MW6d	6/4/2015	13:19	17.28	57.75		
ANC-MW6d	7/21/2015	15:19	18.57	56.46		
ANC-MW6d	8/19/2015	11:52	19.57	55.46		
ANC-MW6d	9/14/2015	15:09	19.42	55.61		
ANC-MW6d	10/16/2015	14:54	19.20	55.83		
ANC-MW6d	11/17/2015	12:41	18.47	56.56		
ANC-MW6d	12/23/2015	16:36	18.36	56.67		
ANC-MW6d	1/15/2016	17:01	18.13	56.90		
ANC-MW6d	2/23/2016	11:26	17.31	57.72		
ANC-MW6d	3/18/2016	14:49	17.03	58.00		
ANC-MW6d	4/18/2016	15:38	16.86	58.17		
ANC-MW6d	5/18/2016	15:37	16.73	58.30		
ANC-MW6d	6/16/2016	14:34	17.22	57.81		
ANC-MW6d	7/21/2016	15:05	17.40	57.63		
ANC-MW6d	8/19/2016	8:16	18.09	56.94		
ANC-MW6d	9/15/2016	15:53	17.96	57.07		
ANC-MW6d	10/14/2016	15:18	17.38	57.65		
ANC-MW6d	11/22/2016	7:38	17.10	57.93		
ANC-MW6d	12/12/2016	16:16	17.01	58.02		
ANC-MW6d	1/25/2017	16:23	15.36	59.67		
ANC-MW6d	2/1/2017		N/M			
ANC-MW6d	3/15/2017	12:42	10.03	65.00		
ANC-MW6d	4/20/2017	15:39	9.18	65.85		
ANC-MW6d	5/18/2017	15:22	9.39	65.64		
ANC-MW6d	6/23/2017	12:10	9.57	65.46		
ANC-MW6d	7/14/2017	15:00	9.82	65.21		
ANC-MW6d	8/28/2017	13:13	10.68	64.35		
ANC-MW6d	9/22/2017	16:37	11.94	63.09		
ANC-MW6d	10/19/2017	15:59	12.70	62.33		
ANC-MW6d	11/22/2017	12:24	13.22	61.81		
ANC-MW6d	12/21/2017	16:25	13.75	61.28		
ANC-MW6d	1/23/2018	16:35	13.72	61.31		
ANC-MW6d	2/21/2018	14:48	14.13	60.90		
ANC-MW6d	3/1/2018		N/M			
ANC-MW6d	4/24/2018	13:19	13.33	61.70		
ANC-MW6d	5/11/2018	14:16	13.65	61.38		
ANC-MW6d	6/13/2018	16:32	13.64	61.39		
ANC-MW6d	7/16/2018	14:10	15.25	59.78		
ANC-MW6d	8/22/2018	15:17	16.84	58.19		
ANC-MW6d	9/16/2018	18:20	16.40	58.63		
ANC-MW6d	10/25/2018	16:18	15.62	59.41		
ANC-MW6d	11/13/2018	13:14	15.61	59.42		
ANC-MW6d	12/15/2018	11:54	15.30	59.73		
ANC-MW6d	1/25/2019	14:36	14.84	60.19		
ANC-MW6d	2/25/2019	12:55	13.50	61.53		
ANC-MW6d	3/16/2019	16:50	12.67	62.36		
ANC-MW6d	4/15/2019	12:52	12.87	62.16		
ANC-MW6d	5/22/2019	13:01	12.41	62.62		
ANC-MW6d	6/20/2019	16:09	11.04	63.99		
ANC-MW6d	7/17/2019	12:21	13.00	62.03		
ANC-MW6d	8/16/2019	7:40	14.94	60.09		
ANC-MW6d	9/26/2019	14:25	15.24	59.79		
ANC-MW6d	10/25/2019	11:37	14.82	60.21		
ANC-MW6d	11/12/2019	11:03	15.68	59.35		
ANC-MW6d	12/14/2019	13:24	14.92	60.11		
ANC-MW7s	1/30/2012	14:40	13.13	62.59	<|0.05|	0
ANC-MW7s	2/12/2012	15:20	13.67	62.05	<|0.05|	0
ANC-MW7s	3/5/2012	9:35	14.30	61.42	<|0.05|	0
ANC-MW7s	4/5/2012	16:49	14.53	61.19	<|0.05|	0
ANC-MW7s	5/11/2012	13:20	14.95	60.77	<|0.05|	0
ANC-MW7s	6/18/2012	11:55	13.48	62.24	<|0.05|	0
ANC-MW7s	7/9/2012	13:39	12.69	63.03	<|0.05|	0
ANC-MW7s	8/16/2012	9:45	12.39	63.33	<|0.05|	0
ANC-MW7s	9/17/2012	12:47	13.10	62.62	<|0.05|	0
ANC-MW7s	10/19/2012	13:40	12.19	63.53	<|0.05|	0
ANC-MW7s	12/6/2012	12:42	14.34	61.38	<|0.05|	0
ANC-MW7s	12/28/2012	12:43	14.27	61.45	<|0.05|	0
ANC-MW7s	1/15/2013	15:44	14.14	61.58	<|0.05|	0
ANC-MW7s	2/17/2013	13:19	14.54	61.18	<|0.05|	0
ANC-MW7s	3/21/2013	9:29	14.43	61.29	0.06	0.00
ANC-MW7s	4/16/2013	13:06	14.90	60.82	<|0.05|	0
ANC-MW7s	5/30/2013	15:33	14.22	61.50	<|0.05|	0
ANC-MW7s	6/17/2013	14:01	13.31	62.41	<|0.05|	0
ANC-MW7s	7/16/2013	14:02	14.41	61.31	<|0.05|	0
ANC-MW7s	8/27/2013	15:36	13.79	61.93	<|0.05|	0
ANC-MW7s	9/9/2013	14:42	14.35	61.37	<|0.05|	0
ANC-MW7s	10/7/2013	15:45	14.73	60.99	<|0.05|	0
ANC-MW7s	11/14/2013	13:00	14.83	60.89	<|0.05|	0
ANC-MW7s	12/17/2013	14:49	14.90	60.82	<|0.05|	0
ANC-MW7s	1/13/2014	14:20	15.32	60.40	<|0.05|	0
ANC-MW7s	2/20/2014	13:51	15.72	60.00	<|0.05|	0
ANC-MW7s	3/16/2014	14:41	16.57	59.15	0.22	0.01
ANC-MW7s	4/19/2014	18:15	15.80	59.92	<|0.05|	0
ANC-MW7s	5/21/2014	16:49	15.16	60.56	<|0.05|	0
ANC-MW7s	6/19/2014	14:32	14.96	60.76	<|0.05|	0
ANC-MW7s	7/17/2014	13:11	16.62	59.10	<|0.05|	0
ANC-MW7s	8/21/2014	17:19	17.24	58.48	<|0.05|	0
ANC-MW7s	9/22/2014	14:06	16.72	59.00	<|0.05|	0
ANC-MW7s	10/14/2014	15:10	16.46	59.26	<|0.05|	0
ANC-MW7s	11/7/2014	12:20	16.30	59.42	<|0.05|	0
ANC-MW7s	12/14/2014	16:35	16.58	59.14	<|0.05|	0
ANC-MW7s	1/12/2015	18:20	15.84	59.88	<|0.05|	0
ANC-MW7s	2/6/2015	12:00	18.42	57.30	0.26	0.01
ANC-MW7s	3/13/2015	15:29	16.94	58.78	<|0.05|	0
ANC-MW7s	4/17/2015	13:16	16.00	59.72	<|0.05|	0
ANC-MW7s	5/13/2015	15:35	16.42	59.30	<|0.05|	0
ANC-MW7s	6/4/2015	13:14	17.02	58.70	0.08	0.00
ANC-MW7s	7/21/2015	15:22	18.24	57.48	<|0.05|	0
ANC-MW7s	8/19/2015	11:47	19.64	56.08	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ANC-MW7s	9/14/2015	15:04	19.35	56.37	<|0.05|	0
ANC-MW7s	10/16/2015	14:48	19.26	56.46	<|0.05|	0
ANC-MW7s	11/17/2015	12:37	18.68	57.04	<|0.05|	0
ANC-MW7s	12/23/2015	16:31	18.66	57.06	<|0.05|	0
ANC-MW7s	1/15/2016	16:58	18.50	57.22	<|0.05|	0
ANC-MW7s	2/23/2016	11:22	17.80	57.92	<|0.05|	0
ANC-MW7s	3/18/2016	14:51	17.56	58.16	<|0.05|	0
ANC-MW7s	4/18/2016	15:41	17.37	58.35	<|0.05|	0
ANC-MW7s	5/18/2016	15:40	16.87	58.85	<|0.05|	0
ANC-MW7s	6/16/2016	14:29	17.04	58.68	<|0.05|	0
ANC-MW7s	7/21/2016	15:09	17.88	57.84	<|0.05|	0
ANC-MW7s	8/19/2016	8:13	17.80	57.92	<|0.05|	0
ANC-MW7s	9/15/2016	15:49	17.80	57.92	<|0.05|	0
ANC-MW7s	10/14/2016	15:15	17.57	58.15	<|0.05|	0
ANC-MW7s	11/22/2016	7:41	17.31	58.41	<|0.05|	0
ANC-MW7s	12/12/2016	16:13	17.15	58.57	<|0.05|	0
ANC-MW7s	1/25/2017	16:19	16.12	59.60	<|0.05|	0
ANC-MW7s	2/1/2017		N/M			
ANC-MW7s	3/15/2017	12:40	11.25	64.47	<|0.05|	0
ANC-MW7s	4/20/2017	15:36	9.77	65.95	<|0.05|	0
ANC-MW7s	5/18/2017	15:21	9.80	65.92	<|0.05|	0
ANC-MW7s	6/23/2017	12:06	9.80	65.92	<|0.05|	0
ANC-MW7s	7/14/2017	14:57	9.35	66.37	0.05	0.00
ANC-MW7s	8/28/2017	13:09	11.05	64.67	<|0.05|	0
ANC-MW7s	9/22/2017	16:33	11.16	64.56	<|0.05|	0
ANC-MW7s	10/19/2017	15:57	12.57	63.15	<|0.05|	0
ANC-MW7s	11/22/2017	12:28	13.25	62.47	<|0.05|	0
ANC-MW7s	12/21/2017	16:22	13.72	62.00	<|0.05|	0
ANC-MW7s	1/23/2018	16:29	13.73	61.99	<|0.05|	0
ANC-MW7s	2/21/2018	14:43	14.18	61.54	0.07	0.00
ANC-MW7s	3/1/2018		N/M			
ANC-MW7s	4/24/2018	13:22	13.62	62.10	<|0.05|	0
ANC-MW7s	5/11/2018	14:20	13.13	62.59	0.07	0.00
ANC-MW7s	6/13/2018	16:29	13.51	62.21	0.11	0.01
ANC-MW7s	7/16/2018	14:07	15.90	59.82	<|0.05|	0
ANC-MW7s	8/22/2018	15:20	17.43	58.29	<|0.05|	0
ANC-MW7s	9/16/2018	18:18	16.89	58.83	<|0.05|	0
ANC-MW7s	10/25/2018	16:23	15.70	60.02	<|0.05|	0
ANC-MW7s	11/13/2018	13:11	15.66	60.06	0.09	0.00
ANC-MW7s	12/15/2018	11:51	15.42	60.30	<|0.05|	0
ANC-MW7s	1/25/2019	14:32	15.02	60.70	<|0.05|	0
ANC-MW7s	2/25/2019	12:58	13.69	62.03	<|0.05|	0
ANC-MW7s	3/16/2019	16:47	13.10	62.62	<|0.05|	0
ANC-MW7s	4/15/2019	12:47	12.91	62.81	<|0.05|	0
ANC-MW7s	5/22/2019	13:04	12.58	63.14	<|0.05|	0
ANC-MW7s	6/20/2019	16:06	11.58	64.14	<|0.05|	0
ANC-MW7s	7/17/2019	12:17	12.03	63.69	<|0.05|	0
ANC-MW7s	8/16/2019	7:43	15.40	60.32	<|0.05|	0
ANC-MW7s	9/26/2019	14:21	15.19	60.53	<|0.05|	0
ANC-MW7s	10/25/2019	11:34	14.67	61.05	<|0.05|	0
ANC-MW7s	11/12/2019	11:06	16.33	59.39	<|0.05|	0
ANC-MW7s	12/14/2019	13:21	14.90	60.82	<|0.05|	0
ANC-MW7d	1/30/2012	14:42	13.04	62.58		
ANC-MW7d	2/12/2012	15:21	13.58	62.04		
ANC-MW7d	3/5/2012	9:34	14.18	61.44		
ANC-MW7d	4/5/2012	16:49	14.45	61.17		
ANC-MW7d	5/11/2012	13:21	14.85	60.77		
ANC-MW7d	6/18/2012	11:54	13.38	62.24		
ANC-MW7d	7/9/2012	13:38	12.60	63.02		
ANC-MW7d	8/16/2012	9:46	12.29	63.33		
ANC-MW7d	9/17/2012	12:47	13.00	62.62		
ANC-MW7d	10/19/2012	13:40	12.10	63.52		
ANC-MW7d	12/6/2012	12:42	14.22	61.40		
ANC-MW7d	12/28/2012	12:44	14.15	61.47		
ANC-MW7d	1/15/2013	15:45	14.03	61.59		
ANC-MW7d	2/17/2013	13:20	14.43	61.19		
ANC-MW7d	3/21/2013	9:29	14.39	61.23		
ANC-MW7d	4/16/2013	13:06	14.78	60.84		
ANC-MW7d	5/30/2013	15:33	14.10	61.52		
ANC-MW7d	6/17/2013	14:03	13.21	62.41		
ANC-MW7d	7/16/2013	14:02	14.32	61.30		
ANC-MW7d	8/27/2013	15:36	13.70	61.92		
ANC-MW7d	9/9/2013	14:42	14.25	61.37		
ANC-MW7d	10/7/2013	15:45	14.64	60.98		
ANC-MW7d	11/14/2013	13:00	14.73	60.89		
ANC-MW7d	12/17/2013	14:49	14.78	60.84		
ANC-MW7d	1/13/2014	14:20	15.20	60.42		
ANC-MW7d	2/20/2014	13:51	15.61	60.01		
ANC-MW7d	3/16/2014	14:41	16.69	58.93		
ANC-MW7d	4/19/2014	18:15	15.70	59.92		
ANC-MW7d	5/21/2014	16:49	15.08	60.54		
ANC-MW7d	6/19/2014	14:32	14.89	60.73		
ANC-MW7d	7/17/2014	13:11	16.53	59.09		
ANC-MW7d	8/21/2014	17:19	17.13	58.49		
ANC-MW7d	9/22/2014	14:06	16.63	58.99		
ANC-MW7d	10/14/2014	15:10	16.35	59.27		
ANC-MW7d	11/7/2014	12:20	16.19	59.43		
ANC-MW7d	12/14/2014	16:35	16.48	59.14		
ANC-MW7d	1/12/2015	18:20	15.75	59.87		
ANC-MW7d	2/6/2015	12:00	18.58	57.04		
ANC-MW7d	3/13/2015	15:29	16.86	58.76		
ANC-MW7d	4/17/2015	13:16	15.89	59.73		
ANC-MW7d	5/13/2015	15:35	16.33	59.29		
ANC-MW7d	6/4/2015	13:14	17.00	58.62		
ANC-MW7d	7/21/2015	15:22	18.17	57.45		
ANC-MW7d	8/19/2015	11:48	19.55	56.07		
ANC-MW7d	9/14/2015	15:05	19.26	56.36		
ANC-MW7d	10/16/2015	14:49	19.15	56.47		
ANC-MW7d	11/17/2015	12:38	18.56	57.06		
ANC-MW7d	12/23/2015	16:32	18.58	57.04		
ANC-MW7d	1/15/2016	16:59	18.40	57.22		
ANC-MW7d	2/23/2016	11:23	17.70	57.92		
ANC-MW7d	3/18/2016	14:51	17.43	58.19		
ANC-MW7d	4/18/2016	15:41	17.25	58.37		
ANC-MW7d	5/18/2016	15:40	16.78	58.84		
ANC-MW7d	6/16/2016	14:30	16.94	58.68		
ANC-MW7d	7/21/2016	15:09	17.77	57.85		
ANC-MW7d	8/19/2016	8:13	17.74	57.88		
ANC-MW7d	9/15/2016	15:50	17.72	57.90		
ANC-MW7d	10/14/2016	15:15	17.45	58.17		
ANC-MW7d	11/22/2016	7:41	17.21	58.41		
ANC-MW7d	12/12/2016	16:14	17.03	58.59		
ANC-MW7d	1/25/2017	16:20	15.98	59.64		
ANC-MW7d	2/1/2017		N/M			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ANC-MW7d	3/15/2017	12:40	11.13	64.49		
ANC-MW7d	4/20/2017	15:37	9.70	65.92		
ANC-MW7d	5/18/2017	15:20	9.71	65.91		
ANC-MW7d	6/23/2017	12:06	9.69	65.93		
ANC-MW7d	7/14/2017	14:58	9.30	66.32		
ANC-MW7d	8/28/2017	13:09	10.96	64.66		
ANC-MW7d	9/22/2017	16:34	11.04	64.58		
ANC-MW7d	10/19/2017	15:58	12.46	63.16		
ANC-MW7d	11/22/2017	12:28	13.14	62.48		
ANC-MW7d	12/21/2017	16:23	13.64	61.98		
ANC-MW7d	1/23/2018	16:30	13.65	61.97		
ANC-MW7d	2/21/2018	14:44	14.15	61.47		
ANC-MW7d	3/1/2018		N/M			
ANC-MW7d	4/24/2018	13:22	13.53	62.09		
ANC-MW7d	5/11/2018	14:21	13.10	62.52		
ANC-MW7d	6/13/2018	16:30	13.52	62.10		
ANC-MW7d	7/16/2018	14:07	15.83	59.79		
ANC-MW7d	8/22/2018	15:20	17.32	58.30		
ANC-MW7d	9/16/2018	18:18	16.76	58.86		
ANC-MW7d	10/25/2018	16:23	15.60	60.02		
ANC-MW7d	11/13/2018	13:12	15.65	59.97		
ANC-MW7d	12/15/2018	11:52	15.31	60.31		
ANC-MW7d	1/25/2019	14:33	14.94	60.68		
ANC-MW7d	2/25/2019	12:59	13.59	62.03		
ANC-MW7d	3/16/2019	16:47	12.99	62.63		
ANC-MW7d	4/15/2019	12:47	12.80	62.82		
ANC-MW7d	5/22/2019	13:04	12.48	63.14		
ANC-MW7d	6/20/2019	16:07	11.49	64.13		
ANC-MW7d	7/17/2019	12:17	11.92	63.70		
ANC-MW7d	8/16/2019	7:43	15.33	60.29		
ANC-MW7d	9/26/2019	14:21	15.12	60.50		
ANC-MW7d	10/25/2019	11:34	14.58	61.04		
ANC-MW7d	11/12/2019	11:06	16.22	59.40		
ANC-MW7d	12/14/2019	13:22	14.80	60.82		
BET-MW1s	1/29/2012	9:58	10.05	94.10	<|0.05|	0
BET-MW1s	2/8/2012	12:56	10.00	94.15	-0.10	-0.01
BET-MW1s	3/5/2012	14:12	10.67	93.48	<|0.05|	0
BET-MW1s	4/5/2012	12:50	10.37	93.78	<|0.05|	0
BET-MW1s	5/10/2012	13:08	13.36	90.79	<|0.05|	0
BET-MW1s	6/18/2012	13:59	14.93	89.22	<|0.05|	0
BET-MW1s	7/11/2012	9:21	16.18	87.97	<|0.05|	0
BET-MW1s	8/14/2012	10:44	15.69	88.46	<|0.05|	0
BET-MW1s	9/18/2012	8:55	14.74	89.41	<|0.05|	0
BET-MW1s	10/19/2012	12:57	13.80	90.35	<|0.05|	0
BET-MW1s	12/7/2012	11:09	13.80	90.35	<|0.05|	0
BET-MW1s	12/28/2012	14:16	12.38	91.77	<|0.05|	0
BET-MW1s	1/16/2013	12:11	11.76	92.39	<|0.05|	0
BET-MW1s	2/16/2013	17:18	12.70	91.45	<|0.05|	0
BET-MW1s	3/21/2013	11:57	13.51	90.64	<|0.05|	0
BET-MW1s	4/16/2013	15:33	14.39	89.76	<|0.05|	0
BET-MW1s	5/30/2013	11:03	15.28	88.87	<|0.05|	0
BET-MW1s	6/17/2013	11:08	16.79	87.36	<|0.05|	0
BET-MW1s	7/16/2013	10:26	18.05	86.10	<|0.05|	0
BET-MW1s	8/26/2013	12:05	18.25	85.90	<|0.05|	0
BET-MW1s	9/9/2013	16:31	18.56	85.59	-0.27	-0.02
BET-MW1s	10/7/2013	17:41	18.00	86.15	<|0.05|	0
BET-MW1s	11/15/2013	8:21	16.89	87.26	-0.06	-0.00
BET-MW1s	12/17/2013	16:38	16.36	87.79	<|0.05|	0
BET-MW1s	1/13/2014	16:05	17.85	86.30	<|0.05|	0
BET-MW1s	2/24/2014	13:15	17.86	86.29	<|0.05|	0
BET-MW1s	3/16/2014	16:39	17.50	86.65	<|0.05|	0
BET-MW1s	4/19/2014	15:45	18.92	85.23	<|0.05|	0
BET-MW1s	5/23/2014	7:08	Dry			
BET-MW1s	6/19/2014	16:40	Dry			
BET-MW1s	7/17/2014	15:02	Dry			
BET-MW1s	8/25/2014	13:23	Dry			
BET-MW1s	9/22/2014	16:07	20.93	83.22	<|0.05|	0
BET-MW1s	10/14/2014	17:04	20.11	84.04	<|0.05|	0
BET-MW1s	11/11/2014	8:58	19.30	84.85	<|0.05|	0
BET-MW1s	12/15/2014	13:43	18.33	85.82	<|0.05|	0
BET-MW1s	1/12/2015	19:32	17.89	86.26	<|0.05|	0
BET-MW1s	2/10/2015	8:21	18.89	85.26		
BET-MW1s	3/13/2015	17:12	18.42	85.73	<|0.05|	0
BET-MW1s	4/17/2015	15:28	19.44	84.71	<|0.05|	0
BET-MW1s	5/14/2015	17:18	21.62	82.53	-0.08	-0.01
BET-MW1s	6/5/2015	10:52	Dry			
BET-MW1s	7/13/2015	16:20	Dry			
BET-MW1s	8/18/2015	12:25	21.85	82.30	<|0.05|	0
BET-MW1s	9/14/2015	12:10	20.23	83.92	<|0.05|	0
BET-MW1s	10/16/2015	12:10	19.16	84.99	<|0.05|	0
BET-MW1s	11/11/2015	10:44	19.16	84.99	<|0.05|	0
BET-MW1s	12/23/2015	14:17	18.96	85.19	<|0.05|	0
BET-MW1s	1/15/2016	14:53	18.79	85.36	<|0.05|	0
BET-MW1s	2/18/2016	17:03	19.05	85.10	<|0.05|	0
BET-MW1s	3/18/2016	16:42	18.89	85.26	<|0.05|	0
BET-MW1s	4/18/2016	17:41	18.62	85.53	<|0.05|	0
BET-MW1s	5/19/2016	12:02	18.33	85.82	<|0.05|	0
BET-MW1s	6/16/2016	12:07	21.08	83.07	<|0.05|	0
BET-MW1s	7/21/2016	17:03	21.57	82.58	<|0.05|	0
BET-MW1s	8/19/2016	9:18	20.00	84.15	<|0.05|	0
BET-MW1s	9/15/2016	13:57	18.72	85.43	<|0.05|	0
BET-MW1s	10/14/2016	16:55	17.96	86.19	<|0.05|	0
BET-MW1s	11/22/2016	11:22	16.65	87.50	<|0.05|	0
BET-MW1s	12/12/2016	14:21	16.19	87.96	<|0.05|	0
BET-MW1s	1/25/2017	14:15	15.52	88.63	<|0.05|	0
BET-MW1s	2/1/2017		N/M			
BET-MW1s	3/15/2017	10:34	13.29	90.86	<|0.05|	0
BET-MW1s	4/20/2017	13:52	12.47	91.68	<|0.05|	0
BET-MW1s	5/18/2017	8:51	12.26	91.89	<|0.05|	0
BET-MW1s	6/24/2017	16:37	11.80	92.35	<|0.05|	0
BET-MW1s	7/14/2017	16:26	11.51	92.64	<|0.05|	0
BET-MW1s	8/25/2017	11:08	11.17	92.98	<|0.05|	0
BET-MW1s	9/22/2017	14:40	10.19	93.96	<|0.05|	0
BET-MW1s	10/19/2017	14:22	10.02	94.13	<|0.05|	0
BET-MW1s	11/27/2017	11:37	10.37	93.78	<|0.05|	0
BET-MW1s	12/21/2017	14:40	10.78	93.37	<|0.05|	0
BET-MW1s	1/23/2018	14:33	11.80	92.35	<|0.05|	0
BET-MW1s	2/22/2018	8:10	11.99	92.16	<|0.05|	0
BET-MW1s	3/1/2018		N/M			
BET-MW1s	4/24/2018	15:21	11.91	92.24	<|0.05|	0
BET-MW1s	5/9/2018	15:15	11.78	92.37	<|0.05|	0
BET-MW1s	6/13/2018	14:53	11.88	92.27	<|0.05|	0
BET-MW1s	7/16/2018	12:41	11.35	92.80	<|0.05|	0
BET-MW1s	8/24/2018	10:18	9.72	94.43	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
BET-MW1s	9/16/2018	16:30	8.66	95.49	<|0.05|	0
BET-MW1s	10/25/2018	13:49	10.18	93.97	<|0.05|	0
BET-MW1s	11/12/2018	15:47	10.14	94.01	<|0.05|	0
BET-MW1s	12/15/2018	13:03	10.50	93.65	<|0.05|	0
BET-MW1s	1/25/2019	16:06	9.66	94.49	<|0.05|	0
BET-MW1s	2/21/2019	10:15	9.02	95.13	<|0.05|	0
BET-MW1s	3/16/2019	15:19	8.80	95.35	<|0.05|	0
BET-MW1s	4/16/2019	11:43	8.92	95.23	<|0.05|	0
BET-MW1s	5/17/2019	9:29	9.26	94.89	<|0.05|	0
BET-MW1s	6/20/2019	14:32	8.69	95.46	<|0.05|	0
BET-MW1s	7/18/2019	11:42	8.50	95.65	<|0.05|	0
BET-MW1s	8/16/2019	8:01	10.95	93.20	<|0.05|	0
BET-MW1s	9/27/2019	12:06	11.70	92.45	<|0.05|	0
BET-MW1s	10/28/2019	13:15	12.66	91.49	<|0.05|	0
BET-MW1s	11/11/2019	8:36	12.35	91.80	<|0.05|	0
BET-MW1s	12/14/2019	11:47	12.54	91.61	<|0.05|	0
BET-MW1d	1/29/2012	9:58	9.55	94.10		
BET-MW1d	2/8/2012	12:57	9.40	94.25		
BET-MW1d	3/5/2012	14:13	10.17	93.48		
BET-MW1d	4/5/2012	12:51	9.89	93.76		
BET-MW1d	5/10/2012	13:09	12.90	90.75		
BET-MW1d	6/18/2012	13:58	14.48	89.17		
BET-MW1d	7/11/2012	9:20	15.70	87.95		
BET-MW1d	8/14/2012	10:44	15.20	88.45		
BET-MW1d	9/18/2012	8:55	14.22	89.43		
BET-MW1d	10/19/2012	12:57	13.29	90.36		
BET-MW1d	12/7/2012	11:09	13.29	90.36		
BET-MW1d	12/28/2012	14:17	11.87	91.78		
BET-MW1d	1/16/2013	12:12	11.24	92.41		
BET-MW1d	2/16/2013	17:19	12.21	91.44		
BET-MW1d	3/21/2013	11:57	13.01	90.64		
BET-MW1d	4/16/2013	15:33	13.92	89.73		
BET-MW1d	5/30/2013	11:04	14.80	88.85		
BET-MW1d	6/17/2013	11:10	16.30	87.35		
BET-MW1d	7/16/2013	10:26	17.56	86.09		
BET-MW1d	8/26/2013	12:05	17.75	85.90		
BET-MW1d	9/9/2013	16:31	17.79	85.86		
BET-MW1d	10/7/2013	17:41	17.52	86.13		
BET-MW1d	11/15/2013	8:21	16.33	87.32		
BET-MW1d	12/17/2013	16:38	15.88	87.77		
BET-MW1d	1/13/2014	16:05	17.39	86.26		
BET-MW1d	2/24/2014	13:15	17.33	86.32		
BET-MW1d	3/16/2014	16:39	17.00	86.65		
BET-MW1d	4/19/2014	15:45	18.45	85.20		
BET-MW1d	5/23/2014	7:08	22.10	81.55		
BET-MW1d	6/19/2014	16:40	23.74	79.91		
BET-MW1d	7/17/2014	15:02	23.93	79.72		
BET-MW1d	8/25/2014	13:23	23.33	80.32		
BET-MW1d	9/22/2014	16:07	20.40	83.25		
BET-MW1d	10/14/2014	17:04	19.60	84.05		
BET-MW1d	11/11/2014	8:58	18.76	84.89		
BET-MW1d	12/15/2014	13:43	17.81	85.84		
BET-MW1d	1/12/2015	19:32	17.36	86.29		
BET-MW1d	2/10/2015	8:21	Q/M			
BET-MW1d	3/13/2015	17:12	17.96	85.69		
BET-MW1d	4/17/2015	15:28	18.97	84.68		
BET-MW1d	5/14/2015	17:18	21.04	82.61		
BET-MW1d	6/5/2015	10:52	22.72	80.93		
BET-MW1d	7/13/2015	16:20	21.95	81.70		
BET-MW1d	8/18/2015	12:25	21.37	82.28		
BET-MW1d	9/14/2015	12:11	19.72	83.93		
BET-MW1d	10/16/2015	12:11	18.65	85.00		
BET-MW1d	11/11/2015	10:45	18.65	85.00		
BET-MW1d	12/23/2015	14:18	18.44	85.21		
BET-MW1d	1/15/2016	14:54	18.28	85.37		
BET-MW1d	2/18/2016	17:04	18.54	85.11		
BET-MW1d	3/18/2016	16:42	18.38	85.27		
BET-MW1d	4/18/2016	17:41	18.12	85.53		
BET-MW1d	5/19/2016	12:01	17.83	85.82		
BET-MW1d	6/16/2016	12:08	20.59	83.06		
BET-MW1d	7/21/2016	17:03	21.06	82.59		
BET-MW1d	8/19/2016	9:19	19.52	84.13		
BET-MW1d	9/15/2016	13:58	18.22	85.43		
BET-MW1d	10/14/2016	16:54	17.46	86.19		
BET-MW1d	11/22/2016	11:22	16.13	87.52		
BET-MW1d	12/12/2016	14:22	15.68	87.97		
BET-MW1d	1/25/2017	14:16	15.00	88.65		
BET-MW1d	2/1/2017		N/M			
BET-MW1d	3/15/2017	10:34	12.78	90.87		
BET-MW1d	4/20/2017	13:53	11.96	91.69		
BET-MW1d	5/18/2017	8:52	11.74	91.91		
BET-MW1d	6/24/2017	16:38	11.28	92.37		
BET-MW1d	7/14/2017	16:27	11.03	92.62		
BET-MW1d	8/25/2017	11:09	10.67	92.98		
BET-MW1d	9/22/2017	14:41	9.68	93.97		
BET-MW1d	10/19/2017	14:23	9.53	94.12		
BET-MW1d	11/27/2017	11:37	9.85	93.80		
BET-MW1d	12/21/2017	14:41	10.26	93.39		
BET-MW1d	1/23/2018	14:34	11.32	92.33		
BET-MW1d	2/22/2018	8:11	11.52	92.13		
BET-MW1d	3/1/2018		N/M			
BET-MW1d	4/24/2018	15:22	11.40	92.25		
BET-MW1d	5/9/2018	15:16	11.27	92.38		
BET-MW1d	6/13/2018	14:54	11.36	92.29		
BET-MW1d	7/16/2018	12:42	10.84	92.81		
BET-MW1d	8/24/2018	10:18	9.23	94.42		
BET-MW1d	9/16/2018	16:30	8.18	95.47		
BET-MW1d	10/25/2018	13:48	9.70	93.95		
BET-MW1d	11/12/2018	15:48	9.64	94.01		
BET-MW1d	12/15/2018	13:04	9.97	93.68		
BET-MW1d	1/25/2019	16:07	9.19	94.46		
BET-MW1d	2/21/2019	10:16	8.52	95.13		
BET-MW1d	3/16/2019	15:19	8.30	95.35		
BET-MW1d	4/16/2019	11:43	8.42	95.23		
BET-MW1d	5/17/2019	9:29	8.77	94.88		
BET-MW1d	6/20/2019	14:33	8.21	95.44		
BET-MW1d	7/18/2019	11:42	8.00	95.65		
BET-MW1d	8/16/2019	8:01	10.48	93.17		
BET-MW1d	9/27/2019	12:06	11.21	92.44		
BET-MW1d	10/28/2019	13:16	12.17	91.48		
BET-MW1d	11/11/2019	8:36	11.88	91.77		
BET-MW1d	12/14/2019	11:48	12.02	91.63		
BET-MW2s	1/29/2012	10:02	11.42	94.33	<|0.05|	0
BET-MW2s	2/8/2012	13:14	11.38	94.37	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
BET-MW2s	3/5/2012	14:15	11.89	93.86	<|0.05|	0
BET-MW2s	4/5/2012	12:53	11.43	94.32	<|0.05|	0
BET-MW2s	5/10/2012	13:25	13.79	91.96	<|0.05|	0
BET-MW2s	6/18/2012	13:56	14.85	90.90	<|0.05|	0
BET-MW2s	7/11/2012	9:17	13.85	91.90	<|0.05|	0
BET-MW2s	8/14/2012	10:46	12.60	93.15	-0.07	-0.00
BET-MW2s	9/18/2012	8:52	13.40	92.35	<|0.05|	0
BET-MW2s	10/19/2012	13:03	13.27	92.48	<|0.05|	0
BET-MW2s	12/7/2012	11:04	13.27	92.48	<|0.05|	0
BET-MW2s	12/28/2012	14:09	13.78	91.97	<|0.05|	0
BET-MW2s	1/16/2013	12:08	13.31	92.44	<|0.05|	0
BET-MW2s	2/16/2013	17:22	12.28	93.47	<|0.05|	0
BET-MW2s	3/21/2013	12:00	13.57	92.18	<|0.05|	0
BET-MW2s	4/16/2013	15:30	14.90	90.85	<|0.05|	0
BET-MW2s	5/30/2013	10:57	15.13	90.62	<|0.05|	0
BET-MW2s	6/17/2013	11:13	15.84	89.91	<|0.05|	0
BET-MW2s	7/16/2013	10:23	15.30	90.45	<|0.05|	0
BET-MW2s	8/26/2013	12:01	15.57	90.18	<|0.05|	0
BET-MW2s	9/9/2013	16:26	15.71	90.04	-0.08	-0.01
BET-MW2s	10/7/2013	17:36	16.13	89.62	<|0.05|	0
BET-MW2s	11/15/2013	8:18	16.65	89.10	0.15	0.01
BET-MW2s	12/17/2013	16:33	16.90	88.85	<|0.05|	0
BET-MW2s	1/13/2014	16:03	Dry			
BET-MW2s	2/24/2014	13:11	Dry			
BET-MW2s	3/16/2014	16:36	Dry			
BET-MW2s	4/19/2014	15:41	Dry			
BET-MW2s	5/23/2014	7:11	Dry			
BET-MW2s	6/19/2014	16:37	Dry			
BET-MW2s	7/17/2014	14:59	Dry			
BET-MW2s	8/25/2014	13:27	Dry			
BET-MW2s	9/22/2014	16:04	Dry			
BET-MW2s	10/14/2014	16:59	Dry			
BET-MW2s	11/11/2014	9:02	Dry			
BET-MW2s	12/15/2014	13:40	Dry			
BET-MW2s	1/12/2015	19:29	Dry			
BET-MW2s	2/10/2015	8:17	Dry			
BET-MW2s	3/13/2015	17:08	Dry			
BET-MW2s	4/17/2015	15:25	Dry			
BET-MW2s	5/14/2015	17:16	Dry			
BET-MW2s	6/5/2015	10:49	Dry			
BET-MW2s	7/13/2015	16:18	Dry			
BET-MW2s	8/18/2015	12:18	Dry			
BET-MW2s	9/14/2015	12:06	Dry			
BET-MW2s	10/16/2015	12:05	Dry			
BET-MW2s	11/11/2015	10:39	Dry			
BET-MW2s	12/23/2015	14:14	Dry			
BET-MW2s	1/15/2016	14:49	Dry			
BET-MW2s	2/18/2016	17:00	Dry			
BET-MW2s	3/18/2016	16:37	Dry			
BET-MW2s	4/18/2016	17:38	Dry			
BET-MW2s	5/19/2016	12:03	Dry			
BET-MW2s	6/16/2016	12:10	Dry			
BET-MW2s	7/21/2016	17:00	Dry			
BET-MW2s	8/19/2016	9:21	Dry			
BET-MW2s	9/15/2016	14:02	Dry			
BET-MW2s	10/14/2016	16:50	Dry			
BET-MW2s	11/22/2016	11:20	Dry			
BET-MW2s	12/12/2016	14:24	Dry			
BET-MW2s	1/25/2017	14:11	Dry			
BET-MW2s	2/1/2017		N/M			
BET-MW2s	3/15/2017	10:32	14.78	90.97	<|0.05|	0
BET-MW2s	4/20/2017	13:54	13.80	91.95	<|0.05|	0
BET-MW2s	5/18/2017	8:54	13.80	91.95	<|0.05|	0
BET-MW2s	6/24/2017	16:33	12.93	92.82	-0.05	-0.00
BET-MW2s	7/14/2017	16:21	11.93	93.82	-0.07	-0.00
BET-MW2s	8/25/2017	11:12	9.76	95.99	-0.15	-0.01
BET-MW2s	9/22/2017	14:42	9.78	95.97	<|0.05|	0
BET-MW2s	10/19/2017	14:25	10.60	95.15	<|0.05|	0
BET-MW2s	11/27/2017	11:39	11.29	94.46	<|0.05|	0
BET-MW2s	12/21/2017	14:46	11.97	93.78	<|0.05|	0
BET-MW2s	1/23/2018	14:35	12.34	93.41	<|0.05|	0
BET-MW2s	2/22/2018	8:14	11.46	94.29	<|0.05|	0
BET-MW2s	3/1/2018		N/M			
BET-MW2s	4/24/2018	15:17	13.01	92.74	<|0.05|	0
BET-MW2s	5/9/2018	15:17	13.20	92.55	<|0.05|	0
BET-MW2s	6/13/2018	14:57	13.40	92.35	<|0.05|	0
BET-MW2s	7/16/2018	12:39	12.00	93.75	<|0.05|	0
BET-MW2s	8/24/2018	10:17	9.52	96.23	<|0.05|	0
BET-MW2s	9/16/2018	16:34	8.87	96.88	<|0.05|	0
BET-MW2s	10/25/2018	13:54	10.83	94.92	<|0.05|	0
BET-MW2s	11/12/2018	15:51	10.86	94.89	<|0.05|	0
BET-MW2s	12/15/2018	13:00	11.77	93.98	<|0.05|	0
BET-MW2s	1/25/2019	16:03	10.20	95.55	0.98	0.07
BET-MW2s	2/21/2019	10:18	10.32	95.43	<|0.05|	0
BET-MW2s	3/16/2019	15:23	10.34	95.41	<|0.05|	0
BET-MW2s	4/16/2019	11:40	10.26	95.49	<|0.05|	0
BET-MW2s	5/17/2019	9:32	10.97	94.78	<|0.05|	0
BET-MW2s	6/20/2019	14:35	9.75	96.00	<|0.05|	0
BET-MW2s	7/18/2019	11:39	8.85	96.90	<|0.05|	0
BET-MW2s	8/16/2019	8:06	9.53	96.22	<|0.05|	0
BET-MW2s	9/27/2019	12:02	11.52	94.23	<|0.05|	0
BET-MW2s	10/28/2019	13:12	13.07	92.68	<|0.05|	0
BET-MW2s	11/11/2019	8:40	13.63	92.12	0.05	0.00
BET-MW2s	12/14/2019	11:50	14.13	91.62	<|0.05|	0
BET-MW2d	1/29/2012	10:04	11.10	94.35		
BET-MW2d	2/8/2012	13:15	11.08	94.37		
BET-MW2d	3/5/2012	14:16	11.59	93.86		
BET-MW2d	4/5/2012	12:55	11.13	94.32		
BET-MW2d	5/10/2012	13:26	13.49	91.96		
BET-MW2d	6/18/2012	13:55	14.55	90.90		
BET-MW2d	7/11/2012	9:17	13.54	91.91		
BET-MW2d	8/14/2012	10:46	12.23	93.22		
BET-MW2d	9/18/2012	8:52	13.07	92.38		
BET-MW2d	10/19/2012	13:03	12.97	92.48		
BET-MW2d	12/7/2012	11:04	12.97	92.48		
BET-MW2d	12/28/2012	14:10	13.48	91.97		
BET-MW2d	1/16/2013	12:09	13.01	92.44		
BET-MW2d	2/16/2013	17:23	11.98	93.47		
BET-MW2d	3/21/2013	12:01	13.28	92.17		
BET-MW2d	4/16/2013	15:30	14.61	90.84		
BET-MW2d	5/30/2013	10:58	14.86	90.59		
BET-MW2d	6/17/2013	11:14	15.55	89.90		
BET-MW2d	7/16/2013	10:23	15.01	90.44		
BET-MW2d	8/26/2013	12:01	15.28	90.17		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
BET-MW2d	9/9/2013	16:26	15.33	90.12		
BET-MW2d	10/7/2013	17:36	15.82	89.63		
BET-MW2d	11/15/2013	8:18	16.50	88.95		
BET-MW2d	12/17/2013	16:33	16.61	88.84		
BET-MW2d	1/13/2014	16:03	17.53	87.92		
BET-MW2d	2/24/2014	13:11	18.00	87.45		
BET-MW2d	3/16/2014	16:36	18.06	87.39		
BET-MW2d	4/19/2014	15:41	19.09	86.36		
BET-MW2d	5/23/2014	7:11	20.33	85.12		
BET-MW2d	6/19/2014	16:37	21.93	83.52		
BET-MW2d	7/17/2014	14:59	21.83	83.62		
BET-MW2d	8/25/2014	13:27	20.30	85.15		
BET-MW2d	9/22/2014	16:04	18.28	87.17		
BET-MW2d	10/14/2014	16:59	18.59	86.86		
BET-MW2d	11/11/2014	9:02	18.64	86.81		
BET-MW2d	12/15/2014	13:40	18.87	86.58		
BET-MW2d	1/12/2015	19:29	18.33	87.12		
BET-MW2d	2/10/2015	8:17	18.19	87.26		
BET-MW2d	3/13/2015	17:08	17.67	87.78		
BET-MW2d	4/17/2015	15:25	19.53	85.92		
BET-MW2d	5/14/2015	17:16	20.30	85.15		
BET-MW2d	6/5/2015	10:49	21.18	84.27		
BET-MW2d	7/13/2015	16:17	20.94	84.51		
BET-MW2d	8/18/2015	12:18	18.69	86.76		
BET-MW2d	9/14/2015	12:07	18.73	86.72		
BET-MW2d	10/16/2015	12:06	18.32	87.13		
BET-MW2d	11/11/2015	10:40	19.18	86.27		
BET-MW2d	12/23/2015	14:15	19.74	85.71		
BET-MW2d	1/15/2016	14:50	19.82	85.63		
BET-MW2d	2/18/2016	17:01	19.30	86.15		
BET-MW2d	3/18/2016	16:37	19.53	85.92		
BET-MW2d	4/18/2016	17:38	19.55	85.90		
BET-MW2d	5/19/2016	12:04	19.37	86.08		
BET-MW2d	6/16/2016	12:11	19.88	85.57		
BET-MW2d	7/21/2016	17:00	19.23	86.22		
BET-MW2d	8/19/2016	9:22	17.80	87.65		
BET-MW2d	9/15/2016	14:03	16.89	88.56		
BET-MW2d	10/14/2016	16:51	17.65	87.80		
BET-MW2d	11/22/2016	11:20	17.08	88.37		
BET-MW2d	12/12/2016	14:25	17.02	88.43		
BET-MW2d	1/25/2017	14:12	16.50	88.95		
BET-MW2d	2/1/2017		N/M			
BET-MW2d	3/15/2017	10:32	14.48	90.97		
BET-MW2d	4/20/2017	13:55	13.50	91.95		
BET-MW2d	5/18/2017	8:55	13.50	91.95		
BET-MW2d	6/24/2017	16:34	12.58	92.87		
BET-MW2d	7/14/2017	16:22	11.56	93.89		
BET-MW2d	8/25/2017	11:13	9.31	96.14		
BET-MW2d	9/22/2017	14:43	9.47	95.98		
BET-MW2d	10/19/2017	14:26	10.32	95.13		
BET-MW2d	11/27/2017	11:39	11.02	94.43		
BET-MW2d	12/21/2017	14:47	11.70	93.75		
BET-MW2d	1/23/2018	14:36	12.05	93.40		
BET-MW2d	2/22/2018	8:15	11.12	94.33		
BET-MW2d	3/1/2018		N/M			
BET-MW2d	4/24/2018	15:17	12.76	92.69		
BET-MW2d	5/9/2018	15:18	12.90	92.55		
BET-MW2d	6/13/2018	14:58	13.10	92.35		
BET-MW2d	7/16/2018	12:40	11.69	93.76		
BET-MW2d	8/24/2018	10:17	9.18	96.27		
BET-MW2d	9/16/2018	16:34	8.58	96.87		
BET-MW2d	10/25/2018	13:55	10.56	94.89		
BET-MW2d	11/12/2018	15:52	10.58	94.87		
BET-MW2d	12/15/2018	13:01	11.46	93.99		
BET-MW2d	1/25/2019	16:04	10.88	94.57		
BET-MW2d	2/21/2019	10:19	10.02	95.43		
BET-MW2d	3/16/2019	15:24	10.08	95.37		
BET-MW2d	4/16/2019	11:40	9.96	95.49		
BET-MW2d	5/17/2019	9:32	10.69	94.76		
BET-MW2d	6/20/2019	14:36	9.45	96.00		
BET-MW2d	7/18/2019	11:39	8.50	96.95		
BET-MW2d	8/16/2019	8:06	9.18	96.27		
BET-MW2d	9/27/2019	12:02	11.20	94.25		
BET-MW2d	10/28/2019	13:13	12.74	92.71		
BET-MW2d	11/11/2019	8:40	13.38	92.07		
BET-MW2d	12/14/2019	11:51	13.80	91.65		
BET-MW3s	1/29/2012	10:06	10.10	94.44	<|0.05|	0
BET-MW3s	2/8/2012	13:24	10.07	94.47	<|0.05|	0
BET-MW3s	3/5/2012	14:19	10.70	93.84	<|0.05|	0
BET-MW3s	4/5/2012	12:58	10.22	94.32	<|0.05|	0
BET-MW3s	5/10/2012	13:40	12.34	92.20	<|0.05|	0
BET-MW3s	6/18/2012	13:53	13.35	91.19	<|0.05|	0
BET-MW3s	7/11/2012	9:15	12.20	92.34	<|0.05|	0
BET-MW3s	8/14/2012	10:50	10.90	93.64	<|0.05|	0
BET-MW3s	9/18/2012	8:50	11.31	93.23	<|0.05|	0
BET-MW3s	10/19/2012	13:06	11.73	92.81	<|0.05|	0
BET-MW3s	12/7/2012	11:00	11.73	92.81	<|0.05|	0
BET-MW3s	12/28/2012	14:06	12.52	92.02	<|0.05|	0
BET-MW3s	1/16/2013	12:05	12.03	92.51	<|0.05|	0
BET-MW3s	2/16/2013	17:26	11.07	93.47	<|0.05|	0
BET-MW3s	3/21/2013	12:04	12.19	92.35	<|0.05|	0
BET-MW3s	4/16/2013	15:27	13.38	91.16	<|0.05|	0
BET-MW3s	5/30/2013	10:51	13.65	90.89	<|0.05|	0
BET-MW3s	6/17/2013	11:16	14.16	90.38	<|0.05|	0
BET-MW3s	7/16/2013	10:20	13.45	91.09	<|0.05|	0
BET-MW3s	8/26/2013	11:59	13.60	90.94	<|0.05|	0
BET-MW3s	9/9/2013	16:24	13.70	90.84	<|0.05|	0
BET-MW3s	10/7/2013	17:34	14.34	90.20	<|0.05|	0
BET-MW3s	11/15/2013	8:16	15.17	89.37	<|0.05|	0
BET-MW3s	12/17/2013	16:29	15.42	89.12	<|0.05|	0
BET-MW3s	1/13/2014	15:59	16.26	88.28	<|0.05|	0
BET-MW3s	2/24/2014	13:08	16.81	87.73	<|0.05|	0
BET-MW3s	3/16/2014	16:33	16.93	87.61	<|0.05|	0
BET-MW3s	4/19/2014	15:37	Dry			
BET-MW3s	5/23/2014	7:14	Dry			
BET-MW3s	6/19/2014	16:33	Dry			
BET-MW3s	7/17/2014	14:56	Dry			
BET-MW3s	8/25/2014	13:29	Dry			
BET-MW3s	9/22/2014	16:00	16.72	87.82	<|0.05|	0
BET-MW3s	10/14/2014	16:55	17.33	87.21	<|0.05|	0
BET-MW3s	11/11/2014	9:05	17.33	87.21	<|0.05|	0
BET-MW3s	12/15/2014	13:36	Dry			
BET-MW3s	1/12/2015	19:25	Dry			
BET-MW3s	2/10/2015	8:14	16.94	87.60	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
BET-MW3s	3/13/2015	17:02	16.70	87.84	<|0.05|	0
BET-MW3s	4/17/2015	15:23	Dry			
BET-MW3s	5/14/2015	17:14	Dry			
BET-MW3s	6/5/2015	10:47	Dry			
BET-MW3s	7/13/2015	16:16	Dry			
BET-MW3s	8/18/2015	12:14	Dry			
BET-MW3s	9/14/2015	12:02	17.69	86.85	<|0.05|	0
BET-MW3s	10/16/2015	12:00	17.26	87.28	<|0.05|	0
BET-MW3s	11/11/2015	10:37	Dry			
BET-MW3s	12/23/2015	14:12	Dry			
BET-MW3s	1/15/2016	14:47	Dry			
BET-MW3s	2/18/2016	16:58	Dry			
BET-MW3s	3/18/2016	16:34	Dry			
BET-MW3s	4/18/2016	17:35	Dry			
BET-MW3s	5/19/2016	12:05	Dry			
BET-MW3s	6/16/2016	12:12	Dry			
BET-MW3s	7/21/2016	16:56	Dry			
BET-MW3s	8/19/2016	9:24	16.64	87.90	<|0.05|	0
BET-MW3s	9/15/2016	14:05	15.88	88.66	<|0.05|	0
BET-MW3s	10/14/2016	16:48	16.52	88.02	<|0.05|	0
BET-MW3s	11/22/2016	11:17	15.95	88.59	<|0.05|	0
BET-MW3s	12/12/2016	14:26	15.98	88.56	<|0.05|	0
BET-MW3s	1/25/2017	14:08	15.52	89.02	<|0.05|	0
BET-MW3s	2/1/2017		N/M			
BET-MW3s	3/15/2017	10:30	13.48	91.06	<|0.05|	0
BET-MW3s	4/20/2017	13:57	12.56	91.98	<|0.05|	0
BET-MW3s	5/18/2017	8:57	12.57	91.97	<|0.05|	0
BET-MW3s	6/24/2017	16:31	11.72	92.82	<|0.05|	0
BET-MW3s	7/14/2017	16:19	10.69	93.85	<|0.05|	0
BET-MW3s	8/25/2017	11:15	7.94	96.60	-0.15	-0.01
BET-MW3s	9/22/2017	14:44	8.37	96.17	<|0.05|	0
BET-MW3s	10/19/2017	14:28	9.29	95.25	<|0.05|	0
BET-MW3s	11/27/2017	11:41	10.13	94.41	<|0.05|	0
BET-MW3s	12/21/2017	14:48	10.81	93.73	<|0.05|	0
BET-MW3s	1/23/2018	14:37	11.16	93.38	<|0.05|	0
BET-MW3s	2/22/2018	8:17	10.28	94.26	<|0.05|	0
BET-MW3s	3/1/2018		N/M			
BET-MW3s	4/24/2018	15:14	11.81	92.73	<|0.05|	0
BET-MW3s	5/9/2018	15:20	11.98	92.56	<|0.05|	0
BET-MW3s	6/13/2018	14:59	12.19	92.35	<|0.05|	0
BET-MW3s	7/16/2018	12:38	10.71	93.83	<|0.05|	0
BET-MW3s	8/24/2018	10:16	8.44	96.10	<|0.05|	0
BET-MW3s	9/16/2018	16:37	7.88	96.66	<|0.05|	0
BET-MW3s	10/25/2018	13:56	9.68	94.86	<|0.05|	0
BET-MW3s	11/12/2018	15:53	9.68	94.86	<|0.05|	0
BET-MW3s	12/15/2018	12:58	10.57	93.97	<|0.05|	0
BET-MW3s	1/25/2019	15:56	10.10	94.44	<|0.05|	0
BET-MW3s	2/21/2019	10:21	9.10	95.44	<|0.05|	0
BET-MW3s	3/16/2019	15:26	9.20	95.34	<|0.05|	0
BET-MW3s	4/16/2019	11:37	9.12	95.42	<|0.05|	0
BET-MW3s	5/17/2019	9:35	9.85	94.69	<|0.05|	0
BET-MW3s	6/20/2019	14:37	8.75	95.79	<|0.05|	0
BET-MW3s	7/18/2019	11:36	7.73	96.81	<|0.05|	0
BET-MW3s	8/16/2019	8:10	8.35	96.19	<|0.05|	0
BET-MW3s	9/27/2019	11:58	10.17	94.37	<|0.05|	0
BET-MW3s	10/28/2019	13:07	11.55	92.99	<|0.05|	0
BET-MW3s	11/11/2019	8:46	12.25	92.29	<|0.05|	0
BET-MW3s	12/14/2019	11:52	12.72	91.82	<|0.05|	0
BET-MW3d	1/29/2012	10:06	9.92	94.43		
BET-MW3d	2/8/2012	13:25	9.90	94.45		
BET-MW3d	3/5/2012	14:20	10.50	93.85		
BET-MW3d	4/5/2012	13:00	10.05	94.30		
BET-MW3d	5/10/2012	13:42	12.18	92.17		
BET-MW3d	6/18/2012	13:52	13.18	91.17		
BET-MW3d	7/11/2012	9:15	12.00	92.35		
BET-MW3d	8/14/2012	10:52	10.70	93.65		
BET-MW3d	9/18/2012	8:50	11.09	93.26		
BET-MW3d	10/19/2012	13:06	11.55	92.80		
BET-MW3d	12/7/2012	11:00	11.55	92.80		
BET-MW3d	12/28/2012	14:07	12.33	92.02		
BET-MW3d	1/16/2013	12:06	11.84	92.51		
BET-MW3d	2/16/2013	17:27	10.89	93.46		
BET-MW3d	3/21/2013	12:04	12.02	92.33		
BET-MW3d	4/16/2013	15:27	13.17	91.18		
BET-MW3d	5/30/2013	10:52	13.46	90.89		
BET-MW3d	6/17/2013	11:18	13.98	90.37		
BET-MW3d	7/16/2013	10:20	13.29	91.06		
BET-MW3d	8/26/2013	11:59	13.41	90.94		
BET-MW3d	9/9/2013	16:24	13.53	90.82		
BET-MW3d	10/7/2013	17:34	14.13	90.22		
BET-MW3d	11/15/2013	8:16	14.99	89.36		
BET-MW3d	12/17/2013	16:29	15.23	89.12		
BET-MW3d	1/13/2014	15:59	16.06	88.29		
BET-MW3d	2/24/2014	13:08	16.60	87.75		
BET-MW3d	3/16/2014	16:33	16.70	87.65		
BET-MW3d	4/19/2014	15:37	17.67	86.68		
BET-MW3d	5/23/2014	7:14	18.82	85.53		
BET-MW3d	6/19/2014	16:33	20.18	84.17		
BET-MW3d	7/17/2014	14:56	19.99	84.36		
BET-MW3d	8/25/2014	13:29	18.40	85.95		
BET-MW3d	9/22/2014	16:00	16.50	87.85		
BET-MW3d	10/14/2014	16:55	17.12	87.23		
BET-MW3d	11/11/2014	9:05	17.11	87.24		
BET-MW3d	12/15/2014	13:36	17.52	86.83		
BET-MW3d	1/12/2015	19:25	17.10	87.25		
BET-MW3d	2/10/2015	8:14	16.77	87.58		
BET-MW3d	3/13/2015	17:02	16.52	87.83		
BET-MW3d	4/17/2015	15:23	18.18	86.17		
BET-MW3d	5/14/2015	17:14	18.94	85.41		
BET-MW3d	6/5/2015	10:47	19.75	84.60		
BET-MW3d	7/13/2015	16:15	19.37	84.98		
BET-MW3d	8/18/2015	12:14	18.09	86.26		
BET-MW3d	9/14/2015	12:03	17.51	86.84		
BET-MW3d	10/16/2015	12:01	17.07	87.28		
BET-MW3d	11/11/2015	10:38	17.89	86.46		
BET-MW3d	12/23/2015	14:13	18.56	85.79		
BET-MW3d	1/15/2016	14:48	18.70	85.65		
BET-MW3d	2/18/2016	16:59	18.10	86.25		
BET-MW3d	3/18/2016	16:34	18.34	86.01		
BET-MW3d	4/18/2016	17:35	18.37	85.98		
BET-MW3d	5/19/2016	12:00	18.22	86.13		
BET-MW3d	6/16/2016	12:13	18.50	85.85		
BET-MW3d	7/21/2016	16:56	17.74	86.61		
BET-MW3d	8/19/2016	9:23	16.45	87.90		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
BET-MW3d	9/15/2016	14:06	15.69	88.66		
BET-MW3d	10/14/2016	16:47	16.34	88.01		
BET-MW3d	11/22/2016	11:17	15.75	88.60		
BET-MW3d	12/12/2016	14:27	15.80	88.55		
BET-MW3d	1/25/2017	14:08	15.33	89.02		
BET-MW3d	2/1/2017		N/M			
BET-MW3d	3/15/2017	10:30	13.30	91.05		
BET-MW3d	4/20/2017	13:58	12.37	91.98		
BET-MW3d	5/18/2017	8:58	12.38	91.97		
BET-MW3d	6/24/2017	16:32	11.49	92.86		
BET-MW3d	7/14/2017	16:20	10.46	93.89		
BET-MW3d	8/25/2017	11:16	7.60	96.75		
BET-MW3d	9/22/2017	14:45	8.22	96.13		
BET-MW3d	10/19/2017	14:29	9.13	95.22		
BET-MW3d	11/27/2017	11:41	9.93	94.42		
BET-MW3d	12/21/2017	14:49	10.63	93.72		
BET-MW3d	1/23/2018	14:38	10.96	93.39		
BET-MW3d	2/22/2018	8:18	10.10	94.25		
BET-MW3d	3/1/2018		N/M			
BET-MW3d	4/24/2018	15:14	11.59	92.76		
BET-MW3d	5/9/2018	15:21	11.80	92.55		
BET-MW3d	6/13/2018	15:00	12.00	92.35		
BET-MW3d	7/16/2018	12:39	10.54	93.81		
BET-MW3d	8/24/2018	10:16	8.23	96.12		
BET-MW3d	9/16/2018	16:37	7.66	96.69		
BET-MW3d	10/25/2018	13:57	9.47	94.88		
BET-MW3d	11/12/2018	15:54	9.50	94.85		
BET-MW3d	12/15/2018	12:59	10.37	93.98		
BET-MW3d	1/25/2019	15:57	9.90	94.45		
BET-MW3d	2/21/2019	10:22	8.90	95.45		
BET-MW3d	3/16/2019	15:27	8.99	95.36		
BET-MW3d	4/16/2019	11:37	8.93	95.42		
BET-MW3d	5/17/2019	9:35	9.65	94.70		
BET-MW3d	6/20/2019	14:38	8.56	95.79		
BET-MW3d	7/18/2019	11:36	7.52	96.83		
BET-MW3d	8/16/2019	8:10	8.18	96.17		
BET-MW3d	9/27/2019	11:58	10.00	94.35		
BET-MW3d	10/28/2019	13:08	11.34	93.01		
BET-MW3d	11/11/2019	8:46	12.10	92.25		
BET-MW3d	12/14/2019	11:53	12.57	91.78		
BET-MW4s	1/29/2012	9:50	9.19	94.39	-0.28	-0.02
BET-MW4s	2/8/2012	13:46	8.58	95.00	-0.20	-0.01
BET-MW4s	3/5/2012	14:22	10.19	93.39	<|0.05|	0
BET-MW4s	4/5/2012	13:10	8.52	95.06	1.53	0.08
BET-MW4s	5/10/2012	12:45	14.15	89.43	1.17	0.06
BET-MW4s	6/18/2012	14:06	13.70	89.88	1.30	0.07
BET-MW4s	7/11/2012	9:26	14.77	88.81	1.06	0.06
BET-MW4s	8/14/2012	10:40	13.26	90.32	1.13	0.06
BET-MW4s	9/18/2012	9:00	13.37	90.21	1.00	0.06
BET-MW4s	10/19/2012	12:50	11.50	92.08	-0.19	-0.01
BET-MW4s	12/7/2012	10:57	11.50	92.08	-0.19	-0.01
BET-MW4s	12/28/2012	14:22	9.88	93.70	-0.09	-0.00
BET-MW4s	1/16/2013	12:14	9.50	94.08	-0.11	-0.01
BET-MW4s	2/16/2013	17:12	9.60	93.98	0.10	0.01
BET-MW4s	3/21/2013	11:55	13.70	89.88	1.13	0.06
BET-MW4s	4/16/2013	15:38	14.58	89.00	0.89	0.05
BET-MW4s	5/30/2013	11:11	12.94	90.64	1.18	0.07
BET-MW4s	6/17/2013	11:01	15.17	88.41	1.15	0.06
BET-MW4s	7/16/2013	10:34	15.34	88.24	1.13	0.06
BET-MW4s	8/26/2013	12:13	14.47	89.11	1.16	0.06
BET-MW4s	9/9/2013	16:36	14.56	89.02	1.03	0.06
BET-MW4s	10/7/2013	17:48	16.43	87.15	1.21	0.07
BET-MW4s	11/15/2013	8:27	12.71	90.87	<|0.05|	0
BET-MW4s	12/17/2013	16:43	15.36	88.22	-0.41	-0.02
BET-MW4s	1/13/2014	16:11	17.50	86.08	1.09	0.06
BET-MW4s	2/24/2014	13:02	14.95	88.63	-0.05	-0.00
BET-MW4s	3/16/2014	16:45	17.03	86.55	1.12	0.06
BET-MW4s	4/19/2014	15:50	19.30	84.28	1.13	0.06
BET-MW4s	5/23/2014	7:00	20.58	83.00	1.54	0.09
BET-MW4s	6/19/2014	16:49	22.30	81.28	0.64	0.04
BET-MW4s	7/17/2014	15:08	Dry			
BET-MW4s	8/25/2014	13:16	21.76	81.82	0.78	0.04
BET-MW4s	9/22/2014	16:16	18.75	84.83	-0.60	-0.03
BET-MW4s	10/14/2014	17:10	16.18	87.40	<|0.05|	0
BET-MW4s	11/11/2014	8:55	15.56	88.02	<|0.05|	0
BET-MW4s	12/15/2014	13:31	15.42	88.16	-0.09	-0.00
BET-MW4s	1/12/2015	19:37	15.00	88.58	<|0.05|	0
BET-MW4s	2/10/2015	8:26	15.11	88.47	<|0.05|	0
BET-MW4s	3/13/2015	17:19	18.10	85.48	1.32	0.07
BET-MW4s	4/17/2015	15:36	19.24	84.34	1.33	0.07
BET-MW4s	5/14/2015	17:22	17.51	86.07	0.09	0.00
BET-MW4s	6/5/2015	10:57	18.47	85.11	0.23	0.01
BET-MW4s	7/13/2015	16:22	18.79	84.79	0.07	0.00
BET-MW4s	8/18/2015	12:06	17.24	86.34	0.08	0.00
BET-MW4s	9/14/2015	12:18	16.18	87.40	0.07	0.00
BET-MW4s	10/16/2015	12:16	15.94	87.64	0.10	0.01
BET-MW4s	11/11/2015	10:51	16.15	87.43	<|0.05|	0
BET-MW4s	12/23/2015	14:07	16.58	87.00	<|0.05|	0
BET-MW4s	1/15/2016	14:43	16.72	86.86	<|0.05|	0
BET-MW4s	2/18/2016	16:51	16.76	86.82	<|0.05|	0
BET-MW4s	3/18/2016	16:51	16.67	86.91	<|0.05|	0
BET-MW4s	4/18/2016	17:47	16.92	86.66	-0.06	-0.00
BET-MW4s	5/19/2016	11:56	16.56	87.02	<|0.05|	0
BET-MW4s	6/16/2016	12:01	17.62	85.96	<|0.05|	0
BET-MW4s	7/21/2016	17:10	16.54	87.04	0.12	0.01
BET-MW4s	8/19/2016	9:12	15.10	88.48	0.12	0.01
BET-MW4s	9/15/2016	13:53	14.15	89.43	0.09	0.00
BET-MW4s	10/14/2016	16:57	14.31	89.27	0.06	0.00
BET-MW4s	11/22/2016	11:26	13.49	90.09	<|0.05|	0
BET-MW4s	12/12/2016	14:16	13.48	90.10	<|0.05|	0
BET-MW4s	1/25/2017	13:35	12.90	90.68	<|0.05|	0
BET-MW4s	2/1/2017		N/M			
BET-MW4s	3/15/2017	10:38	11.69	91.89	<|0.05|	0
BET-MW4s	4/20/2017	13:45	10.75	92.83	<|0.05|	0
BET-MW4s	5/18/2017	8:46	10.30	93.28	-0.25	-0.01
BET-MW4s	6/24/2017	16:42	10.11	93.47	-0.10	-0.01
BET-MW4s	7/14/2017	16:31	9.52	94.06	<|0.05|	0
BET-MW4s	8/25/2017	11:03	7.31	96.27	<|0.05|	0
BET-MW4s	9/22/2017	14:35	7.03	96.55	0.12	0.01
BET-MW4s	10/19/2017	14:18	7.45	96.13	0.15	0.01
BET-MW4s	11/27/2017	11:35	8.12	95.46	0.06	0.00
BET-MW4s	12/21/2017	14:36	8.75	94.83	0.06	0.00
BET-MW4s	1/23/2018	14:28	9.10	94.48	0.10	0.01
BET-MW4s	2/22/2018	8:00	9.54	94.04	0.16	0.01

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
BET-MW4s	3/1/2018		N/M			
BET-MW4s	4/24/2018	15:27	9.27	94.31	0.07	0.00
BET-MW4s	5/9/2018	15:10	9.34	94.24	<|0.05|	0
BET-MW4s	6/13/2018	14:45	9.56	94.02	<|0.05|	0
BET-MW4s	7/16/2018	12:31	10.22	93.36	-0.20	-0.01
BET-MW4s	8/24/2018	10:20	6.92	96.66	<|0.05|	0
BET-MW4s	9/16/2018	16:25	6.33	97.25	<|0.05|	0
BET-MW4s	10/25/2018	13:45	7.34	96.24	0.10	0.01
BET-MW4s	11/12/2018	15:45	7.50	96.08	<|0.05|	0
BET-MW4s	12/15/2018	13:06	7.95	95.63	<|0.05|	0
BET-MW4s	1/25/2019	16:12	7.88	95.70	<|0.05|	0
BET-MW4s	2/21/2019	10:10	6.90	96.68	<|0.05|	0
BET-MW4s	3/16/2019	15:15	7.16	96.42	<|0.05|	0
BET-MW4s	4/16/2019	11:47	6.75	96.83	<|0.05|	0
BET-MW4s	5/17/2019	9:24	6.84	96.74	-0.09	-0.00
BET-MW4s	6/20/2019	14:25	7.05	96.53	-0.31	-0.02
BET-MW4s	7/18/2019	11:46	6.18	97.40	-0.25	-0.01
BET-MW4s	8/16/2019	7:55	10.38	93.20	1.54	0.09
BET-MW4s	9/27/2019	12:10	12.50	91.08	1.22	0.07
BET-MW4s	10/28/2019	13:25	13.87	89.71	0.86	0.05
BET-MW4s	11/11/2019	8:30	14.10	89.48	1.03	0.06
BET-MW4s	12/14/2019	11:43	15.05	88.53	1.05	0.06
BET-MW4d	1/29/2012	9:51	8.31	94.67		
BET-MW4d	2/8/2012	13:47	7.78	95.20		
BET-MW4d	3/5/2012	14:23	9.60	93.38		
BET-MW4d	4/5/2012	13:11	9.45	93.53		
BET-MW4d	5/10/2012	12:45	14.72	88.26		
BET-MW4d	6/18/2012	14:05	14.40	88.58		
BET-MW4d	7/11/2012	9:26	15.23	87.75		
BET-MW4d	8/14/2012	10:40	13.79	89.19		
BET-MW4d	9/18/2012	9:00	13.77	89.21		
BET-MW4d	10/19/2012	12:50	10.71	92.27		
BET-MW4d	12/7/2012	10:57	10.71	92.27		
BET-MW4d	12/28/2012	14:23	9.19	93.79		
BET-MW4d	1/16/2013	12:15	8.79	94.19		
BET-MW4d	2/16/2013	17:13	9.10	93.88		
BET-MW4d	3/21/2013	11:55	14.23	88.75		
BET-MW4d	4/16/2013	15:38	14.87	88.11		
BET-MW4d	5/30/2013	11:12	13.52	89.46		
BET-MW4d	6/17/2013	11:02	15.72	87.26		
BET-MW4d	7/16/2013	10:34	15.87	87.11		
BET-MW4d	8/26/2013	12:13	15.03	87.95		
BET-MW4d	9/9/2013	16:36	14.99	87.99		
BET-MW4d	10/7/2013	17:48	17.04	85.94		
BET-MW4d	11/15/2013	8:27	12.08	90.90		
BET-MW4d	12/17/2013	16:43	14.35	88.63		
BET-MW4d	1/13/2014	16:11	17.99	84.99		
BET-MW4d	2/24/2014	13:02	14.30	88.68		
BET-MW4d	3/16/2014	16:45	17.55	85.43		
BET-MW4d	4/19/2014	15:50	19.83	83.15		
BET-MW4d	5/23/2014	7:00	21.52	81.46		
BET-MW4d	6/19/2014	16:49	22.34	80.64		
BET-MW4d	7/17/2014	15:08	23.48	79.50		
BET-MW4d	8/25/2014	13:16	21.94	81.04		
BET-MW4d	9/22/2014	16:16	17.55	85.43		
BET-MW4d	10/14/2014	17:10	15.56	87.42		
BET-MW4d	11/11/2014	8:55	14.94	88.04		
BET-MW4d	12/15/2014	13:31	14.73	88.25		
BET-MW4d	1/12/2015	19:37	14.35	88.63		
BET-MW4d	2/10/2015	8:26	14.52	88.46		
BET-MW4d	3/13/2015	17:19	18.82	84.16		
BET-MW4d	4/17/2015	15:36	19.97	83.01		
BET-MW4d	5/14/2015	17:22	17.00	85.98		
BET-MW4d	6/5/2015	10:57	18.10	84.88		
BET-MW4d	7/13/2015	16:22	18.26	84.72		
BET-MW4d	8/18/2015	12:06	16.72	86.26		
BET-MW4d	9/14/2015	12:19	15.65	87.33		
BET-MW4d	10/16/2015	12:17	15.44	87.54		
BET-MW4d	11/11/2015	10:52	15.55	87.43		
BET-MW4d	12/23/2015	14:08	15.99	86.99		
BET-MW4d	1/15/2016	14:44	16.11	86.87		
BET-MW4d	2/18/2016	16:52	16.15	86.83		
BET-MW4d	3/18/2016	16:51	16.12	86.86		
BET-MW4d	4/18/2016	17:47	16.26	86.72		
BET-MW4d	5/19/2016	11:55	15.95	87.03		
BET-MW4d	6/16/2016	12:00	17.00	85.98		
BET-MW4d	7/21/2016	17:10	16.06	86.92		
BET-MW4d	8/19/2016	9:13	14.62	88.36		
BET-MW4d	9/15/2016	13:54	13.64	89.34		
BET-MW4d	10/14/2016	16:58	13.77	89.21		
BET-MW4d	11/22/2016	11:26	12.86	90.12		
BET-MW4d	12/12/2016	14:17	12.84	90.14		
BET-MW4d	1/25/2017	13:36	12.34	90.64		
BET-MW4d	2/1/2017		N/M			
BET-MW4d	3/15/2017	10:38	11.05	91.93		
BET-MW4d	4/20/2017	13:46	10.13	92.85		
BET-MW4d	5/18/2017	8:47	9.45	93.53		
BET-MW4d	6/24/2017	16:43	9.41	93.57		
BET-MW4d	7/14/2017	16:32	8.88	94.10		
BET-MW4d	8/25/2017	11:04	6.70	96.28		
BET-MW4d	9/22/2017	14:36	6.55	96.43		
BET-MW4d	10/19/2017	14:19	7.00	95.98		
BET-MW4d	11/27/2017	11:35	7.58	95.40		
BET-MW4d	12/21/2017	14:37	8.21	94.77		
BET-MW4d	1/23/2018	14:29	8.60	94.38		
BET-MW4d	2/22/2018	8:01	9.10	93.88		
BET-MW4d	3/1/2018		N/M			
BET-MW4d	4/24/2018	15:27	8.74	94.24		
BET-MW4d	5/9/2018	15:11	8.76	94.22		
BET-MW4d	6/13/2018	14:46	9.00	93.98		
BET-MW4d	7/16/2018	12:32	9.42	93.56		
BET-MW4d	8/24/2018	10:20	6.36	96.62		
BET-MW4d	9/16/2018	16:25	5.77	97.21		
BET-MW4d	10/25/2018	13:46	6.84	96.14		
BET-MW4d	11/12/2018	15:46	6.94	96.04		
BET-MW4d	12/15/2018	13:07	7.40	95.58		
BET-MW4d	1/25/2019	16:13	7.30	95.68		
BET-MW4d	2/21/2019	10:11	6.30	96.68		
BET-MW4d	3/16/2019	15:16	6.60	96.38		
BET-MW4d	4/16/2019	11:47	6.14	96.84		
BET-MW4d	5/17/2019	9:24	6.15	96.83		
BET-MW4d	6/20/2019	14:26	6.14	96.84		
BET-MW4d	7/18/2019	11:46	5.33	97.65		
BET-MW4d	8/16/2019	7:55	11.32	91.66		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
BET-MW4d	9/27/2019	12:10	13.12	89.86		
BET-MW4d	10/28/2019	13:26	14.13	88.85		
BET-MW4d	11/11/2019	8:30	14.53	88.45		
BET-MW4d	12/14/2019	11:44	15.50	87.48		
BET-MW5s	1/29/2012	10:08	10.62	99.47	<|0.05|	0
BET-MW5s	2/9/2012	11:25	11.00	99.09	<|0.05|	0
BET-MW5s	3/5/2012	14:26	10.16	99.93	<|0.05|	0
BET-MW5s	4/5/2012	13:15	11.59	98.50	<|0.05|	0
BET-MW5s	5/10/2012	15:00	11.83	98.26	<|0.05|	0
BET-MW5s	6/18/2012	14:16	10.83	99.26	<|0.05|	0
BET-MW5s	7/11/2012	9:30	9.07	101.02	<|0.05|	0
BET-MW5s	8/14/2012	10:36	8.28	101.81	<|0.05|	0
BET-MW5s	9/18/2012	9:05	9.38	100.71	<|0.05|	0
BET-MW5s	10/19/2012	13:13	9.67	100.42	<|0.05|	0
BET-MW5s	12/7/2012	10:54	9.67	100.42	<|0.05|	0
BET-MW5s	12/28/2012	14:26	12.43	97.66	<|0.05|	0
BET-MW5s	1/16/2013	12:19	12.73	97.36	<|0.05|	0
BET-MW5s	2/16/2013	17:32	11.40	98.69	<|0.05|	0
BET-MW5s	3/21/2013	11:50	11.63	98.46	<|0.05|	0
BET-MW5s	4/16/2013	15:44	13.04	97.05	0.10	0.00
BET-MW5s	5/30/2013	10:42	12.79	97.30	<|0.05|	0
BET-MW5s	6/17/2013	10:34	10.18	99.91	-0.07	-0.00
BET-MW5s	7/16/2013	10:40	8.29	101.80	<|0.05|	0
BET-MW5s	8/26/2013	12:19	8.18	101.91	<|0.05|	0
BET-MW5s	9/9/2013	16:41	8.20	101.89	<|0.05|	0
BET-MW5s	10/7/2013	17:54	9.76	100.33	<|0.05|	0
BET-MW5s	11/15/2013	8:35	12.53	97.56	<|0.05|	0
BET-MW5s	12/17/2013	16:47	13.91	96.18	<|0.05|	0
BET-MW5s	1/13/2014	16:16	14.92	95.17	<|0.05|	0
BET-MW5s	2/24/2014	12:52	15.89	94.20	-0.06	-0.00
BET-MW5s	3/16/2014	16:50	15.84	94.25	-0.08	-0.00
BET-MW5s	4/19/2014	15:55	16.35	93.74	0.27	0.01
BET-MW5s	5/23/2014	6:47	17.44	92.65	<|0.05|	0
BET-MW5s	6/19/2014	16:58	16.20	93.89	<|0.05|	0
BET-MW5s	7/17/2014	15:14	13.43	96.66	<|0.05|	0
BET-MW5s	8/25/2014	13:09	11.29	98.80	<|0.05|	0
BET-MW5s	9/22/2014	16:21	12.41	97.68	<|0.05|	0
BET-MW5s	10/14/2014	17:14	13.15	96.94	<|0.05|	0
BET-MW5s	11/11/2014	8:47	15.18	94.91	<|0.05|	0
BET-MW5s	12/15/2014	13:20	16.99	93.10	<|0.05|	0
BET-MW5s	1/12/2015	19:46	17.30	92.79	<|0.05|	0
BET-MW5s	2/10/2015	8:30	16.12	93.97	<|0.05|	0
BET-MW5s	3/13/2015	17:26	15.34	94.75	<|0.05|	0
BET-MW5s	4/17/2015	15:42	17.67	92.42	<|0.05|	0
BET-MW5s	5/14/2015	17:26	18.50	91.59	<|0.05|	0
BET-MW5s	6/5/2015	11:02	18.74	91.35	<|0.05|	0
BET-MW5s	7/13/2015	16:10	15.80	94.29	<|0.05|	0
BET-MW5s	8/18/2015	12:39	14.48	95.61	<|0.05|	0
BET-MW5s	9/14/2015	12:29	15.26	94.83	0.06	0.00
BET-MW5s	10/16/2015	12:21	16.29	93.80	<|0.05|	0
BET-MW5s	11/11/2015	10:57	17.81	92.28	<|0.05|	0
BET-MW5s	12/23/2015	14:28	19.39	90.70	<|0.05|	0
BET-MW5s	1/15/2016	14:59	20.03	90.06	<|0.05|	0
BET-MW5s	2/18/2016	17:11	19.56	90.53	<|0.05|	0
BET-MW5s	3/18/2016	16:57	19.88	90.21	<|0.05|	0
BET-MW5s	4/18/2016	17:58	20.45	89.64	<|0.05|	0
BET-MW5s	5/19/2016	11:38	20.16	89.93	<|0.05|	0
BET-MW5s	6/16/2016	12:18	19.40	90.69	<|0.05|	0
BET-MW5s	7/21/2016	17:16	16.50	93.59	<|0.05|	0
BET-MW5s	8/19/2016	9:29	14.20	95.89	<|0.05|	0
BET-MW5s	9/15/2016	13:37	15.12	94.97	0.06	0.00
BET-MW5s	10/14/2016	17:00	16.98	93.11	<|0.05|	0
BET-MW5s	11/22/2016	11:32	16.88	93.21	<|0.05|	0
BET-MW5s	12/12/2016	13:59	17.55	92.54	<|0.05|	0
BET-MW5s	1/25/2017	13:41	17.89	92.20	<|0.05|	0
BET-MW5s	2/1/2017		N/M			
BET-MW5s	3/15/2017	10:42	16.46	93.63	<|0.05|	0
BET-MW5s	4/20/2017	13:29	15.55	94.54	<|0.05|	0
BET-MW5s	5/18/2017	9:02	16.44	93.65	0.07	0.00
BET-MW5s	6/24/2017	16:46	15.88	94.21	<|0.05|	0
BET-MW5s	7/14/2017	16:35	13.46	96.63	<|0.05|	0
BET-MW5s	8/25/2017	11:20	9.58	100.51	<|0.05|	0
BET-MW5s	9/22/2017	14:18	10.72	99.37	<|0.05|	0
BET-MW5s	10/19/2017	14:01	12.14	97.95	<|0.05|	0
BET-MW5s	11/27/2017	11:45	12.45	97.64	<|0.05|	0
BET-MW5s	12/21/2017	14:20	13.26	96.83	<|0.05|	0
BET-MW5s	1/23/2018	14:09	13.24	96.85	<|0.05|	0
BET-MW5s	2/22/2018	8:25	12.70	97.39	<|0.05|	0
BET-MW5s	3/1/2018		N/M			
BET-MW5s	4/24/2018	15:34	14.85	95.24	<|0.05|	0
BET-MW5s	5/9/2018	15:25	15.13	94.96	<|0.05|	0
BET-MW5s	6/13/2018	14:25	13.99	96.10	<|0.05|	0
BET-MW5s	7/16/2018	12:17	11.86	98.23	<|0.05|	0
BET-MW5s	8/24/2018	10:33	8.06	102.03	<|0.05|	0
BET-MW5s	9/16/2018	16:07	8.28	101.81	<|0.05|	0
BET-MW5s	10/25/2018	13:26	11.09	99.00	<|0.05|	0
BET-MW5s	11/12/2018	15:58	11.12	98.97	<|0.05|	0
BET-MW5s	12/15/2018	13:12	12.45	97.64	<|0.05|	0
BET-MW5s	1/25/2019	16:18	12.75	97.34	<|0.05|	0
BET-MW5s	2/21/2019	10:26	12.38	97.71	<|0.05|	0
BET-MW5s	3/16/2019	15:02	12.98	97.11	<|0.05|	0
BET-MW5s	4/16/2019	11:52	12.36	97.73	<|0.05|	0
BET-MW5s	5/17/2019	9:19	13.48	96.61	<|0.05|	0
BET-MW5s	6/20/2019	14:10	12.68	97.41	<|0.05|	0
BET-MW5s	7/18/2019	11:51	9.92	100.17	<|0.05|	0
BET-MW5s	8/16/2019	7:49	8.40	101.69	<|0.05|	0
BET-MW5s	9/27/2019	12:15	9.73	100.36	<|0.05|	0
BET-MW5s	10/28/2019	13:37	10.19	99.90	<|0.05|	0
BET-MW5s	11/11/2019	8:27	11.49	98.60	<|0.05|	0
BET-MW5s	12/14/2019	11:29	12.61	97.48	<|0.05|	0
BET-MW5d	1/29/2012	10:09	10.42	99.47		
BET-MW5d	2/9/2012	11:26	10.82	99.07		
BET-MW5d	3/5/2012	14:27	9.96	99.93		
BET-MW5d	4/5/2012	13:16	11.38	98.51		
BET-MW5d	5/10/2012	15:01	11.63	98.26		
BET-MW5d	6/18/2012	14:16	10.63	99.26		
BET-MW5d	7/11/2012	9:30	8.88	101.01		
BET-MW5d	8/14/2012	10:36	8.10	101.79		
BET-MW5d	9/18/2012	9:05	9.18	100.71		
BET-MW5d	10/19/2012	13:13	9.47	100.42		
BET-MW5d	12/7/2012	10:54	9.47	100.42		
BET-MW5d	12/28/2012	14:28	12.23	97.66		
BET-MW5d	1/16/2013	12:20	12.54	97.35		
BET-MW5d	2/16/2013	17:33	11.20	98.69		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
BET-MW5d	3/21/2013	11:50	11.44	98.45		
BET-MW5d	4/16/2013	15:44	12.94	96.95		
BET-MW5d	5/30/2013	10:42	12.58	97.31		
BET-MW5d	6/17/2013	10:35	9.91	99.98		
BET-MW5d	7/16/2013	10:40	8.10	101.79		
BET-MW5d	8/26/2013	12:19	7.99	101.90		
BET-MW5d	9/9/2013	16:41	8.01	101.88		
BET-MW5d	10/7/2013	17:54	9.53	100.36		
BET-MW5d	11/15/2013	8:35	12.32	97.57		
BET-MW5d	12/17/2013	16:47	13.72	96.17		
BET-MW5d	1/13/2014	16:16	14.73	95.16		
BET-MW5d	2/24/2014	12:52	15.63	94.26		
BET-MW5d	3/16/2014	16:50	15.56	94.33		
BET-MW5d	4/19/2014	15:55	16.42	93.47		
BET-MW5d	5/23/2014	6:47	17.23	92.66		
BET-MW5d	6/19/2014	16:58	16.00	93.89		
BET-MW5d	7/17/2014	15:14	13.22	96.67		
BET-MW5d	8/25/2014	13:09	11.08	98.81		
BET-MW5d	9/22/2014	16:21	12.22	97.67		
BET-MW5d	10/14/2014	17:14	12.94	96.95		
BET-MW5d	11/11/2014	8:47	15.03	94.86		
BET-MW5d	12/15/2014	13:20	16.80	93.09		
BET-MW5d	1/12/2015	19:46	17.10	92.79		
BET-MW5d	2/10/2015	8:30	15.94	93.95		
BET-MW5d	3/13/2015	17:26	15.16	94.73		
BET-MW5d	4/17/2015	15:42	17.50	92.39		
BET-MW5d	5/14/2015	17:26	18.32	91.57		
BET-MW5d	6/5/2015	11:02	18.53	91.36		
BET-MW5d	7/13/2015	16:10	15.60	94.29		
BET-MW5d	8/18/2015	12:39	14.30	95.59		
BET-MW5d	9/14/2015	12:30	15.12	94.77		
BET-MW5d	10/16/2015	12:22	16.14	93.75		
BET-MW5d	11/11/2015	10:58	17.65	92.24		
BET-MW5d	12/23/2015	14:29	19.16	90.73		
BET-MW5d	1/15/2016	15:00	19.84	90.05		
BET-MW5d	2/18/2016	17:12	19.37	90.52		
BET-MW5d	3/18/2016	16:57	19.70	90.19		
BET-MW5d	4/18/2016	17:58	20.28	89.61		
BET-MW5d	5/19/2016	11:39	19.96	89.93		
BET-MW5d	6/16/2016	12:19	19.17	90.72		
BET-MW5d	7/21/2016	17:16	16.34	93.55		
BET-MW5d	8/19/2016	9:28	14.00	95.89		
BET-MW5d	9/15/2016	13:38	14.98	94.91		
BET-MW5d	10/14/2016	17:01	16.81	93.08		
BET-MW5d	11/22/2016	11:32	16.68	93.21		
BET-MW5d	12/12/2016	13:58	17.35	92.54		
BET-MW5d	1/25/2017	13:42	17.65	92.24		
BET-MW5d	2/1/2017		N/M			
BET-MW5d	3/15/2017	10:42	16.30	93.59		
BET-MW5d	4/20/2017	13:30	15.39	94.50		
BET-MW5d	5/18/2017	9:03	16.31	93.58		
BET-MW5d	6/24/2017	16:47	15.73	94.16		
BET-MW5d	7/14/2017	16:36	13.23	96.66		
BET-MW5d	8/25/2017	11:21	9.39	100.50		
BET-MW5d	9/22/2017	14:19	10.52	99.37		
BET-MW5d	10/19/2017	14:02	11.92	97.97		
BET-MW5d	11/27/2017	11:45	12.24	97.65		
BET-MW5d	12/21/2017	14:21	13.05	96.84		
BET-MW5d	1/23/2018	14:10	13.00	96.89		
BET-MW5d	2/22/2018	8:26	12.49	97.40		
BET-MW5d	3/1/2018		N/M			
BET-MW5d	4/24/2018	15:34	14.66	95.23		
BET-MW5d	5/9/2018	15:26	14.95	94.94		
BET-MW5d	6/13/2018	14:26	13.78	96.11		
BET-MW5d	7/16/2018	12:18	11.64	98.25		
BET-MW5d	8/24/2018	10:33	7.86	102.03		
BET-MW5d	9/16/2018	16:07	8.08	101.81		
BET-MW5d	10/25/2018	13:27	10.84	99.05		
BET-MW5d	11/12/2018	15:59	10.91	98.98		
BET-MW5d	12/15/2018	13:13	12.24	97.65		
BET-MW5d	1/25/2019	16:19	12.54	97.35		
BET-MW5d	2/21/2019	10:27	12.17	97.72		
BET-MW5d	3/16/2019	15:03	12.79	97.10		
BET-MW5d	4/16/2019	11:52	12.15	97.74		
BET-MW5d	5/17/2019	9:19	13.29	96.60		
BET-MW5d	6/20/2019	14:11	12.46	97.43		
BET-MW5d	7/18/2019	11:51	9.72	100.17		
BET-MW5d	8/16/2019	7:49	8.18	101.71		
BET-MW5d	9/27/2019	12:15	9.52	100.37		
BET-MW5d	10/28/2019	13:38	9.97	99.92		
BET-MW5d	11/11/2019	8:27	11.29	98.60		
BET-MW5d	12/14/2019	11:30	12.44	97.45		
BET-MW6s	1/29/2012	10:11	11.10	98.60	<|0.05|	0
BET-MW6s	2/9/2012	10:56	11.46	98.24	<|0.05|	0
BET-MW6s	3/5/2012	14:31	10.23	99.47	<|0.05|	0
BET-MW6s	4/5/2012	13:20	12.10	97.60	<|0.05|	0
BET-MW6s	5/10/2012	14:42	12.20	97.50	<|0.05|	0
BET-MW6s	6/18/2012	14:19	10.82	98.88	<|0.05|	0
BET-MW6s	7/11/2012	9:34	8.57	101.13	<|0.05|	0
BET-MW6s	8/14/2012	10:26	7.45	102.25	<|0.05|	0
BET-MW6s	9/18/2012	9:08	9.62	100.08	<|0.05|	0
BET-MW6s	10/19/2012	13:22	10.09	99.61	<|0.05|	0
BET-MW6s	12/7/2012	10:50	10.09	99.61	<|0.05|	0
BET-MW6s	12/28/2012	14:32	13.35	96.35	<|0.05|	0
BET-MW6s	1/16/2013	12:27	13.45	96.25	<|0.05|	0
BET-MW6s	2/16/2013	17:40	11.82	97.88	<|0.05|	0
BET-MW6s	3/21/2013	11:47	12.22	97.48	<|0.05|	0
BET-MW6s	4/16/2013	15:55	13.74	95.96	<|0.05|	0
BET-MW6s	5/30/2013	10:20	12.92	96.78	<|0.05|	0
BET-MW6s	6/17/2013	10:47	10.11	99.59	<|0.05|	0
BET-MW6s	7/16/2013	10:49	8.11	101.59	<|0.05|	0
BET-MW6s	8/26/2013	12:27	7.71	101.99	<|0.05|	0
BET-MW6s	9/9/2013	16:44	7.82	101.88	0.10	0.00
BET-MW6s	10/7/2013	18:04	9.04	100.66	0.89	0.04
BET-MW6s	11/15/2013	8:46	12.93	96.77	<|0.05|	0
BET-MW6s	12/17/2013	16:53	14.36	95.34	-0.10	-0.00
BET-MW6s	1/13/2014	16:23	15.29	94.41	<|0.05|	0
BET-MW6s	2/24/2014	12:49	15.18	94.52	<|0.05|	0
BET-MW6s	3/16/2014	16:59	16.48	93.22	<|0.05|	0
BET-MW6s	4/19/2014	16:01	17.18	92.52	<|0.05|	0
BET-MW6s	5/23/2014	6:50	17.97	91.73	<|0.05|	0
BET-MW6s	6/19/2014	17:02	16.60	93.10	<|0.05|	0
BET-MW6s	7/17/2014	15:25	13.54	96.16	<|0.05|	0
BET-MW6s	8/25/2014	12:59	11.46	98.24	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
BET-MW6s	9/22/2014	16:28	13.05	96.65	<|0.05|	0
BET-MW6s	10/14/2014	17:23	13.75	95.95	<|0.05|	0
BET-MW6s	11/11/2014	8:38	15.72	93.98	<|0.05|	0
BET-MW6s	12/15/2014	13:13	17.36	92.34	0.10	0.00
BET-MW6s	1/12/2015	19:58	17.50	92.20	<|0.05|	0
BET-MW6s	2/10/2015	8:39	16.43	93.27	<|0.05|	0
BET-MW6s	3/13/2015	17:36	17.30	92.40	<|0.05|	0
BET-MW6s	4/17/2015	15:49	18.16	91.54	<|0.05|	0
BET-MW6s	5/14/2015	17:33	18.78	90.92	<|0.05|	0
BET-MW6s	6/5/2015	11:06	19.08	90.62	<|0.05|	0
BET-MW6s	7/13/2015	16:08	15.92	93.78	<|0.05|	0
BET-MW6s	8/18/2015	12:51	14.92	94.78	<|0.05|	0
BET-MW6s	9/14/2015	12:34	15.80	93.90	<|0.05|	0
BET-MW6s	10/16/2015	12:30	16.90	92.80	<|0.05|	0
BET-MW6s	11/11/2015	11:05	18.13	91.57	<|0.05|	0
BET-MW6s	12/23/2015	14:36	19.47	90.23	<|0.05|	0
BET-MW6s	1/15/2016	15:07	20.21	89.49	<|0.05|	0
BET-MW6s	2/18/2016	17:18	19.91	89.79	<|0.05|	0
BET-MW6s	3/18/2016	17:05	20.09	89.61	<|0.05|	0
BET-MW6s	4/18/2016	18:06	20.70	89.00	<|0.05|	0
BET-MW6s	5/19/2016	11:41	20.67	89.03	<|0.05|	0
BET-MW6s	6/16/2016	12:25	20.38	89.32	<|0.05|	0
BET-MW6s	7/21/2016	17:26	16.80	92.90	<|0.05|	0
BET-MW6s	8/19/2016	9:41	14.68	95.02	<|0.05|	0
BET-MW6s	9/15/2016	13:44	15.44	94.26	-2.00	-0.10
BET-MW6s	10/14/2016	17:09	17.53	92.17	<|0.05|	0
BET-MW6s	11/22/2016	11:35	17.13	92.57	<|0.05|	0
BET-MW6s	12/12/2016	14:06	17.82	91.88	<|0.05|	0
BET-MW6s	1/25/2017	13:50	18.46	91.24	<|0.05|	0
BET-MW6s	2/1/2017		N/M			
BET-MW6s	3/15/2017	10:48	16.80	92.90	<|0.05|	0
BET-MW6s	4/20/2017	13:36	15.90	93.80	<|0.05|	0
BET-MW6s	5/18/2017	9:10	16.85	92.85	<|0.05|	0
BET-MW6s	6/24/2017	16:56	16.16	93.54	<|0.05|	0
BET-MW6s	7/14/2017	16:46	13.26	96.44	<|0.05|	0
BET-MW6s	8/25/2017	11:24	9.46	100.24	<|0.05|	0
BET-MW6s	9/22/2017	14:30	10.41	99.29	<|0.05|	0
BET-MW6s	10/19/2017	14:13	11.60	98.10	<|0.05|	0
BET-MW6s	11/27/2017	11:47	12.31	97.39	<|0.05|	0
BET-MW6s	12/21/2017	14:31	13.15	96.55	<|0.05|	0
BET-MW6s	1/23/2018	14:21	13.25	96.45	<|0.05|	0
BET-MW6s	2/22/2018	8:30	12.94	96.76	<|0.05|	0
BET-MW6s	3/1/2018		N/M			
BET-MW6s	4/24/2018	15:44	14.92	94.78	<|0.05|	0
BET-MW6s	5/9/2018	15:32	15.31	94.39	<|0.05|	0
BET-MW6s	6/13/2018	14:38	13.90	95.80	<|0.05|	0
BET-MW6s	7/16/2018	12:25	11.40	98.30	<|0.05|	0
BET-MW6s	8/24/2018	10:25	8.16	101.54	<|0.05|	0
BET-MW6s	9/16/2018	16:18	7.93	101.77	<|0.05|	0
BET-MW6s	10/25/2018	13:39	11.35	98.35	<|0.05|	0
BET-MW6s	11/12/2018	16:15	11.09	98.61	0.44	0.02
BET-MW6s	12/15/2018	13:20	12.78	96.92	<|0.05|	0
BET-MW6s	1/25/2019	16:29	12.82	96.88	<|0.05|	0
BET-MW6s	2/21/2019	10:30	13.01	96.69	<|0.05|	0
BET-MW6s	3/16/2019	15:10	13.40	96.30	<|0.05|	0
BET-MW6s	4/16/2019	12:00	12.83	96.87	<|0.05|	0
BET-MW6s	5/17/2019	9:05	14.10	95.60	<|0.05|	0
BET-MW6s	6/20/2019	14:20	13.24	96.46	<|0.05|	0
BET-MW6s	7/18/2019	12:06	10.03	99.67	<|0.05|	0
BET-MW6s	8/16/2019	7:39	8.32	101.38	<|0.05|	0
BET-MW6s	9/27/2019	12:26	9.68	100.02	<|0.05|	0
BET-MW6s	10/28/2019	13:41	10.55	99.15	<|0.05|	0
BET-MW6s	11/11/2019	8:23	11.72	97.98	<|0.05|	0
BET-MW6s	12/14/2019	11:38	12.86	96.84	<|0.05|	0
BET-MW6d	1/29/2012	10:11	10.87	98.60		
BET-MW6d	2/9/2012	10:57	11.23	98.24		
BET-MW6d	3/5/2012	14:33	10.00	99.47		
BET-MW6d	4/5/2012	13:22	11.87	97.60		
BET-MW6d	5/10/2012	14:44	11.96	97.51		
BET-MW6d	6/18/2012	14:18	10.60	98.87		
BET-MW6d	7/11/2012	9:34	8.34	101.13		
BET-MW6d	8/14/2012	10:27	7.23	102.24		
BET-MW6d	9/18/2012	9:08	9.38	100.09		
BET-MW6d	10/19/2012	13:22	9.87	99.60		
BET-MW6d	12/7/2012	10:50	9.87	99.60		
BET-MW6d	12/28/2012	14:33	13.12	96.35		
BET-MW6d	1/16/2013	12:28	13.22	96.25		
BET-MW6d	2/16/2013	17:41	11.57	97.90		
BET-MW6d	3/21/2013	11:46	11.98	97.49		
BET-MW6d	4/16/2013	15:55	13.52	95.95		
BET-MW6d	5/30/2013	10:21	12.70	96.77		
BET-MW6d	6/17/2013	10:49	9.87	99.60		
BET-MW6d	7/16/2013	10:49	7.88	101.59		
BET-MW6d	8/26/2013	12:27	7.49	101.98		
BET-MW6d	9/9/2013	16:44	7.69	101.78		
BET-MW6d	10/7/2013	18:04	9.70	99.77		
BET-MW6d	11/15/2013	8:46	12.74	96.73		
BET-MW6d	12/17/2013	16:53	14.03	95.44		
BET-MW6d	1/13/2014	16:23	15.06	94.41		
BET-MW6d	2/24/2014	12:49	14.99	94.48		
BET-MW6d	3/16/2014	16:59	16.25	93.22		
BET-MW6d	4/19/2014	16:01	16.93	92.54		
BET-MW6d	5/23/2014	6:50	17.76	91.71		
BET-MW6d	6/19/2014	17:02	16.35	93.12		
BET-MW6d	7/17/2014	15:25	13.31	96.16		
BET-MW6d	8/25/2014	12:59	11.27	98.20		
BET-MW6d	9/22/2014	16:28	12.83	96.64		
BET-MW6d	10/14/2014	17:23	13.52	95.95		
BET-MW6d	11/11/2014	8:38	15.51	93.96		
BET-MW6d	12/15/2014	13:13	17.23	92.24		
BET-MW6d	1/12/2015	19:58	17.26	92.21		
BET-MW6d	2/10/2015	8:39	16.21	93.26		
BET-MW6d	3/13/2015	17:36	17.09	92.38		
BET-MW6d	4/17/2015	15:49	17.93	91.54		
BET-MW6d	5/14/2015	17:33	18.52	90.95		
BET-MW6d	6/5/2015	11:06	18.83	90.64		
BET-MW6d	7/13/2015	16:08	15.70	93.77		
BET-MW6d	8/18/2015	12:51	14.70	94.77		
BET-MW6d	9/14/2015	12:35	15.58	93.89		
BET-MW6d	10/16/2015	12:31	16.67	92.80		
BET-MW6d	11/11/2015	11:06	17.93	91.54		
BET-MW6d	12/23/2015	14:37	19.25	90.22		
BET-MW6d	1/15/2016	15:08	20.01	89.46		
BET-MW6d	2/18/2016	17:19	19.67	89.80		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
BET-MW6d	3/18/2016	17:05	19.86	89.61		
BET-MW6d	4/18/2016	18:06	20.49	88.98		
BET-MW6d	5/19/2016	11:42	20.40	89.07		
BET-MW6d	6/16/2016	12:26	20.12	89.35		
BET-MW6d	7/21/2016	17:26	16.56	92.91		
BET-MW6d	8/19/2016	9:40	14.47	95.00		
BET-MW6d	9/15/2016	13:45	13.21	96.26		
BET-MW6d	10/14/2016	17:10	17.29	92.18		
BET-MW6d	11/22/2016	11:35	16.94	92.53		
BET-MW6d	12/12/2016	14:07	17.60	91.87		
BET-MW6d	1/25/2017	13:51	18.25	91.22		
BET-MW6d	2/1/2017		N/M			
BET-MW6d	3/15/2017	10:48	16.56	92.91		
BET-MW6d	4/20/2017	13:37	15.68	93.79		
BET-MW6d	5/18/2017	9:11	16.62	92.85		
BET-MW6d	6/24/2017	16:57	15.91	93.56		
BET-MW6d	7/14/2017	16:47	13.05	96.42		
BET-MW6d	8/25/2017	11:25	9.21	100.26		
BET-MW6d	9/22/2017	14:31	10.18	99.29		
BET-MW6d	10/19/2017	14:12	11.38	98.09		
BET-MW6d	11/27/2017	11:47	12.10	97.37		
BET-MW6d	12/21/2017	14:32	12.93	96.54		
BET-MW6d	1/23/2018	14:22	13.05	96.42		
BET-MW6d	2/22/2018	8:31	12.69	96.78		
BET-MW6d	3/1/2018		N/M			
BET-MW6d	4/24/2018	15:44	14.69	94.78		
BET-MW6d	5/9/2018	15:32	15.13	94.34		
BET-MW6d	6/13/2018	14:39	13.71	95.76		
BET-MW6d	7/16/2018	12:26	11.18	98.29		
BET-MW6d	8/24/2018	10:25	7.94	101.53		
BET-MW6d	9/16/2018	16:18	7.70	101.77		
BET-MW6d	10/25/2018	13:40	11.13	98.34		
BET-MW6d	11/12/2018	16:14	11.30	98.17		
BET-MW6d	12/15/2018	13:21	12.56	96.91		
BET-MW6d	1/25/2019	16:30	12.59	96.88		
BET-MW6d	2/21/2019	10:31	12.77	96.70		
BET-MW6d	3/16/2019	15:11	13.18	96.29		
BET-MW6d	4/16/2019	12:00	12.62	96.85		
BET-MW6d	5/17/2019	9:05	13.87	95.60		
BET-MW6d	6/20/2019	14:21	13.02	96.45		
BET-MW6d	7/18/2019	12:06	9.80	99.67		
BET-MW6d	8/16/2019	7:39	8.12	101.35		
BET-MW6d	9/27/2019	12:26	9.48	99.99		
BET-MW6d	10/28/2019	13:42	10.33	99.14		
BET-MW6d	11/11/2019	8:23	11.52	97.95		
BET-MW6d	12/14/2019	11:39	12.64	96.83		
BET-MW7s	1/29/2012	10:14	11.96	99.75	<|0.05|	0
BET-MW7s	2/9/2012	14:16	12.20	99.51	<|0.05|	0
BET-MW7s	3/5/2012	14:36	11.34	100.37	<|0.05|	0
BET-MW7s	4/5/2012	13:28	12.82	98.89	-0.57	-0.03
BET-MW7s	5/10/2012	14:00	12.95	98.76	<|0.05|	0
BET-MW7s	6/18/2012	14:24	11.33	100.38	<|0.05|	0
BET-MW7s	7/11/2012	9:40	11.28	100.43	0.06	0.00
BET-MW7s	8/14/2012	10:30	8.29	103.42	<|0.05|	0
BET-MW7s	9/18/2012	9:14	9.77	101.94	0.09	0.00
BET-MW7s	10/19/2012	13:18	10.61	101.10	<|0.05|	0
BET-MW7s	12/7/2012	10:47	10.61	101.10	<|0.05|	0
BET-MW7s	12/28/2012	14:37	13.65	98.06	<|0.05|	0
BET-MW7s	1/16/2013	12:22	13.87	97.84	<|0.05|	0
BET-MW7s	2/16/2013	17:36	12.85	98.86	<|0.05|	0
BET-MW7s	3/21/2013	11:44	13.06	98.65	<|0.05|	0
BET-MW7s	4/16/2013	15:48	14.24	97.47	<|0.05|	0
BET-MW7s	5/30/2013	10:33	13.68	98.03	<|0.05|	0
BET-MW7s	6/17/2013	10:41	11.54	100.17	<|0.05|	0
BET-MW7s	7/16/2013	10:44	9.83	101.88	<|0.05|	0
BET-MW7s	8/26/2013	12:23	8.68	103.03	<|0.05|	0
BET-MW7s	9/9/2013	16:53	8.69	103.02	<|0.05|	0
BET-MW7s	10/7/2013	17:57	10.90	100.81	<|0.05|	0
BET-MW7s	11/15/2013	8:41	13.41	98.30	<|0.05|	0
BET-MW7s	12/17/2013	16:49	14.83	96.88	<|0.05|	0
BET-MW7s	1/13/2014	16:19	15.72	95.99	<|0.05|	0
BET-MW7s	2/24/2014	12:55	16.05	95.66	<|0.05|	0
BET-MW7s	3/16/2014	16:53	16.76	94.95	<|0.05|	0
BET-MW7s	4/19/2014	15:57	17.03	94.68	<|0.05|	0
BET-MW7s	5/23/2014	6:41	17.84	93.87	<|0.05|	0
BET-MW7s	6/19/2014	16:55	16.61	95.10	<|0.05|	0
BET-MW7s	7/17/2014	15:17	14.39	97.32	<|0.05|	0
BET-MW7s	8/25/2014	13:04	12.70	99.01	<|0.05|	0
BET-MW7s	9/22/2014	16:24	14.33	97.38	<|0.05|	0
BET-MW7s	10/14/2014	17:17	15.13	96.58	<|0.05|	0
BET-MW7s	11/11/2014	8:43	16.64	95.07	<|0.05|	0
BET-MW7s	12/15/2014	13:24	18.27	93.44	<|0.05|	0
BET-MW7s	1/12/2015	19:51	18.29	93.42	<|0.05|	0
BET-MW7s	2/10/2015	8:34	17.86	93.85	<|0.05|	0
BET-MW7s	3/13/2015	17:31	15.57	96.14	<|0.05|	0
BET-MW7s	4/17/2015	15:45	19.06	92.65	<|0.05|	0
BET-MW7s	5/14/2015	17:29	19.40	92.31	<|0.05|	0
BET-MW7s	6/5/2015	11:16	19.78	91.93	-0.17	-0.01
BET-MW7s	7/13/2015	16:04	17.22	94.49	<|0.05|	0
BET-MW7s	8/18/2015	12:44	16.35	95.36	<|0.05|	0
BET-MW7s	9/14/2015	12:45	17.59	94.12	<|0.05|	0
BET-MW7s	10/16/2015	12:25	18.89	92.82	<|0.05|	0
BET-MW7s	11/11/2015	11:01	19.89	91.82	<|0.05|	0
BET-MW7s	12/23/2015	14:31	21.00	90.71	<|0.05|	0
BET-MW7s	1/15/2016	15:03	21.67	90.04	<|0.05|	0
BET-MW7s	2/18/2016	17:14	21.20	90.51	<|0.05|	0
BET-MW7s	3/18/2016	17:00	20.88	90.83	<|0.05|	0
BET-MW7s	4/18/2016	18:02	21.94	89.77	-0.09	-0.00
BET-MW7s	5/19/2016	11:49	21.90	89.81	<|0.05|	0
BET-MW7s	6/16/2016	12:21	21.50	90.21	<|0.05|	0
BET-MW7s	7/21/2016	17:20	18.76	92.95	<|0.05|	0
BET-MW7s	8/19/2016	9:36	16.90	94.81	<|0.05|	0
BET-MW7s	9/15/2016	13:40	17.52	94.19	<|0.05|	0
BET-MW7s	10/14/2016	17:05	19.05	92.66	<|0.05|	0
BET-MW7s	11/22/2016	11:41	18.96	92.75	<|0.05|	0
BET-MW7s	12/12/2016	14:02	19.55	92.16	<|0.05|	0
BET-MW7s	1/25/2017	13:45	20.24	91.47	<|0.05|	0
BET-MW7s	2/1/2017		N/M			
BET-MW7s	3/15/2017	10:45	18.66	93.05	0.21	0.01
BET-MW7s	4/20/2017	13:32	17.91	93.80	<|0.05|	0
BET-MW7s	5/18/2017	9:06	18.65	93.06	<|0.05|	0
BET-MW7s	6/24/2017	16:49	18.44	93.27	<|0.05|	0
BET-MW7s	7/14/2017	16:38	16.63	95.08	<|0.05|	0
BET-MW7s	8/25/2017	11:30	13.00	98.71	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
BET-MW7s	9/22/2017	14:22	13.41	98.30	<|0.05|	0
BET-MW7s	10/19/2017	14:04	14.50	97.21	<|0.05|	0
BET-MW7s	11/27/2017	11:53	14.76	96.95	<|0.05|	0
BET-MW7s	12/21/2017	14:23	15.40	96.31	<|0.05|	0
BET-MW7s	1/23/2018	14:12	15.78	95.93	<|0.05|	0
BET-MW7s	2/22/2018	8:40	15.40	96.31	<|0.05|	0
BET-MW7s	3/1/2018		N/M			
BET-MW7s	4/24/2018	15:38	17.08	94.63	<|0.05|	0
BET-MW7s	5/9/2018	15:28	17.32	94.39	<|0.05|	0
BET-MW7s	6/13/2018	14:28	17.09	94.62	<|0.05|	0
BET-MW7s	7/16/2018	12:19	14.64	97.07	<|0.05|	0
BET-MW7s	8/24/2018	10:30	11.44	100.27	<|0.05|	0
BET-MW7s	9/16/2018	16:10	10.87	100.84	<|0.05|	0
BET-MW7s	10/25/2018	13:30	13.34	98.37	<|0.05|	0
BET-MW7s	11/12/2018	16:06	13.65	98.06	<|0.05|	0
BET-MW7s	12/15/2018	13:15	14.75	96.96	<|0.05|	0
BET-MW7s	1/25/2019	16:21	15.22	96.49	<|0.05|	0
BET-MW7s	2/21/2019	10:39	14.65	97.06	<|0.05|	0
BET-MW7s	3/16/2019	15:05	15.15	96.56	<|0.05|	0
BET-MW7s	4/16/2019	11:55	14.88	96.83	<|0.05|	0
BET-MW7s	5/17/2019	9:15	15.58	96.13	<|0.05|	0
BET-MW7s	6/20/2019	14:13	14.70	97.01	<|0.05|	0
BET-MW7s	7/18/2019	12:00	12.53	99.18	<|0.05|	0
BET-MW7s	8/16/2019	7:44	10.74	100.97	<|0.05|	0
BET-MW7s	9/27/2019	12:20	11.65	100.06	-0.22	-0.01
BET-MW7s	10/28/2019	13:32	12.89	98.82	<|0.05|	0
BET-MW7s	11/11/2019	8:14	13.40	98.31	<|0.05|	0
BET-MW7s	12/14/2019	11:32	14.40	97.31	<|0.05|	0
BET-MW7d	1/29/2012	10:15	11.70	99.80		
BET-MW7d	2/9/2012	14:17	12.00	99.50		
BET-MW7d	3/5/2012	14:38	11.13	100.37		
BET-MW7d	4/5/2012	13:30	12.04	99.46		
BET-MW7d	5/10/2012	14:01	12.77	98.73		
BET-MW7d	6/18/2012	14:23	11.15	100.35		
BET-MW7d	7/11/2012	9:40	11.13	100.37		
BET-MW7d	8/14/2012	10:31	8.07	103.43		
BET-MW7d	9/18/2012	9:14	9.65	101.85		
BET-MW7d	10/19/2012	13:18	10.37	101.13		
BET-MW7d	12/7/2012	10:47	10.37	101.13		
BET-MW7d	12/28/2012	14:38	13.44	98.06		
BET-MW7d	1/16/2013	12:23	13.65	97.85		
BET-MW7d	2/16/2013	17:37	12.64	98.86		
BET-MW7d	3/21/2013	11:44	12.85	98.65		
BET-MW7d	4/16/2013	15:48	14.01	97.49		
BET-MW7d	5/30/2013	10:34	13.48	98.02		
BET-MW7d	6/17/2013	10:42	11.34	100.16		
BET-MW7d	7/16/2013	10:44	9.63	101.87		
BET-MW7d	8/26/2013	12:23	8.50	103.00		
BET-MW7d	9/9/2013	16:53	8.53	102.97		
BET-MW7d	10/7/2013	17:57	10.72	100.78		
BET-MW7d	11/15/2013	8:41	13.18	98.32		
BET-MW7d	12/17/2013	16:49	14.64	96.86		
BET-MW7d	1/13/2014	16:19	15.51	95.99		
BET-MW7d	2/24/2014	12:55	15.85	95.65		
BET-MW7d	3/16/2014	16:53	16.55	94.95		
BET-MW7d	4/19/2014	15:57	16.82	94.68		
BET-MW7d	5/23/2014	6:41	17.64	93.86		
BET-MW7d	6/19/2014	16:55	16.40	95.10		
BET-MW7d	7/17/2014	15:17	14.17	97.33		
BET-MW7d	8/25/2014	13:04	12.51	98.99		
BET-MW7d	9/22/2014	16:24	14.13	97.37		
BET-MW7d	10/14/2014	17:17	14.90	96.60		
BET-MW7d	11/11/2014	8:43	16.46	95.04		
BET-MW7d	12/15/2014	13:24	18.05	93.45		
BET-MW7d	1/12/2015	19:51	18.08	93.42		
BET-MW7d	2/10/2015	8:34	17.67	93.83		
BET-MW7d	3/13/2015	17:31	15.39	96.11		
BET-MW7d	4/17/2015	15:45	18.88	92.62		
BET-MW7d	5/14/2015	17:29	19.15	92.35		
BET-MW7d	6/5/2015	11:16	19.40	92.10		
BET-MW7d	7/13/2015	16:05	16.97	94.53		
BET-MW7d	8/18/2015	12:44	16.13	95.37		
BET-MW7d	9/14/2015	12:46	17.36	94.14		
BET-MW7d	10/16/2015	12:26	18.68	92.82		
BET-MW7d	11/11/2015	11:02	19.66	91.84		
BET-MW7d	12/23/2015	14:32	20.84	90.66		
BET-MW7d	1/15/2016	15:04	21.45	90.05		
BET-MW7d	2/18/2016	17:15	21.02	90.48		
BET-MW7d	3/18/2016	17:00	20.67	90.83		
BET-MW7d	4/18/2016	18:02	21.64	89.86		
BET-MW7d	5/19/2016	11:50	21.70	89.80		
BET-MW7d	6/16/2016	12:22	21.27	90.23		
BET-MW7d	7/21/2016	17:20	18.55	92.95		
BET-MW7d	8/19/2016	9:35	16.70	94.80		
BET-MW7d	9/15/2016	13:41	17.31	94.19		
BET-MW7d	10/14/2016	17:06	18.84	92.66		
BET-MW7d	11/22/2016	11:41	18.77	92.73		
BET-MW7d	12/12/2016	14:03	19.34	92.16		
BET-MW7d	1/25/2017	13:46	19.98	91.52		
BET-MW7d	2/1/2017		N/M			
BET-MW7d	3/15/2017	10:45	18.66	92.84		
BET-MW7d	4/20/2017	13:33	17.71	93.79		
BET-MW7d	5/18/2017	9:07	18.43	93.07		
BET-MW7d	6/24/2017	16:50	18.23	93.27		
BET-MW7d	7/14/2017	16:39	16.43	95.07		
BET-MW7d	8/25/2017	11:31	12.80	98.70		
BET-MW7d	9/22/2017	14:23	13.22	98.28		
BET-MW7d	10/19/2017	14:05	14.32	97.18		
BET-MW7d	11/27/2017	11:53	14.58	96.92		
BET-MW7d	12/21/2017	14:24	15.23	96.27		
BET-MW7d	1/23/2018	14:13	15.56	95.94		
BET-MW7d	2/22/2018	8:41	15.20	96.30		
BET-MW7d	3/1/2018		N/M			
BET-MW7d	4/24/2018	15:38	16.85	94.65		
BET-MW7d	5/9/2018	15:29	17.12	94.38		
BET-MW7d	6/13/2018	14:29	16.90	94.60		
BET-MW7d	7/16/2018	12:20	14.45	97.05		
BET-MW7d	8/24/2018	10:30	11.21	100.29		
BET-MW7d	9/16/2018	16:10	10.65	100.85		
BET-MW7d	10/25/2018	13:31	13.12	98.38		
BET-MW7d	11/12/2018	16:01	13.46	98.04		
BET-MW7d	12/15/2018	13:16	14.55	96.95		
BET-MW7d	1/25/2019	16:22	15.03	96.47		
BET-MW7d	2/21/2019	10:40	14.46	97.04		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
BET-MW7d	3/16/2019	15:05	14.95	96.55		
BET-MW7d	4/16/2019	11:55	14.66	96.84		
BET-MW7d	5/17/2019	9:15	15.37	96.13		
BET-MW7d	6/20/2019	14:14	14.50	97.00		
BET-MW7d	7/18/2019	12:00	12.33	99.17		
BET-MW7d	8/16/2019	7:44	10.52	100.98		
BET-MW7d	9/27/2019	12:20	11.22	100.28		
BET-MW7d	10/28/2019	13:33	12.67	98.83		
BET-MW7d	11/11/2019	8:14	13.19	98.31		
BET-MW7d	12/14/2019	11:33	14.20	97.30		
BET-MW8s	1/29/2012	10:17	12.39	98.83	0.06	0.00
BET-MW8s	2/9/2012	12:09	12.72	98.50	0.10	0.00
BET-MW8s	3/5/2012	14:40	11.73	99.49	0.07	0.00
BET-MW8s	4/5/2012	13:33	13.49	97.73	0.06	0.00
BET-MW8s	5/10/2012	14:22	13.93	97.29	<|0.05|	0
BET-MW8s	6/18/2012	14:28	10.47	100.75	0.11	0.01
BET-MW8s	7/11/2012	9:37	9.50	101.72	0.10	0.00
BET-MW8s	8/14/2012	10:24	7.94	103.28	0.11	0.01
BET-MW8s	9/18/2012	9:11	10.52	100.70	0.06	0.00
BET-MW8s	10/19/2012	13:27	11.30	99.92	<|0.05|	0
BET-MW8s	12/7/2012	10:43	11.30	99.92	<|0.05|	0
BET-MW8s	12/28/2012	14:42	14.64	96.58	<|0.05|	0
BET-MW8s	1/16/2013	12:31	14.82	96.40	<|0.05|	0
BET-MW8s	2/16/2013	17:45	13.20	98.02	<|0.05|	0
BET-MW8s	3/21/2013	11:40	13.46	97.76	0.09	0.00
BET-MW8s	4/16/2013	15:58	15.10	96.12	0.05	0.00
BET-MW8s	5/30/2013	10:26	14.36	96.86	<|0.05|	0
BET-MW8s	6/17/2013	10:51	11.64	99.58	0.09	0.00
BET-MW8s	7/16/2013	10:53	9.60	101.62	0.10	0.00
BET-MW8s	8/26/2013	12:32	8.57	102.65	0.10	0.00
BET-MW8s	9/9/2013	16:49	8.89	102.33	<|0.05|	0
BET-MW8s	10/7/2013	18:05	11.53	99.69	<|0.05|	0
BET-MW8s	11/15/2013	8:51	14.07	97.15	0.06	0.00
BET-MW8s	12/17/2013	16:56	15.54	95.68	0.06	0.00
BET-MW8s	1/13/2014	16:25	16.49	94.73	0.06	0.00
BET-MW8s	2/24/2014	12:46	17.13	94.09	0.10	0.00
BET-MW8s	3/16/2014	17:02	17.72	93.50	<|0.05|	0
BET-MW8s	4/19/2014	16:05	18.34	92.88	<|0.05|	0
BET-MW8s	5/23/2014	6:53	19.08	92.14	0.07	0.00
BET-MW8s	6/19/2014	17:06	17.55	93.67	0.06	0.00
BET-MW8s	7/17/2014	15:28	14.92	96.30	0.09	0.00
BET-MW8s	8/25/2014	12:54	12.79	98.43	0.11	0.01
BET-MW8s	9/22/2014	16:32	14.56	96.66	0.11	0.01
BET-MW8s	10/14/2014	17:27	15.59	95.63	0.11	0.01
BET-MW8s	11/11/2014	8:34	17.22	94.00	0.06	0.00
BET-MW8s	12/15/2014	13:16	18.84	92.38	0.07	0.00
BET-MW8s	1/12/2015	20:05	18.88	92.34	0.07	0.00
BET-MW8s	2/10/2015	8:42	18.21	93.01	<|0.05|	0
BET-MW8s	3/13/2015	17:40	17.32	93.90	0.09	0.00
BET-MW8s	4/17/2015	15:52	19.73	91.49	0.06	0.00
BET-MW8s	5/14/2015	17:36	19.95	91.27	0.10	0.00
BET-MW8s	6/5/2015	11:10	20.41	90.81	0.06	0.00
BET-MW8s	7/13/2015	16:00	17.35	93.87	0.09	0.00
BET-MW8s	8/18/2015	12:57	16.48	94.74	0.12	0.01
BET-MW8s	9/14/2015	12:39	17.89	93.33	0.10	0.00
BET-MW8s	10/16/2015	12:34	19.24	91.98	0.08	0.00
BET-MW8s	11/11/2015	11:09	20.14	91.08	0.06	0.00
BET-MW8s	12/23/2015	14:39	21.38	89.84	0.16	0.01
BET-MW8s	1/15/2016	15:10	22.27	88.95	0.11	0.01
BET-MW8s	2/18/2016	17:22	21.97	89.25	0.11	0.01
BET-MW8s	3/18/2016	17:09	21.76	89.46	0.23	0.01
BET-MW8s	4/18/2016	18:09	27.79	83.43	0.15	0.01
BET-MW8s	5/19/2016	11:47	23.12	88.10	0.11	0.01
BET-MW8s	6/16/2016	12:28	22.92	88.30	0.06	0.00
BET-MW8s	7/21/2016	17:30	19.42	91.80	0.11	0.01
BET-MW8s	8/19/2016	9:51	17.48	93.74	0.11	0.01
BET-MW8s	9/15/2016	13:47	17.72	93.50	0.15	0.01
BET-MW8s	10/14/2016	17:12	19.73	91.49	0.13	0.01
BET-MW8s	11/22/2016	11:39	19.43	91.79	0.10	0.00
BET-MW8s	12/12/2016	14:09	20.00	91.22	0.07	0.00
BET-MW8s	1/25/2017	13:57	20.84	90.38	0.07	0.00
BET-MW8s	2/1/2017		N/M			
BET-MW8s	3/15/2017	10:50	19.18	92.04	0.07	0.00
BET-MW8s	4/20/2017	13:39	18.20	93.02	0.07	0.00
BET-MW8s	5/18/2017	9:13	19.15	92.07	0.10	0.00
BET-MW8s	6/24/2017	16:54	18.54	92.68	0.05	0.00
BET-MW8s	7/14/2017	16:44	16.35	94.87	0.05	0.00
BET-MW8s	8/25/2017	11:28	12.40	98.82	0.10	0.00
BET-MW8s	9/22/2017	14:27	13.18	98.04	0.12	0.01
BET-MW8s	10/19/2017	14:09	14.20	97.02	0.10	0.00
BET-MW8s	11/27/2017	11:50	14.60	96.62	0.09	0.00
BET-MW8s	12/21/2017	14:27	15.39	95.83	0.10	0.00
BET-MW8s	1/23/2018	14:16	16.12	95.10	0.07	0.00
BET-MW8s	2/22/2018	8:35	15.63	95.59	0.11	0.01
BET-MW8s	3/1/2018		N/M			
BET-MW8s	4/24/2018	15:47	17.30	93.92	0.08	0.00
BET-MW8s	5/9/2018	15:36	17.72	93.50	0.08	0.00
BET-MW8s	6/13/2018	14:35	17.52	93.70	0.07	0.00
BET-MW8s	7/16/2018	12:22	14.48	96.74	0.09	0.00
BET-MW8s	8/24/2018	10:28	11.04	100.18	0.13	0.01
BET-MW8s	9/16/2018	16:15	10.42	100.80	0.17	0.01
BET-MW8s	10/25/2018	13:35	13.89	97.33	0.07	0.00
BET-MW8s	11/12/2018	16:04	13.94	97.28	0.08	0.00
BET-MW8s	12/15/2018	13:18	15.15	96.07	0.10	0.00
BET-MW8s	1/25/2019	16:25	15.35	95.87	0.08	0.00
BET-MW8s	2/21/2019	10:34	15.38	95.84	0.08	0.00
BET-MW8s	3/16/2019	15:07	15.68	95.54	0.08	0.00
BET-MW8s	4/16/2019	12:03	15.27	95.95	0.08	0.00
BET-MW8s	5/17/2019	9:10	16.38	94.84	0.09	0.00
BET-MW8s	6/20/2019	14:17	15.68	95.54	0.14	0.01
BET-MW8s	7/18/2019	12:12	12.62	98.60	0.13	0.01
BET-MW8s	8/16/2019	7:33	10.78	100.44	0.15	0.01
BET-MW8s	9/27/2019	12:23	11.63	99.59	0.14	0.01
BET-MW8s	10/28/2019	13:45	13.30	97.92	0.09	0.00
BET-MW8s	11/11/2019	8:19	13.85	97.37	0.10	0.00
BET-MW8s	12/14/2019	11:35	14.95	96.27	<|0.05|	0
BET-MW8d	1/29/2012	10:17	12.20	98.77		
BET-MW8d	2/9/2012	12:10	12.57	98.40		
BET-MW8d	3/5/2012	14:41	11.55	99.42		
BET-MW8d	4/5/2012	13:35	13.30	97.67		
BET-MW8d	5/10/2012	14:22	13.72	97.25		
BET-MW8d	6/18/2012	14:27	10.33	100.64		
BET-MW8d	7/11/2012	9:37	9.35	101.62		
BET-MW8d	8/14/2012	10:24	7.80	103.17		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
BET-MW8d	9/18/2012	9:11	10.33	100.64		
BET-MW8d	10/19/2012	13:27	11.09	99.88		
BET-MW8d	12/7/2012	10:43	11.09	99.88		
BET-MW8d	12/28/2012	14:43	14.43	96.54		
BET-MW8d	1/16/2013	12:32	14.60	96.37		
BET-MW8d	2/16/2013	17:46	13.00	97.97		
BET-MW8d	3/21/2013	11:41	13.30	97.67		
BET-MW8d	4/16/2013	15:58	14.90	96.07		
BET-MW8d	5/30/2013	10:27	14.12	96.85		
BET-MW8d	6/17/2013	10:53	11.48	99.49		
BET-MW8d	7/16/2013	10:53	9.45	101.52		
BET-MW8d	8/26/2013	12:32	8.42	102.55		
BET-MW8d	9/9/2013	16:49	8.60	102.37		
BET-MW8d	10/7/2013	18:05	11.33	99.64		
BET-MW8d	11/15/2013	8:51	13.88	97.09		
BET-MW8d	12/17/2013	16:56	15.35	95.62		
BET-MW8d	1/13/2014	16:25	16.30	94.67		
BET-MW8d	2/24/2014	12:46	16.98	93.99		
BET-MW8d	3/16/2014	17:02	17.52	93.45		
BET-MW8d	4/19/2014	16:05	18.09	92.88		
BET-MW8d	5/23/2014	6:53	18.90	92.07		
BET-MW8d	6/19/2014	17:06	17.36	93.61		
BET-MW8d	7/17/2014	15:28	14.76	96.21		
BET-MW8d	8/25/2014	12:54	12.65	98.32		
BET-MW8d	9/22/2014	16:32	14.42	96.55		
BET-MW8d	10/14/2014	17:27	15.45	95.52		
BET-MW8d	11/11/2014	8:34	17.03	93.94		
BET-MW8d	12/15/2014	13:16	18.66	92.31		
BET-MW8d	1/12/2015	20:05	18.70	92.27		
BET-MW8d	2/10/2015	8:42	17.99	92.98		
BET-MW8d	3/13/2015	17:40	17.16	93.81		
BET-MW8d	4/17/2015	15:52	19.54	91.43		
BET-MW8d	5/14/2015	17:36	19.80	91.17		
BET-MW8d	6/5/2015	11:10	20.22	90.75		
BET-MW8d	7/13/2015	16:01	17.19	93.78		
BET-MW8d	8/18/2015	12:57	16.35	94.62		
BET-MW8d	9/14/2015	12:40	17.74	93.23		
BET-MW8d	10/16/2015	12:35	19.07	91.90		
BET-MW8d	11/11/2015	11:10	19.95	91.02		
BET-MW8d	12/23/2015	14:40	21.29	89.68		
BET-MW8d	1/15/2016	15:11	22.13	88.84		
BET-MW8d	2/18/2016	17:23	21.83	89.14		
BET-MW8d	3/18/2016	17:09	21.74	89.23		
BET-MW8d	4/18/2016	18:09	27.69	83.28		
BET-MW8d	5/19/2016	11:46	22.98	87.99		
BET-MW8d	6/16/2016	12:29	22.73	88.24		
BET-MW8d	7/21/2016	17:30	19.28	91.69		
BET-MW8d	8/19/2016	9:50	17.34	93.63		
BET-MW8d	9/15/2016	13:48	17.62	93.35		
BET-MW8d	10/14/2016	17:13	19.61	91.36		
BET-MW8d	11/22/2016	11:39	19.28	91.69		
BET-MW8d	12/12/2016	14:10	19.82	91.15		
BET-MW8d	1/25/2017	13:58	20.66	90.31		
BET-MW8d	2/1/2017		N/M			
BET-MW8d	3/15/2017	10:50	19.00	91.97		
BET-MW8d	4/20/2017	13:40	18.02	92.95		
BET-MW8d	5/18/2017	9:14	19.00	91.97		
BET-MW8d	6/24/2017	16:55	18.34	92.63		
BET-MW8d	7/14/2017	16:45	16.15	94.82		
BET-MW8d	8/25/2017	11:28	12.25	98.72		
BET-MW8d	9/22/2017	14:28	13.05	97.92		
BET-MW8d	10/19/2017	14:10	14.05	96.92		
BET-MW8d	11/27/2017	11:50	14.44	96.53		
BET-MW8d	12/21/2017	14:28	15.24	95.73		
BET-MW8d	1/23/2018	14:17	15.94	95.03		
BET-MW8d	2/22/2018	8:36	15.49	95.48		
BET-MW8d	3/1/2018		N/M			
BET-MW8d	4/24/2018	15:47	17.13	93.84		
BET-MW8d	5/9/2018	15:37	17.55	93.42		
BET-MW8d	6/13/2018	14:36	17.34	93.63		
BET-MW8d	7/16/2018	12:23	14.32	96.65		
BET-MW8d	8/24/2018	10:28	10.92	100.05		
BET-MW8d	9/16/2018	16:15	10.34	100.63		
BET-MW8d	10/25/2018	13:36	13.71	97.26		
BET-MW8d	11/12/2018	16:05	13.77	97.20		
BET-MW8d	12/15/2018	13:19	15.00	95.97		
BET-MW8d	1/25/2019	16:26	15.18	95.79		
BET-MW8d	2/21/2019	10:35	15.21	95.76		
BET-MW8d	3/16/2019	15:08	15.51	95.46		
BET-MW8d	4/16/2019	12:03	15.10	95.87		
BET-MW8d	5/17/2019	9:10	16.22	94.75		
BET-MW8d	6/20/2019	14:18	15.57	95.40		
BET-MW8d	7/18/2019	12:12	12.50	98.47		
BET-MW8d	8/16/2019	7:33	10.68	100.29		
BET-MW8d	9/27/2019	12:23	11.52	99.45		
BET-MW8d	10/28/2019	13:46	13.14	97.83		
BET-MW8d	11/11/2019	8:19	13.70	97.27		
BET-MW8d	12/14/2019	11:36	14.75	96.22		
DIE-MW1	1/16/2013	7:30	100.93	75.85		
DIE-MW1	2/18/2013	9:03	102.31	74.47		
DIE-MW1	3/19/2013	15:09	103.93	72.85		
DIE-MW1	4/17/2013	17:09	106.07	70.71		
DIE-MW1	6/3/2013	8:39	107.35	69.43		
DIE-MW1	6/21/2013	18:48	107.19	69.59		
DIE-MW1	7/15/2013	10:09	107.28	69.50		
DIE-MW1	8/20/2013	11:15	107.02	69.76		
DIE-MW1	9/9/2013	8:44	109.38	67.40		
DIE-MW1	10/7/2013	10:14	106.85	69.93		
DIE-MW1	11/11/2013	9:22	106.53	70.25		
DIE-MW1	12/17/2013	10:08	106.24	70.54		
DIE-MW1	1/13/2014	9:19	105.58	71.20		
DIE-MW1	2/24/2014	9:00	104.95	71.83		
DIE-MW1	3/19/2014	19:26	105.53	71.25		
DIE-MW1	4/19/2014	7:32	105.78	71.00		
DIE-MW1	5/20/2014	12:55	106.13	70.65		
DIE-MW1	6/20/2014	10:09	106.20	70.58		
DIE-MW1	7/18/2014	19:57	105.34	71.44		
DIE-MW1	8/24/2014	16:00	104.73	72.05		
DIE-MW1	9/25/2014	11:15	104.56	72.22		
DIE-MW1	10/13/2014	17:42	104.25	72.53		
DIE-MW1	11/12/2014	9:06	103.95	72.83		
DIE-MW1	12/14/2014	14:20	103.82	72.96		
DIE-MW1	1/14/2015	16:11	103.62	73.16		
DIE-MW1	2/12/2015	15:37	103.30	73.48		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
DIE-MW1	3/13/2015	14:05	102.80	73.98		
DIE-MW1	4/17/2015	6:04	103.47	73.31		
DIE-MW1	5/19/2015	16:35	99.88	76.90		
DIE-MW1	6/9/2015	16:25	87.61	89.17		
DIE-MW1	7/29/2015	16:24	86.65	90.13		
DIE-MW1	8/17/2015	13:20	86.70	90.08		
DIE-MW1	9/23/2015	19:04	86.55	90.23		
DIE-MW1	10/16/2015	8:15	86.80	89.98		
DIE-MW1	11/13/2015	16:00	86.84	89.94		
DIE-MW1	12/26/2015	11:00	87.72	89.06		
DIE-MW1	1/14/2016	16:20	87.85	88.93		
DIE-MW1	3/1/2016	9:10	88.36	88.42		
DIE-MW1	3/23/2016	10:30	88.72	88.06		
DIE-MW1	4/25/2016	10:19	88.04	88.74		
DIE-MW1	5/24/2016	14:22	87.42	89.36		
DIE-MW1	6/16/2016	12:07	87.00	89.78		
DIE-MW1	7/29/2016	7:26	86.68	90.10		
DIE-MW1	8/24/2016	13:15	86.23	90.55		
DIE-MW1	9/15/2016	16:03	86.12	90.66		
DIE-MW1	10/25/2016	16:28	86.10	90.68		
DIE-MW1	11/15/2016	15:07	86.60	90.18		
DIE-MW1	12/21/2016	13:01	86.88	89.90		
DIE-MW1	1/26/2017	10:40	87.30	89.48		
DIE-MW1	2/1/2017		N/M			
DIE-MW1	3/23/2017	12:56	87.72	89.06		
DIE-MW1	5/1/2017	15:08	87.98	88.80		
DIE-MW1	5/15/2017	17:38	88.05	88.73		
DIE-MW1	6/30/2017	17:17	87.76	89.02		
DIE-MW1	7/14/2017	14:58	87.20	89.58		
DIE-MW1	8/28/2017	10:17	87.10	89.68		
DIE-MW1	9/28/2017	14:57	87.25	89.53		
DIE-MW1	10/18/2017	14:32	87.34	89.44		
DIE-MW1	11/28/2017	15:38	87.58	89.20		
DIE-MW1	12/29/2017	9:34	87.84	88.94		
DIE-MW1	1/16/2018	17:29	87.90	88.88		
DIE-MW1	2/27/2018	9:45	88.11	88.67		
DIE-MW1	3/1/2018		N/M			
DIE-MW1	4/25/2018	18:34	87.48	89.30		
DIE-MW1	5/8/2018	12:46	87.55	89.23		
DIE-MW1	6/12/2018	16:15	87.27	89.51		
DIE-MW1	7/24/2018	15:40	86.68	90.10		
DIE-MW1	8/20/2018	15:18	86.60	90.18		
DIE-MW1	9/7/2018	15:46	86.38	90.40		
DIE-MW1	10/19/2018	15:40	85.84	90.94		
DIE-MW1	11/12/2018	16:07	85.98	90.80		
DIE-MW1	12/18/2018	11:23	86.80	89.98		
DIE-MW1	1/22/2019	12:01	87.15	89.63		
DIE-MW1	2/22/2019	11:40	87.59	89.19		
DIE-MW1	3/18/2019	10:04	87.80	88.98		
DIE-MW1	4/16/2019	13:39	87.74	89.04		
DIE-MW1	5/20/2019	12:00	87.83	88.95		
DIE-MW1	6/27/2019	8:32	87.63	89.15		
DIE-MW1	7/22/2019	13:42	87.03	89.75		
DIE-MW1	8/8/2019	16:46	86.91	89.87		
DIE-MW1	9/25/2019	14:34	86.75	90.03		
DIE-MW1	10/29/2019	12:16	86.52	90.26		
DIE-MW1	11/18/2019	12:50	86.19	90.59		
DIE-MW1	12/10/2019	14:18	86.28	90.50		
DIE-MW2	1/16/2013	7:35	101.80	71.71		
DIE-MW2	2/18/2013	9:17	104.88	68.63		
DIE-MW2	3/19/2013	15:15	108.59	64.92		
DIE-MW2	4/17/2013	16:58	115.51	58.00		
DIE-MW2	6/3/2013	8:56	118.98	54.53		
DIE-MW2	6/21/2013	18:55	117.35	56.16		
DIE-MW2	7/15/2013	10:02	120.43	53.08		
DIE-MW2	8/20/2013	11:04	123.10	50.41		
DIE-MW2	9/9/2013	8:39	124.19	49.32		
DIE-MW2	10/7/2013	10:04	120.93	52.58		
DIE-MW2	11/11/2013	9:29	117.03	56.48		
DIE-MW2	12/17/2013	9:59	114.52	58.99		
DIE-MW2	1/13/2014	9:11	113.08	60.43		
DIE-MW2	2/24/2014	9:10	111.89	61.62		
DIE-MW2	3/19/2014	19:18	111.24	62.27		
DIE-MW2	4/19/2014	7:21	114.62	58.89		
DIE-MW2	5/20/2014	12:57	121.72	51.79		
DIE-MW2	6/20/2014	10:21	120.64	52.87		
DIE-MW2	7/18/2014	19:50	125.60	47.91		
DIE-MW2	8/24/2014	16:14	Dry			
DIE-MW2	9/25/2014	11:00	125.18	48.33		
DIE-MW2	10/13/2014	17:33	125.78	47.73		
DIE-MW2	11/12/2014	9:00	122.63	50.88		
DIE-MW2	12/14/2014	14:22	122.12	51.39		
DIE-MW2	1/14/2015	16:00	119.00	54.51		
DIE-MW2	2/12/2015	15:29	118.18	55.33		
DIE-MW2	3/13/2015	14:15	123.00	50.51		
DIE-MW2	4/17/2015	6:12	118.36	55.15		
DIE-MW2	5/19/2015	16:31	Dry			
DIE-MW2	6/9/2015	16:28	Dry			
DIE-MW2	7/29/2015	16:20	Dry			
DIE-MW2	8/17/2015	13:12	Dry			
DIE-MW2	9/23/2015	19:15	Dry			
DIE-MW2	10/16/2015	8:08	Dry			
DIE-MW2	11/13/2015	15:55	Dry			
DIE-MW2	12/26/2015	11:07	124.29	49.22		
DIE-MW2	1/14/2016	16:33	122.82	50.69		
DIE-MW2	3/1/2016	9:00	123.77	49.74		
DIE-MW2	3/23/2016	10:37	126.10	47.41		
DIE-MW2	4/25/2016	10:28	Dry			
DIE-MW2	5/24/2016	14:10	Dry			
DIE-MW2	6/16/2016	11:57	Dry			
DIE-MW2	7/29/2016	7:13	Dry			
DIE-MW2	8/24/2016	13:04	Dry			
DIE-MW2	9/15/2016	16:14	Dry			
DIE-MW2	10/25/2016	16:20	Dry			
DIE-MW2	11/15/2016	15:00	Dry			
DIE-MW2	12/21/2016	13:08	Dry			
DIE-MW2	1/26/2017	10:43	Dry			
DIE-MW2	2/1/2017		N/M			
DIE-MW2	3/23/2017	12:50	123.72	49.79		
DIE-MW2	5/1/2017	15:16	125.76	47.75		
DIE-MW2	5/15/2017	17:30	125.49	48.02		
DIE-MW2	6/30/2017	17:25	Dry			
DIE-MW2	7/14/2017	14:49	126.63	46.88		
DIE-MW2	8/28/2017	10:20	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
DIE-MW2	9/28/2017	14:47	123.10	50.41		
DIE-MW2	10/18/2017	14:41	120.52	52.99		
DIE-MW2	11/28/2017	15:20	115.54	57.97		
DIE-MW2	12/29/2017	3:40	113.34	60.17		
DIE-MW2	1/16/2018	17:38	112.00	61.51		
DIE-MW2	2/27/2018	9:34	112.30	61.21		
DIE-MW2	3/1/2018		N/M			
DIE-MW2	4/25/2018	18:42	112.90	60.61		
DIE-MW2	5/8/2018	12:38	114.74	58.77		
DIE-MW2	6/12/2018	16:07	114.34	59.17		
DIE-MW2	7/24/2018	15:30	118.01	55.50		
DIE-MW2	8/20/2018	15:34	119.12	54.39		
DIE-MW2	9/7/2018	15:55	118.22	55.29		
DIE-MW2	10/19/2018	15:20	116.93	56.58		
DIE-MW2	11/12/2018	16:23	115.17	58.34		
DIE-MW2	12/18/2018	11:13	110.00	63.51		
DIE-MW2	1/22/2019	11:52	106.02	67.49		
DIE-MW2	2/22/2019	11:30	104.21	69.30		
DIE-MW2	3/18/2019	9:55	102.98	70.53		
DIE-MW2	4/16/2019	13:31	107.70	65.81		
DIE-MW2	5/20/2019	12:10	110.30	63.21		
DIE-MW2	6/27/2019	8:20	112.44	61.07		
DIE-MW2	7/22/2019	13:30	113.88	59.63		
DIE-MW2	8/8/2019	16:56	114.89	58.62		
DIE-MW2	9/25/2019	14:47	113.04	60.47		
DIE-MW2	10/29/2019	12:10	111.86	61.65		
DIE-MW2	11/18/2019	12:58	105.60	67.91		
DIE-MW2	12/10/2019	14:26	100.92	72.59		
DIE-MW3	1/16/2013	7:42	101.59	72.35		
DIE-MW3	2/18/2013	9:14	100.87	73.07		
DIE-MW3	3/19/2013	15:21	103.69	70.25		
DIE-MW3	4/17/2013	17:04	106.95	66.99		
DIE-MW3	6/3/2013	8:46	109.93	64.01		
DIE-MW3	6/21/2013	18:52	109.61	64.33		
DIE-MW3	7/15/2013	9:55	110.74	63.20		
DIE-MW3	8/20/2013	11:10	112.67	61.27		
DIE-MW3	9/9/2013	8:36	113.33	60.61		
DIE-MW3	10/7/2013	10:09	111.40	62.54		
DIE-MW3	11/11/2013	9:26	109.90	64.04		
DIE-MW3	12/17/2013	10:03	107.27	66.67		
DIE-MW3	1/13/2014	9:15	106.58	67.36		
DIE-MW3	2/24/2014	9:07	106.24	67.70		
DIE-MW3	3/19/2014	19:22	106.10	67.84		
DIE-MW3	4/19/2014	7:26	108.40	65.54		
DIE-MW3	5/20/2014	13:00	111.49	62.45		
DIE-MW3	6/20/2014	10:16	112.71	61.23		
DIE-MW3	7/18/2014	19:53	115.40	58.54		
DIE-MW3	8/24/2014	16:08	117.50	56.44		
DIE-MW3	9/25/2014	11:10	117.60	56.34		
DIE-MW3	10/13/2014	17:37	116.96	56.98		
DIE-MW3	11/12/2014	9:18	116.07	57.87		
DIE-MW3	12/14/2014	14:26	115.43	58.51		
DIE-MW3	1/14/2015	16:05	113.67	60.27		
DIE-MW3	2/12/2015	15:33	113.09	60.85		
DIE-MW3	3/13/2015	14:08	115.20	58.74		
DIE-MW3	4/17/2015	6:09	114.00	59.94		
DIE-MW3	5/19/2015	16:28	117.53	56.41		
DIE-MW3	6/9/2015	16:33	118.19	55.75		
DIE-MW3	7/29/2015	16:22	Dry			
DIE-MW3	8/17/2015	13:16	Dry			
DIE-MW3	9/23/2015	19:10	Dry			
DIE-MW3	10/16/2015	8:10	Dry			
DIE-MW3	11/13/2015	15:52	Dry			
DIE-MW3	12/26/2015	11:10	118.32	55.62		
DIE-MW3	1/14/2016	16:26	112.44	61.50		
DIE-MW3	3/1/2016	8:53	117.30	56.64		
DIE-MW3	3/23/2016	10:33	118.73	55.21		
DIE-MW3	4/25/2016	10:24	Dry			
DIE-MW3	5/24/2016	14:30	Dry			
DIE-MW3	6/16/2016	12:00	Dry			
DIE-MW3	7/29/2016	7:19	Dry			
DIE-MW3	8/24/2016	13:09	Dry			
DIE-MW3	9/15/2016	16:08	Dry			
DIE-MW3	10/25/2016	16:22	Dry			
DIE-MW3	11/15/2016	15:05	Dry			
DIE-MW3	12/21/2016	13:04	Dry			
DIE-MW3	1/26/2017	10:50	120.45	53.49		
DIE-MW3	2/1/2017		N/M			
DIE-MW3	3/23/2017	12:53	118.66	55.28		
DIE-MW3	5/1/2017	15:12	119.33	54.61		
DIE-MW3	5/15/2017	17:35	118.37	55.57		
DIE-MW3	6/30/2017	17:20	Dry			
DIE-MW3	7/14/2017	14:54	117.97	55.97		
DIE-MW3	8/28/2017	10:23	119.90	54.04		
DIE-MW3	9/28/2017	14:52	115.10	58.84		
DIE-MW3	10/18/2017	14:37	113.93	60.01		
DIE-MW3	11/28/2017	15:30	109.40	64.54		
DIE-MW3	12/29/2017	9:37	108.36	65.58		
DIE-MW3	1/16/2018	17:34	106.52	67.42		
DIE-MW3	2/27/2018	9:40	107.48	66.46		
DIE-MW3	3/1/2018		N/M			
DIE-MW3	4/25/2018	18:38	106.63	67.31		
DIE-MW3	5/8/2018	12:42	107.74	66.20		
DIE-MW3	6/12/2018	16:10	107.37	66.57		
DIE-MW3	7/24/2018	15:37	109.55	64.39		
DIE-MW3	8/20/2018	15:27	111.95	61.99		
DIE-MW3	9/7/2018	15:51	111.55	62.39		
DIE-MW3	10/19/2018	15:34	111.94	62.00		
DIE-MW3	11/12/2018	16:16	109.40	64.54		
DIE-MW3	12/18/2018	11:18	105.73	68.21		
DIE-MW3	1/22/2019	11:56	102.83	71.11		
DIE-MW3	2/22/2019	11:35	101.26	72.68		
DIE-MW3	3/18/2019	9:59	100.52	73.42		
DIE-MW3	4/16/2019	13:35	102.93	71.01		
DIE-MW3	5/20/2019	12:06	105.52	68.42		
DIE-MW3	6/27/2019	8:27	105.17	68.77		
DIE-MW3	7/22/2019	13:37	106.52	67.42		
DIE-MW3	8/8/2019	16:48	107.21	66.73		
DIE-MW3	9/25/2019	14:40	106.93	67.01		
DIE-MW3	10/29/2019	12:05	106.31	67.63		
DIE-MW3	11/18/2019	12:54	101.21	72.73		
DIE-MW3	12/10/2019	14:22	97.38	76.56		
DIE-MW4	1/16/2013	7:50	95.71	82.62		
DIE-MW4	2/18/2013	9:10	98.20	80.13		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
DIE-MW4	3/19/2013	14:58	99.43	78.90		
DIE-MW4	4/17/2013	17:13	101.22	77.11		
DIE-MW4	6/3/2013	8:32	99.78	78.55		
DIE-MW4	6/21/2013	18:41	100.47	77.86		
DIE-MW4	7/15/2013	10:14	100.85	77.48		
DIE-MW4	8/20/2013	11:19	100.78	77.55		
DIE-MW4	9/9/2013	8:47	102.64	75.69		
DIE-MW4	10/7/2013	10:18	100.57	77.76		
DIE-MW4	11/11/2013	9:18	100.58	77.75		
DIE-MW4	12/17/2013	10:10	99.83	78.50		
DIE-MW4	1/13/2014	9:22	99.74	78.59		
DIE-MW4	2/24/2014	8:55	100.92	77.41		
DIE-MW4	3/19/2014	19:30	100.86	77.47		
DIE-MW4	4/19/2014	7:35	101.82	76.51		
DIE-MW4	5/20/2014	12:50	102.10	76.23		
DIE-MW4	6/20/2014	10:01	102.16	76.17		
DIE-MW4	7/18/2014	20:00	102.70	75.63		
DIE-MW4	8/24/2014	15:56	102.40	75.93		
DIE-MW4	9/25/2014	11:20	101.36	76.97		
DIE-MW4	10/13/2014	17:46	100.98	77.35		
DIE-MW4	11/12/2014	9:11	101.62	76.71		
DIE-MW4	12/14/2014	14:30	101.18	77.15		
DIE-MW4	1/14/2015	16:08	101.43	76.90		
DIE-MW4	2/12/2015	15:40	Dry			
DIE-MW4	3/13/2015	14:00	101.08	77.25		
DIE-MW4	4/17/2015	6:00	102.10	76.23		
DIE-MW4	5/19/2015	16:40	96.20	82.13		
DIE-MW4	6/9/2015	16:37	98.24	80.09		
DIE-MW4	7/29/2015	16:28	98.55	79.78		
DIE-MW4	8/17/2015	13:33	95.60	82.73		
DIE-MW4	9/23/2015	19:00	95.62	82.71		
DIE-MW4	10/16/2015	8:20	99.35	78.98		
DIE-MW4	11/13/2015	15:45	97.30	81.03		
DIE-MW4	12/26/2015	11:20	99.45	78.88		
DIE-MW4	1/14/2016	16:10	96.90	81.43		
DIE-MW4	3/1/2016	9:05	100.76	77.57		
DIE-MW4	3/23/2016	10:26	100.40	77.93		
DIE-MW4	4/25/2016	10:13	Dry			
DIE-MW4	5/24/2016	14:37	95.90	82.43		
DIE-MW4	6/16/2016	12:15	Dry			
DIE-MW4	7/29/2016	7:31	Dry			
DIE-MW4	8/24/2016	13:19	Dry			
DIE-MW4	9/15/2016	15:56	98.32	80.01		
DIE-MW4	10/25/2016	16:36	98.04	80.29		
DIE-MW4	11/15/2016	15:10	98.80	79.53		
DIE-MW4	12/21/2016	12:58	98.60	79.73		
DIE-MW4	1/26/2017	10:33	98.84	79.49		
DIE-MW4	2/1/2017		N/M			
DIE-MW4	3/23/2017	13:03	100.74	77.59		
DIE-MW4	5/1/2017	15:00	Dry			
DIE-MW4	5/15/2017	17:44	100.00	78.33		
DIE-MW4	6/30/2017	17:10	99.35	78.98		
DIE-MW4	7/14/2017	15:02	100.35	77.98		
DIE-MW4	8/28/2017	10:14	99.70	78.63		
DIE-MW4	9/28/2017	15:01	98.59	79.74		
DIE-MW4	10/18/2017	14:28	96.47	81.86		
DIE-MW4	11/28/2017	15:45	94.15	84.18		
DIE-MW4	12/29/2017	9:30	96.10	82.23		
DIE-MW4	1/16/2018	17:22	96.28	82.05		
DIE-MW4	2/27/2018	9:50	99.60	78.73		
DIE-MW4	3/1/2018		N/M			
DIE-MW4	4/25/2018	18:27	97.75	80.58		
DIE-MW4	5/8/2018	12:51	99.60	78.73		
DIE-MW4	6/12/2018	16:21	98.34	79.99		
DIE-MW4	7/24/2018	15:44	100.28	78.05		
DIE-MW4	8/20/2018	15:10	100.52	77.81		
DIE-MW4	9/7/2018	15:42	99.20	79.13		
DIE-MW4	10/19/2018	15:45	99.84	78.49		
DIE-MW4	11/12/2018	15:59	95.98	82.35		
DIE-MW4	12/18/2018	11:27	97.34	80.99		
DIE-MW4	1/22/2019	12:07	96.97	81.36		
DIE-MW4	2/22/2019	11:50	96.95	81.38		
DIE-MW4	3/18/2019	10:07	96.79	81.54		
DIE-MW4	4/16/2019	13:44	96.43	81.90		
DIE-MW4	5/20/2019	11:55	97.69	80.64		
DIE-MW4	6/27/2019	8:38	95.03	83.30		
DIE-MW4	7/22/2019	13:47	95.24	83.09		
DIE-MW4	8/8/2019	16:41	95.25	83.08		
DIE-MW4	9/25/2019	14:25	93.60	84.73		
DIE-MW4	10/29/2019	12:22	91.75	86.58		
DIE-MW4	11/18/2019	12:45	88.96	89.37		
DIE-MW4	12/10/2019	14:12	87.73	90.60		
DUR-MW1	1/16/2013	11:00	12.05	35.55		
DUR-MW1	2/17/2013	13:07	13.72	33.88		
DUR-MW1	3/22/2013	11:40	14.39	33.21		
DUR-MW1	4/18/2013	13:09	13.54	34.06		
DUR-MW1	5/31/2013	9:51	13.86	33.74		
DUR-MW1	6/17/2013	15:09	14.17	33.43		
DUR-MW1	7/15/2013	11:46	14.53	33.07		
DUR-MW1	8/20/2013	14:16	14.64	32.96		
DUR-MW1	9/9/2013	9:53	14.62	32.98		
DUR-MW1	10/7/2013	10:35	13.73	33.87		
DUR-MW1	11/11/2013	12:50	14.20	33.40		
DUR-MW1	12/17/2013	10:10	14.22	33.38		
DUR-MW1	1/13/2014	9:34	15.14	32.46		
DUR-MW1	2/17/2014	13:36	14.73	32.87		
DUR-MW1	3/16/2014	10:00	14.83	32.77		
DUR-MW1	4/20/2014	8:16	15.63	31.97		
DUR-MW1	5/28/2014	8:16	15.01	32.59		
DUR-MW1	6/19/2014	8:39	14.43	33.17		
DUR-MW1	7/17/2014	20:02	15.49	32.11		
DUR-MW1	8/18/2014	12:33	15.24	32.36		
DUR-MW1	9/22/2014	11:25	16.49	31.11		
DUR-MW1	10/14/2014	10:25	15.89	31.71		
DUR-MW1	11/4/2014	11:32	15.23	32.37		
DUR-MW1	12/14/2014	10:57	13.94	33.66		
DUR-MW1	1/12/2015	12:28	12.44	35.16		
DUR-MW1	2/4/2015	8:58	13.22	34.38		
DUR-MW1	3/13/2015	9:57	14.64	32.96		
DUR-MW1	4/17/2015	8:11	15.17	32.43		
DUR-MW1	5/11/2015	8:05	15.29	32.31		
DUR-MW1	6/5/2015	7:23	15.18	32.42		
DUR-MW1	7/22/2015	13:51	16.81	30.79		
DUR-MW1	8/20/2015	8:34	17.24	30.36		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
DUR-MW1	9/14/2015	9:43	16.12	31.48		
DUR-MW1	10/17/2015	12:36	15.89	31.71		
DUR-MW1	11/20/2015	9:04	15.91	31.69		
DUR-MW1	12/23/2015	10:08	15.90	31.70		
DUR-MW1	1/15/2016	10:29	15.97	31.63		
DUR-MW1	2/16/2016	12:41	15.83	31.77		
DUR-MW1	3/18/2016	9:29	16.33	31.27		
DUR-MW1	4/18/2016	9:50	16.36	31.24		
DUR-MW1	5/16/2016	11:44	16.13	31.47		
DUR-MW1	6/16/2016	9:27	15.83	31.77		
DUR-MW1	7/21/2016	9:05	17.34	30.26		
DUR-MW1	8/15/2016	11:34	16.60	31.00		
DUR-MW1	9/15/2016	9:21	16.75	30.85		
DUR-MW1	10/14/2016	9:00	16.25	31.35		
DUR-MW1	11/18/2016	8:57	15.53	32.07		
DUR-MW1	12/12/2016	9:45	15.38	32.22		
DUR-MW1	1/25/2017	9:01	15.20	32.40		
DUR-MW1	2/1/2017		N/M			
DUR-MW1	3/13/2017	9:13	13.51	34.09		
DUR-MW1	4/20/2017	8:57	13.49	34.11		
DUR-MW1	5/16/2017	8:47	13.64	33.96		
DUR-MW1	6/24/2017	9:00	11.83	35.77		
DUR-MW1	7/14/2017	9:20	13.22	34.38		
DUR-MW1	8/24/2017	7:38	13.43	34.17		
DUR-MW1	9/22/2017	10:06	12.88	34.72		
DUR-MW1	10/19/2017	9:57	12.62	34.98		
DUR-MW1	11/15/2017	9:27	13.03	34.57		
DUR-MW1	12/21/2017	9:57	12.93	34.67		
DUR-MW1	1/23/2018	9:46	13.06	34.54		
DUR-MW1	2/15/2018	11:48	13.45	34.15		
DUR-MW1	3/1/2018		N/M			
DUR-MW1	4/25/2018	7:55	14.08	33.52		
DUR-MW1	5/7/2018	11:07	13.67	33.93		
DUR-MW1	6/13/2018	10:11	13.37	34.23		
DUR-MW1	7/16/2018	8:08	14.14	33.46		
DUR-MW1	8/27/2018	8:40	13.39	34.21		
DUR-MW1	9/16/2018	11:28	13.22	34.38		
DUR-MW1	10/25/2018	9:21	13.19	34.41		
DUR-MW1	11/12/2018	8:44	13.67	33.93		
DUR-MW1	12/15/2018	15:45	12.75	34.85		
DUR-MW1	1/25/2019	9:19	12.48	35.12		
DUR-MW1	2/19/2019	8:30	11.74	35.86		
DUR-MW1	3/16/2019	10:53	11.50	36.10		
DUR-MW1	4/16/2019	16:14	12.00	35.60		
DUR-MW1	5/16/2019	14:04	13.04	34.56		
DUR-MW1	6/20/2019	9:45	13.00	34.60		
DUR-MW1	7/17/2019	9:41	12.48	35.12		
DUR-MW1	8/23/2019	7:59	13.09	34.51		
DUR-MW1	9/27/2019	16:59	12.86	34.74		
DUR-MW1	10/30/2019	11:12	13.36	34.24		
DUR-MW1	11/11/2019	7:59	13.27	34.33		
DUR-MW1	12/14/2019	7:55	12.61	34.99		
DUR-MW2	1/16/2013	10:57	13.89	35.08		
DUR-MW2	2/17/2013	13:10	16.45	32.52		
DUR-MW2	3/22/2013	11:45	17.56	31.41		
DUR-MW2	4/18/2013	13:13	16.73	32.24		
DUR-MW2	5/31/2013	9:49	15.81	33.16		
DUR-MW2	6/17/2013	15:06	16.99	31.98		
DUR-MW2	7/15/2013	11:48	18.56	30.41		
DUR-MW2	8/20/2013	14:11	17.49	31.48		
DUR-MW2	9/9/2013	9:50	17.65	31.32		
DUR-MW2	10/7/2013	10:31	16.07	32.90		
DUR-MW2	11/11/2013	12:48	16.99	31.98		
DUR-MW2	12/17/2013	10:07	15.07	33.90		
DUR-MW2	1/13/2014	9:31	Q/M			
DUR-MW2	2/17/2014	13:34	16.58	32.39		
DUR-MW2	3/16/2014	9:56	15.81	33.16		
DUR-MW2	4/20/2014	8:13	18.30	30.67		
DUR-MW2	5/28/2014	8:12	15.46	33.51		
DUR-MW2	6/19/2014	8:35	17.65	31.32		
DUR-MW2	7/17/2014	19:59	19.89	29.08		
DUR-MW2	8/18/2014	12:30	18.10	30.87		
DUR-MW2	9/22/2014	11:23	Dry			
DUR-MW2	10/14/2014	10:22	18.00	30.97		
DUR-MW2	11/4/2014	11:28	16.14	32.83		
DUR-MW2	12/14/2014	11:01	15.57	33.40		
DUR-MW2	1/12/2015	12:25	13.53	35.44		
DUR-MW2	2/4/2015	8:54	15.51	33.46		
DUR-MW2	3/13/2015	9:52	18.27	30.70		
DUR-MW2	4/17/2015	8:06	16.99	31.98		
DUR-MW2	5/11/2015	8:01	16.63	32.34		
DUR-MW2	6/5/2015	7:18	18.39	30.58		
DUR-MW2	7/22/2015	13:54	19.74	29.23		
DUR-MW2	8/20/2015	9:05	21.30	27.67		
DUR-MW2	9/14/2015	9:45	18.55	30.42		
DUR-MW2	10/17/2015	12:39	17.16	31.81		
DUR-MW2	11/20/2015	9:07	17.01	31.96		
DUR-MW2	12/23/2015	10:10	17.13	31.84		
DUR-MW2	1/15/2016	10:32	17.16	31.81		
DUR-MW2	2/16/2016	12:44	17.19	31.78		
DUR-MW2	3/18/2016	9:26	18.35	30.62		
DUR-MW2	4/18/2016	9:47	17.42	31.55		
DUR-MW2	5/16/2016	11:40	17.71	31.26		
DUR-MW2	6/16/2016	9:29	18.96	30.01		
DUR-MW2	7/21/2016	9:03	21.23	27.74		
DUR-MW2	8/15/2016	11:30	19.40	29.57		
DUR-MW2	9/15/2016	9:17	19.79	29.18		
DUR-MW2	10/14/2016	8:56	18.95	30.02		
DUR-MW2	11/18/2016	8:52	16.86	32.11		
DUR-MW2	12/12/2016	9:43	16.66	32.31		
DUR-MW2	1/25/2017	8:58	16.51	32.46		
DUR-MW2	2/1/2017		N/M			
DUR-MW2	3/13/2017	9:11	14.74	34.23		
DUR-MW2	4/20/2017	8:55	14.97	34.00		
DUR-MW2	5/16/2017	8:49	16.31	32.66		
DUR-MW2	6/24/2017	8:57	14.07	34.90		
DUR-MW2	7/14/2017	9:17	16.61	32.36		
DUR-MW2	8/24/2017	7:40	16.09	32.88		
DUR-MW2	9/22/2017	10:03	14.93	34.04		
DUR-MW2	10/19/2017	9:52	14.02	34.95		
DUR-MW2	11/15/2017	9:25	14.85	34.12		
DUR-MW2	12/21/2017	9:54	14.27	34.70		
DUR-MW2	1/23/2018	9:44	14.62	34.35		
DUR-MW2	2/15/2018	11:50	14.92	34.05		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
DUR-MW2	3/1/2018		N/M			
DUR-MW2	4/25/2018	7:51	16.67	32.30		
DUR-MW2	5/7/2018	10:59	14.88	34.09		
DUR-MW2	6/13/2018	10:08	16.41	32.56		
DUR-MW2	7/16/2018	8:06	17.58	31.39		
DUR-MW2	8/27/2018	8:41	13.69	35.28		
DUR-MW2	9/16/2018	11:26	14.35	34.62		
DUR-MW2	10/25/2018	9:19	14.40	34.57		
DUR-MW2	11/12/2018	8:41	14.88	34.09		
DUR-MW2	12/15/2018	15:43	13.86	35.11		
DUR-MW2	1/25/2019	9:17	13.85	35.12		
DUR-MW2	2/19/2019	9:15	13.12	35.85		
DUR-MW2	3/16/2019	10:51	12.70	36.27		
DUR-MW2	4/16/2019	16:17	12.77	36.20		
DUR-MW2	5/16/2019	14:06	15.82	33.15		
DUR-MW2	6/20/2019	9:42	15.45	33.52		
DUR-MW2	7/17/2019	9:37	14.99	33.98		
DUR-MW2	8/23/2019	7:56	15.63	33.34		
DUR-MW2	9/27/2019	16:53	15.49	33.48		
DUR-MW2	10/30/2019	11:14	14.76	34.21		
DUR-MW2	11/11/2019	7:54	14.28	34.69		
DUR-MW2	12/14/2019	7:53	13.74	35.23		
DUR-MW3	1/16/2013	11:07	11.57	35.45		
DUR-MW3	2/17/2013	13:12	13.04	33.98		
DUR-MW3	3/22/2013	11:47	14.61	32.41		
DUR-MW3	4/18/2013	12:59	13.24	33.78		
DUR-MW3	5/31/2013	10:07	12.84	34.18		
DUR-MW3	6/17/2013	15:14	13.73	33.29		
DUR-MW3	7/15/2013	11:40	14.74	32.28		
DUR-MW3	8/20/2013	15:24	14.39	32.63		
DUR-MW3	9/9/2013	10:02	14.51	32.51		
DUR-MW3	10/7/2013	10:38	13.48	33.54		
DUR-MW3	11/11/2013	12:55	13.38	33.64		
DUR-MW3	12/17/2013	10:16	13.36	33.66		
DUR-MW3	1/13/2014	9:39	14.40	32.62		
DUR-MW3	2/17/2014	13:41	14.31	32.71		
DUR-MW3	3/16/2014	10:06	13.97	33.05		
DUR-MW3	4/20/2014	8:20	15.22	31.80		
DUR-MW3	5/28/2014	8:23	13.94	33.08		
DUR-MW3	6/19/2014	8:47	14.22	32.80		
DUR-MW3	7/17/2014	20:09	15.86	31.16		
DUR-MW3	8/18/2014	12:39	15.21	31.81		
DUR-MW3	9/22/2014	11:30	16.90	30.12		
DUR-MW3	10/14/2014	10:30	15.66	31.36		
DUR-MW3	11/4/2014	11:40	14.38	32.64		
DUR-MW3	12/14/2014	10:50	13.35	33.67		
DUR-MW3	1/12/2015	12:31	11.71	35.31		
DUR-MW3	2/4/2015	9:05	12.69	34.33		
DUR-MW3	3/13/2015	10:06	14.64	32.38		
DUR-MW3	4/17/2015	8:16	14.55	32.47		
DUR-MW3	5/11/2015	8:12	14.55	32.47		
DUR-MW3	6/5/2015	7:07	15.17	31.85		
DUR-MW3	7/22/2015	14:19	16.76	30.26		
DUR-MW3	8/20/2015	8:56	17.34	29.68		
DUR-MW3	9/14/2015	9:35	16.01	31.01		
DUR-MW3	10/17/2015	12:30	15.21	31.81		
DUR-MW3	11/20/2015	8:59	15.06	31.96		
DUR-MW3	12/23/2015	9:54	15.07	31.95		
DUR-MW3	1/15/2016	10:15	15.16	31.86		
DUR-MW3	2/16/2016	12:38	15.10	31.92		
DUR-MW3	3/18/2016	9:35	15.75	31.27		
DUR-MW3	4/18/2016	9:57	15.44	31.58		
DUR-MW3	5/16/2016	11:51	15.62	31.40		
DUR-MW3	6/16/2016	9:15	15.61	31.41		
DUR-MW3	7/21/2016	9:11	17.54	29.48		
DUR-MW3	8/15/2016	11:39	16.61	30.41		
DUR-MW3	9/15/2016	9:25	16.54	30.48		
DUR-MW3	10/14/2016	9:06	16.26	30.76		
DUR-MW3	11/18/2016	9:07	14.83	32.19		
DUR-MW3	12/12/2016	9:52	14.66	32.36		
DUR-MW3	1/25/2017	9:07	14.54	32.48		
DUR-MW3	2/1/2017		N/M			
DUR-MW3	3/13/2017	9:19	12.95	34.07		
DUR-MW3	4/20/2017	9:02	12.91	34.11		
DUR-MW3	5/16/2017	8:44	13.29	33.73		
DUR-MW3	6/24/2017	9:05	11.83	35.19		
DUR-MW3	7/14/2017	9:26	13.20	33.82		
DUR-MW3	8/24/2017	7:35	13.04	33.98		
DUR-MW3	9/22/2017	10:11	12.55	34.47		
DUR-MW3	10/19/2017	10:01	11.97	35.05		
DUR-MW3	11/15/2017	9:31	12.26	34.76		
DUR-MW3	12/21/2017	10:02	12.30	34.72		
DUR-MW3	1/23/2018	9:51	12.58	34.44		
DUR-MW3	2/15/2018	11:43	12.85	34.17		
DUR-MW3	3/1/2018		N/M			
DUR-MW3	4/25/2018	8:04	13.55	33.47		
DUR-MW3	5/7/2018	11:14	12.97	34.05		
DUR-MW3	6/13/2018	10:15	13.37	33.65		
DUR-MW3	7/16/2018	8:10	12.66	34.36		
DUR-MW3	8/27/2018	8:34	12.61	34.41		
DUR-MW3	9/16/2018	11:33	12.17	34.85		
DUR-MW3	10/25/2018	9:26	12.37	34.65		
DUR-MW3	11/12/2018	8:52	12.84	34.18		
DUR-MW3	12/15/2018	15:49	12.00	35.02		
DUR-MW3	1/25/2019	9:25	11.78	35.24		
DUR-MW3	2/19/2019	8:10	11.15	35.87		
DUR-MW3	3/16/2019	10:57	10.76	36.26		
DUR-MW3	4/16/2019	15:54	11.07	35.95		
DUR-MW3	5/16/2019	13:58	12.60	34.42		
DUR-MW3	6/20/2019	9:50	12.42	34.60		
DUR-MW3	7/17/2019	9:47	11.98	35.04		
DUR-MW3	8/23/2019	8:05	12.72	34.30		
DUR-MW3	9/27/2019	16:48	12.44	34.58		
DUR-MW3	10/30/2019	11:07	12.66	34.36		
DUR-MW3	11/11/2019	8:06	12.43	34.59		
DUR-MW3	12/14/2019	8:00	11.87	35.15		
DUR-MW4	1/16/2013	11:04	11.00	35.29		
DUR-MW4	2/17/2013	13:14	12.30	33.99		
DUR-MW4	3/22/2013	11:50	13.39	32.90		
DUR-MW4	4/18/2013	12:54	12.83	33.46		
DUR-MW4	5/31/2013	10:05	12.80	33.49		
DUR-MW4	6/17/2013	15:12	12.99	33.30		
DUR-MW4	7/15/2013	11:43	13.15	33.14		
DUR-MW4	8/20/2013	15:20	13.06	33.23		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
DUR-MW4	9/9/2013	9:57	12.99	33.30		
DUR-MW4	10/7/2013	10:37	12.66	33.63		
DUR-MW4	11/11/2013	12:52	13.04	33.25		
DUR-MW4	12/17/2013	10:13	13.22	33.07		
DUR-MW4	1/13/2014	9:37	13.78	32.51		
DUR-MW4	2/17/2014	13:39	13.87	32.42		
DUR-MW4	3/16/2014	10:04	13.96	32.33		
DUR-MW4	4/20/2014	8:18	14.93	31.36		
DUR-MW4	5/28/2014	8:20	14.31	31.98		
DUR-MW4	6/19/2014	8:43	13.94	32.35		
DUR-MW4	7/17/2014	20:06	14.12	32.17		
DUR-MW4	8/18/2014	12:36	13.78	32.51		
DUR-MW4	9/22/2014	11:28	14.57	31.72		
DUR-MW4	10/14/2014	10:28	14.70	31.59		
DUR-MW4	11/4/2014	11:36	14.19	32.10		
DUR-MW4	12/14/2014	10:54	12.96	33.33		
DUR-MW4	1/12/2015	12:29	11.48	34.81		
DUR-MW4	2/4/2015	9:02	11.91	34.38		
DUR-MW4	3/13/2015	10:01	13.11	33.18		
DUR-MW4	4/17/2015	8:14	13.99	32.30		
DUR-MW4	5/11/2015	8:09	14.14	32.15		
DUR-MW4	6/5/2015	7:04	14.27	32.02		
DUR-MW4	7/22/2015	14:23	15.61	30.68		
DUR-MW4	8/20/2015	9:02	15.80	30.49		
DUR-MW4	9/14/2015	9:38	15.11	31.18		
DUR-MW4	10/17/2015	12:33	14.87	31.42		
DUR-MW4	11/20/2015	9:02	14.82	31.47		
DUR-MW4	12/23/2015	9:51	14.72	31.57		
DUR-MW4	1/15/2016	10:12	14.78	31.51		
DUR-MW4	2/16/2016	12:34	14.60	31.69		
DUR-MW4	3/18/2016	9:32	14.84	31.45		
DUR-MW4	4/18/2016	9:54	15.34	30.95		
DUR-MW4	5/16/2016	11:48	14.96	31.33		
DUR-MW4	6/16/2016	9:12	14.65	31.64		
DUR-MW4	7/21/2016	9:08	15.82	30.47		
DUR-MW4	8/15/2016	11:37	15.48	30.81		
DUR-MW4	9/15/2016	9:24	15.30	30.99		
DUR-MW4	10/14/2016	9:03	15.02	31.27		
DUR-MW4	11/18/2016	9:02	14.42	31.87		
DUR-MW4	12/12/2016	9:49	14.21	32.08		
DUR-MW4	1/25/2017	9:03	13.92	32.37		
DUR-MW4	2/1/2017		N/M			
DUR-MW4	3/13/2017	9:18	12.55	33.74		
DUR-MW4	4/20/2017	9:00	12.23	34.06		
DUR-MW4	5/16/2017	8:45	12.21	34.08		
DUR-MW4	6/24/2017	9:02	11.56	34.73		
DUR-MW4	7/14/2017	9:24	12.06	34.23		
DUR-MW4	8/24/2017	7:36	11.95	34.34		
DUR-MW4	9/22/2017	10:08	11.70	34.59		
DUR-MW4	10/19/2017	9:59	11.34	34.95		
DUR-MW4	11/15/2017	9:29	11.62	34.67		
DUR-MW4	12/21/2017	10:00	12.02	34.27		
DUR-MW4	1/23/2018	9:48	11.96	34.33		
DUR-MW4	2/15/2018	11:45	12.45	33.84		
DUR-MW4	3/1/2018		N/M			
DUR-MW4	4/25/2018	7:59	12.55	33.74		
DUR-MW4	5/7/2018	11:10	12.63	33.66		
DUR-MW4	6/13/2018	10:13	12.46	33.83		
DUR-MW4	7/16/2018	8:13	14.12	32.17		
DUR-MW4	8/27/2018	8:35	12.40	33.89		
DUR-MW4	9/16/2018	11:31	12.11	34.18		
DUR-MW4	10/25/2018	9:24	11.92	34.37		
DUR-MW4	11/12/2018	8:49	12.63	33.66		
DUR-MW4	12/15/2018	15:47	11.74	34.55		
DUR-MW4	1/25/2019	9:22	11.20	35.09		
DUR-MW4	2/19/2019	8:12	10.66	35.63		
DUR-MW4	3/16/2019	10:55	10.35	35.94		
DUR-MW4	4/16/2019	15:51	11.08	35.21		
DUR-MW4	5/16/2019	14:00	11.50	34.79		
DUR-MW4	6/20/2019	9:47	11.48	34.81		
DUR-MW4	7/17/2019	9:42	11.40	34.89		
DUR-MW4	8/23/2019	8:02	11.79	34.50		
DUR-MW4	9/27/2019	16:35	11.68	34.61		
DUR-MW4	10/30/2019	11:10	12.01	34.28		
DUR-MW4	11/11/2019	8:03	12.19	34.10		
DUR-MW4	12/14/2019	7:57	11.40	34.89		
DUR-MW6	1/16/2013	11:12	12.53	32.39		
DUR-MW6	2/17/2013	13:15	9.44	35.48		
DUR-MW6	3/22/2013	11:52	10.26	34.66		
DUR-MW6	4/18/2013	12:45	9.71	35.21		
DUR-MW6	5/31/2013	9:55	9.52	35.40		
DUR-MW6	6/17/2013	15:30	9.82	35.10		
DUR-MW6	7/15/2013	11:24	9.72	35.20		
DUR-MW6	8/20/2013	15:46	9.28	35.64		
DUR-MW6	9/9/2013	10:17	9.34	35.58		
DUR-MW6	10/7/2013	10:52	9.63	35.29		
DUR-MW6	11/11/2013	13:08	9.76	35.16		
DUR-MW6	12/17/2013	10:29	10.26	34.66		
DUR-MW6	1/13/2014	9:48	10.50	34.42		
DUR-MW6	2/17/2014	13:55	11.12	33.80		
DUR-MW6	3/16/2014	10:22	11.17	33.75		
DUR-MW6	4/20/2014	8:31	11.43	33.49		
DUR-MW6	5/28/2014	8:36	11.00	33.92		
DUR-MW6	6/19/2014	9:01	11.32	33.60		
DUR-MW6	7/17/2014	20:22	10.78	34.14		
DUR-MW6	8/18/2014	12:52	10.43	34.49		
DUR-MW6	9/22/2014	11:43	11.02	33.90		
DUR-MW6	10/14/2014	10:41	11.11	33.81		
DUR-MW6	11/4/2014	11:59	11.06	33.86		
DUR-MW6	12/14/2014	10:35	10.56	34.36		
DUR-MW6	1/12/2015	12:45	9.25	35.67		
DUR-MW6	2/4/2015	9:18	9.48	35.44		
DUR-MW6	3/13/2015	10:23	10.31	34.61		
DUR-MW6	4/17/2015	8:26	10.93	33.99		
DUR-MW6	5/11/2015	8:24	11.08	33.84		
DUR-MW6	6/5/2015	7:00	11.33	33.59		
DUR-MW6	7/22/2015	13:43	18.12	26.80		
DUR-MW6	8/20/2015	8:27	12.31	32.61		
DUR-MW6	9/14/2015	9:19	12.14	32.78		
DUR-MW6	10/17/2015	12:12	12.12	32.80		
DUR-MW6	11/20/2015	8:43	12.26	32.66		
DUR-MW6	12/23/2015	9:45	12.45	32.47		
DUR-MW6	1/15/2016	10:08	12.53	32.39		
DUR-MW6	2/16/2016	12:30	12.20	32.72		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
DUR-MW6	3/18/2016	9:45	12.29	32.63		
DUR-MW6	4/18/2016	10:09	12.53	32.39		
DUR-MW6	5/16/2016	12:03	12.23	32.69		
DUR-MW6	6/16/2016	9:07	12.00	32.92		
DUR-MW6	7/21/2016	9:30	12.68	32.24		
DUR-MW6	8/15/2016	11:52	12.57	32.35		
DUR-MW6	9/15/2016	9:36	12.40	32.52		
DUR-MW6	10/14/2016	9:25	12.42	32.50		
DUR-MW6	11/18/2016	9:36	12.07	32.85		
DUR-MW6	12/12/2016	10:05	12.06	32.86		
DUR-MW6	1/25/2017	9:23	11.80	33.12		
DUR-MW6	2/1/2017		N/M			
DUR-MW6	3/13/2017	9:16	10.49	34.43		
DUR-MW6	4/20/2017	9:15	9.98	34.94		
DUR-MW6	5/16/2017	8:46	9.72	35.20		
DUR-MW6	6/24/2017	9:19	9.45	35.47		
DUR-MW6	7/14/2017	9:35	9.39	35.53		
DUR-MW6	8/24/2017	7:26	8.76	36.16		
DUR-MW6	9/22/2017	10:22	8.57	36.35		
DUR-MW6	10/19/2017	10:12	8.70	36.22		
DUR-MW6	11/15/2017	9:00	9.15	35.77		
DUR-MW6	12/21/2017	10:16	9.70	35.22		
DUR-MW6	1/23/2018	10:01	9.84	35.08		
DUR-MW6	2/15/2018	11:35	10.05	34.87		
DUR-MW6	3/1/2018		N/M			
DUR-MW6	4/25/2018	8:21	9.84	35.08		
DUR-MW6	5/7/2018	10:30	9.91	35.01		
DUR-MW6	6/13/2018	10:25	9.59	35.33		
DUR-MW6	7/16/2018	8:22	9.65	35.27		
DUR-MW6	8/27/2018	8:27	9.30	35.62		
DUR-MW6	9/16/2018	11:42	8.89	36.03		
DUR-MW6	10/25/2018	9:37	9.30	35.62		
DUR-MW6	11/12/2018	9:05	9.69	35.23		
DUR-MW6	12/15/2018	15:57	9.39	35.53		
DUR-MW6	1/25/2019	9:36	9.04	35.88		
DUR-MW6	2/19/2019	8:00	8.64	36.28		
DUR-MW6	3/16/2019	11:05	8.20	36.72		
DUR-MW6	4/16/2019	16:10	8.53	36.39		
DUR-MW6	5/16/2019	13:50	9.06	35.86		
DUR-MW6	6/20/2019	10:01	8.55	36.37		
DUR-MW6	7/17/2019	10:09	9.80	35.12		
DUR-MW6	8/23/2019	8:18	9.03	35.89		
DUR-MW6	9/27/2019	16:29	8.93	35.99		
DUR-MW6	10/30/2019	10:51	9.27	35.65		
DUR-MW6	11/11/2019	8:21	9.48	35.44		
DUR-MW6	12/14/2019	8:10	9.15	35.77		
DUR-MW7	1/16/2013	11:13	12.27	36.75		
DUR-MW7	2/17/2013	13:18	14.32	34.70		
DUR-MW7	3/22/2013	11:36	15.04	33.98		
DUR-MW7	4/18/2013	12:49	14.49	34.53		
DUR-MW7	5/31/2013	9:58	13.51	35.51		
DUR-MW7	6/17/2013	15:24	14.70	34.32		
DUR-MW7	7/15/2013	11:30	15.16	33.86		
DUR-MW7	8/20/2013	15:39	14.17	34.85		
DUR-MW7	9/9/2013	10:13	14.32	34.70		
DUR-MW7	10/7/2013	10:47	13.90	35.12		
DUR-MW7	11/11/2013	13:04	14.71	34.31		
DUR-MW7	12/17/2013	10:25	14.31	34.71		
DUR-MW7	1/13/2014	9:53	15.83	33.19		
DUR-MW7	2/17/2014	13:52	15.68	33.34		
DUR-MW7	3/16/2014	10:11	15.20	33.82		
DUR-MW7	4/20/2014	8:28	16.30	32.72		
DUR-MW7	5/28/2014	8:32	14.52	34.50		
DUR-MW7	6/19/2014	8:54	15.74	33.28		
DUR-MW7	7/17/2014	20:18	16.32	32.70		
DUR-MW7	8/18/2014	12:48	15.72	33.30		
DUR-MW7	9/22/2014	11:38	17.58	31.44		
DUR-MW7	10/14/2014	10:37	16.50	32.52		
DUR-MW7	11/4/2014	11:53	15.37	33.65		
DUR-MW7	12/14/2014	10:39	14.36	34.66		
DUR-MW7	1/12/2015	12:41	13.06	35.96		
DUR-MW7	2/4/2015	9:12	14.23	34.79		
DUR-MW7	3/13/2015	10:19	15.94	33.08		
DUR-MW7	4/17/2015	8:23	15.83	33.19		
DUR-MW7	5/11/2015	8:20	15.36	33.66		
DUR-MW7	6/5/2015	7:14	16.51	32.51		
DUR-MW7	7/22/2015	14:04	17.34	31.68		
DUR-MW7	8/20/2015	8:49	17.87	31.15		
DUR-MW7	9/14/2015	9:23	16.89	32.13		
DUR-MW7	10/17/2015	12:17	16.25	32.77		
DUR-MW7	11/20/2015	9:16	16.37	32.65		
DUR-MW7	12/23/2015	10:22	17.35	31.67		
DUR-MW7	1/15/2016	10:42	16.44	32.58		
DUR-MW7	2/16/2016	12:59	16.36	32.66		
DUR-MW7	3/18/2016	9:49	17.12	31.90		
DUR-MW7	4/18/2016	10:13	16.75	32.27		
DUR-MW7	5/16/2016	11:59	16.31	32.71		
DUR-MW7	6/16/2016	9:36	16.86	32.16		
DUR-MW7	7/21/2016	9:25	18.12	30.90		
DUR-MW7	8/15/2016	11:48	17.34	31.68		
DUR-MW7	9/15/2016	9:08	17.39	31.63		
DUR-MW7	10/14/2016	9:19	17.18	31.84		
DUR-MW7	11/18/2016	9:29	16.29	32.73		
DUR-MW7	12/12/2016	9:35	16.19	32.83		
DUR-MW7	1/25/2017	8:45	15.78	33.24		
DUR-MW7	2/1/2017		N/M			
DUR-MW7	3/13/2017	9:04	14.41	34.61		
DUR-MW7	4/20/2017	8:46	14.24	34.78		
DUR-MW7	5/16/2017	8:54	14.25	34.77		
DUR-MW7	6/24/2017	8:48	13.53	35.49		
DUR-MW7	7/14/2017	9:07	13.96	35.06		
DUR-MW7	8/24/2017	7:46	13.62	35.40		
DUR-MW7	9/22/2017	9:55	13.35	35.67		
DUR-MW7	10/19/2017	9:46	13.22	35.80		
DUR-MW7	11/15/2017	9:17	13.35	35.67		
DUR-MW7	12/21/2017	9:39	10.59	38.43		
DUR-MW7	1/23/2018	9:36	13.79	35.23		
DUR-MW7	2/15/2018	12:00	14.19	34.83		
DUR-MW7	3/1/2018		N/M			
DUR-MW7	4/25/2018	8:16	12.88	36.14		
DUR-MW7	5/7/2018	10:52	14.15	34.87		
DUR-MW7	6/13/2018	10:01	14.50	34.52		
DUR-MW7	7/16/2018	8:00	14.83	34.19		
DUR-MW7	8/27/2018	8:50	12.32	36.70		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
DUR-MW7	9/16/2018	11:15	12.24	36.78		
DUR-MW7	10/25/2018	9:10	13.56	35.46		
DUR-MW7	11/12/2018	9:00	13.76	35.26		
DUR-MW7	12/15/2018	15:37	13.41	35.61		
DUR-MW7	1/25/2019	9:05	13.03	35.99		
DUR-MW7	2/19/2019	8:55	12.30	36.72		
DUR-MW7	3/16/2019	10:45	12.05	36.97		
DUR-MW7	4/16/2019	16:05	12.32	36.70		
DUR-MW7	5/16/2019	14:14	13.92	35.10		
DUR-MW7	6/20/2019	9:35	13.24	35.78		
DUR-MW7	7/17/2019	10:02	12.58	36.44		
DUR-MW7	8/23/2019	8:15	13.54	35.48		
DUR-MW7	9/27/2019	16:57	13.33	35.69		
DUR-MW7	10/30/2019	10:56	13.87	35.15		
DUR-MW7	11/11/2019	8:16	13.58	35.44		
DUR-MW7	12/14/2019	7:47	13.10	35.92		
DUR-MW8	1/16/2013	11:22	8.98	38.00		
DUR-MW8	2/17/2013	13:00	14.11	32.87		
DUR-MW8	3/22/2013	11:33	11.78	35.20		
DUR-MW8	4/18/2013	13:18	13.54	33.44		
DUR-MW8	5/31/2013	9:46	12.56	34.42		
DUR-MW8	6/17/2013	15:02	13.44	33.54		
DUR-MW8	7/15/2013	11:51	13.00	33.98		
DUR-MW8	8/20/2013	14:56	12.03	34.95		
DUR-MW8	9/9/2013	9:46	11.59	35.39		
DUR-MW8	10/7/2013	10:28	12.54	34.44		
DUR-MW8	11/11/2013	12:44	13.27	33.71		
DUR-MW8	12/17/2013	10:02	12.85	34.13		
DUR-MW8	1/13/2014	9:28	15.34	31.64		
DUR-MW8	2/17/2014	13:31	13.87	33.11		
DUR-MW8	3/16/2014	9:52	13.88	33.10		
DUR-MW8	4/20/2014	8:10	14.63	32.35		
DUR-MW8	5/28/2014	8:08	13.06	33.92		
DUR-MW8	6/19/2014	8:30	14.17	32.81		
DUR-MW8	7/17/2014	19:56	14.46	32.52		
DUR-MW8	8/18/2014	12:26	13.76	33.22		
DUR-MW8	9/22/2014	11:20	15.76	31.22		
DUR-MW8	10/14/2014	10:16	14.03	32.95		
DUR-MW8	11/4/2014	11:24	13.71	33.27		
DUR-MW8	12/14/2014	11:04	13.01	33.97		
DUR-MW8	1/12/2015	12:21	11.72	35.26		
DUR-MW8	2/4/2015	8:50	13.25	33.73		
DUR-MW8	3/13/2015	9:46	14.31	32.67		
DUR-MW8	4/17/2015	8:04	14.52	32.46		
DUR-MW8	5/11/2015	7:56	13.74	33.24		
DUR-MW8	6/5/2015	7:26	15.23	31.75		
DUR-MW8	7/22/2015	13:58	15.37	31.61		
DUR-MW8	8/20/2015	8:37	16.24	30.74		
DUR-MW8	9/14/2015	9:48	15.47	31.51		
DUR-MW8	10/17/2015	12:42	15.15	31.83		
DUR-MW8	11/20/2015	9:11	15.31	31.67		
DUR-MW8	12/23/2015	10:15	15.47	31.51		
DUR-MW8	1/15/2016	10:37	15.58	31.40		
DUR-MW8	2/16/2016	12:51	15.31	31.67		
DUR-MW8	3/18/2016	9:22	16.20	30.78		
DUR-MW8	4/18/2016	9:44	15.43	31.55		
DUR-MW8	5/16/2016	11:36	14.69	32.29		
DUR-MW8	6/16/2016	9:32	15.70	31.28		
DUR-MW8	7/21/2016	8:57	16.77	30.21		
DUR-MW8	8/15/2016	11:26	15.59	31.39		
DUR-MW8	9/15/2016	9:15	15.85	31.13		
DUR-MW8	10/14/2016	8:52	15.70	31.28		
DUR-MW8	11/18/2016	8:49	15.15	31.83		
DUR-MW8	12/12/2016	9:39	15.04	31.94		
DUR-MW8	1/25/2017	8:54	14.31	32.67		
DUR-MW8	2/1/2017		N/M			
DUR-MW8	3/13/2017	9:08	12.20	34.78		
DUR-MW8	4/20/2017	8:53	12.46	34.52		
DUR-MW8	5/16/2017	8:52	12.97	34.01		
DUR-MW8	6/24/2017	8:54	11.20	35.78		
DUR-MW8	7/14/2017	9:13	12.17	34.81		
DUR-MW8	8/24/2017	7:43	12.12	34.86		
DUR-MW8	9/22/2017	10:00	11.98	35.00		
DUR-MW8	10/19/2017	9:50	12.06	34.92		
DUR-MW8	11/15/2017	9:23	13.00	33.98		
DUR-MW8	12/21/2017	9:50	12.20	34.78		
DUR-MW8	1/23/2018	9:41	12.40	34.58		
DUR-MW8	2/15/2018	11:55	12.58	34.40		
DUR-MW8	3/1/2018		N/M			
DUR-MW8	4/25/2018	7:45	13.85	33.13		
DUR-MW8	5/7/2018	10:57	12.66	34.32		
DUR-MW8	6/13/2018	10:05	14.14	32.84		
DUR-MW8	7/16/2018	8:04	13.47	33.51		
DUR-MW8	8/27/2018	8:47	10.08	36.90		
DUR-MW8	9/16/2018	11:23	11.75	35.23		
DUR-MW8	10/25/2018	9:15	12.57	34.41		
DUR-MW8	11/12/2018	8:37	12.75	34.23		
DUR-MW8	12/15/2018	15:41	12.46	34.52		
DUR-MW8	1/25/2019	9:14	12.02	34.96		
DUR-MW8	2/19/2019	9:00	11.58	35.40		
DUR-MW8	3/16/2019	10:49	11.05	35.93		
DUR-MW8	4/16/2019	16:20	10.78	36.20		
DUR-MW8	5/16/2019	14:10	12.51	34.47		
DUR-MW8	6/20/2019	9:40	12.06	34.92		
DUR-MW8	7/17/2019	9:32	10.93	36.05		
DUR-MW8	8/23/2019	7:53	11.50	35.48		
DUR-MW8	9/27/2019	17:06	11.37	35.61		
DUR-MW8	10/30/2019	11:16	12.48	34.50		
DUR-MW8	11/11/2019	7:50	12.44	34.54		
DUR-MW8	12/14/2019	7:50	11.90	35.08		
DUR-MW9	1/16/2013	11:15	12.91	35.56		
DUR-MW9	2/17/2013	12:50	11.12	37.35		
DUR-MW9	3/22/2013	11:30	9.54	38.93		
DUR-MW9	4/18/2013	12:38	10.32	38.15		
DUR-MW9	5/31/2013	9:22	9.69	38.78		
DUR-MW9	6/17/2013	14:54	10.01	38.46		
DUR-MW9	7/15/2013	11:58	8.29	40.18		
DUR-MW9	8/20/2013	14:50	8.75	39.72		
DUR-MW9	9/9/2013	9:39	9.48	38.99		
DUR-MW9	10/7/2013	10:22	9.93	38.54		
DUR-MW9	11/11/2013	12:38	10.78	37.69		
DUR-MW9	12/17/2013	9:55	11.57	36.90		
DUR-MW9	1/13/2014	9:25	11.82	36.65		
DUR-MW9	2/17/2014	13:26	12.24	36.23		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
DUR-MW9	3/16/2014	9:47	12.36	36.11		
DUR-MW9	4/20/2014	8:05	12.49	35.98		
DUR-MW9	5/28/2014	8:00	11.66	36.81		
DUR-MW9	6/19/2014	8:24	11.71	36.76		
DUR-MW9	7/17/2014	19:50	10.54	37.93		
DUR-MW9	8/18/2014	12:20	10.52	37.95		
DUR-MW9	9/22/2014	11:14	11.39	37.08		
DUR-MW9	10/14/2014	10:09	11.87	36.60		
DUR-MW9	11/4/2014	11:18	12.20	36.27		
DUR-MW9	12/14/2014	10:27	12.69	35.78		
DUR-MW9	1/12/2015	12:16	11.30	37.17		
DUR-MW9	2/4/2015	8:41	11.47	37.00		
DUR-MW9	3/13/2015	9:40	12.00	36.47		
DUR-MW9	4/17/2015	7:58	12.42	36.05		
DUR-MW9	5/11/2015	7:50	12.50	35.97		
DUR-MW9	6/5/2015	7:32	12.64	35.83		
DUR-MW9	7/22/2015	14:30	11.94	36.53		
DUR-MW9	8/20/2015	8:20	12.03	36.44		
DUR-MW9	9/14/2015	9:12	12.19	36.28		
DUR-MW9	10/17/2015	12:05	13.45	35.02		
DUR-MW9	11/20/2015	8:36	14.05	34.42		
DUR-MW9	12/23/2015	9:40	14.45	34.02		
DUR-MW9	1/15/2016	10:47	14.64	33.83		
DUR-MW9	2/16/2016	12:26	14.34	34.13		
DUR-MW9	3/18/2016	9:17	14.58	33.89		
DUR-MW9	4/18/2016	9:39	14.35	34.12		
DUR-MW9	5/16/2016	11:31	9.89	38.58		
DUR-MW9	6/16/2016	9:42	12.41	36.06		
DUR-MW9	7/21/2016	8:51	12.90	35.57		
DUR-MW9	8/15/2016	11:20	12.89	35.58		
DUR-MW9	9/15/2016	9:03	13.00	35.47		
DUR-MW9	10/14/2016	8:45	13.36	35.11		
DUR-MW9	11/18/2016	8:41	13.93	34.54		
DUR-MW9	12/12/2016	9:28	14.14	34.33		
DUR-MW9	1/25/2017	8:39	14.06	34.41		
DUR-MW9	2/1/2017		N/M			
DUR-MW9	3/13/2017	8:59	12.70	35.77		
DUR-MW9	4/20/2017	8:40	12.27	36.20		
DUR-MW9	5/16/2017	8:57	10.94	37.53		
DUR-MW9	6/24/2017	8:41	10.50	37.97		
DUR-MW9	7/14/2017	9:01	9.46	39.01		
DUR-MW9	8/24/2017	7:50	8.37	40.10		
DUR-MW9	9/22/2017	9:49	8.21	40.26		
DUR-MW9	10/19/2017	9:40	10.29	38.18		
DUR-MW9	11/15/2017	9:12	10.91	37.56		
DUR-MW9	12/21/2017	9:37	11.54	36.93		
DUR-MW9	1/23/2018	9:26	11.89	36.58		
DUR-MW9	2/15/2018	11:30	12.00	36.47		
DUR-MW9	3/1/2018		N/M			
DUR-MW9	4/25/2018	7:39	11.33	37.14		
DUR-MW9	5/7/2018	10:44	11.70	36.77		
DUR-MW9	6/13/2018	9:55	10.05	38.42		
DUR-MW9	7/16/2018	7:55	9.81	38.66		
DUR-MW9	8/27/2018	8:56	9.34	39.13		
DUR-MW9	9/16/2018	11:09	8.89	39.58		
DUR-MW9	10/25/2018	9:04	10.68	37.79		
DUR-MW9	11/12/2018	8:32	10.65	37.82		
DUR-MW9	12/15/2018	15:29	11.20	37.27		
DUR-MW9	1/25/2019	8:55	10.95	37.52		
DUR-MW9	2/19/2019	8:45	10.69	37.78		
DUR-MW9	3/16/2019	10:41	10.32	38.15		
DUR-MW9	4/16/2019	16:26	10.39	38.08		
DUR-MW9	5/16/2019	14:30	9.44	39.03		
DUR-MW9	6/20/2019	9:29	9.42	39.05		
DUR-MW9	7/17/2019	9:26	8.29	40.18		
DUR-MW9	8/23/2019	7:48	8.45	40.02		
DUR-MW9	9/27/2019	17:12	8.38	40.09		
DUR-MW9	10/30/2019	11:24	7.01	41.46		
DUR-MW9	11/11/2019	7:43	10.63	37.84		
DUR-MW9	12/14/2019	7:43	10.77	37.70		
DUR-MW10s	1/16/2013	10:55	11.99	35.83	-1.25	-0.06
DUR-MW10s	2/17/2013	13:20	13.48	34.34	0.24	0.01
DUR-MW10s	3/22/2013	11:27	14.85	32.97	-0.13	-0.01
DUR-MW10s	4/18/2013	13:03	13.76	34.06	0.26	0.01
DUR-MW10s	5/31/2013	10:11	13.57	34.25	-0.35	-0.02
DUR-MW10s	6/17/2013	15:19	14.18	33.64	<|0.05|	0
DUR-MW10s	7/15/2013	11:36	14.94	32.88	<|0.05|	0
DUR-MW10s	8/20/2013	15:34	14.43	33.39	<|0.05|	0
DUR-MW10s	9/9/2013	10:08	14.49	33.33	-0.20	-0.01
DUR-MW10s	10/7/2013	10:43	14.00	33.82	-0.15	-0.01
DUR-MW10s	11/11/2013	12:59	13.88	33.94	0.30	0.01
DUR-MW10s	12/17/2013	10:20	13.88	33.94	-0.09	-0.00
DUR-MW10s	1/13/2014	9:43	14.83	32.99	0.30	0.01
DUR-MW10s	2/17/2014	13:46	14.98	32.84	<|0.05|	0
DUR-MW10s	3/16/2014	10:17	14.60	33.22	<|0.05|	0
DUR-MW10s	4/20/2014	8:25	15.66	32.16	<|0.05|	0
DUR-MW10s	5/28/2014	8:29	14.45	33.37	<|0.05|	0
DUR-MW10s	6/19/2014	8:49	14.94	32.88	0.20	0.01
DUR-MW10s	7/17/2014	20:14	16.04	31.78	<|0.05|	0
DUR-MW10s	8/18/2014	12:45	15.38	32.44	<|0.05|	0
DUR-MW10s	9/22/2014	11:35	16.85	30.97	0.21	0.01
DUR-MW10s	10/14/2014	10:34	15.92	31.90	-0.08	-0.00
DUR-MW10s	11/4/2014	11:47	14.90	32.92	<|0.05|	0
DUR-MW10s	12/14/2014	10:45	14.25	33.57	<|0.05|	0
DUR-MW10s	1/12/2015	12:37	12.44	35.38	<|0.05|	0
DUR-MW10s	2/4/2015	9:10	13.27	34.55	0.20	0.01
DUR-MW10s	3/13/2015	10:14	15.00	32.82	<|0.05|	0
DUR-MW10s	4/17/2015	8:20	15.06	32.76	<|0.05|	0
DUR-MW10s	5/11/2015	8:16	15.09	32.73	-0.05	-0.00
DUR-MW10s	6/5/2015	7:11	15.66	32.16	-0.41	-0.02
DUR-MW10s	7/22/2015	14:12	17.08	30.74	-0.21	-0.01
DUR-MW10s	8/20/2015	9:29	17.63	30.19	-0.32	-0.01
DUR-MW10s	9/14/2015	9:29	16.45	31.37	-0.11	-0.00
DUR-MW10s	10/17/2015	12:25	15.77	32.05	<|0.05|	0
DUR-MW10s	11/20/2015	8:52	15.67	32.15	<|0.05|	0
DUR-MW10s	12/23/2015	10:00	15.77	32.05	<|0.05|	0
DUR-MW10s	1/15/2016	10:21	15.83	31.99	<|0.05|	0
DUR-MW10s	2/16/2016	12:39	15.73	32.09	<|0.05|	0
DUR-MW10s	3/18/2016	9:41	16.32	31.50	<|0.05|	0
DUR-MW10s	4/18/2016	10:03	16.13	31.69	<|0.05|	0
DUR-MW10s	5/16/2016	11:55	16.07	31.75	-0.06	-0.00
DUR-MW10s	6/16/2016	9:19	16.24	31.58	<|0.05|	0
DUR-MW10s	7/21/2016	9:20	17.70	30.12	0.24	0.01
DUR-MW10s	8/15/2016	11:44	16.96	30.86	0.18	0.01

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
DUR-MW10s	9/15/2016	9:30	16.44	31.38	0.36	0.02
DUR-MW10s	10/14/2016	9:14	16.70	31.12	-0.12	-0.01
DUR-MW10s	11/18/2016	9:24	15.48	32.34	0.26	0.01
DUR-MW10s	12/12/2016	10:01	15.35	32.47	<|0.05|	0
DUR-MW10s	1/25/2017	9:17	15.28	32.54	-0.10	-0.00
DUR-MW10s	2/1/2017		N/M			
DUR-MW10s	3/13/2017	9:41	13.72	34.10	<|0.05|	0
DUR-MW10s	4/20/2017	9:10	13.56	34.26	-0.07	-0.00
DUR-MW10s	5/16/2017	8:40	13.83	33.99	<|0.05|	0
DUR-MW10s	6/24/2017	9:11	12.73	35.09	0.16	0.01
DUR-MW10s	7/14/2017	9:29	13.63	34.19	0.17	0.01
DUR-MW10s	8/24/2017	7:32	13.31	34.51	0.15	0.01
DUR-MW10s	9/22/2017	10:14	12.92	34.90	-0.06	-0.00
DUR-MW10s	10/19/2017	10:06	12.54	35.28	<|0.05|	0
DUR-MW10s	11/15/2017	9:37	12.76	35.06	0.30	0.01
DUR-MW10s	12/21/2017	10:07	12.99	34.83	0.22	0.01
DUR-MW10s	1/23/2018	9:56	13.22	34.60	<|0.05|	0
DUR-MW10s	2/15/2018	11:40	13.46	34.36	<|0.05|	0
DUR-MW10s	3/1/2018		N/M			
DUR-MW10s	4/25/2018	8:10	13.98	33.84	0.28	0.01
DUR-MW10s	5/7/2018	11:12	13.57	34.25	-0.06	-0.00
DUR-MW10s	6/13/2018	10:19	13.78	34.04	0.35	0.02
DUR-MW10s	7/16/2018	8:16	14.45	33.37	0.11	0.00
DUR-MW10s	8/27/2018	8:30	13.00	34.82	-0.08	-0.00
DUR-MW10s	9/16/2018	11:36	12.54	35.28	0.29	0.01
DUR-MW10s	10/25/2018	9:29	12.88	34.94	<|0.05|	0
DUR-MW10s	11/12/2018	8:57	13.38	34.44	<|0.05|	0
DUR-MW10s	12/15/2018	15:52	12.70	35.12	<|0.05|	0
DUR-MW10s	1/25/2019	9:29	12.42	35.40	<|0.05|	0
DUR-MW10s	2/19/2019	8:05	11.93	35.89	<|0.05|	0
DUR-MW10s	3/16/2019	11:02	11.40	36.42	0.09	0.00
DUR-MW10s	4/16/2019	15:59	11.70	36.12	0.06	0.00
DUR-MW10s	5/16/2019	13:55	13.07	34.75	0.34	0.02
DUR-MW10s	6/20/2019	9:55	12.72	35.10	0.18	0.01
DUR-MW10s	7/17/2019	9:57	12.60	35.22	0.19	0.01
DUR-MW10s	8/23/2019	8:10	12.13	35.69	1.22	0.05
DUR-MW10s	9/27/2019	16:41	12.02	35.80	1.28	0.06
DUR-MW10s	10/30/2019	11:03	13.13	34.69	-0.06	-0.00
DUR-MW10s	11/11/2019	8:12	12.95	34.87	<|0.05|	0
DUR-MW10s	12/14/2019	8:05	12.45	35.37	<|0.05|	0
DUR-MW10d	1/16/2013	10:48	10.80	37.08		
DUR-MW10d	2/17/2013	13:21	13.78	34.10		
DUR-MW10d	3/22/2013	11:28	14.78	33.10		
DUR-MW10d	4/18/2013	13:03	14.08	33.80		
DUR-MW10d	5/31/2013	10:11	13.28	34.60		
DUR-MW10d	6/17/2013	15:19	14.20	33.68		
DUR-MW10d	7/15/2013	11:36	15.04	32.84		
DUR-MW10d	8/20/2013	15:34	14.49	33.39		
DUR-MW10d	9/9/2013	10:08	14.35	33.53		
DUR-MW10d	10/7/2013	10:43	13.91	33.97		
DUR-MW10d	11/11/2013	12:59	14.24	33.64		
DUR-MW10d	12/17/2013	10:20	13.85	34.03		
DUR-MW10d	1/13/2014	9:43	15.19	32.69		
DUR-MW10d	2/17/2014	13:46	15.00	32.88		
DUR-MW10d	3/16/2014	10:17	14.68	33.20		
DUR-MW10d	4/20/2014	8:25	15.75	32.13		
DUR-MW10d	5/28/2014	8:29	14.53	33.35		
DUR-MW10d	6/19/2014	8:49	15.20	32.68		
DUR-MW10d	7/17/2014	20:14	16.10	31.78		
DUR-MW10d	8/18/2014	12:45	15.40	32.48		
DUR-MW10d	9/22/2014	11:35	17.12	30.76		
DUR-MW10d	10/14/2014	10:34	15.90	31.98		
DUR-MW10d	11/4/2014	11:47	14.92	32.96		
DUR-MW10d	12/14/2014	10:45	14.26	33.62		
DUR-MW10d	1/12/2015	12:37	12.50	35.38		
DUR-MW10d	2/4/2015	9:10	13.53	34.35		
DUR-MW10d	3/13/2015	10:14	15.02	32.86		
DUR-MW10d	4/17/2015	8:20	15.15	32.73		
DUR-MW10d	5/11/2015	8:16	15.10	32.78		
DUR-MW10d	6/5/2015	7:11	15.31	32.57		
DUR-MW10d	7/22/2015	14:12	16.93	30.95		
DUR-MW10d	8/20/2015	9:29	17.37	30.51		
DUR-MW10d	9/14/2015	9:29	16.40	31.48		
DUR-MW10d	10/17/2015	12:25	15.82	32.06		
DUR-MW10d	11/20/2015	8:52	15.74	32.14		
DUR-MW10d	12/23/2015	10:01	15.86	32.02		
DUR-MW10d	1/15/2016	10:22	15.92	31.96		
DUR-MW10d	2/16/2016	12:39	15.80	32.08		
DUR-MW10d	3/18/2016	9:41	16.40	31.48		
DUR-MW10d	4/18/2016	10:03	16.20	31.68		
DUR-MW10d	5/16/2016	11:55	16.07	31.81		
DUR-MW10d	6/16/2016	9:20	16.26	31.62		
DUR-MW10d	7/21/2016	9:20	18.00	29.88		
DUR-MW10d	8/15/2016	11:44	17.20	30.68		
DUR-MW10d	9/15/2016	9:31	16.86	31.02		
DUR-MW10d	10/14/2016	9:14	16.64	31.24		
DUR-MW10d	11/18/2016	9:24	15.80	32.08		
DUR-MW10d	12/12/2016	10:02	15.40	32.48		
DUR-MW10d	1/25/2017	9:16	15.24	32.64		
DUR-MW10d	2/1/2017		N/M			
DUR-MW10d	3/13/2017	9:42	13.80	34.08		
DUR-MW10d	4/20/2017	9:11	13.55	34.33		
DUR-MW10d	5/16/2017	8:39	13.86	34.02		
DUR-MW10d	6/24/2017	9:12	12.95	34.93		
DUR-MW10d	7/14/2017	9:31	13.86	34.02		
DUR-MW10d	8/24/2017	7:32	13.52	34.36		
DUR-MW10d	9/22/2017	10:15	12.92	34.96		
DUR-MW10d	10/19/2017	10:07	12.55	35.33		
DUR-MW10d	11/15/2017	9:38	13.12	34.76		
DUR-MW10d	12/21/2017	10:08	13.27	34.61		
DUR-MW10d	1/23/2018	9:57	13.26	34.62		
DUR-MW10d	2/15/2018	11:39	13.53	34.35		
DUR-MW10d	3/1/2018		N/M			
DUR-MW10d	4/25/2018	8:11	14.32	33.56		
DUR-MW10d	5/7/2018	11:12	13.57	34.31		
DUR-MW10d	6/13/2018	10:20	14.19	33.69		
DUR-MW10d	7/16/2018	8:18	14.62	33.26		
DUR-MW10d	8/27/2018	8:30	12.98	34.90		
DUR-MW10d	9/16/2018	11:36	12.89	34.99		
DUR-MW10d	10/25/2018	9:30	12.99	34.89		
DUR-MW10d	11/12/2018	8:57	13.40	34.48		
DUR-MW10d	12/15/2018	15:53	12.80	35.08		
DUR-MW10d	1/25/2019	9:30	12.47	35.41		
DUR-MW10d	2/19/2019	8:06	11.97	35.91		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
DUR-MW10d	3/16/2019	11:03	11.55	36.33		
DUR-MW10d	4/16/2019	15:59	11.82	36.06		
DUR-MW10d	5/16/2019	13:56	13.47	34.41		
DUR-MW10d	6/20/2019	9:54	12.96	34.92		
DUR-MW10d	7/17/2019	9:57	12.85	35.03		
DUR-MW10d	8/23/2019	8:10	13.41	34.47		
DUR-MW10d	9/27/2019	16:41	13.36	34.52		
DUR-MW10d	10/30/2019	11:04	13.13	34.75		
DUR-MW10d	11/11/2019	8:12	13.00	34.88		
DUR-MW10d	12/14/2019	8:06	12.54	35.34		
FG1-MW1s	1/30/2012	12:25	16.44	60.61	<|0.05|	0
FG1-MW1s	2/12/2012	12:00	16.62	60.43	<|0.05|	0
FG1-MW1s	3/5/2012	12:56	16.31	60.74	<|0.05|	0
FG1-MW1s	4/5/2012	15:40	Dry			
FG1-MW1s	5/14/2012	11:35	15.58	61.47	<|0.05|	0
FG1-MW1s	6/18/2012	12:38	16.20	60.85	<|0.05|	0
FG1-MW1s	7/9/2012	14:15	16.30	60.75	<|0.05|	0
FG1-MW1s	8/15/2012	16:22	16.37	60.68	<|0.05|	0
FG1-MW1s	9/17/2012	13:14	16.53	60.52	<|0.05|	0
FG1-MW1s	10/20/2012	10:49	15.28	61.77	2.00	0.15
FG1-MW1s	12/11/2012	13:31	17.03	60.02	<|0.05|	0
FG1-MW1s	12/28/2012	11:49	16.88	60.17	<|0.05|	0
FG1-MW1s	1/16/2013	10:37	16.99	60.06	<|0.05|	0
FG1-MW1s	2/17/2013	11:13	16.74	60.31	<|0.05|	0
FG1-MW1s	3/21/2013	11:04	17.10	59.95	0.05	0.00
FG1-MW1s	4/16/2013	13:22	17.30	59.75	<|0.05|	0
FG1-MW1s	5/30/2013	10:27	17.20	59.85	<|0.05|	0
FG1-MW1s	6/17/2013	13:06	17.18	59.87	<|0.05|	0
FG1-MW1s	7/16/2013	12:45	16.74	60.31	<|0.05|	0
FG1-MW1s	8/22/2013	16:40	17.52	59.53	<|0.05|	0
FG1-MW1s	9/9/2013	13:39	17.10	59.95	<|0.05|	0
FG1-MW1s	10/7/2013	16:06	16.49	60.56	<|0.05|	0
FG1-MW1s	11/14/2013	9:53	17.15	59.90	-0.10	-0.01
FG1-MW1s	12/17/2013	14:59	17.63	59.42	<|0.05|	0
FG1-MW1s	1/13/2014	14:36	Dry			
FG1-MW1s	2/20/2014	8:26	Dry			
FG1-MW1s	3/16/2014	15:01	18.04	59.01	<|0.05|	0
FG1-MW1s	4/19/2014	17:11	17.91	59.14	<|0.05|	0
FG1-MW1s	5/21/2014	11:43	Dry			
FG1-MW1s	6/19/2014	14:50	17.41	59.64	<|0.05|	0
FG1-MW1s	7/17/2014	13:28	17.60	59.45	<|0.05|	0
FG1-MW1s	8/22/2014	12:03	Dry			
FG1-MW1s	9/22/2014	14:30	Dry			
FG1-MW1s	10/14/2014	15:29	Dry			
FG1-MW1s	11/7/2014	15:54	17.78	59.27	-0.14	-0.01
FG1-MW1s	12/15/2014	10:19	17.68	59.37	<|0.05|	0
FG1-MW1s	1/12/2015	17:46	Dry			
FG1-MW1s	2/10/2015	15:49	Dry			
FG1-MW1s	3/13/2015	15:56	Dry			
FG1-MW1s	4/17/2015	13:43	Dry			
FG1-MW1s	5/14/2015	8:02	Dry			
FG1-MW1s	6/4/2015	12:20	Dry			
FG1-MW1s	7/22/2015	9:25	Dry			
FG1-MW1s	8/19/2015	8:33	Dry			
FG1-MW1s	9/14/2015	14:05	Dry			
FG1-MW1s	10/16/2015	14:31	Dry			
FG1-MW1s	11/18/2015	8:02	Dry			
FG1-MW1s	12/23/2015	16:20	Dry			
FG1-MW1s	1/15/2016	16:49	Dry			
FG1-MW1s	2/22/2016	15:56	Dry			
FG1-MW1s	3/18/2016	15:06	Dry			
FG1-MW1s	4/18/2016	15:59	Dry			
FG1-MW1s	5/19/2016	10:54	Dry			
FG1-MW1s	6/16/2016	14:17	Dry			
FG1-MW1s	7/21/2016	15:29	Dry			
FG1-MW1s	8/19/2016	11:49	Dry			
FG1-MW1s	9/15/2016	15:37	Dry			
FG1-MW1s	10/14/2016	15:40	Dry			
FG1-MW1s	12/1/2016	11:27	Dry			
FG1-MW1s	12/12/2016	15:56	Dry			
FG1-MW1s	1/25/2017	16:09	15.69	61.36	<|0.05|	0
FG1-MW1s	2/1/2017		N/M			
FG1-MW1s	3/15/2017	8:54	9.41	67.64	<|0.05|	0
FG1-MW1s	4/20/2017	15:19	8.50	68.55	<|0.05|	0
FG1-MW1s	5/19/2017	9:24	8.75	68.30	<|0.05|	0
FG1-MW1s	6/23/2017	13:11	10.98	66.07	<|0.05|	0
FG1-MW1s	7/14/2017	14:47	12.15	64.90	<|0.05|	0
FG1-MW1s	8/28/2017	8:58	15.20	61.85	<|0.05|	0
FG1-MW1s	9/22/2017	16:23	14.76	62.29	<|0.05|	0
FG1-MW1s	10/19/2017	15:47	14.63	62.42	<|0.05|	0
FG1-MW1s	11/21/2017	16:50	15.51	61.54	<|0.05|	0
FG1-MW1s	12/21/2017	16:13	16.28	60.77	<|0.05|	0
FG1-MW1s	1/23/2018	16:10	16.72	60.33	<|0.05|	0
FG1-MW1s	2/22/2018	16:11	17.07	59.98	<|0.05|	0
FG1-MW1s	3/1/2018		N/M			
FG1-MW1s	4/24/2018	13:34	14.48	62.57	<|0.05|	0
FG1-MW1s	5/10/2018	15:28	14.76	62.29	<|0.05|	0
FG1-MW1s	6/13/2018	16:19	15.94	61.11	<|0.05|	0
FG1-MW1s	7/16/2018	13:58	17.09	59.96	-0.11	-0.01
FG1-MW1s	8/23/2018	12:15	17.74	59.31	<|0.05|	0
FG1-MW1s	9/16/2018	18:05	17.50	59.55	<|0.05|	0
FG1-MW1s	10/25/2018	15:29	17.16	59.89	<|0.05|	0
FG1-MW1s	11/14/2018	9:18	17.47	59.58	<|0.05|	0
FG1-MW1s	12/15/2018	11:42	17.57	59.48	<|0.05|	0
FG1-MW1s	1/25/2019	14:24	17.60	59.45	<|0.05|	0
FG1-MW1s	2/25/2019	8:30	14.96	62.09	<|0.05|	0
FG1-MW1s	3/16/2019	16:39	13.43	63.62	<|0.05|	0
FG1-MW1s	4/15/2019	13:23	12.58	64.47	<|0.05|	0
FG1-MW1s	5/24/2019	8:19	12.41	64.64	<|0.05|	0
FG1-MW1s	6/20/2019	15:57	12.08	64.97	<|0.05|	0
FG1-MW1s	7/17/2019	11:32	14.58	62.47	<|0.05|	0
FG1-MW1s	8/16/2019	13:09	15.82	61.23	<|0.05|	0
FG1-MW1s	9/26/2019	14:56	14.88	62.17	<|0.05|	0
FG1-MW1s	10/25/2019	10:49	15.10	61.95	<|0.05|	0
FG1-MW1s	11/13/2019	9:40	15.64	61.41	<|0.05|	0
FG1-MW1s	12/14/2019	13:12	16.25	60.80	<|0.05|	0
FG1-MW1d	1/30/2012	12:27	16.14	60.61		
FG1-MW1d	2/12/2012	12:01	16.30	60.45		
FG1-MW1d	3/5/2012	12:55	16.02	60.73		
FG1-MW1d	4/5/2012	15:42	16.52	60.23		
FG1-MW1d	5/14/2012	11:36	15.28	61.47		
FG1-MW1d	6/18/2012	12:37	15.89	60.86		
FG1-MW1d	7/9/2012	14:15	15.98	60.77		
FG1-MW1d	8/15/2012	16:22	16.08	60.67		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
FG1-MW1d	9/17/2012	13:14	16.23	60.52		
FG1-MW1d	10/20/2012	10:49	16.98	59.77		
FG1-MW1d	12/11/2012	13:31	16.73	60.02		
FG1-MW1d	12/28/2012	11:50	16.55	60.20		
FG1-MW1d	1/16/2013	10:38	16.68	60.07		
FG1-MW1d	2/17/2013	11:14	16.41	60.34		
FG1-MW1d	3/21/2013	11:04	16.85	59.90		
FG1-MW1d	4/16/2013	13:22	17.00	59.75		
FG1-MW1d	5/30/2013	10:27	16.90	59.85		
FG1-MW1d	6/17/2013	13:08	16.87	59.88		
FG1-MW1d	7/16/2013	12:45	16.44	60.31		
FG1-MW1d	8/22/2013	16:40	17.23	59.52		
FG1-MW1d	9/9/2013	13:39	16.83	59.92		
FG1-MW1d	10/7/2013	16:06	16.19	60.56		
FG1-MW1d	11/14/2013	9:53	16.75	60.00		
FG1-MW1d	12/17/2013	14:59	17.34	59.41		
FG1-MW1d	1/13/2014	14:36	17.50	59.25		
FG1-MW1d	2/20/2014	8:26	17.57	59.18		
FG1-MW1d	3/16/2014	15:01	17.79	58.96		
FG1-MW1d	4/19/2014	17:11	17.60	59.15		
FG1-MW1d	5/21/2014	11:43	17.86	58.89		
FG1-MW1d	6/19/2014	14:50	17.10	59.65		
FG1-MW1d	7/17/2014	13:28	17.31	59.44		
FG1-MW1d	8/22/2014	12:03	17.55	59.20		
FG1-MW1d	9/22/2014	14:30	18.43	58.32		
FG1-MW1d	10/14/2014	15:29	18.30	58.45		
FG1-MW1d	11/7/2014	15:54	17.34	59.41		
FG1-MW1d	12/15/2014	10:19	17.35	59.40		
FG1-MW1d	1/12/2015	17:46	17.41	59.34		
FG1-MW1d	2/10/2015	15:49	17.65	59.10		
FG1-MW1d	3/13/2015	15:56	17.65	59.10		
FG1-MW1d	4/17/2015	13:43	18.11	58.64		
FG1-MW1d	5/14/2015	8:02	18.15	58.60		
FG1-MW1d	6/4/2015	12:20	18.32	58.43		
FG1-MW1d	7/22/2015	9:25	18.82	57.93		
FG1-MW1d	8/19/2015	8:34	19.62	57.13		
FG1-MW1d	9/14/2015	14:06	20.14	56.61		
FG1-MW1d	10/16/2015	14:32	20.20	56.55		
FG1-MW1d	11/18/2015	8:03	18.78	57.97		
FG1-MW1d	12/23/2015	16:21	18.40	58.35		
FG1-MW1d	1/15/2016	16:50	18.08	58.67		
FG1-MW1d	2/22/2016	15:57	17.86	58.89		
FG1-MW1d	3/18/2016	15:06	17.65	59.10		
FG1-MW1d	4/18/2016	15:59	17.93	58.82		
FG1-MW1d	5/19/2016	10:54	18.34	58.41		
FG1-MW1d	6/16/2016	14:18	18.49	58.26		
FG1-MW1d	7/21/2016	15:29	19.50	57.25		
FG1-MW1d	8/19/2016	11:49	19.92	56.83		
FG1-MW1d	9/15/2016	15:38	19.90	56.85		
FG1-MW1d	10/14/2016	15:40	19.43	57.32		
FG1-MW1d	12/1/2016	11:28	17.85	58.90		
FG1-MW1d	12/12/2016	15:57	17.80	58.95		
FG1-MW1d	1/25/2017	16:10	15.37	61.38		
FG1-MW1d	2/1/2017		N/M			
FG1-MW1d	3/15/2017	8:54	9.08	67.67		
FG1-MW1d	4/20/2017	15:20	8.22	68.53		
FG1-MW1d	5/19/2017	9:25	8.44	68.31		
FG1-MW1d	6/23/2017	13:11	10.67	66.08		
FG1-MW1d	7/14/2017	14:48	11.83	64.92		
FG1-MW1d	8/28/2017	8:58	14.91	61.84		
FG1-MW1d	9/22/2017	16:24	14.46	62.29		
FG1-MW1d	10/19/2017	15:48	14.33	62.42		
FG1-MW1d	11/21/2017	16:51	15.22	61.53		
FG1-MW1d	12/21/2017	16:14	16.00	60.75		
FG1-MW1d	1/23/2018	16:11	16.44	60.31		
FG1-MW1d	2/22/2018	16:12	16.78	59.97		
FG1-MW1d	3/1/2018		N/M			
FG1-MW1d	4/24/2018	13:34	14.19	62.56		
FG1-MW1d	5/10/2018	15:29	14.46	62.29		
FG1-MW1d	6/13/2018	16:20	15.64	61.11		
FG1-MW1d	7/16/2018	13:59	16.68	60.07		
FG1-MW1d	8/23/2018	12:15	17.43	59.32		
FG1-MW1d	9/16/2018	18:05	17.20	59.55		
FG1-MW1d	10/25/2018	15:30	16.85	59.90		
FG1-MW1d	11/14/2018	9:17	17.16	59.59		
FG1-MW1d	12/15/2018	11:43	17.25	59.50		
FG1-MW1d	1/25/2019	14:25	17.29	59.46		
FG1-MW1d	2/25/2019	8:30	14.67	62.08		
FG1-MW1d	3/16/2019	16:39	13.13	63.62		
FG1-MW1d	4/15/2019	13:23	12.28	64.47		
FG1-MW1d	5/24/2019	8:19	12.13	64.62		
FG1-MW1d	6/20/2019	15:58	11.76	64.99		
FG1-MW1d	7/17/2019	11:32	14.28	62.47		
FG1-MW1d	8/16/2019	13:09	15.54	61.21		
FG1-MW1d	9/26/2019	14:56	14.58	62.17		
FG1-MW1d	10/25/2019	10:49	14.80	61.95		
FG1-MW1d	11/13/2019	9:40	15.33	61.42		
FG1-MW1d	12/14/2019	13:13	15.95	60.80		
FG1-MW2s	1/30/2012	12:37	Dry			
FG1-MW2s	2/12/2012	12:25	Dry			
FG1-MW2s	3/5/2012	13:01	Dry			
FG1-MW2s	4/5/2012	15:30	Dry			
FG1-MW2s	5/14/2012	12:03	Dry			
FG1-MW2s	6/18/2012	12:42	Dry			
FG1-MW2s	7/9/2012	14:21	Dry			
FG1-MW2s	8/15/2012	16:25	Dry			
FG1-MW2s	9/17/2012	13:20	Dry			
FG1-MW2s	10/20/2012	10:54	Dry			
FG1-MW2s	12/11/2012	13:26	Dry			
FG1-MW2s	12/28/2012	11:56	Dry			
FG1-MW2s	1/16/2013	10:42	Dry			
FG1-MW2s	2/17/2013	11:23	Dry			
FG1-MW2s	3/21/2013	11:12	Dry			
FG1-MW2s	4/16/2013	13:30	Dry			
FG1-MW2s	5/30/2013	10:35	Dry			
FG1-MW2s	6/17/2013	13:13	Dry			
FG1-MW2s	7/16/2013	12:55	Dry			
FG1-MW2s	8/22/2013	16:48	Dry			
FG1-MW2s	9/9/2013	13:46	Dry			
FG1-MW2s	10/7/2013	16:12	Dry			
FG1-MW2s	11/14/2013	9:44	Dry			
FG1-MW2s	12/17/2013	15:05	Dry			
FG1-MW2s	1/13/2014	14:42	Dry			
FG1-MW2s	2/20/2014	8:32	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
FG1-MW2s	3/16/2014	15:08	Dry			
FG1-MW2s	4/19/2014	17:21	Dry			
FG1-MW2s	5/21/2014	11:50	Dry			
FG1-MW2s	6/19/2014	15:00	Dry			
FG1-MW2s	7/17/2014	13:34	Dry			
FG1-MW2s	8/22/2014	12:09	Dry			
FG1-MW2s	9/22/2014	14:37	Dry			
FG1-MW2s	10/14/2014	15:34	Dry			
FG1-MW2s	11/7/2014	16:01	Dry			
FG1-MW2s	12/15/2014	10:26	Dry			
FG1-MW2s	1/12/2015	17:40	Dry			
FG1-MW2s	2/10/2015	15:55	Dry			
FG1-MW2s	3/13/2015	16:02	Dry			
FG1-MW2s	4/17/2015	13:50	Dry			
FG1-MW2s	5/14/2015	8:07	Dry			
FG1-MW2s	6/4/2015	12:26	Dry			
FG1-MW2s	7/22/2015	9:14	Dry			
FG1-MW2s	8/19/2015	8:22	Dry			
FG1-MW2s	9/14/2015	14:14	Dry			
FG1-MW2s	10/16/2015	14:25	Dry			
FG1-MW2s	11/18/2015	7:55	Dry			
FG1-MW2s	12/23/2015	16:15	Dry			
FG1-MW2s	1/15/2016	16:43	Dry			
FG1-MW2s	2/22/2016	15:47	Dry			
FG1-MW2s	3/18/2016	15:14	Dry			
FG1-MW2s	4/18/2016	16:05	Dry			
FG1-MW2s	5/19/2016	11:00	Dry			
FG1-MW2s	6/16/2016	14:13	Dry			
FG1-MW2s	7/21/2016	15:35	Dry			
FG1-MW2s	8/19/2016	11:55	Dry			
FG1-MW2s	9/15/2016	15:31	Dry			
FG1-MW2s	10/14/2016	15:47	Dry			
FG1-MW2s	12/1/2016	11:21	Dry			
FG1-MW2s	12/12/2016	15:50	Dry			
FG1-MW2s	1/25/2017	16:04	16.00	64.27	<|0.05|	0
FG1-MW2s	2/1/2017		N/M			
FG1-MW2s	3/15/2017	8:49	9.53	70.74	<|0.05|	0
FG1-MW2s	4/20/2017	15:15	10.31	69.96	<|0.05|	0
FG1-MW2s	5/19/2017	9:31	10.89	69.38	<|0.05|	0
FG1-MW2s	6/23/2017	13:05	13.88	66.39	<|0.05|	0
FG1-MW2s	7/14/2017	14:41	15.45	64.82	<|0.05|	0
FG1-MW2s	8/28/2017	8:55	Dry			
FG1-MW2s	9/22/2017	16:19	Dry			
FG1-MW2s	10/19/2017	15:43	Dry			
FG1-MW2s	11/21/2017	16:46	Dry			
FG1-MW2s	12/21/2017	16:10	Dry			
FG1-MW2s	1/23/2018	16:05	Dry			
FG1-MW2s	2/22/2018	16:18	Dry			
FG1-MW2s	3/1/2018		N/M			
FG1-MW2s	4/24/2018	13:40	16.78	63.49	<|0.05|	0
FG1-MW2s	5/10/2018	15:23	Dry			
FG1-MW2s	6/13/2018	16:14	Dry			
FG1-MW2s	7/16/2018	13:55	Dry			
FG1-MW2s	8/23/2018	12:11	Dry			
FG1-MW2s	9/16/2018	18:00	Dry			
FG1-MW2s	10/25/2018	15:24	Dry			
FG1-MW2s	11/14/2018	9:14	Dry			
FG1-MW2s	12/15/2018	11:39	Dry			
FG1-MW2s	1/25/2019	14:19	Dry			
FG1-MW2s	2/25/2019	8:36	15.60	64.67	<|0.05|	0
FG1-MW2s	3/16/2019	16:35	15.73	64.54	<|0.05|	0
FG1-MW2s	4/15/2019	13:29	15.22	65.05	<|0.05|	0
FG1-MW2s	5/24/2019	8:25	14.33	65.94	<|0.05|	0
FG1-MW2s	6/20/2019	15:52	14.60	65.67	<|0.05|	0
FG1-MW2s	7/17/2019	11:39	Dry			
FG1-MW2s	8/16/2019	13:15	Dry			
FG1-MW2s	9/26/2019	15:06	14.23	66.04	<|0.05|	0
FG1-MW2s	10/25/2019	11:00	Dry			
FG1-MW2s	11/13/2019	9:36	Dry			
FG1-MW2s	12/14/2019	13:08	Dry			
FG1-MW2d	1/30/2012	12:40	20.04	59.95		
FG1-MW2d	2/12/2012	12:26	20.18	59.81		
FG1-MW2d	3/5/2012	13:00	19.81	60.18		
FG1-MW2d	4/5/2012	15:33	20.21	59.78		
FG1-MW2d	5/14/2012	12:04	17.89	62.10		
FG1-MW2d	6/18/2012	12:41	19.85	60.14		
FG1-MW2d	7/9/2012	14:20	19.38	60.61		
FG1-MW2d	8/15/2012	16:25	19.47	60.52		
FG1-MW2d	9/17/2012	13:20	19.80	60.19		
FG1-MW2d	10/20/2012	10:54	19.02	60.97		
FG1-MW2d	12/11/2012	13:26	20.03	59.96		
FG1-MW2d	12/28/2012	11:57	19.72	60.27		
FG1-MW2d	1/16/2013	10:43	19.98	60.01		
FG1-MW2d	2/17/2013	11:24	20.13	59.86		
FG1-MW2d	3/21/2013	11:12	20.38	59.61		
FG1-MW2d	4/16/2013	13:30	20.36	59.63		
FG1-MW2d	5/30/2013	10:35	20.03	59.96		
FG1-MW2d	6/17/2013	13:14	20.06	59.93		
FG1-MW2d	7/16/2013	12:55	19.47	60.52		
FG1-MW2d	8/22/2013	16:48	20.80	59.19		
FG1-MW2d	9/9/2013	13:46	19.88	60.11		
FG1-MW2d	10/7/2013	16:12	19.07	60.92		
FG1-MW2d	11/14/2013	9:44	19.88	60.11		
FG1-MW2d	12/17/2013	15:05	20.64	59.35		
FG1-MW2d	1/13/2014	14:42	20.77	59.22		
FG1-MW2d	2/20/2014	8:32	20.84	59.15		
FG1-MW2d	3/16/2014	15:08	21.17	58.82		
FG1-MW2d	4/19/2014	17:21	21.00	58.99		
FG1-MW2d	5/21/2014	11:50	21.03	58.96		
FG1-MW2d	6/19/2014	15:00	20.14	59.85		
FG1-MW2d	7/17/2014	13:34	20.05	59.94		
FG1-MW2d	8/22/2014	12:09	20.42	59.57		
FG1-MW2d	9/22/2014	14:37	21.57	58.42		
FG1-MW2d	10/14/2014	15:34	21.19	58.80		
FG1-MW2d	11/7/2014	16:01	19.60	60.39		
FG1-MW2d	12/15/2014	10:26	20.01	59.98		
FG1-MW2d	1/12/2015	17:40	20.44	59.55		
FG1-MW2d	2/10/2015	15:55	20.72	59.27		
FG1-MW2d	3/13/2015	16:02	20.82	59.17		
FG1-MW2d	4/17/2015	13:50	21.43	58.56		
FG1-MW2d	5/14/2015	8:07	21.36	58.63		
FG1-MW2d	6/4/2015	12:26	21.18	58.81		
FG1-MW2d	7/22/2015	9:14	20.99	59.00		
FG1-MW2d	8/19/2015	8:23	22.27	57.72		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
FG1-MW2d	9/14/2015	14:15	22.66	57.33		
FG1-MW2d	10/16/2015	14:26	22.58	57.41		
FG1-MW2d	11/18/2015	7:56	20.53	59.46		
FG1-MW2d	12/23/2015	16:16	20.50	59.49		
FG1-MW2d	1/15/2016	16:44	20.14	59.85		
FG1-MW2d	2/22/2016	15:48	20.39	59.60		
FG1-MW2d	3/18/2016	15:14	19.86	60.13		
FG1-MW2d	4/18/2016	16:05	20.86	59.13		
FG1-MW2d	5/19/2016	11:00	21.52	58.47		
FG1-MW2d	6/16/2016	14:12	22.00	57.99		
FG1-MW2d	7/21/2016	15:35	22.82	57.17		
FG1-MW2d	8/19/2016	11:55	23.00	56.99		
FG1-MW2d	9/15/2016	15:32	22.72	57.27		
FG1-MW2d	10/14/2016	15:47	22.25	57.74		
FG1-MW2d	12/1/2016	11:22	20.28	59.71		
FG1-MW2d	12/12/2016	15:51	20.24	59.75		
FG1-MW2d	1/25/2017	16:05	15.71	64.28		
FG1-MW2d	2/1/2017		N/M			
FG1-MW2d	3/15/2017	8:49	9.25	70.74		
FG1-MW2d	4/20/2017	15:16	10.05	69.94		
FG1-MW2d	5/19/2017	9:32	10.63	69.36		
FG1-MW2d	6/23/2017	13:05	13.58	66.41		
FG1-MW2d	7/14/2017	14:42	15.20	64.79		
FG1-MW2d	8/28/2017	8:55	18.81	61.18		
FG1-MW2d	9/22/2017	16:20	17.56	62.43		
FG1-MW2d	10/19/2017	15:44	17.13	62.86		
FG1-MW2d	11/21/2017	16:47	18.82	61.17		
FG1-MW2d	12/21/2017	16:09	19.68	60.31		
FG1-MW2d	1/23/2018	16:06	20.03	59.96		
FG1-MW2d	2/22/2018	16:17	20.33	59.66		
FG1-MW2d	3/1/2018		N/M			
FG1-MW2d	4/24/2018	13:40	16.52	63.47		
FG1-MW2d	5/10/2018	15:24	17.67	62.32		
FG1-MW2d	6/13/2018	16:15	19.62	60.37		
FG1-MW2d	7/16/2018	13:55	19.71	60.28		
FG1-MW2d	8/23/2018	12:11	21.35	58.64		
FG1-MW2d	9/16/2018	18:00	20.70	59.29		
FG1-MW2d	10/25/2018	15:23	20.05	59.94		
FG1-MW2d	11/14/2018	9:13	20.46	59.53		
FG1-MW2d	12/15/2018	11:40	20.60	59.39		
FG1-MW2d	1/25/2019	14:18	20.68	59.31		
FG1-MW2d	2/25/2019	8:37	15.34	64.65		
FG1-MW2d	3/16/2019	16:36	15.45	64.54		
FG1-MW2d	4/15/2019	13:29	14.96	65.03		
FG1-MW2d	5/24/2019	8:25	14.06	65.93		
FG1-MW2d	6/20/2019	15:53	14.31	65.68		
FG1-MW2d	7/17/2019	11:39	18.10	61.89		
FG1-MW2d	8/16/2019	13:15	19.55	60.44		
FG1-MW2d	9/26/2019	15:06	13.98	66.01		
FG1-MW2d	10/25/2019	11:00	17.77	62.22		
FG1-MW2d	11/13/2019	9:36	18.98	61.01		
FG1-MW2d	12/14/2019	13:09	19.61	60.38		
FG1-MW3s	1/30/2012	12:31	Dry			
FG1-MW3s	2/12/2012	12:46	Dry			
FG1-MW3s	3/5/2012	12:58	Dry			
FG1-MW3s	4/5/2012	15:35	Dry			
FG1-MW3s	5/14/2012	11:50	16.53	61.80	<|0.05|	0
FG1-MW3s	6/18/2012	12:40	Dry			
FG1-MW3s	7/9/2012	14:18	Dry			
FG1-MW3s	8/15/2012	16:29	Dry			
FG1-MW3s	9/17/2012	13:17	Dry			
FG1-MW3s	10/20/2012	10:52	Dry			
FG1-MW3s	12/11/2012	13:29	Dry			
FG1-MW3s	12/28/2012	11:53	Dry			
FG1-MW3s	1/16/2013	10:40	Dry			
FG1-MW3s	2/17/2013	11:18	Dry			
FG1-MW3s	3/21/2013	11:09	Dry			
FG1-MW3s	4/16/2013	13:27	Dry			
FG1-MW3s	5/30/2013	10:32	Dry			
FG1-MW3s	6/17/2013	13:16	Dry			
FG1-MW3s	7/16/2013	12:52	Dry			
FG1-MW3s	8/22/2013	16:44	Dry			
FG1-MW3s	9/9/2013	13:43	Dry			
FG1-MW3s	10/7/2013	16:09	Dry			
FG1-MW3s	11/14/2013	9:50	Dry			
FG1-MW3s	12/17/2013	15:01	Dry			
FG1-MW3s	1/13/2014	14:39	Dry			
FG1-MW3s	2/20/2014	8:29	Dry			
FG1-MW3s	3/16/2014	15:06	Dry			
FG1-MW3s	4/19/2014	17:17	Dry			
FG1-MW3s	5/21/2014	11:48	Dry			
FG1-MW3s	6/19/2014	14:57	Dry			
FG1-MW3s	7/17/2014	13:31	Dry			
FG1-MW3s	8/22/2014	12:06	Dry			
FG1-MW3s	9/22/2014	14:34	Dry			
FG1-MW3s	10/14/2014	15:32	Dry			
FG1-MW3s	11/7/2014	15:58	Dry			
FG1-MW3s	12/15/2014	10:23	Dry			
FG1-MW3s	1/12/2015	17:42	Dry			
FG1-MW3s	2/10/2015	15:53	Dry			
FG1-MW3s	3/13/2015	16:00	Dry			
FG1-MW3s	4/17/2015	13:46	Dry			
FG1-MW3s	5/14/2015	8:05	Dry			
FG1-MW3s	6/4/2015	12:24	Dry			
FG1-MW3s	7/22/2015	9:19	Dry			
FG1-MW3s	8/19/2015	8:25	Dry			
FG1-MW3s	9/14/2015	14:10	Dry			
FG1-MW3s	10/16/2015	14:27	Dry			
FG1-MW3s	11/18/2015	7:59	Dry			
FG1-MW3s	12/23/2015	16:17	Dry			
FG1-MW3s	1/15/2016	16:46	Dry			
FG1-MW3s	2/22/2016	15:50	Dry			
FG1-MW3s	3/18/2016	15:10	Dry			
FG1-MW3s	4/18/2016	16:02	Dry			
FG1-MW3s	5/19/2016	10:58	Dry			
FG1-MW3s	6/16/2016	14:14	Dry			
FG1-MW3s	7/21/2016	15:32	Dry			
FG1-MW3s	8/19/2016	11:53	Dry			
FG1-MW3s	9/15/2016	15:35	Dry			
FG1-MW3s	10/14/2016	15:45	Dry			
FG1-MW3s	12/1/2016	11:23	Dry			
FG1-MW3s	12/12/2016	15:53	Dry			
FG1-MW3s	1/25/2017	16:06	15.61	62.72	<|0.05|	0
FG1-MW3s	2/1/2017		N/M			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
FG1-MW3s	3/15/2017	8:51	8.98	69.35	<|0.05|	0
FG1-MW3s	4/20/2017	15:17	9.03	69.30	<|0.05|	0
FG1-MW3s	5/19/2017	9:29	9.44	68.89	<|0.05|	0
FG1-MW3s	6/23/2017	13:09	12.11	66.22	<|0.05|	0
FG1-MW3s	7/14/2017	14:44	13.52	64.81	<|0.05|	0
FG1-MW3s	8/28/2017	8:52	16.92	61.41	<|0.05|	0
FG1-MW3s	9/22/2017	16:21	16.06	62.27	<|0.05|	0
FG1-MW3s	10/19/2017	15:45	15.75	62.58	<|0.05|	0
FG1-MW3s	11/21/2017	16:47	17.06	61.27	<|0.05|	0
FG1-MW3s	12/21/2017	16:10	Dry			
FG1-MW3s	1/23/2018	16:07	Dry			
FG1-MW3s	2/22/2018	16:16	Dry			
FG1-MW3s	3/1/2018		N/M			
FG1-MW3s	4/24/2018	13:37	15.36	62.97	<|0.05|	0
FG1-MW3s	5/10/2018	15:25	16.06	62.27	<|0.05|	0
FG1-MW3s	6/13/2018	16:16	Dry			
FG1-MW3s	7/16/2018	13:56	Dry			
FG1-MW3s	8/23/2018	12:12	Dry			
FG1-MW3s	9/16/2018	18:01	Dry			
FG1-MW3s	10/25/2018	15:26	Dry			
FG1-MW3s	11/14/2018	9:15	Dry			
FG1-MW3s	12/15/2018	11:40	Dry			
FG1-MW3s	1/25/2019	14:20	Dry			
FG1-MW3s	2/25/2019	8:34	15.25	63.08	<|0.05|	0
FG1-MW3s	3/16/2019	16:37	14.26	64.07	<|0.05|	0
FG1-MW3s	4/15/2019	13:26	13.58	64.75	<|0.05|	0
FG1-MW3s	5/24/2019	8:22	13.15	65.18	<|0.05|	0
FG1-MW3s	6/20/2019	15:55	12.95	65.38	<|0.05|	0
FG1-MW3s	7/17/2019	11:36	16.20	62.13	<|0.05|	0
FG1-MW3s	8/16/2019	13:12	Dry			
FG1-MW3s	9/26/2019	15:01	15.83	62.50	<|0.05|	0
FG1-MW3s	10/25/2019	10:53	16.33	62.00	<|0.05|	0
FG1-MW3s	11/13/2019	9:38	17.14	61.19	<|0.05|	0
FG1-MW3s	12/14/2019	13:10	Dry			
FG1-MW3d	1/30/2012	12:33	17.90	60.17		
FG1-MW3d	2/12/2012	12:47	18.08	59.99		
FG1-MW3d	3/5/2012	12:57	17.73	60.34		
FG1-MW3d	4/5/2012	15:37	18.15	59.92		
FG1-MW3d	5/14/2012	11:51	16.28	61.79		
FG1-MW3d	6/18/2012	12:39	17.33	60.74		
FG1-MW3d	7/9/2012	14:18	17.48	60.59		
FG1-MW3d	8/15/2012	16:29	17.62	60.45		
FG1-MW3d	9/17/2012	13:17	17.78	60.29		
FG1-MW3d	10/20/2012	10:52	17.27	60.80		
FG1-MW3d	12/11/2012	13:29	18.17	59.90		
FG1-MW3d	12/28/2012	11:54	17.90	60.17		
FG1-MW3d	1/16/2013	10:41	18.09	59.98		
FG1-MW3d	2/17/2013	11:19	18.10	59.97		
FG1-MW3d	3/21/2013	11:09	17.38	60.69		
FG1-MW3d	4/16/2013	13:27	18.48	59.59		
FG1-MW3d	5/30/2013	10:32	18.30	59.77		
FG1-MW3d	6/17/2013	13:17	18.30	59.77		
FG1-MW3d	7/16/2013	12:52	17.64	60.43		
FG1-MW3d	8/22/2013	16:44	18.74	59.33		
FG1-MW3d	9/9/2013	13:43	18.06	60.01		
FG1-MW3d	10/7/2013	16:09	17.38	60.69		
FG1-MW3d	11/14/2013	9:50	18.03	60.04		
FG1-MW3d	12/17/2013	15:01	18.74	59.33		
FG1-MW3d	1/13/2014	14:39	18.91	59.16		
FG1-MW3d	2/20/2014	8:29	18.97	59.10		
FG1-MW3d	3/16/2014	15:06	19.21	58.86		
FG1-MW3d	4/19/2014	17:17	19.12	58.95		
FG1-MW3d	5/21/2014	11:48	19.23	58.84		
FG1-MW3d	6/19/2014	14:57	18.39	59.68		
FG1-MW3d	7/17/2014	13:31	18.42	59.65		
FG1-MW3d	8/22/2014	12:06	18.56	59.51		
FG1-MW3d	9/22/2014	14:34	19.68	58.39		
FG1-MW3d	10/14/2014	15:32	19.48	58.59		
FG1-MW3d	11/7/2014	15:58	18.34	59.73		
FG1-MW3d	12/15/2014	10:23	18.40	59.67		
FG1-MW3d	1/12/2015	17:42	18.66	59.41		
FG1-MW3d	2/10/2015	15:53	18.93	59.14		
FG1-MW3d	3/13/2015	16:00	18.92	59.15		
FG1-MW3d	4/17/2015	13:46	19.51	58.56		
FG1-MW3d	5/14/2015	8:05	19.43	58.64		
FG1-MW3d	6/4/2015	12:24	19.48	58.59		
FG1-MW3d	7/22/2015	9:19	19.53	58.54		
FG1-MW3d	8/19/2015	8:26	20.51	57.56		
FG1-MW3d	9/14/2015	14:11	21.02	57.05		
FG1-MW3d	10/16/2015	14:28	21.13	56.94		
FG1-MW3d	11/18/2015	8:00	19.44	58.63		
FG1-MW3d	12/23/2015	16:18	19.16	58.91		
FG1-MW3d	1/15/2016	16:47	18.86	59.21		
FG1-MW3d	2/22/2016	15:51	18.85	59.22		
FG1-MW3d	3/18/2016	15:10	18.55	59.52		
FG1-MW3d	4/18/2016	16:02	19.11	58.96		
FG1-MW3d	5/19/2016	10:58	19.63	58.44		
FG1-MW3d	6/16/2016	14:15	19.96	58.11		
FG1-MW3d	7/21/2016	15:32	20.83	57.24		
FG1-MW3d	8/19/2016	11:53	21.21	56.86		
FG1-MW3d	9/15/2016	15:34	21.10	56.97		
FG1-MW3d	10/14/2016	15:45	20.64	57.43		
FG1-MW3d	12/1/2016	11:24	18.81	59.26		
FG1-MW3d	12/12/2016	15:54	18.77	59.30		
FG1-MW3d	1/25/2017	16:07	15.32	62.75		
FG1-MW3d	2/1/2017		N/M			
FG1-MW3d	3/15/2017	8:51	8.68	69.39		
FG1-MW3d	4/20/2017	15:18	8.75	69.32		
FG1-MW3d	5/19/2017	9:28	9.20	68.87		
FG1-MW3d	6/23/2017	13:09	11.87	66.20		
FG1-MW3d	7/14/2017	14:45	13.23	64.84		
FG1-MW3d	8/28/2017	8:52	16.65	61.42		
FG1-MW3d	9/22/2017	16:22	15.81	62.26		
FG1-MW3d	10/19/2017	15:46	15.50	62.57		
FG1-MW3d	11/21/2017	16:48	16.79	61.28		
FG1-MW3d	12/21/2017	16:11	17.62	60.45		
FG1-MW3d	1/23/2018	16:08	18.01	60.06		
FG1-MW3d	2/22/2018	16:15	18.32	59.75		
FG1-MW3d	3/1/2018		N/M			
FG1-MW3d	4/24/2018	13:37	15.09	62.98		
FG1-MW3d	5/10/2018	15:26	15.80	62.27		
FG1-MW3d	6/13/2018	16:17	17.37	60.70		
FG1-MW3d	7/16/2018	13:57	18.47	59.60		
FG1-MW3d	8/23/2018	12:12	19.21	58.86		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
FG1-MW3d	9/16/2018	18:01	18.86	59.21		
FG1-MW3d	10/25/2018	15:27	18.25	59.82		
FG1-MW3d	11/14/2018	9:16	18.59	59.48		
FG1-MW3d	12/15/2018	11:41	18.72	59.35		
FG1-MW3d	1/25/2019	14:21	18.79	59.28		
FG1-MW3d	2/25/2019	8:35	14.96	63.11		
FG1-MW3d	3/16/2019	16:37	14.00	64.07		
FG1-MW3d	4/15/2019	13:26	13.32	64.75		
FG1-MW3d	5/24/2019	8:22	12.88	65.19		
FG1-MW3d	6/20/2019	15:56	12.68	65.39		
FG1-MW3d	7/17/2019	11:36	15.93	62.14		
FG1-MW3d	8/16/2019	13:12	17.32	60.75		
FG1-MW3d	9/26/2019	15:01	15.60	62.47		
FG1-MW3d	10/25/2019	10:53	16.08	61.99		
FG1-MW3d	11/13/2019	9:38	16.89	61.18		
FG1-MW3d	12/14/2019	13:11	17.58	60.49		
FG1-MW4s	1/30/2012	12:45	16.45	60.27	<|0.05|	0
FG1-MW4s	2/12/2012	13:10	15.58	61.14	0.99	0.06
FG1-MW4s	3/5/2012	12:51	16.13	60.59	<|0.05|	0
FG1-MW4s	4/5/2012	15:24	16.59	60.13	<|0.05|	0
FG1-MW4s	5/14/2012	12:20	14.93	61.79	<|0.05|	0
FG1-MW4s	6/18/2012	12:46	14.35	62.37	<|0.05|	0
FG1-MW4s	7/9/2012	14:23	11.88	64.84	-0.23	-0.01
FG1-MW4s	8/15/2012	16:20	11.75	64.97	-0.11	-0.01
FG1-MW4s	9/17/2012	13:23	16.44	60.28	<|0.05|	0
FG1-MW4s	10/20/2012	10:57	14.25	62.47	1.99	0.11
FG1-MW4s	12/11/2012	13:22	16.47	60.25	<|0.05|	0
FG1-MW4s	12/28/2012	12:15	16.28	60.44	<|0.05|	0
FG1-MW4s	1/16/2013	10:59	16.42	60.30	<|0.05|	0
FG1-MW4s	2/17/2013	11:27	16.32	60.40	<|0.05|	0
FG1-MW4s	3/21/2013	11:18	16.63	60.09	<|0.05|	0
FG1-MW4s	4/16/2013	13:35	16.21	60.51	<|0.05|	0
FG1-MW4s	5/30/2013	10:39	15.14	61.58	<|0.05|	0
FG1-MW4s	6/17/2013	12:29	14.54	62.18	<|0.05|	0
FG1-MW4s	7/16/2013	12:59	12.66	64.06	<|0.05|	0
FG1-MW4s	8/22/2013	16:51	16.86	59.86	0.11	0.01
FG1-MW4s	9/9/2013	13:50	14.95	61.77	<|0.05|	0
FG1-MW4s	10/7/2013	16:16	13.94	62.78	<|0.05|	0
FG1-MW4s	11/14/2013	9:40	16.11	60.61	<|0.05|	0
FG1-MW4s	12/17/2013	15:09	17.02	59.70	<|0.05|	0
FG1-MW4s	1/13/2014	14:46	16.56	60.16	<|0.05|	0
FG1-MW4s	2/20/2014	8:36	17.25	59.47	<|0.05|	0
FG1-MW4s	3/16/2014	15:11	17.14	59.58	0.70	0.04
FG1-MW4s	4/19/2014	17:25	16.75	59.97	<|0.05|	0
FG1-MW4s	5/21/2014	11:55	16.27	60.45	<|0.05|	0
FG1-MW4s	6/19/2014	15:06	15.21	61.51	-0.11	-0.01
FG1-MW4s	7/17/2014	13:37	15.78	60.94	<|0.05|	0
FG1-MW4s	8/22/2014	12:12	14.61	62.11	-0.48	-0.03
FG1-MW4s	9/22/2014	14:41	17.74	58.98	<|0.05|	0
FG1-MW4s	10/14/2014	15:39	16.32	60.40	-0.07	-0.00
FG1-MW4s	11/7/2014	16:05	16.01	60.71	<|0.05|	0
FG1-MW4s	12/15/2014	10:28	16.54	60.18	<|0.05|	0
FG1-MW4s	1/12/2015	17:35	16.74	59.98	<|0.05|	0
FG1-MW4s	2/10/2015	16:00	17.08	59.64	<|0.05|	0
FG1-MW4s	3/13/2015	16:06	17.12	59.60	-0.12	-0.01
FG1-MW4s	4/17/2015	13:56	17.71	59.01	<|0.05|	0
FG1-MW4s	5/14/2015	8:11	17.03	59.69	<|0.05|	0
FG1-MW4s	6/4/2015	12:33	16.83	59.89	<|0.05|	0
FG1-MW4s	7/22/2015	9:09	15.61	61.11	<|0.05|	0
FG1-MW4s	8/19/2015	8:16	18.46	58.26	<|0.05|	0
FG1-MW4s	9/14/2015	14:19	18.90	57.82	<|0.05|	0
FG1-MW4s	10/16/2015	14:21	18.83	57.89	<|0.05|	0
FG1-MW4s	11/18/2015	8:07	16.71	60.01	<|0.05|	0
FG1-MW4s	12/23/2015	16:11	16.75	59.97	<|0.05|	0
FG1-MW4s	1/15/2016	16:34	16.37	60.35	<|0.05|	0
FG1-MW4s	2/22/2016	15:36	16.66	60.06	<|0.05|	0
FG1-MW4s	3/18/2016	15:18	16.22	60.50	<|0.05|	0
FG1-MW4s	4/18/2016	16:09	17.20	59.52	<|0.05|	0
FG1-MW4s	5/19/2016	11:04	17.92	58.80	<|0.05|	0
FG1-MW4s	6/16/2016	14:00	18.40	58.32	<|0.05|	0
FG1-MW4s	7/21/2016	15:45	19.29	57.43	<|0.05|	0
FG1-MW4s	8/19/2016	12:00	19.49	57.23	<|0.05|	0
FG1-MW4s	9/15/2016	15:21	19.10	57.62	<|0.05|	0
FG1-MW4s	10/14/2016	15:51	18.60	58.12	<|0.05|	0
FG1-MW4s	12/1/2016	11:30	16.56	60.16	<|0.05|	0
FG1-MW4s	12/12/2016	15:47	16.56	60.16	<|0.05|	0
FG1-MW4s	1/25/2017	16:01	12.35	64.37	<|0.05|	0
FG1-MW4s	2/1/2017		N/M			
FG1-MW4s	3/15/2017	8:46	5.21	71.51	<|0.05|	0
FG1-MW4s	4/20/2017	15:22	6.22	70.50	<|0.05|	0
FG1-MW4s	5/19/2017	9:21	6.76	69.96	<|0.05|	0
FG1-MW4s	6/23/2017	12:58	10.02	66.70	<|0.05|	0
FG1-MW4s	7/14/2017	14:38	11.54	65.18	<|0.05|	0
FG1-MW4s	8/28/2017	9:24	15.22	61.50	<|0.05|	0
FG1-MW4s	9/22/2017	16:15	13.99	62.73	<|0.05|	0
FG1-MW4s	10/19/2017	15:39	13.47	63.25	<|0.05|	0
FG1-MW4s	11/21/2017	16:42	15.14	61.58	<|0.05|	0
FG1-MW4s	12/21/2017	16:04	16.10	60.62	<|0.05|	0
FG1-MW4s	1/23/2018	16:01	16.47	60.25	<|0.05|	0
FG1-MW4s	2/22/2018	16:01	16.78	59.94	<|0.05|	0
FG1-MW4s	3/1/2018		N/M			
FG1-MW4s	4/24/2018	13:44	12.88	63.84	<|0.05|	0
FG1-MW4s	5/10/2018	15:20	14.02	62.70	<|0.05|	0
FG1-MW4s	6/13/2018	16:12	16.03	60.69	<|0.05|	0
FG1-MW4s	7/16/2018	13:50	17.19	59.53	<|0.05|	0
FG1-MW4s	8/23/2018	12:20	17.91	58.81	<|0.05|	0
FG1-MW4s	9/16/2018	17:57	17.31	59.41	<|0.05|	0
FG1-MW4s	10/25/2018	15:21	16.53	60.19	<|0.05|	0
FG1-MW4s	11/14/2018	9:20	16.60	60.12	0.67	0.04
FG1-MW4s	12/15/2018	11:35	17.06	59.66	<|0.05|	0
FG1-MW4s	1/25/2019	14:15	17.24	59.48	<|0.05|	0
FG1-MW4s	2/25/2019	8:40	11.91	64.81	<|0.05|	0
FG1-MW4s	3/16/2019	16:31	11.83	64.89	0.48	0.03
FG1-MW4s	4/15/2019	13:34	11.30	65.42	<|0.05|	0
FG1-MW4s	5/24/2019	8:29	10.46	66.26	<|0.05|	0
FG1-MW4s	6/20/2019	15:49	10.66	66.06	<|0.05|	0
FG1-MW4s	7/17/2019	11:42	14.30	62.42	0.17	0.01
FG1-MW4s	8/16/2019	13:25	16.10	60.62	<|0.05|	0
FG1-MW4s	9/26/2019	15:09	13.52	63.20	<|0.05|	0
FG1-MW4s	10/25/2019	11:04	14.21	62.51	<|0.05|	0
FG1-MW4s	11/13/2019	9:34	15.38	61.34	<|0.05|	0
FG1-MW4s	12/14/2019	13:00	16.19	60.53	<|0.05|	0
FG1-MW4d	1/30/2012	12:47	16.11	60.27		
FG1-MW4d	2/12/2012	13:11	16.23	60.15		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
FG1-MW4d	3/5/2012	12:49	15.75	60.63		
FG1-MW4d	4/5/2012	15:25	16.25	60.13		
FG1-MW4d	5/14/2012	12:22	14.58	61.80		
FG1-MW4d	6/18/2012	12:45	14.00	62.38		
FG1-MW4d	7/9/2012	14:23	11.31	65.07		
FG1-MW4d	8/15/2012	16:20	11.30	65.08		
FG1-MW4d	9/17/2012	13:23	16.08	60.30		
FG1-MW4d	10/20/2012	10:57	15.90	60.48		
FG1-MW4d	12/11/2012	13:22	16.13	60.25		
FG1-MW4d	12/28/2012	12:16	15.93	60.45		
FG1-MW4d	1/16/2013	11:00	16.08	60.30		
FG1-MW4d	2/17/2013	11:28	15.95	60.43		
FG1-MW4d	3/21/2013	11:18	16.29	60.09		
FG1-MW4d	4/16/2013	13:35	15.85	60.53		
FG1-MW4d	5/30/2013	10:39	14.81	61.57		
FG1-MW4d	6/17/2013	12:30	14.20	62.18		
FG1-MW4d	7/16/2013	12:59	12.29	64.09		
FG1-MW4d	8/22/2013	16:51	16.63	59.75		
FG1-MW4d	9/9/2013	13:50	14.62	61.76		
FG1-MW4d	10/7/2013	16:16	13.58	62.80		
FG1-MW4d	11/14/2013	9:40	15.75	60.63		
FG1-MW4d	12/17/2013	15:09	16.65	59.73		
FG1-MW4d	1/13/2014	14:46	16.19	60.19		
FG1-MW4d	2/20/2014	8:36	16.90	59.48		
FG1-MW4d	3/16/2014	15:11	17.50	58.88		
FG1-MW4d	4/19/2014	17:25	16.43	59.95		
FG1-MW4d	5/21/2014	11:55	15.91	60.47		
FG1-MW4d	6/19/2014	15:06	14.76	61.62		
FG1-MW4d	7/17/2014	13:37	15.43	60.95		
FG1-MW4d	8/22/2014	12:12	13.79	62.59		
FG1-MW4d	9/22/2014	14:41	17.40	58.98		
FG1-MW4d	10/14/2014	15:39	15.91	60.47		
FG1-MW4d	11/7/2014	16:05	15.70	60.68		
FG1-MW4d	12/15/2014	10:28	16.19	60.19		
FG1-MW4d	1/12/2015	17:35	16.38	60.00		
FG1-MW4d	2/10/2015	16:00	16.78	59.60		
FG1-MW4d	3/13/2015	16:06	16.66	59.72		
FG1-MW4d	4/17/2015	13:56	17.35	59.03		
FG1-MW4d	5/14/2015	8:11	16.70	59.68		
FG1-MW4d	6/4/2015	12:33	16.50	59.88		
FG1-MW4d	7/22/2015	9:09	15.30	61.08		
FG1-MW4d	8/19/2015	8:17	18.14	58.24		
FG1-MW4d	9/14/2015	14:20	18.56	57.82		
FG1-MW4d	10/16/2015	14:22	18.50	57.88		
FG1-MW4d	11/18/2015	8:08	16.36	60.02		
FG1-MW4d	12/23/2015	16:12	16.39	59.99		
FG1-MW4d	1/15/2016	16:35	16.03	60.35		
FG1-MW4d	2/22/2016	15:37	16.33	60.05		
FG1-MW4d	3/18/2016	15:18	15.85	60.53		
FG1-MW4d	4/18/2016	16:09	16.90	59.48		
FG1-MW4d	5/19/2016	11:04	17.58	58.80		
FG1-MW4d	6/16/2016	14:01	18.05	58.33		
FG1-MW4d	7/21/2016	15:45	18.92	57.46		
FG1-MW4d	8/19/2016	12:00	19.12	57.26		
FG1-MW4d	9/15/2016	15:22	18.74	57.64		
FG1-MW4d	10/14/2016	15:51	18.25	58.13		
FG1-MW4d	12/1/2016	11:31	16.21	60.17		
FG1-MW4d	12/12/2016	15:46	16.23	60.15		
FG1-MW4d	1/25/2017	16:02	11.97	64.41		
FG1-MW4d	2/1/2017		N/M			
FG1-MW4d	3/15/2017	8:46	4.83	71.55		
FG1-MW4d	4/20/2017	15:23	5.86	70.52		
FG1-MW4d	5/19/2017	9:22	6.41	69.97		
FG1-MW4d	6/23/2017	12:58	9.68	66.70		
FG1-MW4d	7/14/2017	14:39	11.22	65.16		
FG1-MW4d	8/28/2017	9:24	14.89	61.49		
FG1-MW4d	9/22/2017	16:16	13.64	62.74		
FG1-MW4d	10/19/2017	15:40	13.13	63.25		
FG1-MW4d	11/21/2017	16:43	14.82	61.56		
FG1-MW4d	12/21/2017	16:05	15.75	60.63		
FG1-MW4d	1/23/2018	16:02	16.17	60.21		
FG1-MW4d	2/22/2018	16:02	16.46	59.92		
FG1-MW4d	3/1/2018		N/M			
FG1-MW4d	4/24/2018	13:44	12.55	63.83		
FG1-MW4d	5/10/2018	15:21	13.69	62.69		
FG1-MW4d	6/13/2018	16:13	15.70	60.68		
FG1-MW4d	7/16/2018	13:50	16.87	59.51		
FG1-MW4d	8/23/2018	12:20	17.53	58.85		
FG1-MW4d	9/16/2018	17:57	16.93	59.45		
FG1-MW4d	10/25/2018	15:22	16.18	60.20		
FG1-MW4d	11/14/2018	9:21	16.93	59.45		
FG1-MW4d	12/15/2018	11:36	16.75	59.63		
FG1-MW4d	1/25/2019	14:16	16.91	59.47		
FG1-MW4d	2/25/2019	8:41	11.53	64.85		
FG1-MW4d	3/16/2019	16:31	11.97	64.41		
FG1-MW4d	4/15/2019	13:34	10.92	65.46		
FG1-MW4d	5/24/2019	8:29	10.07	66.31		
FG1-MW4d	6/20/2019	15:50	10.33	66.05		
FG1-MW4d	7/17/2019	11:42	14.13	62.25		
FG1-MW4d	8/16/2019	13:25	15.74	60.64		
FG1-MW4d	9/26/2019	15:09	13.13	63.25		
FG1-MW4d	10/25/2019	11:04	13.83	62.55		
FG1-MW4d	11/13/2019	9:34	15.05	61.33		
FG1-MW4d	12/14/2019	13:01	15.86	60.52		
FG1-MW5s	1/30/2012	13:13	16.05	59.77	<|0.05|	0
FG1-MW5s	2/12/2012	14:00	16.22	59.60	<|0.05|	0
FG1-MW5s	3/5/2012	13:13	16.10	59.72	<|0.05|	0
FG1-MW5s	4/5/2012	15:20	16.22	59.60	<|0.05|	0
FG1-MW5s	5/14/2012	13:03	14.43	61.39	<|0.05|	0
FG1-MW5s	6/18/2012	12:59	16.35	59.47	<|0.05|	0
FG1-MW5s	7/9/2012	14:38	16.67	59.15	<|0.05|	0
FG1-MW5s	8/15/2012	16:10	16.92	58.90	<|0.05|	0
FG1-MW5s	9/17/2012	13:40	16.70	59.12	<|0.05|	0
FG1-MW5s	10/20/2012	11:11	14.83	60.99	<|0.05|	0
FG1-MW5s	12/11/2012	12:51	15.85	59.97	<|0.05|	0
FG1-MW5s	12/28/2012	12:00	14.05	61.77	<|0.05|	0
FG1-MW5s	1/16/2013	10:48	15.78	60.04	<|0.05|	0
FG1-MW5s	2/17/2013	11:57	15.94	59.88	<|0.05|	0
FG1-MW5s	3/21/2013	11:36	16.50	59.32	<|0.05|	0
FG1-MW5s	4/16/2013	14:11	16.09	59.73	<|0.05|	0
FG1-MW5s	5/30/2013	10:50	16.51	59.31	<|0.05|	0
FG1-MW5s	6/17/2013	12:43	17.03	58.79	<|0.05|	0
FG1-MW5s	7/16/2013	13:14	17.47	58.35	<|0.05|	0
FG1-MW5s	8/22/2013	17:06	17.69	58.13	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
FG1-MW5s	9/9/2013	14:11	16.76	59.06	<|0.05|	0
FG1-MW5s	10/7/2013	16:29	16.24	59.58	<|0.05|	0
FG1-MW5s	11/14/2013	9:20	16.13	59.69	<|0.05|	0
FG1-MW5s	12/17/2013	15:20	16.33	59.49	<|0.05|	0
FG1-MW5s	1/13/2014	14:56	16.43	59.39	<|0.05|	0
FG1-MW5s	2/20/2014	8:52	16.71	59.11	<|0.05|	0
FG1-MW5s	3/16/2014	15:23	17.00	58.82	<|0.05|	0
FG1-MW5s	4/19/2014	17:38	17.16	58.66	<|0.05|	0
FG1-MW5s	5/21/2014	12:08	17.60	58.22	<|0.05|	0
FG1-MW5s	6/19/2014	15:18	17.64	58.18	<|0.05|	0
FG1-MW5s	7/17/2014	13:48	17.85	57.97	<|0.05|	0
FG1-MW5s	8/22/2014	12:24	17.85	57.97	<|0.05|	0
FG1-MW5s	9/22/2014	14:54	17.60	58.22	<|0.05|	0
FG1-MW5s	10/14/2014	15:49	17.48	58.34	<|0.05|	0
FG1-MW5s	11/7/2014	16:18	15.24	60.58	<|0.05|	0
FG1-MW5s	12/15/2014	10:47	15.76	60.06	<|0.05|	0
FG1-MW5s	1/12/2015	17:19	16.18	59.64	<|0.05|	0
FG1-MW5s	2/10/2015	16:15	16.51	59.31	0.05	0.00
FG1-MW5s	3/13/2015	16:17	17.25	58.57	<|0.05|	0
FG1-MW5s	4/17/2015	14:09	17.56	58.26	<|0.05|	0
FG1-MW5s	5/14/2015	8:22	17.75	58.07	<|0.05|	0
FG1-MW5s	6/4/2015	12:50	18.02	57.80	<|0.05|	0
FG1-MW5s	7/22/2015	9:34	18.14	57.68	<|0.05|	0
FG1-MW5s	8/19/2015	8:18	18.25	57.57	<|0.05|	0
FG1-MW5s	9/14/2015	14:27	17.72	58.10	<|0.05|	0
FG1-MW5s	10/16/2015	14:14	17.40	58.42	<|0.05|	0
FG1-MW5s	11/18/2015	7:50	14.97	60.85	<|0.05|	0
FG1-MW5s	12/23/2015	16:07	14.21	61.61	<|0.05|	0
FG1-MW5s	1/15/2016	16:38	15.04	60.78	<|0.05|	0
FG1-MW5s	2/22/2016	15:41	15.70	60.12	<|0.05|	0
FG1-MW5s	3/18/2016		N/M			
FG1-MW5s	4/18/2016	16:31	16.80	59.02	<|0.05|	0
FG1-MW5s	5/19/2016	11:27	17.38	58.44	<|0.05|	0
FG1-MW5s	6/16/2016	14:06	18.05	57.77	<|0.05|	0
FG1-MW5s	7/21/2016	15:41	18.49	57.33	-0.05	-0.00
FG1-MW5s	8/19/2016	12:13	18.41	57.41	0.06	0.00
FG1-MW5s	9/15/2016	15:25	17.54	58.28	<|0.05|	0
FG1-MW5s	10/14/2016	16:09	16.83	58.99	<|0.05|	0
FG1-MW5s	12/1/2016	11:17	15.19	60.63	<|0.05|	0
FG1-MW5s	12/12/2016	15:43	15.00	60.82	<|0.05|	0
FG1-MW5s	1/25/2017	15:57	6.36	69.46	0.18	0.01
FG1-MW5s	2/1/2017		N/M			
FG1-MW5s	3/15/2017	8:30	N/M			
FG1-MW5s	4/20/2017	15:11	4.56	71.26	<|0.05|	0
FG1-MW5s	5/19/2017	9:16	8.00	67.82	<|0.05|	0
FG1-MW5s	6/23/2017	12:44	8.35	67.47	<|0.05|	0
FG1-MW5s	7/14/2017	14:34	13.26	62.56	0.07	0.00
FG1-MW5s	8/28/2017	9:17	14.83	60.99	<|0.05|	0
FG1-MW5s	9/22/2017	16:11	12.19	63.63	0.05	0.00
FG1-MW5s	10/19/2017	15:36	10.90	64.92	<|0.05|	0
FG1-MW5s	11/21/2017	16:38	15.15	60.67	0.07	0.00
FG1-MW5s	12/21/2017	16:00	15.64	60.18	0.11	0.01
FG1-MW5s	1/23/2018	15:57	15.76	60.06	<|0.05|	0
FG1-MW5s	2/22/2018	15:56	16.03	59.79	0.07	0.00
FG1-MW5s	3/1/2018		N/M			
FG1-MW5s	4/24/2018	14:02	11.90	63.92	0.07	0.00
FG1-MW5s	5/10/2018	15:15	13.61	62.21	<|0.05|	0
FG1-MW5s	6/13/2018	16:07	16.56	59.26	<|0.05|	0
FG1-MW5s	7/16/2018	13:46	16.96	58.86	<|0.05|	0
FG1-MW5s	8/23/2018	12:09	17.18	58.64	<|0.05|	0
FG1-MW5s	9/16/2018	17:52	13.58	62.24	<|0.05|	0
FG1-MW5s	10/25/2018	15:17	15.53	60.29	<|0.05|	0
FG1-MW5s	11/14/2018	9:04	15.96	59.86	<|0.05|	0
FG1-MW5s	12/15/2018	11:32	16.15	59.67	<|0.05|	0
FG1-MW5s	1/25/2019	14:11	16.46	59.36	<|0.05|	0
FG1-MW5s	2/25/2019	8:45	4.18	71.64	<|0.05|	0
FG1-MW5s	3/16/2019	16:28	10.71	65.11	<|0.05|	0
FG1-MW5s	4/15/2019	13:48	10.42	65.40	<|0.05|	0
FG1-MW5s	5/24/2019	8:44	4.16	71.66	<|0.05|	0
FG1-MW5s	6/20/2019	15:45	11.41	64.41	<|0.05|	0
FG1-MW5s	7/17/2019	12:00	15.30	60.52	<|0.05|	0
FG1-MW5s	8/16/2019	13:20	15.52	60.30	<|0.05|	0
FG1-MW5s	9/26/2019	15:26	8.45	67.37	<|0.05|	0
FG1-MW5s	10/25/2019	11:22	11.18	64.64	<|0.05|	0
FG1-MW5s	11/13/2019	9:58	15.74	60.08	<|0.05|	0
FG1-MW5s	12/14/2019	13:04	15.67	60.15	<|0.05|	0
FG1-MW5d	1/30/2012	13:15	15.85	59.78		
FG1-MW5d	2/12/2012	14:01	16.03	59.60		
FG1-MW5d	3/5/2012	13:12	15.93	59.70		
FG1-MW5d	4/5/2012	15:21	16.02	59.61		
FG1-MW5d	5/14/2012	13:03	14.23	61.40		
FG1-MW5d	6/18/2012	12:58	16.15	59.48		
FG1-MW5d	7/9/2012	14:38	16.50	59.13		
FG1-MW5d	8/15/2012	16:10	16.70	58.93		
FG1-MW5d	9/17/2012	13:40	16.53	59.10		
FG1-MW5d	10/20/2012	11:11	14.65	60.98		
FG1-MW5d	12/11/2012	12:51	15.66	59.97		
FG1-MW5d	12/28/2012	12:01	13.87	61.76		
FG1-MW5d	1/16/2013	10:49	15.59	60.04		
FG1-MW5d	2/17/2013	11:58	15.75	59.88		
FG1-MW5d	3/21/2013	11:36	16.32	59.31		
FG1-MW5d	4/16/2013	14:11	15.89	59.74		
FG1-MW5d	5/30/2013	10:50	16.33	59.30		
FG1-MW5d	6/17/2013	12:45	16.85	58.78		
FG1-MW5d	7/16/2013	13:14	17.30	58.33		
FG1-MW5d	8/22/2013	17:06	17.52	58.11		
FG1-MW5d	9/9/2013	14:11	16.58	59.05		
FG1-MW5d	10/7/2013	16:29	16.05	59.58		
FG1-MW5d	11/14/2013	9:20	15.95	59.68		
FG1-MW5d	12/17/2013	15:20	16.15	59.48		
FG1-MW5d	1/13/2014	14:56	16.22	59.41		
FG1-MW5d	2/20/2014	8:52	16.54	59.09		
FG1-MW5d	3/16/2014	15:23	16.80	58.83		
FG1-MW5d	4/19/2014	17:38	17.00	58.63		
FG1-MW5d	5/21/2014	12:08	17.40	58.23		
FG1-MW5d	6/19/2014	15:18	17.48	58.15		
FG1-MW5d	7/17/2014	13:48	17.70	57.93		
FG1-MW5d	8/22/2014	12:24	17.69	57.94		
FG1-MW5d	9/22/2014	14:54	17.39	58.24		
FG1-MW5d	10/14/2014	15:49	17.29	58.34		
FG1-MW5d	11/7/2014	16:18	15.06	60.57		
FG1-MW5d	12/15/2014	10:47	15.57	60.06		
FG1-MW5d	1/12/2015	17:19	16.00	59.63		
FG1-MW5d	2/10/2015	16:15	16.37	59.26		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
FG1-MW5d	3/13/2015	16:17	17.09	58.54		
FG1-MW5d	4/17/2015	14:09	17.41	58.22		
FG1-MW5d	5/14/2015	8:22	17.54	58.09		
FG1-MW5d	6/4/2015	12:50	17.82	57.81		
FG1-MW5d	7/22/2015	9:34	17.94	57.69		
FG1-MW5d	8/19/2015	8:18	18.05	57.58		
FG1-MW5d	9/14/2015	14:28	17.54	58.09		
FG1-MW5d	10/16/2015	14:15	17.23	58.40		
FG1-MW5d	11/18/2015	7:51	14.79	60.84		
FG1-MW5d	12/23/2015	16:08	13.99	61.64		
FG1-MW5d	1/15/2016	16:39	14.86	60.77		
FG1-MW5d	2/22/2016	15:42	15.53	60.10		
FG1-MW5d	3/18/2016		N/M			
FG1-MW5d	4/18/2016	16:31	16.61	59.02		
FG1-MW5d	5/19/2016	11:27	17.18	58.45		
FG1-MW5d	6/16/2016	14:07	17.87	57.76		
FG1-MW5d	7/21/2016	15:41	18.25	57.38		
FG1-MW5d	8/19/2016	12:13	18.28	57.35		
FG1-MW5d	9/15/2016	15:26	17.35	58.28		
FG1-MW5d	10/14/2016	16:09	16.62	59.01		
FG1-MW5d	12/1/2016	11:16	15.00	60.63		
FG1-MW5d	12/12/2016	15:44	14.83	60.80		
FG1-MW5d	1/25/2017	15:58	6.35	69.28		
FG1-MW5d	2/1/2017		N/M			
FG1-MW5d	3/15/2017	8:30	N/M			
FG1-MW5d	4/20/2017	15:12	4.37	71.26		
FG1-MW5d	5/19/2017	9:17	7.86	67.77		
FG1-MW5d	6/23/2017	12:44	8.18	67.45		
FG1-MW5d	7/14/2017	14:35	13.14	62.49		
FG1-MW5d	8/28/2017	9:18	14.64	60.99		
FG1-MW5d	9/22/2017	16:12	12.05	63.58		
FG1-MW5d	10/19/2017	15:37	10.71	64.92		
FG1-MW5d	11/21/2017	16:39	15.03	60.60		
FG1-MW5d	12/21/2017	16:00	15.56	60.07		
FG1-MW5d	1/23/2018	15:58	15.60	60.03		
FG1-MW5d	2/22/2018	15:57	15.91	59.72		
FG1-MW5d	3/1/2018		N/M			
FG1-MW5d	4/24/2018	14:02	11.78	63.85		
FG1-MW5d	5/10/2018	15:16	13.46	62.17		
FG1-MW5d	6/13/2018	16:08	16.39	59.24		
FG1-MW5d	7/16/2018	13:47	16.77	58.86		
FG1-MW5d	8/23/2018	12:10	16.99	58.64		
FG1-MW5d	9/16/2018	17:52	13.39	62.24		
FG1-MW5d	10/25/2018	15:18	15.35	60.28		
FG1-MW5d	11/14/2018	9:05	15.80	59.83		
FG1-MW5d	12/15/2018	11:33	16.00	59.63		
FG1-MW5d	1/25/2019	14:12	16.29	59.34		
FG1-MW5d	2/25/2019	8:46	4.02	71.61		
FG1-MW5d	3/16/2019	16:28	10.52	65.11		
FG1-MW5d	4/15/2019	13:48	10.25	65.38		
FG1-MW5d	5/24/2019	8:44	4.00	71.63		
FG1-MW5d	6/20/2019	15:46	11.26	64.37		
FG1-MW5d	7/17/2019	12:00	15.15	60.48		
FG1-MW5d	8/16/2019	13:20	15.37	60.26		
FG1-MW5d	9/26/2019	15:26	8.30	67.33		
FG1-MW5d	10/25/2019	11:22	11.04	64.59		
FG1-MW5d	11/13/2019	9:58	15.56	60.07		
FG1-MW5d	12/14/2019	13:05	15.52	60.11		
FG1-MW6s	1/30/2012	13:23	19.52	60.55	<|0.05|	0
FG1-MW6s	2/12/2012	13:43	19.32	60.75	<|0.05|	0
FG1-MW6s	3/5/2012	13:09	19.00	61.07	<|0.05|	0
FG1-MW6s	4/5/2012	15:15	19.57	60.50	<|0.05|	0
FG1-MW6s	5/14/2012	12:47	17.88	62.19	<|0.05|	0
FG1-MW6s	6/18/2012	12:53	18.76	61.31	<|0.05|	0
FG1-MW6s	7/9/2012	14:35	16.18	63.89	<|0.05|	0
FG1-MW6s	8/15/2012	16:13	13.97	66.10	0.08	0.00
FG1-MW6s	9/17/2012	13:36	19.74	60.33	<|0.05|	0
FG1-MW6s	10/20/2012	11:09	18.16	61.91	<|0.05|	0
FG1-MW6s	12/11/2012	12:54	19.48	60.59	<|0.05|	0
FG1-MW6s	12/28/2012	12:05	19.25	60.82	<|0.05|	0
FG1-MW6s	1/16/2013	10:53	19.34	60.73	<|0.05|	0
FG1-MW6s	2/17/2013	12:02	18.91	61.16	<|0.05|	0
FG1-MW6s	3/21/2013	11:31	19.68	60.39	<|0.05|	0
FG1-MW6s	4/16/2013	14:08	19.04	61.03	0.10	0.01
FG1-MW6s	5/30/2013	10:46	18.08	61.99	0.12	0.01
FG1-MW6s	6/17/2013	12:38	16.47	63.60	0.08	0.00
FG1-MW6s	7/16/2013	13:08	17.82	62.25	<|0.05|	0
FG1-MW6s	8/22/2013	17:01	19.95	60.12	<|0.05|	0
FG1-MW6s	9/9/2013	14:06	17.04	63.03	0.13	0.01
FG1-MW6s	10/7/2013	16:24	16.52	63.55	<|0.05|	0
FG1-MW6s	11/14/2013	9:27	19.13	60.94	<|0.05|	0
FG1-MW6s	12/17/2013	15:16	19.95	60.12	<|0.05|	0
FG1-MW6s	1/13/2014	14:53	19.53	60.54	<|0.05|	0
FG1-MW6s	2/20/2014	8:48	20.18	59.89	<|0.05|	0
FG1-MW6s	3/16/2014	15:18	20.47	59.60	<|0.05|	0
FG1-MW6s	4/19/2014	17:34	19.60	60.47	<|0.05|	0
FG1-MW6s	5/21/2014	12:04	18.89	61.18	<|0.05|	0
FG1-MW6s	6/19/2014	15:13	17.88	62.19	0.11	0.01
FG1-MW6s	7/17/2014	13:43	18.95	61.12	<|0.05|	0
FG1-MW6s	8/22/2014	12:20	19.65	60.42	<|0.05|	0
FG1-MW6s	9/22/2014	14:49	20.79	59.28	<|0.05|	0
FG1-MW6s	10/14/2014	15:45	19.01	61.06	<|0.05|	0
FG1-MW6s	11/7/2014	16:13	18.68	61.39	<|0.05|	0
FG1-MW6s	12/15/2014	10:39	19.38	60.69	<|0.05|	0
FG1-MW6s	1/12/2015	17:25	19.57	60.50	<|0.05|	0
FG1-MW6s	2/10/2015	16:10	19.99	60.08	<|0.05|	0
FG1-MW6s	3/13/2015	16:13	19.68	60.39	-0.25	-0.01
FG1-MW6s	4/17/2015	14:04	20.58	59.49	<|0.05|	0
FG1-MW6s	5/14/2015	8:18	20.45	59.62	<|0.05|	0
FG1-MW6s	6/4/2015	12:44	19.45	60.62	<|0.05|	0
FG1-MW6s	7/22/2015	9:43	18.89	61.18	<|0.05|	0
FG1-MW6s	8/19/2015	8:23	21.54	58.53	<|0.05|	0
FG1-MW6s	9/14/2015	14:31	21.88	58.19	<|0.05|	0
FG1-MW6s	10/16/2015	14:09	21.66	58.41	<|0.05|	0
FG1-MW6s	11/18/2015	8:15	19.30	60.77	<|0.05|	0
FG1-MW6s	12/23/2015	16:03	19.47	60.60	0.05	0.00
FG1-MW6s	1/15/2016	16:26	19.06	61.01	<|0.05|	0
FG1-MW6s	2/22/2016	15:23	19.50	60.57	<|0.05|	0
FG1-MW6s	3/18/2016		N/M			
FG1-MW6s	4/18/2016	16:22	20.18	59.89	<|0.05|	0
FG1-MW6s	5/19/2016	11:19	20.92	59.15	<|0.05|	0
FG1-MW6s	6/16/2016	13:53	21.43	58.64	<|0.05|	0
FG1-MW6s	7/21/2016	15:53	22.30	57.77	<|0.05|	0
FG1-MW6s	8/19/2016	12:07	22.39	57.68	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
FG1-MW6s	9/15/2016	15:17	21.88	58.19	<|0.05|	0
FG1-MW6s	10/14/2016	15:56	21.30	58.77	<|0.05|	0
FG1-MW6s	12/1/2016	11:13	19.33	60.74	<|0.05|	0
FG1-MW6s	12/12/2016	15:40	19.32	60.75	<|0.05|	0
FG1-MW6s	1/25/2017	15:53	14.80	65.27	<|0.05|	0
FG1-MW6s	2/1/2017		N/M			
FG1-MW6s	3/15/2017	8:40	7.33	72.74	<|0.05|	0
FG1-MW6s	4/20/2017	15:07	8.90	71.17	<|0.05|	0
FG1-MW6s	5/19/2017	9:12	9.57	70.50	<|0.05|	0
FG1-MW6s	6/23/2017	12:49	13.08	66.99	<|0.05|	0
FG1-MW6s	7/14/2017	14:30	14.47	65.60	<|0.05|	0
FG1-MW6s	8/28/2017	9:12	18.43	61.64	<|0.05|	0
FG1-MW6s	9/22/2017	16:08	16.94	63.13	<|0.05|	0
FG1-MW6s	10/19/2017	15:33	16.37	63.70	<|0.05|	0
FG1-MW6s	11/21/2017	16:35	18.19	61.88	<|0.05|	0
FG1-MW6s	12/21/2017	15:56	19.23	60.84	<|0.05|	0
FG1-MW6s	1/23/2018	15:53	19.58	60.49	<|0.05|	0
FG1-MW6s	2/22/2018	15:47	19.86	60.21	<|0.05|	0
FG1-MW6s	3/1/2018		N/M			
FG1-MW6s	4/24/2018	13:56	15.29	64.78	<|0.05|	0
FG1-MW6s	5/10/2018	15:11	16.79	63.28	<|0.05|	0
FG1-MW6s	6/13/2018	16:02	19.18	60.89	<|0.05|	0
FG1-MW6s	7/16/2018	13:43	20.33	59.74	<|0.05|	0
FG1-MW6s	8/23/2018	12:05	20.92	59.15	0.11	0.01
FG1-MW6s	9/16/2018	17:50	20.29	59.78	<|0.05|	0
FG1-MW6s	10/25/2018	15:12	19.43	60.64	<|0.05|	0
FG1-MW6s	11/14/2018	9:01	19.86	60.21	0.05	0.00
FG1-MW6s	12/15/2018	11:28	20.07	60.00	<|0.05|	0
FG1-MW6s	1/25/2019	13:57	20.24	59.83	<|0.05|	0
FG1-MW6s	2/25/2019	8:49	14.26	65.81	<|0.05|	0
FG1-MW6s	3/16/2019	16:25	14.21	65.86	<|0.05|	0
FG1-MW6s	4/15/2019	13:45	13.94	66.13	<|0.05|	0
FG1-MW6s	5/24/2019	8:32	13.14	66.93	<|0.05|	0
FG1-MW6s	6/20/2019	15:41	13.33	66.74	<|0.05|	0
FG1-MW6s	7/17/2019	11:52	17.53	62.54	<|0.05|	0
FG1-MW6s	8/16/2019	13:30	19.32	60.75	<|0.05|	0
FG1-MW6s	9/26/2019	15:22	16.40	63.67	<|0.05|	0
FG1-MW6s	10/25/2019	11:16	17.15	62.92	<|0.05|	0
FG1-MW6s	11/13/2019	9:55	18.42	61.65	<|0.05|	0
FG1-MW6s	12/14/2019	12:57	19.29	60.78	<|0.05|	0
FG1-MW6d	1/30/2012	13:25	19.31	60.55		
FG1-MW6d	2/12/2012	13:44	19.10	60.76		
FG1-MW6d	3/5/2012	13:08	18.78	61.08		
FG1-MW6d	4/5/2012	15:17	19.34	60.52		
FG1-MW6d	5/14/2012	12:47	17.68	62.18		
FG1-MW6d	6/18/2012	12:52	18.53	61.33		
FG1-MW6d	7/9/2012	14:34	16.00	63.86		
FG1-MW6d	8/15/2012	16:13	13.84	66.02		
FG1-MW6d	9/17/2012	13:36	19.52	60.34		
FG1-MW6d	10/20/2012	11:09	17.94	61.92		
FG1-MW6d	12/11/2012	12:54	19.27	60.59		
FG1-MW6d	12/28/2012	12:06	19.06	60.80		
FG1-MW6d	1/16/2013	10:54	19.14	60.72		
FG1-MW6d	2/17/2013	12:03	18.72	61.14		
FG1-MW6d	3/21/2013	11:31	19.48	60.38		
FG1-MW6d	4/16/2013	14:08	18.93	60.93		
FG1-MW6d	5/30/2013	10:46	17.99	61.87		
FG1-MW6d	6/17/2013	12:39	16.34	63.52		
FG1-MW6d	7/16/2013	13:08	17.61	62.25		
FG1-MW6d	8/22/2013	17:01	19.73	60.13		
FG1-MW6d	9/9/2013	14:06	16.96	62.90		
FG1-MW6d	10/7/2013	16:24	16.30	63.56		
FG1-MW6d	11/14/2013	9:27	18.93	60.93		
FG1-MW6d	12/17/2013	15:16	19.74	60.12		
FG1-MW6d	1/13/2014	14:53	19.32	60.54		
FG1-MW6d	2/20/2014	8:48	19.99	59.87		
FG1-MW6d	3/16/2014	15:18	20.25	59.61		
FG1-MW6d	4/19/2014	17:34	19.40	60.46		
FG1-MW6d	5/21/2014	12:04	18.68	61.18		
FG1-MW6d	6/19/2014	15:13	17.78	62.08		
FG1-MW6d	7/17/2014	13:43	18.75	61.11		
FG1-MW6d	8/22/2014	12:20	19.46	60.40		
FG1-MW6d	9/22/2014	14:49	20.58	59.28		
FG1-MW6d	10/14/2014	15:45	18.82	61.04		
FG1-MW6d	11/7/2014	16:13	18.46	61.40		
FG1-MW6d	12/15/2014	10:39	19.21	60.65		
FG1-MW6d	1/12/2015	17:25	19.36	60.50		
FG1-MW6d	2/10/2015	16:10	19.79	60.07		
FG1-MW6d	3/13/2015	16:13	19.22	60.64		
FG1-MW6d	4/17/2015	14:04	20.39	59.47		
FG1-MW6d	5/14/2015	8:18	20.21	59.65		
FG1-MW6d	6/4/2015	12:44	19.27	60.59		
FG1-MW6d	7/22/2015	9:43	18.70	61.16		
FG1-MW6d	8/19/2015	8:23	21.35	58.51		
FG1-MW6d	9/14/2015	14:32	21.68	58.18		
FG1-MW6d	10/16/2015	14:10	21.48	58.38		
FG1-MW6d	11/18/2015	8:16	19.13	60.73		
FG1-MW6d	12/23/2015	16:04	19.31	60.55		
FG1-MW6d	1/15/2016	16:27	18.88	60.98		
FG1-MW6d	2/22/2016	15:24	19.29	60.57		
FG1-MW6d	3/18/2016		N/M			
FG1-MW6d	4/18/2016	16:22	20.00	59.86		
FG1-MW6d	5/19/2016	11:19	20.69	59.17		
FG1-MW6d	6/16/2016	13:54	21.23	58.63		
FG1-MW6d	7/21/2016	15:53	22.10	57.76		
FG1-MW6d	8/19/2016	12:07	22.18	57.68		
FG1-MW6d	9/15/2016	15:18	21.69	58.17		
FG1-MW6d	10/14/2016	15:56	21.12	58.74		
FG1-MW6d	12/1/2016	11:14	19.13	60.73		
FG1-MW6d	12/12/2016	15:41	19.14	60.72		
FG1-MW6d	1/25/2017	15:54	14.60	65.26		
FG1-MW6d	2/1/2017		N/M			
FG1-MW6d	3/15/2017	8:40	7.14	72.72		
FG1-MW6d	4/20/2017	15:08	8.70	71.16		
FG1-MW6d	5/19/2017	9:13	9.40	70.46		
FG1-MW6d	6/23/2017	12:49	12.89	66.97		
FG1-MW6d	7/14/2017	14:31	14.27	65.59		
FG1-MW6d	8/28/2017	9:12	18.24	61.62		
FG1-MW6d	9/22/2017	16:09	16.75	63.11		
FG1-MW6d	10/19/2017	15:34	16.19	63.67		
FG1-MW6d	11/21/2017	16:36	18.00	61.86		
FG1-MW6d	12/21/2017	15:57	19.03	60.83		
FG1-MW6d	1/23/2018	15:54	19.38	60.48		
FG1-MW6d	2/22/2018	15:48	19.65	60.21		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
FG1-MW6d	3/1/2018		N/M			
FG1-MW6d	4/24/2018	13:56	15.10	64.76		
FG1-MW6d	5/10/2018	15:12	16.57	63.29		
FG1-MW6d	6/13/2018	16:03	18.96	60.90		
FG1-MW6d	7/16/2018	13:43	20.14	59.72		
FG1-MW6d	8/23/2018	12:06	20.82	59.04		
FG1-MW6d	9/16/2018	17:50	20.09	59.77		
FG1-MW6d	10/25/2018	15:13	19.23	60.63		
FG1-MW6d	11/14/2018	9:02	19.70	60.16		
FG1-MW6d	12/15/2018	11:29	19.86	60.00		
FG1-MW6d	1/25/2019	13:58	20.06	59.80		
FG1-MW6d	2/25/2019	8:50	14.03	65.83		
FG1-MW6d	3/16/2019	16:25	14.03	65.83		
FG1-MW6d	4/15/2019	13:45	13.75	66.11		
FG1-MW6d	5/24/2019	8:32	12.90	66.96		
FG1-MW6d	6/20/2019	15:42	13.16	66.70		
FG1-MW6d	7/17/2019	11:52	17.35	62.51		
FG1-MW6d	8/16/2019	13:30	19.10	60.76		
FG1-MW6d	9/26/2019	15:22	16.19	63.67		
FG1-MW6d	10/25/2019	11:16	16.94	62.92		
FG1-MW6d	11/13/2019	9:55	18.22	61.64		
FG1-MW6d	12/14/2019	12:58	19.09	60.77		
FG1-MW7s	1/30/2012	12:55	18.69	60.95	<|0.05|	0
FG1-MW7s	2/12/2012	13:23	18.82	60.82	<|0.05|	0
FG1-MW7s	3/5/2012	13:06	17.42	62.22	<|0.05|	0
FG1-MW7s	4/5/2012	15:10	18.70	60.94	<|0.05|	0
FG1-MW7s	5/14/2012	12:33	17.49	62.15	<|0.05|	0
FG1-MW7s	6/18/2012	12:50	17.65	61.99	<|0.05|	0
FG1-MW7s	7/9/2012	14:27	15.11	64.53	0.07	0.00
FG1-MW7s	8/15/2012	16:16	13.83	65.81	0.08	0.00
FG1-MW7s	9/17/2012	13:27	18.52	61.12	<|0.05|	0
FG1-MW7s	10/20/2012	11:02	17.23	62.41	<|0.05|	0
FG1-MW7s	12/11/2012	13:00	18.83	60.81	<|0.05|	0
FG1-MW7s	12/28/2012	12:11	18.67	60.97	<|0.05|	0
FG1-MW7s	1/16/2013	10:56	18.65	60.99	<|0.05|	0
FG1-MW7s	2/17/2013	11:34	18.01	61.63	<|0.05|	0
FG1-MW7s	3/21/2013	11:23	18.59	61.05	<|0.05|	0
FG1-MW7s	4/16/2013	14:00	18.31	61.33	<|0.05|	0
FG1-MW7s	5/30/2013	10:42	17.01	62.63	0.12	0.01
FG1-MW7s	6/17/2013	12:33	15.62	64.02	0.11	0.01
FG1-MW7s	7/16/2013	13:04	16.21	63.43	<|0.05|	0
FG1-MW7s	8/22/2013	16:55	18.64	61.00	<|0.05|	0
FG1-MW7s	9/9/2013	13:57	16.63	63.01	0.06	0.00
FG1-MW7s	10/7/2013	16:21	16.02	63.62	<|0.05|	0
FG1-MW7s	11/14/2013	9:35	18.20	61.44	<|0.05|	0
FG1-MW7s	12/17/2013	15:12	19.30	60.34	<|0.05|	0
FG1-MW7s	1/13/2014	14:49	18.70	60.94	<|0.05|	0
FG1-MW7s	2/20/2014	8:44	19.59	60.05	<|0.05|	0
FG1-MW7s	3/16/2014	15:15	19.73	59.91	<|0.05|	0
FG1-MW7s	4/19/2014	17:30	18.82	60.82	0.20	0.01
FG1-MW7s	5/21/2014	11:59	17.79	61.85	<|0.05|	0
FG1-MW7s	6/19/2014	15:10	16.63	63.01	<|0.05|	0
FG1-MW7s	7/17/2014	13:40	17.63	62.01	<|0.05|	0
FG1-MW7s	8/22/2014	12:16	17.73	61.91	<|0.05|	0
FG1-MW7s	9/22/2014	14:45	19.83	59.81	<|0.05|	0
FG1-MW7s	10/14/2014	15:40	18.32	61.32	<|0.05|	0
FG1-MW7s	11/7/2014	16:09	18.30	61.34	<|0.05|	0
FG1-MW7s	12/15/2014	10:32	18.92	60.72	<|0.05|	0
FG1-MW7s	1/12/2015	17:30	18.85	60.79	<|0.05|	0
FG1-MW7s	2/10/2015	16:04	19.36	60.28	0.05	0.00
FG1-MW7s	3/13/2015	16:10	19.00	60.64	-0.14	-0.01
FG1-MW7s	4/17/2015	14:00	19.73	59.91	<|0.05|	0
FG1-MW7s	5/14/2015	8:14	19.47	60.17	<|0.05|	0
FG1-MW7s	6/4/2015	12:35	18.63	61.01	<|0.05|	0
FG1-MW7s	7/22/2015	9:47	17.79	61.85	0.06	0.00
FG1-MW7s	8/19/2015	8:29	20.74	58.90	<|0.05|	0
FG1-MW7s	9/14/2015	14:36	21.50	58.14	<|0.05|	0
FG1-MW7s	10/16/2015	14:05	21.45	58.19	<|0.05|	0
FG1-MW7s	11/18/2015	8:11	19.38	60.26	<|0.05|	0
FG1-MW7s	12/23/2015	15:54	19.33	60.31	<|0.05|	0
FG1-MW7s	1/15/2016	16:30	19.03	60.61	<|0.05|	0
FG1-MW7s	2/22/2016	15:27	19.16	60.48	<|0.05|	0
FG1-MW7s	3/18/2016	15:22	18.96	60.68	0.17	0.01
FG1-MW7s	4/18/2016	16:12	19.60	60.04	<|0.05|	0
FG1-MW7s	5/19/2016	11:08	20.24	59.40	<|0.05|	0
FG1-MW7s	6/16/2016	13:57	20.76	58.88	<|0.05|	0
FG1-MW7s	7/21/2016	15:50	21.83	57.81	<|0.05|	0
FG1-MW7s	8/19/2016	12:04	22.00	57.64	<|0.05|	0
FG1-MW7s	9/15/2016	15:19	21.58	58.06	<|0.05|	0
FG1-MW7s	10/14/2016	15:59	21.04	58.60	<|0.05|	0
FG1-MW7s	12/1/2016	11:10	19.09	60.55	<|0.05|	0
FG1-MW7s	12/12/2016	15:37	19.08	60.56	<|0.05|	0
FG1-MW7s	1/25/2017	15:50	16.60	63.04	<|0.05|	0
FG1-MW7s	2/1/2017		N/M			
FG1-MW7s	3/15/2017	8:37	7.60	72.04	<|0.05|	0
FG1-MW7s	4/20/2017	15:05	8.65	70.99	<|0.05|	0
FG1-MW7s	5/19/2017	9:08	9.06	70.58	<|0.05|	0
FG1-MW7s	6/23/2017	12:53	12.74	66.90	<|0.05|	0
FG1-MW7s	7/14/2017	14:27	13.59	66.05	<|0.05|	0
FG1-MW7s	8/28/2017	9:09	17.50	62.14	<|0.05|	0
FG1-MW7s	9/22/2017	16:05	16.59	63.05	0.28	0.01
FG1-MW7s	10/19/2017	15:30	16.30	63.34	<|0.05|	0
FG1-MW7s	11/21/2017	16:32	17.33	62.31	<|0.05|	0
FG1-MW7s	12/21/2017	15:54	18.50	61.14	<|0.05|	0
FG1-MW7s	1/23/2018	15:51	19.01	60.63	<|0.05|	0
FG1-MW7s	2/22/2018	15:42	19.28	60.36	<|0.05|	0
FG1-MW7s	3/1/2018		N/M			
FG1-MW7s	4/24/2018	13:48	15.47	64.17	<|0.05|	0
FG1-MW7s	5/10/2018	15:08	16.10	63.54	<|0.05|	0
FG1-MW7s	6/13/2018	16:00	18.11	61.53	<|0.05|	0
FG1-MW7s	7/16/2018	13:40	19.50	60.14	<|0.05|	0
FG1-MW7s	8/23/2018	12:02	20.40	59.24	<|0.05|	0
FG1-MW7s	9/16/2018	17:45	20.09	59.55	<|0.05|	0
FG1-MW7s	10/25/2018	15:09	19.15	60.49	<|0.05|	0
FG1-MW7s	11/14/2018	8:58	19.46	60.18	<|0.05|	0
FG1-MW7s	12/15/2018	11:26	19.61	60.03	<|0.05|	0
FG1-MW7s	1/25/2019	13:54	19.79	59.85	<|0.05|	0
FG1-MW7s	2/25/2019	8:53	16.68	62.96	<|0.05|	0
FG1-MW7s	3/16/2019	16:22	14.15	65.49	<|0.05|	0
FG1-MW7s	4/15/2019	13:37	13.52	66.12	<|0.05|	0
FG1-MW7s	5/24/2019	8:35	14.10	65.54	-0.08	-0.00
FG1-MW7s	6/20/2019	15:38	12.98	66.66	<|0.05|	0
FG1-MW7s	7/17/2019	11:45	16.32	63.32	<|0.05|	0
FG1-MW7s	8/16/2019	13:33	18.44	61.20	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
FG1-MW7s	9/26/2019	15:12	16.95	62.69	-0.05	-0.00
FG1-MW7s	10/25/2019	11:08	16.95	62.69	<|0.05|	0
FG1-MW7s	11/13/2019	9:50	17.58	62.06	<|0.05|	0
FG1-MW7s	12/14/2019	12:54	18.67	60.97	<|0.05|	0
FG1-MW7d	1/30/2012	12:57	18.41	60.95		
FG1-MW7d	2/12/2012	13:24	18.55	60.81		
FG1-MW7d	3/5/2012	13:05	17.12	62.24		
FG1-MW7d	4/5/2012	15:11	18.45	60.91		
FG1-MW7d	5/14/2012	12:34	17.20	62.16		
FG1-MW7d	6/18/2012	12:49	17.35	62.01		
FG1-MW7d	7/9/2012	14:26	14.90	64.46		
FG1-MW7d	8/15/2012	16:17	13.63	65.73		
FG1-MW7d	9/17/2012	13:27	18.25	61.11		
FG1-MW7d	10/20/2012	11:02	17.00	62.36		
FG1-MW7d	12/11/2012	13:00	18.54	60.82		
FG1-MW7d	12/28/2012	12:12	18.39	60.97		
FG1-MW7d	1/16/2013	10:57	18.37	60.99		
FG1-MW7d	2/17/2013	11:35	17.73	61.63		
FG1-MW7d	3/21/2013	11:23	18.32	61.04		
FG1-MW7d	4/16/2013	14:00	18.02	61.34		
FG1-MW7d	5/30/2013	10:42	16.85	62.51		
FG1-MW7d	6/17/2013	12:34	15.45	63.91		
FG1-MW7d	7/16/2013	13:04	15.95	63.41		
FG1-MW7d	8/22/2013	16:55	18.38	60.98		
FG1-MW7d	9/9/2013	13:57	16.41	62.95		
FG1-MW7d	10/7/2013	16:21	15.76	63.60		
FG1-MW7d	11/14/2013	9:35	17.93	61.43		
FG1-MW7d	12/17/2013	15:12	19.04	60.32		
FG1-MW7d	1/13/2014	14:49	18.43	60.93		
FG1-MW7d	2/20/2014	8:44	19.30	60.06		
FG1-MW7d	3/16/2014	15:15	19.47	59.89		
FG1-MW7d	4/19/2014	17:30	18.74	60.62		
FG1-MW7d	5/21/2014	11:59	17.54	61.82		
FG1-MW7d	6/19/2014	15:10	16.40	62.96		
FG1-MW7d	7/17/2014	13:40	17.37	61.99		
FG1-MW7d	8/22/2014	12:16	17.46	61.90		
FG1-MW7d	9/22/2014	14:45	19.56	59.80		
FG1-MW7d	10/14/2014	15:40	18.06	61.30		
FG1-MW7d	11/7/2014	16:09	18.02	61.34		
FG1-MW7d	12/15/2014	10:32	18.64	60.72		
FG1-MW7d	1/12/2015	17:30	18.57	60.79		
FG1-MW7d	2/10/2015	16:04	19.13	60.23		
FG1-MW7d	3/13/2015	16:10	18.58	60.78		
FG1-MW7d	4/17/2015	14:00	19.48	59.88		
FG1-MW7d	5/14/2015	8:14	19.20	60.16		
FG1-MW7d	6/4/2015	12:35	18.40	60.96		
FG1-MW7d	7/22/2015	9:47	17.57	61.79		
FG1-MW7d	8/19/2015	8:29	20.50	58.86		
FG1-MW7d	9/14/2015	14:37	21.22	58.14		
FG1-MW7d	10/16/2015	14:06	21.14	58.22		
FG1-MW7d	11/18/2015	8:12	19.10	60.26		
FG1-MW7d	12/23/2015	15:55	19.07	60.29		
FG1-MW7d	1/15/2016	16:31	18.73	60.63		
FG1-MW7d	2/22/2016	15:28	18.84	60.52		
FG1-MW7d	3/18/2016	15:22	18.85	60.51		
FG1-MW7d	4/18/2016	16:12	19.32	60.04		
FG1-MW7d	5/19/2016	11:08	19.97	59.39		
FG1-MW7d	6/16/2016	13:58	20.50	58.86		
FG1-MW7d	7/21/2016	15:50	21.59	57.77		
FG1-MW7d	8/19/2016	12:04	21.70	57.66		
FG1-MW7d	9/15/2016	15:20	21.31	58.05		
FG1-MW7d	10/14/2016	15:59	20.74	58.62		
FG1-MW7d	12/1/2016	11:11	18.81	60.55		
FG1-MW7d	12/12/2016	15:38	18.81	60.55		
FG1-MW7d	1/25/2017	15:51	16.28	63.08		
FG1-MW7d	2/1/2017		N/M			
FG1-MW7d	3/15/2017	8:37	7.32	72.04		
FG1-MW7d	4/20/2017	15:06	8.35	71.01		
FG1-MW7d	5/19/2017	9:09	8.80	70.56		
FG1-MW7d	6/23/2017	12:53	12.43	66.93		
FG1-MW7d	7/14/2017	14:28	13.35	66.01		
FG1-MW7d	8/28/2017	9:09	17.22	62.14		
FG1-MW7d	9/22/2017	16:06	16.59	62.77		
FG1-MW7d	10/19/2017	15:31	16.00	63.36		
FG1-MW7d	11/21/2017	16:33	17.05	62.31		
FG1-MW7d	12/21/2017	15:55	18.25	61.11		
FG1-MW7d	1/23/2018	15:52	18.72	60.64		
FG1-MW7d	2/22/2018	15:43	19.01	60.35		
FG1-MW7d	3/1/2018		N/M			
FG1-MW7d	4/24/2018	13:48	15.18	64.18		
FG1-MW7d	5/10/2018	15:09	15.84	63.52		
FG1-MW7d	6/13/2018	16:01	17.87	61.49		
FG1-MW7d	7/16/2018	13:41	19.22	60.14		
FG1-MW7d	8/23/2018	12:02	20.13	59.23		
FG1-MW7d	9/16/2018	17:45	19.82	59.54		
FG1-MW7d	10/25/2018	15:10	18.87	60.49		
FG1-MW7d	11/14/2018	8:59	19.20	60.16		
FG1-MW7d	12/15/2018	11:27	19.35	60.01		
FG1-MW7d	1/25/2019	13:55	19.51	59.85		
FG1-MW7d	2/25/2019	8:54	16.35	63.01		
FG1-MW7d	3/16/2019	16:23	13.89	65.47		
FG1-MW7d	4/15/2019	13:37	13.24	66.12		
FG1-MW7d	5/24/2019	8:35	13.74	65.62		
FG1-MW7d	6/20/2019	15:39	12.70	66.66		
FG1-MW7d	7/17/2019	11:45	16.05	63.31		
FG1-MW7d	8/16/2019	13:33	18.15	61.21		
FG1-MW7d	9/26/2019	15:12	16.62	62.74		
FG1-MW7d	10/25/2019	11:08	16.63	62.73		
FG1-MW7d	11/13/2019	9:50	17.28	62.08		
FG1-MW7d	12/14/2019	12:55	18.40	60.96		
FG1-MW8s	1/30/2012	13:05	18.29	60.53	<|0.05|	0
FG1-MW8s	2/12/2012	14:36	18.45	60.37	<|0.05|	0
FG1-MW8s	3/5/2012	13:20	17.80	61.02	<|0.05|	0
FG1-MW8s	4/5/2012	15:05	18.30	60.52	<|0.05|	0
FG1-MW8s	5/14/2012	13:21	16.28	62.54	<|0.05|	0
FG1-MW8s	6/18/2012	13:02	18.48	60.34	<|0.05|	0
FG1-MW8s	7/9/2012	14:30	18.77	60.05	<|0.05|	0
FG1-MW8s	8/15/2012	16:05	18.50	60.32	<|0.05|	0
FG1-MW8s	9/17/2012	13:30	18.83	59.99	<|0.05|	0
FG1-MW8s	10/20/2012	11:06	16.70	62.12	<|0.05|	0
FG1-MW8s	12/11/2012	12:57	18.01	60.81	<|0.05|	0
FG1-MW8s	12/28/2012	12:16	17.02	61.80	<|0.05|	0
FG1-MW8s	1/16/2013	11:02	17.88	60.94	<|0.05|	0
FG1-MW8s	2/17/2013	11:38	17.43	61.39	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
FG1-MW8s	3/21/2013	11:26	18.59	60.23	<|0.05|	0
FG1-MW8s	4/16/2013	14:16	18.49	60.33	<|0.05|	0
FG1-MW8s	5/30/2013	10:56	18.06	60.76	0.40	0.02
FG1-MW8s	6/17/2013	12:50	18.94	59.88	<|0.05|	0
FG1-MW8s	7/16/2013	13:23	19.20	59.62	<|0.05|	0
FG1-MW8s	8/22/2013	16:58	19.60	59.22	<|0.05|	0
FG1-MW8s	9/9/2013	14:02	18.56	60.26	<|0.05|	0
FG1-MW8s	10/7/2013	16:35	17.93	60.89	<|0.05|	0
FG1-MW8s	11/14/2013	9:31	18.13	60.69	<|0.05|	0
FG1-MW8s	12/17/2013	15:27	18.50	60.32	<|0.05|	0
FG1-MW8s	1/13/2014	15:09	18.56	60.26	<|0.05|	0
FG1-MW8s	2/20/2014	8:57	18.86	59.96	<|0.05|	0
FG1-MW8s	3/16/2014	15:28	19.18	59.64	<|0.05|	0
FG1-MW8s	4/19/2014	17:43	18.29	60.53	<|0.05|	0
FG1-MW8s	5/21/2014	12:16	19.22	59.60	0.19	0.01
FG1-MW8s	6/19/2014	15:25	19.19	59.63	<|0.05|	0
FG1-MW8s	7/17/2014	13:54	19.30	59.52	<|0.05|	0
FG1-MW8s	8/22/2014	12:33	19.33	59.49	<|0.05|	0
FG1-MW8s	9/22/2014	15:01	19.64	59.18	<|0.05|	0
FG1-MW8s	10/14/2014	15:58	19.55	59.27	<|0.05|	0
FG1-MW8s	11/7/2014	16:24	17.26	61.56	<|0.05|	0
FG1-MW8s	12/15/2014	11:04	17.85	60.97	<|0.05|	0
FG1-MW8s	1/12/2015	17:14	18.26	60.56	<|0.05|	0
FG1-MW8s	2/10/2015	16:23	18.56	60.26	<|0.05|	0
FG1-MW8s	3/13/2015	16:23	19.33	59.49	<|0.05|	0
FG1-MW8s	4/17/2015	14:15	19.38	59.44	<|0.05|	0
FG1-MW8s	5/14/2015	8:27	19.69	59.13	<|0.05|	0
FG1-MW8s	6/4/2015	12:40	19.78	59.04	<|0.05|	0
FG1-MW8s	7/22/2015	9:53	20.41	58.41	<|0.05|	0
FG1-MW8s	8/19/2015	8:32	20.21	58.61	0.43	0.02
FG1-MW8s	9/14/2015	14:41	20.40	58.42	<|0.05|	0
FG1-MW8s	10/16/2015	14:00	20.10	58.72	<|0.05|	0
FG1-MW8s	11/18/2015	8:23	17.56	61.26	<|0.05|	0
FG1-MW8s	12/23/2015	15:51	17.69	61.13	<|0.05|	0
FG1-MW8s	1/15/2016	16:21	17.33	61.49	<|0.05|	0
FG1-MW8s	2/22/2016	15:18	18.07	60.75	<|0.05|	0
FG1-MW8s	3/18/2016	15:28	16.74	62.08	<|0.05|	0
FG1-MW8s	4/18/2016	16:16	18.94	59.88	<|0.05|	0
FG1-MW8s	5/19/2016	11:13	19.60	59.22	<|0.05|	0
FG1-MW8s	6/16/2016	13:47	20.18	58.64	<|0.05|	0
FG1-MW8s	7/21/2016	15:57	20.86	57.96	<|0.05|	0
FG1-MW8s	8/19/2016	12:21	20.80	58.02	<|0.05|	0
FG1-MW8s	9/15/2016	15:13	19.94	58.88	<|0.05|	0
FG1-MW8s	10/14/2016	16:03	19.45	59.37	<|0.05|	0
FG1-MW8s	12/1/2016	11:07	17.60	61.22	<|0.05|	0
FG1-MW8s	12/12/2016	15:34	17.54	61.28	<|0.05|	0
FG1-MW8s	1/25/2017	15:47	10.30	68.52	<|0.05|	0
FG1-MW8s	2/1/2017		N/M			
FG1-MW8s	3/15/2017	8:42	4.11	74.71	<|0.05|	0
FG1-MW8s	4/20/2017	15:02	6.67	72.15	<|0.05|	0
FG1-MW8s	5/19/2017	9:05	9.15	69.67	<|0.05|	0
FG1-MW8s	6/23/2017	12:40	10.92	67.90	0.07	0.00
FG1-MW8s	7/14/2017	14:23	14.20	64.62	<|0.05|	0
FG1-MW8s	8/28/2017	9:06	17.31	61.51	<|0.05|	0
FG1-MW8s	9/22/2017	16:01	14.53	64.29	<|0.05|	0
FG1-MW8s	10/19/2017	15:27	13.82	65.00	<|0.05|	0
FG1-MW8s	11/21/2017	16:29	17.23	61.59	<|0.05|	0
FG1-MW8s	12/21/2017	15:51	17.90	60.92	<|0.05|	0
FG1-MW8s	1/23/2018	15:47	18.06	60.76	<|0.05|	0
FG1-MW8s	2/22/2018	15:39	18.32	60.50	<|0.05|	0
FG1-MW8s	3/1/2018		N/M			
FG1-MW8s	4/24/2018	13:52	13.65	65.17	<|0.05|	0
FG1-MW8s	5/10/2018	15:05	15.64	63.18	<|0.05|	0
FG1-MW8s	6/13/2018	15:56	18.27	60.55	<|0.05|	0
FG1-MW8s	7/16/2018	13:36	19.13	59.69	<|0.05|	0
FG1-MW8s	8/23/2018	11:59	19.40	59.42	<|0.05|	0
FG1-MW8s	9/16/2018	17:42	17.13	61.69	<|0.05|	0
FG1-MW8s	10/25/2018	15:06	17.64	61.18	<|0.05|	0
FG1-MW8s	11/14/2018	8:55	18.30	60.52	<|0.05|	0
FG1-MW8s	12/15/2018	11:23	18.44	60.38	<|0.05|	0
FG1-MW8s	1/25/2019	13:51	18.63	60.19	<|0.05|	0
FG1-MW8s	2/25/2019	9:00	7.68	71.14	<|0.05|	0
FG1-MW8s	3/16/2019	16:20	13.06	65.76	<|0.05|	0
FG1-MW8s	4/15/2019	13:40	12.39	66.43	<|0.05|	0
FG1-MW8s	5/24/2019	8:39	7.64	71.18	<|0.05|	0
FG1-MW8s	6/20/2019	15:35	12.42	66.40	<|0.05|	0
FG1-MW8s	7/17/2019	11:48	17.09	61.73	<|0.05|	0
FG1-MW8s	8/16/2019	13:37	17.92	60.90	<|0.05|	0
FG1-MW8s	9/26/2019	15:17	12.23	66.59	<|0.05|	0
FG1-MW8s	10/25/2019	11:12	14.48	64.34	<|0.05|	0
FG1-MW8s	11/13/2019	9:48	17.68	61.14	<|0.05|	0
FG1-MW8s	12/14/2019	12:51	17.85	60.97	<|0.05|	0
FG1-MW8d	1/30/2012	13:08	18.02	60.53		
FG1-MW8d	2/12/2012	14:37	18.20	60.35		
FG1-MW8d	3/5/2012	13:19	17.53	61.02		
FG1-MW8d	4/5/2012	15:07	18.03	60.52		
FG1-MW8d	5/14/2012	13:21	16.02	62.53		
FG1-MW8d	6/18/2012	13:01	18.22	60.33		
FG1-MW8d	7/9/2012	14:30	18.50	60.05		
FG1-MW8d	8/15/2012	16:06	18.22	60.33		
FG1-MW8d	9/17/2012	13:30	18.58	59.97		
FG1-MW8d	10/20/2012	11:06	16.42	62.13		
FG1-MW8d	12/11/2012	12:57	17.76	60.79		
FG1-MW8d	12/28/2012	12:17	16.74	61.81		
FG1-MW8d	1/16/2013	11:03	17.62	60.93		
FG1-MW8d	2/17/2013	11:39	17.13	61.42		
FG1-MW8d	3/21/2013	11:26	18.35	60.20		
FG1-MW8d	4/16/2013	14:16	18.21	60.34		
FG1-MW8d	5/30/2013	10:56	18.19	60.36		
FG1-MW8d	6/17/2013	12:51	18.68	59.87		
FG1-MW8d	7/16/2013	13:23	18.93	59.62		
FG1-MW8d	8/22/2013	16:58	19.32	59.23		
FG1-MW8d	9/9/2013	14:02	18.32	60.23		
FG1-MW8d	10/7/2013	16:35	17.64	60.91		
FG1-MW8d	11/14/2013	9:31	17.90	60.65		
FG1-MW8d	12/17/2013	15:27	18.27	60.28		
FG1-MW8d	1/13/2014	15:09	18.34	60.21		
FG1-MW8d	2/20/2014	8:57	18.60	59.95		
FG1-MW8d	3/16/2014	15:28	18.90	59.65		
FG1-MW8d	4/19/2014	17:43	18.04	60.51		
FG1-MW8d	5/21/2014	12:16	19.14	59.41		
FG1-MW8d	6/19/2014	15:25	18.90	59.65		
FG1-MW8d	7/17/2014	13:54	19.03	59.52		
FG1-MW8d	8/22/2014	12:33	19.05	59.50		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
FG1-MW8d	9/22/2014	15:01	19.35	59.20		
FG1-MW8d	10/14/2014	15:58	19.28	59.27		
FG1-MW8d	11/7/2014	16:24	17.00	61.55		
FG1-MW8d	12/15/2014	11:04	17.57	60.98		
FG1-MW8d	1/12/2015	17:14	18.01	60.54		
FG1-MW8d	2/10/2015	16:23	18.31	60.24		
FG1-MW8d	3/13/2015	16:23	19.08	59.47		
FG1-MW8d	4/17/2015	14:15	19.11	59.44		
FG1-MW8d	5/14/2015	8:27	19.45	59.10		
FG1-MW8d	6/4/2015	12:40	19.52	59.03		
FG1-MW8d	7/22/2015	9:53	20.15	58.40		
FG1-MW8d	8/19/2015	8:32	20.37	58.18		
FG1-MW8d	9/14/2015	14:42	20.14	58.41		
FG1-MW8d	10/16/2015	14:01	19.85	58.70		
FG1-MW8d	11/18/2015	8:24	17.31	61.24		
FG1-MW8d	12/23/2015	15:52	17.45	61.10		
FG1-MW8d	1/15/2016	16:22	17.07	61.48		
FG1-MW8d	2/22/2016	15:19	17.80	60.75		
FG1-MW8d	3/18/2016	15:28	16.48	62.07		
FG1-MW8d	4/18/2016	16:16	18.66	59.89		
FG1-MW8d	5/19/2016	11:13	19.33	59.22		
FG1-MW8d	6/16/2016	13:48	19.90	58.65		
FG1-MW8d	7/21/2016	15:57	20.60	57.95		
FG1-MW8d	8/19/2016	12:21	20.53	58.02		
FG1-MW8d	9/15/2016	15:14	19.66	58.89		
FG1-MW8d	10/14/2016	16:03	19.17	59.38		
FG1-MW8d	12/1/2016	11:06	17.35	61.20		
FG1-MW8d	12/12/2016	15:35	17.25	61.30		
FG1-MW8d	1/25/2017	15:48	10.06	68.49		
FG1-MW8d	2/1/2017		N/M			
FG1-MW8d	3/15/2017	8:42	3.83	74.72		
FG1-MW8d	4/20/2017	15:03	6.42	72.13		
FG1-MW8d	5/19/2017	9:06	8.91	69.64		
FG1-MW8d	6/23/2017	12:40	10.72	67.83		
FG1-MW8d	7/14/2017	14:22	13.94	64.61		
FG1-MW8d	8/28/2017	9:05	17.02	61.53		
FG1-MW8d	9/22/2017	16:02	14.25	64.30		
FG1-MW8d	10/19/2017	15:28	13.55	65.00		
FG1-MW8d	11/21/2017	16:30	16.95	61.60		
FG1-MW8d	12/21/2017	15:52	17.64	60.91		
FG1-MW8d	1/23/2018	15:48	17.80	60.75		
FG1-MW8d	2/22/2018	15:38	18.07	60.48		
FG1-MW8d	3/1/2018		N/M			
FG1-MW8d	4/24/2018	13:52	13.40	65.15		
FG1-MW8d	5/10/2018	15:06	15.37	63.18		
FG1-MW8d	6/13/2018	15:57	18.00	60.55		
FG1-MW8d	7/16/2018	13:37	18.85	59.70		
FG1-MW8d	8/23/2018	11:59	19.14	59.41		
FG1-MW8d	9/16/2018	17:42	16.85	61.70		
FG1-MW8d	10/25/2018	15:07	17.38	61.17		
FG1-MW8d	11/14/2018	8:56	18.02	60.53		
FG1-MW8d	12/15/2018	11:24	18.15	60.40		
FG1-MW8d	1/25/2019	13:50	18.37	60.18		
FG1-MW8d	2/25/2019	9:01	7.44	71.11		
FG1-MW8d	3/16/2019	16:20	12.80	65.75		
FG1-MW8d	4/15/2019	13:40	12.16	66.39		
FG1-MW8d	5/24/2019	8:39	7.40	71.15		
FG1-MW8d	6/20/2019	15:36	12.18	66.37		
FG1-MW8d	7/17/2019	11:48	16.82	61.73		
FG1-MW8d	8/16/2019	13:37	17.64	60.91		
FG1-MW8d	9/26/2019	15:17	12.00	66.55		
FG1-MW8d	10/25/2019	11:12	14.20	64.35		
FG1-MW8d	11/13/2019	9:48	17.42	61.13		
FG1-MW8d	12/14/2019	12:52	17.60	60.95		
FG1-MW9s	1/30/2012	13:36	16.95	61.58	0.27	0.02
FG1-MW9s	2/12/2012	14:50	17.21	61.32	0.21	0.01
FG1-MW9s	3/5/2012	13:28	14.91	63.62	1.13	0.06
FG1-MW9s	4/5/2012	15:00	17.19	61.34	0.22	0.01
FG1-MW9s	5/14/2012	11:14	14.68	63.85	0.93	0.05
FG1-MW9s	6/18/2012	12:34	16.28	62.25	0.81	0.05
FG1-MW9s	7/9/2012	14:12	15.82	62.71	1.33	0.07
FG1-MW9s	8/15/2012	16:00	15.88	62.65	1.19	0.07
FG1-MW9s	9/17/2012	13:10	17.38	61.15	0.34	0.02
FG1-MW9s	10/20/2012	10:45	15.78	62.75	0.44	0.02
FG1-MW9s	12/11/2012	12:45	17.29	61.24	0.11	0.01
FG1-MW9s	12/28/2012	12:20	16.63	61.90	-0.12	-0.01
FG1-MW9s	1/16/2013	11:06	17.12	61.41	0.12	0.01
FG1-MW9s	2/17/2013	11:45	13.41	65.12	1.05	0.06
FG1-MW9s	3/21/2013	11:02	17.41	61.12	0.08	0.00
FG1-MW9s	4/16/2013	14:20	17.64	60.89	0.08	0.00
FG1-MW9s	5/30/2013	11:05	16.72	61.81	0.75	0.04
FG1-MW9s	6/17/2013	12:55	17.27	61.26	0.59	0.03
FG1-MW9s	7/16/2013	12:37	17.83	60.70	0.31	0.02
FG1-MW9s	8/22/2013	16:35	18.30	60.23	0.26	0.01
FG1-MW9s	9/9/2013	13:33	17.92	60.61	0.22	0.01
FG1-MW9s	10/7/2013	15:58	16.68	61.85	0.45	0.02
FG1-MW9s	11/14/2013	10:00	17.35	61.18	0.14	0.01
FG1-MW9s	12/17/2013	15:33	17.92	60.61	<|0.05|	0
FG1-MW9s	1/13/2014	14:31	17.76	60.77	0.17	0.01
FG1-MW9s	2/20/2014	8:13	18.13	60.40	0.12	0.01
FG1-MW9s	3/16/2014	14:56	18.20	60.33	0.09	0.00
FG1-MW9s	4/19/2014	17:06	18.37	60.16	0.12	0.01
FG1-MW9s	5/21/2014	11:36	18.45	60.08	0.25	0.01
FG1-MW9s	6/19/2014	14:45	17.14	61.39	0.70	0.04
FG1-MW9s	7/17/2014	13:21	17.71	60.82	0.63	0.04
FG1-MW9s	8/22/2014	12:45	17.76	60.77	0.39	0.02
FG1-MW9s	9/22/2014	14:24	19.06	59.47	<|0.05|	0
FG1-MW9s	10/14/2014	15:24	19.12	59.41	<|0.05|	0
FG1-MW9s	11/7/2014	15:49	17.27	61.26	<|0.05|	0
FG1-MW9s	12/15/2014	9:44	17.52	61.01	<|0.05|	0
FG1-MW9s	1/12/2015	17:03	17.62	60.91	0.14	0.01
FG1-MW9s	2/10/2015	15:42	17.99	60.54	0.11	0.01
FG1-MW9s	3/13/2015	15:51	18.54	59.99	0.06	0.00
FG1-MW9s	4/17/2015	13:35	Dry			
FG1-MW9s	5/14/2015	7:58	Dry			
FG1-MW9s	6/4/2015	13:01	Dry			
FG1-MW9s	7/22/2015	9:58	Dry			
FG1-MW9s	8/19/2015	8:38	Dry			
FG1-MW9s	9/14/2015	14:45	Dry			
FG1-MW9s	10/16/2015	13:50	Dry			
FG1-MW9s	11/18/2015	7:42	Dry			
FG1-MW9s	12/23/2015	15:46	Dry			
FG1-MW9s	1/15/2016	16:16	17.21	61.32	0.29	0.02
FG1-MW9s	2/22/2016	15:11	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
FG1-MW9s	3/18/2016	15:02	Dry			
FG1-MW9s	4/18/2016	15:52	Dry			
FG1-MW9s	5/19/2016	10:47	Dry			
FG1-MW9s	6/16/2016	13:42	Dry			
FG1-MW9s	7/21/2016	15:23	Dry			
FG1-MW9s	8/19/2016	11:45	Dry			
FG1-MW9s	9/15/2016	15:08	Dry			
FG1-MW9s	10/14/2016	15:33	Dry			
FG1-MW9s	12/1/2016	11:02	Dry			
FG1-MW9s	12/12/2016	15:30	Dry			
FG1-MW9s	1/25/2017	15:43	14.34	64.19	-1.65	-0.09
FG1-MW9s	2/1/2017		N/M			
FG1-MW9s	3/15/2017	9:00	3.72	74.81	0.93	0.05
FG1-MW9s	4/20/2017	14:59	6.43	72.10	0.28	0.02
FG1-MW9s	5/19/2017	9:00	7.52	71.01	0.84	0.05
FG1-MW9s	6/23/2017	12:35	11.18	67.35	-0.14	-0.01
FG1-MW9s	7/14/2017	14:19	13.24	65.29	0.54	0.03
FG1-MW9s	8/28/2017	9:01	16.63	61.90	-0.08	-0.00
FG1-MW9s	9/22/2017	15:56	15.28	63.25	-0.51	-0.03
FG1-MW9s	10/19/2017	15:24	14.85	63.68	-0.85	-0.05
FG1-MW9s	11/21/2017	16:25	16.46	62.07	0.17	0.01
FG1-MW9s	12/21/2017	15:47	Dry			
FG1-MW9s	1/23/2018	15:44	17.15	61.38	0.44	0.02
FG1-MW9s	2/22/2018	15:30	Dry			
FG1-MW9s	3/1/2018		N/M			
FG1-MW9s	4/24/2018	14:09	13.60	64.93	0.22	0.01
FG1-MW9s	5/10/2018	15:01	14.99	63.54	0.20	0.01
FG1-MW9s	6/13/2018	15:55	Dry			
FG1-MW9s	7/16/2018	13:34	Dry			
FG1-MW9s	8/23/2018	11:57	Dry			
FG1-MW9s	9/16/2018	17:38	Dry			
FG1-MW9s	10/25/2018	15:03	17.51	61.02		
FG1-MW9s	11/14/2018	8:52	Dry			
FG1-MW9s	12/15/2018	11:22	Dry			
FG1-MW9s	1/25/2019	13:48	Dry			
FG1-MW9s	2/25/2019	9:10	9.42	69.11	0.25	0.01
FG1-MW9s	3/16/2019	16:17	11.48	67.05	0.86	0.05
FG1-MW9s	4/15/2019	13:18	11.18	67.35	0.77	0.04
FG1-MW9s	5/24/2019	8:16	8.59	69.94	0.19	0.01
FG1-MW9s	6/20/2019	15:31	11.23	67.30	0.97	0.05
FG1-MW9s	7/17/2019	11:27	15.03	63.50	1.69	0.09
FG1-MW9s	8/16/2019	13:42	Dry			
FG1-MW9s	9/26/2019	14:52	14.16	64.37	-1.04	-0.06
FG1-MW9s	10/25/2019	10:43	15.34	63.19	-0.85	-0.05
FG1-MW9s	11/13/2019	9:46	16.70	61.83	0.34	0.02
FG1-MW9s	12/14/2019	12:47	Dry			
FG1-MW9d	1/30/2012	13:38	17.08	61.31		
FG1-MW9d	2/12/2012	14:51	17.28	61.11		
FG1-MW9d	3/5/2012	13:27	15.90	62.49		
FG1-MW9d	4/5/2012	15:02	17.27	61.12		
FG1-MW9d	5/14/2012	11:15	15.47	62.92		
FG1-MW9d	6/18/2012	12:33	16.95	61.44		
FG1-MW9d	7/9/2012	14:11	17.01	61.38		
FG1-MW9d	8/15/2012	16:01	16.93	61.46		
FG1-MW9d	9/17/2012	13:10	17.58	60.81		
FG1-MW9d	10/20/2012	10:45	16.08	62.31		
FG1-MW9d	12/11/2012	12:45	17.26	61.13		
FG1-MW9d	12/28/2012	12:21	16.37	62.02		
FG1-MW9d	1/16/2013	11:07	17.10	61.29		
FG1-MW9d	2/17/2013	11:46	14.32	64.07		
FG1-MW9d	3/21/2013	10:51	17.35	61.04		
FG1-MW9d	4/16/2013	14:20	17.58	60.81		
FG1-MW9d	5/30/2013	11:05	17.33	61.06		
FG1-MW9d	6/17/2013	12:57	17.72	60.67		
FG1-MW9d	7/16/2013	12:37	18.00	60.39		
FG1-MW9d	8/22/2013	16:35	18.42	59.97		
FG1-MW9d	9/9/2013	13:33	18.00	60.39		
FG1-MW9d	10/7/2013	15:58	16.99	61.40		
FG1-MW9d	11/14/2013	10:00	17.35	61.04		
FG1-MW9d	12/17/2013	15:33	17.81	60.58		
FG1-MW9d	1/13/2014	14:31	17.79	60.60		
FG1-MW9d	2/20/2014	8:13	18.11	60.28		
FG1-MW9d	3/16/2014	14:56	18.15	60.24		
FG1-MW9d	4/19/2014	17:06	18.35	60.04		
FG1-MW9d	5/21/2014	11:36	18.56	59.83		
FG1-MW9d	6/19/2014	14:45	17.70	60.69		
FG1-MW9d	7/17/2014	13:21	18.20	60.19		
FG1-MW9d	8/22/2014	12:45	18.01	60.38		
FG1-MW9d	9/22/2014	14:24	18.91	59.48		
FG1-MW9d	10/14/2014	15:24	18.98	59.41		
FG1-MW9d	11/7/2014	15:49	17.14	61.25		
FG1-MW9d	12/15/2014	9:44	17.39	61.00		
FG1-MW9d	1/12/2015	17:03	17.62	60.77		
FG1-MW9d	2/10/2015	15:42	17.96	60.43		
FG1-MW9d	3/13/2015	15:51	18.46	59.93		
FG1-MW9d	4/17/2015	13:35	18.62	59.77		
FG1-MW9d	5/14/2015	7:58	19.05	59.34		
FG1-MW9d	6/4/2015	13:01	19.28	59.11		
FG1-MW9d	7/22/2015	9:58	20.15	58.24		
FG1-MW9d	8/19/2015	8:38	20.14	58.25		
FG1-MW9d	9/14/2015	14:46	20.13	58.26		
FG1-MW9d	10/16/2015	13:51	19.86	58.53		
FG1-MW9d	11/18/2015	7:43	17.70	60.69		
FG1-MW9d	12/23/2015	15:47	17.30	61.09		
FG1-MW9d	1/15/2016	16:17	17.36	61.03		
FG1-MW9d	2/22/2016	15:12	17.69	60.70		
FG1-MW9d	3/18/2016	15:02	16.91	61.48		
FG1-MW9d	4/18/2016	15:52	18.27	60.12		
FG1-MW9d	5/19/2016	10:47	18.79	59.60		
FG1-MW9d	6/16/2016	13:43	19.47	58.92		
FG1-MW9d	7/21/2016	15:23	20.33	58.06		
FG1-MW9d	8/19/2016	11:45	20.40	57.99		
FG1-MW9d	9/15/2016	15:09	19.69	58.70		
FG1-MW9d	10/14/2016	15:33	18.98	59.41		
FG1-MW9d	12/1/2016	11:03	17.39	61.00		
FG1-MW9d	12/12/2016	15:31	17.29	61.10		
FG1-MW9d	1/25/2017	15:44	12.55	65.84		
FG1-MW9d	2/1/2017		N/M			
FG1-MW9d	3/15/2017	9:00	4.51	73.88		
FG1-MW9d	4/20/2017	15:00	6.57	71.82		
FG1-MW9d	5/19/2017	9:01	8.22	70.17		
FG1-MW9d	6/23/2017	12:35	10.90	67.49		
FG1-MW9d	7/14/2017	14:20	13.64	64.75		
FG1-MW9d	8/28/2017	9:01	16.41	61.98		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
FG1-MW9d	9/22/2017	15:57	14.63	63.76		
FG1-MW9d	10/19/2017	15:25	13.86	64.53		
FG1-MW9d	11/21/2017	16:26	16.49	61.90		
FG1-MW9d	12/21/2017	15:48	17.20	61.19		
FG1-MW9d	1/23/2018	15:45	17.45	60.94		
FG1-MW9d	2/22/2018	15:31	17.75	60.64		
FG1-MW9d	3/1/2018		N/M			
FG1-MW9d	4/24/2018	14:10	13.68	64.71		
FG1-MW9d	5/10/2018	15:02	15.05	63.34		
FG1-MW9d	6/13/2018	15:54	17.47	60.92		
FG1-MW9d	7/16/2018	13:34	18.36	60.03		
FG1-MW9d	8/23/2018	11:57	18.87	59.52		
FG1-MW9d	9/16/2018	17:38	16.95	61.44		
FG1-MW9d	10/25/2018	15:04	Dry			
FG1-MW9d	11/14/2018	8:53	17.95	60.44		
FG1-MW9d	12/15/2018	11:21	18.05	60.34		
FG1-MW9d	1/25/2019	13:49	18.24	60.15		
FG1-MW9d	2/25/2019	9:12	9.53	68.86		
FG1-MW9d	3/16/2019	16:18	12.20	66.19		
FG1-MW9d	4/15/2019	13:18	11.81	66.58		
FG1-MW9d	5/24/2019	8:16	8.64	69.75		
FG1-MW9d	6/20/2019	15:32	12.06	66.33		
FG1-MW9d	7/17/2019	11:27	16.58	61.81		
FG1-MW9d	8/16/2019	13:42	17.13	61.26		
FG1-MW9d	9/26/2019	14:52	12.98	65.41		
FG1-MW9d	10/25/2019	10:43	14.35	64.04		
FG1-MW9d	11/13/2019	9:46	16.90	61.49		
FG1-MW9d	12/14/2019	12:48	17.25	61.14		
BEA-MW1s	1/30/2012	13:00	21.85	77.85	-0.08	-0.01
BEA-MW1s	2/13/2012	10:37	21.86	77.84	0.11	0.01
BEA-MW1s	3/5/2012	11:30	21.91	77.79	0.15	0.01
BEA-MW1s	4/9/2012	11:34	22.21	77.49	0.23	0.01
BEA-MW1s	5/14/2012	14:50	24.03	75.67	0.30	0.02
BEA-MW1s	6/21/2012	18:20	Dry			
BEA-MW1s	7/11/2012	10:35	Dry			
BEA-MW1s	8/16/2012	12:38	Dry			
BEA-MW1s	9/20/2012	12:33	Dry			
BEA-MW1s	10/20/2012	11:49	Dry			
BEA-MW1s	12/9/2012	15:48	Dry			
BEA-MW1s	12/31/2012	13:30	Q/M			
BEA-MW1s	1/15/2013	14:10	Dry			
BEA-MW1s	2/17/2013	14:09	Dry			
BEA-MW1s	3/22/2013	12:50	Dry			
BEA-MW1s	4/17/2013	13:23	Dry			
BEA-MW1s	6/2/2013	11:33	Dry			
BEA-MW1s	6/17/2013	14:40	Dry			
BEA-MW1s	7/15/2013	16:58	Dry			
BEA-MW1s	8/28/2013	10:04	Dry			
BEA-MW1s	9/9/2013	16:21	Dry			
BEA-MW1s	10/7/2013	15:50	Dry			
BEA-MW1s	11/18/2013	8:21	Dry			
BEA-MW1s	12/17/2013	16:23	Dry			
BEA-MW1s	1/14/2014	13:33	Dry			
BEA-MW1s	2/25/2014	9:07	Dry			
BEA-MW1s	3/17/2014	14:09	Dry			
BEA-MW1s	4/19/2014	12:36	Dry			
BEA-MW1s	5/27/2014	17:36	Dry			
BEA-MW1s	6/19/2014	18:06	Dry			
BEA-MW1s	7/17/2014	11:05	Dry			
BEA-MW1s	8/26/2014	12:05	Dry			
BEA-MW1s	9/19/2014	10:20	Dry			
BEA-MW1s	10/14/2014	12:04	Dry			
BEA-MW1s	11/12/2014	9:22	Dry			
BEA-MW1s	12/15/2014	16:14	Dry			
BEA-MW1s	1/13/2015	14:40	Dry			
BEA-MW1s	2/11/2015	12:14	Dry			
BEA-MW1s	3/13/2015	12:44	Dry			
BEA-MW1s	4/17/2015	10:53	Dry			
BEA-MW1s	5/13/2015	13:02	Dry			
BEA-MW1s	6/4/2015	14:12	Dry			
BEA-MW1s	7/21/2015	14:31	Dry			
BEA-MW1s	8/14/2015	16:50	Dry			
BEA-MW1s	9/14/2015	16:41	Dry			
BEA-MW1s	10/16/2015	15:56	Dry			
BEA-MW1s	11/18/2015	12:42	Dry			
BEA-MW1s	12/18/2015	16:40	Dry			
BEA-MW1s	1/16/2016	11:21	Dry			
BEA-MW1s	2/23/2016	14:44	Dry			
BEA-MW1s	3/19/2016	12:38	Dry			
BEA-MW1s	4/18/2016	11:21	Dry			
BEA-MW1s	5/18/2016	15:10	Dry			
BEA-MW1s	6/16/2016	15:34	Dry			
BEA-MW1s	7/22/2016	12:27	Dry			
BEA-MW1s	8/17/2016	12:26	Dry			
BEA-MW1s	9/16/2016	11:22	Dry			
BEA-MW1s	10/14/2016	11:43	Dry			
BEA-MW1s	11/29/2016	10:01	Dry			
BEA-MW1s	12/13/2016	11:20	Dry			
BEA-MW1s	1/26/2017	14:25	Dry			
BEA-MW1s	2/1/2017		N/M			
BEA-MW1s	3/16/2017	9:44	Dry			
BEA-MW1s	4/21/2017	10:50	Dry			
BEA-MW1s	5/19/2017	6:30	Dry			
BEA-MW1s	6/24/2017	14:04	Dry			
BEA-MW1s	7/14/2017	12:11	Dry			
BEA-MW1s	8/24/2017	10:10	Dry			
BEA-MW1s	9/23/2017	11:20	Dry			
BEA-MW1s	10/19/2017	16:41	Dry			
BEA-MW1s	11/20/2017	10:43	Dry			
BEA-MW1s	12/29/2017	16:18	Dry			
BEA-MW1s	1/22/2018	11:16	Dry			
BEA-MW1s	2/23/2018	11:26	Dry			
BEA-MW1s	3/1/2018		N/M			
BEA-MW1s	4/25/2018	14:49	Dry			
BEA-MW1s	5/14/2018	16:36	Dry			
BEA-MW1s	6/13/2018	17:18	Dry			
BEA-MW1s	7/16/2018	14:51	Dry			
BEA-MW1s	8/20/2018	9:19	Dry			
BEA-MW1s	9/12/2018	12:48	Dry			
BEA-MW1s	10/25/2018	16:03	Dry			
BEA-MW1s	11/14/2018	8:51	Dry			
BEA-MW1s	12/14/2018	9:53	Dry			
BEA-MW1s	1/24/2019	12:16	Dry			
BEA-MW1s	2/25/2019	16:20	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
BEA-MW1s	3/17/2019	12:25	Dry			
BEA-MW1s	4/15/2019	14:30	Dry			
BEA-MW1s	5/23/2019	11:26	Dry			
BEA-MW1s	6/20/2019	13:12	Dry			
BEA-MW1s	7/17/2019	13:25	Dry			
BEA-MW1s	8/23/2019	7:48	Dry			
BEA-MW1s	9/27/2019	10:50	Dry			
BEA-MW1s	10/25/2019	12:20	Dry			
BEA-MW1s	11/13/2019	8:00	Dry			
BEA-MW1s	12/14/2019	15:25	Dry			
BEA-MW1d	1/30/2012	13:02	21.53	77.93		
BEA-MW1d	2/13/2012	10:38	21.73	77.73		
BEA-MW1d	3/5/2012	11:32	21.82	77.64		
BEA-MW1d	4/9/2012	11:33	22.20	77.26		
BEA-MW1d	5/14/2012	14:51	24.09	75.37		
BEA-MW1d	6/21/2012	18:21	29.87	69.59		
BEA-MW1d	7/11/2012	10:35	31.86	67.60		
BEA-MW1d	8/16/2012	12:38	34.58	64.88		
BEA-MW1d	9/20/2012	12:33	34.77	64.69		
BEA-MW1d	10/20/2012	11:49	34.68	64.78		
BEA-MW1d	12/9/2012	15:48	34.25	65.21		
BEA-MW1d	12/31/2012	13:31	32.88	66.58		
BEA-MW1d	1/15/2013	14:10	31.30	68.16		
BEA-MW1d	2/17/2013	14:10	27.20	72.26		
BEA-MW1d	3/22/2013	12:50	28.90	70.56		
BEA-MW1d	4/17/2013	13:23	30.73	68.73		
BEA-MW1d	6/2/2013	11:33	34.80	64.66		
BEA-MW1d	6/17/2013	14:41	36.26	63.20		
BEA-MW1d	7/15/2013	16:58	39.72	59.74		
BEA-MW1d	8/28/2013	10:04	Dry			
BEA-MW1d	9/9/2013	16:21	Dry			
BEA-MW1d	10/7/2013	15:50	Dry			
BEA-MW1d	11/18/2013	8:21	Dry			
BEA-MW1d	12/17/2013	16:23	Dry			
BEA-MW1d	1/14/2014	13:33	Dry			
BEA-MW1d	2/25/2014	9:07	Dry			
BEA-MW1d	3/17/2014	14:09	38.60	60.86		
BEA-MW1d	4/19/2014	12:36	38.23	61.23		
BEA-MW1d	5/27/2014	17:36	Dry			
BEA-MW1d	6/19/2014	18:06	Dry			
BEA-MW1d	7/17/2014	11:05	Dry			
BEA-MW1d	8/26/2014	12:05	Dry			
BEA-MW1d	9/19/2014	10:20	Dry			
BEA-MW1d	10/14/2014	12:04	Dry			
BEA-MW1d	11/12/2014	9:22	Dry			
BEA-MW1d	12/15/2014	16:14	Dry			
BEA-MW1d	1/13/2015	14:40	Dry			
BEA-MW1d	2/11/2015	12:14	Dry			
BEA-MW1d	3/13/2015	12:44	Dry			
BEA-MW1d	4/17/2015	10:53	Dry			
BEA-MW1d	5/13/2015	13:02	Dry			
BEA-MW1d	6/4/2015	14:12	Dry			
BEA-MW1d	7/21/2015	14:31	Dry			
BEA-MW1d	8/14/2015	16:50	Dry			
BEA-MW1d	9/14/2015	16:42	Dry			
BEA-MW1d	10/16/2015	15:57	Dry			
BEA-MW1d	11/18/2015	12:43	Dry			
BEA-MW1d	12/18/2015	16:41	Dry			
BEA-MW1d	1/16/2016	11:21	Dry			
BEA-MW1d	2/23/2016	14:45	Dry			
BEA-MW1d	3/19/2016	12:38	Dry			
BEA-MW1d	4/18/2016	11:22	Dry			
BEA-MW1d	5/18/2016	15:11	Dry			
BEA-MW1d	6/16/2016	15:34	Dry			
BEA-MW1d	7/22/2016	12:27	Dry			
BEA-MW1d	8/17/2016	12:25	Dry			
BEA-MW1d	9/16/2016	11:23	Dry			
BEA-MW1d	10/14/2016	11:44	Dry			
BEA-MW1d	11/29/2016	10:02	Dry			
BEA-MW1d	12/13/2016	11:20	Dry			
BEA-MW1d	1/26/2017	14:26	Dry			
BEA-MW1d	2/1/2017		N/M			
BEA-MW1d	3/16/2017	9:44	40.00	59.46		
BEA-MW1d	4/21/2017	10:51	37.66	61.80		
BEA-MW1d	5/19/2017	6:30	35.02	64.44		
BEA-MW1d	6/24/2017	14:04	35.04	64.42		
BEA-MW1d	7/14/2017	12:11	35.59	63.87		
BEA-MW1d	8/24/2017	10:11	37.13	62.33		
BEA-MW1d	9/23/2017	11:20	37.16	62.30		
BEA-MW1d	10/19/2017	16:42	37.44	62.02		
BEA-MW1d	11/20/2017	10:43	37.39	62.07		
BEA-MW1d	12/29/2017	16:17	38.85	60.61		
BEA-MW1d	1/22/2018	11:16	39.14	60.32		
BEA-MW1d	2/23/2018	11:26	39.46	60.00		
BEA-MW1d	3/1/2018		N/M			
BEA-MW1d	4/25/2018	14:49	37.99	61.47		
BEA-MW1d	5/14/2018	16:36	37.66	61.80		
BEA-MW1d	6/13/2018	17:19	38.44	61.02		
BEA-MW1d	7/16/2018	14:52	39.82	59.64		
BEA-MW1d	8/20/2018	9:20	Dry			
BEA-MW1d	9/12/2018	12:48	Dry			
BEA-MW1d	10/25/2018	16:03	Dry			
BEA-MW1d	11/14/2018	8:51	Dry			
BEA-MW1d	12/14/2018	9:54	Dry			
BEA-MW1d	1/24/2019	12:16	Dry			
BEA-MW1d	2/25/2019	16:20	37.85	61.61		
BEA-MW1d	3/17/2019	12:26	36.40	63.06		
BEA-MW1d	4/15/2019	14:30	36.59	62.87		
BEA-MW1d	5/23/2019	11:26	36.11	63.35		
BEA-MW1d	6/20/2019	13:12	Dry			
BEA-MW1d	7/17/2019	13:25	36.42	63.04		
BEA-MW1d	8/23/2019	7:49	37.81	61.65		
BEA-MW1d	9/27/2019	10:50	38.11	61.35		
BEA-MW1d	10/25/2019	12:20	38.02	61.44		
BEA-MW1d	11/13/2019	8:02	38.70	60.76		
BEA-MW1d	12/14/2019	15:24	39.47	59.99		
BEA-MW1dd	11/12/2014	9:23	46.85	52.58		
BEA-MW1dd	12/15/2014	16:15	46.02	53.41		
BEA-MW1dd	1/13/2015	14:41	41.73	57.70		
BEA-MW1dd	2/11/2015	12:15	43.38	56.05		
BEA-MW1dd	3/13/2015	12:45	41.93	57.50		
BEA-MW1dd	4/17/2015	10:55	41.38	58.05		
BEA-MW1dd	5/13/2015	13:03	43.53	55.90		
BEA-MW1dd	6/4/2015	14:13	44.09	55.34		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
BEA-MW1dd	7/21/2015	14:32	45.80	53.63		
BEA-MW1dd	8/14/2015	16:51	46.65	52.78		
BEA-MW1dd	9/14/2015	16:43	47.73	51.70		
BEA-MW1dd	10/16/2015	15:58	49.46	49.97		
BEA-MW1dd	11/18/2015	12:44	49.64	49.79		
BEA-MW1dd	12/18/2015	16:42	48.12	51.31		
BEA-MW1dd	1/16/2016	11:22	48.96	50.47		
BEA-MW1dd	2/23/2016	14:46	47.98	51.45		
BEA-MW1dd	3/19/2016	12:40	47.13	52.30		
BEA-MW1dd	4/18/2016	11:23	46.15	53.28		
BEA-MW1dd	5/18/2016	15:12	44.83	54.60		
BEA-MW1dd	6/16/2016	15:35	44.58	54.85		
BEA-MW1dd	7/22/2016	12:29	44.32	55.11		
BEA-MW1dd	8/17/2016	12:24	45.15	54.28		
BEA-MW1dd	9/16/2016	11:24	46.75	52.68		
BEA-MW1dd	10/14/2016	11:45	47.56	51.87		
BEA-MW1dd	11/29/2016	10:03	46.98	52.45		
BEA-MW1dd	12/13/2016	11:21	46.81	52.62		
BEA-MW1dd	1/26/2017	14:27	45.30	54.13		
BEA-MW1dd	2/1/2017		N/M			
BEA-MW1dd	3/16/2017	9:43	39.81	59.62		
BEA-MW1dd	4/21/2017	10:51	37.06	62.37		
BEA-MW1dd	5/19/2017	6:32	35.03	64.40		
BEA-MW1dd	6/24/2017	14:05	35.01	64.42		
BEA-MW1dd	7/14/2017	12:13	35.65	63.78		
BEA-MW1dd	8/24/2017	10:11	37.15	62.28		
BEA-MW1dd	9/23/2017	11:21	37.19	62.24		
BEA-MW1dd	10/19/2017	16:43	37.40	62.03		
BEA-MW1dd	11/20/2017	10:43	38.00	61.43		
BEA-MW1dd	12/29/2017	16:15	38.82	60.61		
BEA-MW1dd	1/22/2018	11:17	39.12	60.31		
BEA-MW1dd	2/23/2018	11:26	39.50	59.93		
BEA-MW1dd	3/1/2018		N/M			
BEA-MW1dd	4/25/2018	14:50	37.94	61.49		
BEA-MW1dd	5/14/2018	16:37	37.62	61.81		
BEA-MW1dd	6/13/2018	17:20	38.43	61.00		
BEA-MW1dd	7/16/2018	14:53	39.84	59.59		
BEA-MW1dd	8/20/2018	9:20	40.84	58.59		
BEA-MW1dd	9/12/2018	12:50	41.05	58.38		
BEA-MW1dd	10/25/2018	16:04	41.35	58.08		
BEA-MW1dd	11/14/2018	8:52	41.58	57.85		
BEA-MW1dd	12/14/2018	9:54	41.84	57.59		
BEA-MW1dd	1/24/2019	12:17	40.40	59.03		
BEA-MW1dd	2/25/2019	16:21	37.77	61.66		
BEA-MW1dd	3/17/2019	12:26	36.30	63.13		
BEA-MW1dd	4/15/2019	14:32	36.60	62.83		
BEA-MW1dd	5/23/2019	11:27	36.45	62.98		
BEA-MW1dd	6/20/2019	13:14	37.80	61.63		
BEA-MW1dd	7/17/2019	13:27	36.43	63.00		
BEA-MW1dd	8/23/2019	7:49	37.82	61.61		
BEA-MW1dd	9/27/2019	10:52	38.08	61.35		
BEA-MW1dd	10/25/2019	12:22	38.02	61.41		
BEA-MW1dd	11/13/2019	8:02	38.77	60.66		
BEA-MW1dd	12/14/2019	15:23	39.43	60.00		
BEA-MW2s	1/30/2012	13:08	19.59	79.53	0.27	0.02
BEA-MW2s	2/13/2012	9:30	20.04	79.08	0.34	0.02
BEA-MW2s	3/5/2012	11:34	20.55	78.57	0.57	0.04
BEA-MW2s	4/9/2012	11:16	20.19	78.93	1.61	0.10
BEA-MW2s	5/14/2012	13:58	23.03	76.09	0.82	0.05
BEA-MW2s	6/21/2012	18:14	Dry			
BEA-MW2s	7/11/2012	10:22	Dry			
BEA-MW2s	8/16/2012	12:50	Dry			
BEA-MW2s	9/20/2012	12:48	Dry			
BEA-MW2s	10/20/2012	11:35	Dry			
BEA-MW2s	12/9/2012	15:58	Dry			
BEA-MW2s	12/31/2012	13:15	Dry			
BEA-MW2s	1/15/2013	14:00	27.71	71.41	<|0.05|	0
BEA-MW2s	2/17/2013	13:45	25.72	73.40	<|0.05|	0
BEA-MW2s	3/22/2013	12:55	27.36	71.76	0.13	0.01
BEA-MW2s	4/17/2013	13:10	Dry			
BEA-MW2s	6/2/2013	11:35	Dry			
BEA-MW2s	6/17/2013	14:25	Dry			
BEA-MW2s	7/15/2013	16:45	Dry			
BEA-MW2s	8/28/2013	9:46	Dry			
BEA-MW2s	9/9/2013	16:05	Dry			
BEA-MW2s	10/7/2013	15:36	Dry			
BEA-MW2s	11/18/2013	8:06	Dry			
BEA-MW2s	12/17/2013	16:03	Dry			
BEA-MW2s	1/14/2014	13:40	Dry			
BEA-MW2s	2/25/2014	8:45	Dry			
BEA-MW2s	3/17/2014	13:53	Dry			
BEA-MW2s	4/19/2014	12:23	Dry			
BEA-MW2s	5/27/2014	17:18	Dry			
BEA-MW2s	6/19/2014	17:53	Dry			
BEA-MW2s	7/17/2014	11:15	Dry			
BEA-MW2s	8/26/2014	11:50	Dry			
BEA-MW2s	9/19/2014	10:34	Dry			
BEA-MW2s	10/14/2014	11:49	Dry			
BEA-MW2s	11/12/2014	9:03	Dry			
BEA-MW2s	12/15/2014	15:40	Dry			
BEA-MW2s	1/13/2015	14:22	Dry			
BEA-MW2s	2/11/2015	12:21	Dry			
BEA-MW2s	3/13/2015	12:19	Dry			
BEA-MW2s	4/17/2015	11:05	Dry			
BEA-MW2s	5/13/2015	13:16	Dry			
BEA-MW2s	6/4/2015	13:57	Dry			
BEA-MW2s	7/21/2015	14:05	Dry			
BEA-MW2s	8/14/2015	16:26	Dry			
BEA-MW2s	9/14/2015	16:45	Dry			
BEA-MW2s	10/16/2015	15:38	Dry			
BEA-MW2s	11/18/2015	12:24	Dry			
BEA-MW2s	12/18/2015	16:15	Dry			
BEA-MW2s	1/16/2016	11:06	Dry			
BEA-MW2s	2/23/2016	14:19	Dry			
BEA-MW2s	3/19/2016	12:11	Dry			
BEA-MW2s	4/18/2016	11:32	Dry			
BEA-MW2s	5/18/2016	15:22	Dry			
BEA-MW2s	6/16/2016	15:19	Dry			
BEA-MW2s	7/22/2016	12:06	Dry			
BEA-MW2s	8/17/2016	12:14	Dry			
BEA-MW2s	9/16/2016	11:31	Dry			
BEA-MW2s	10/14/2016	11:52	Dry			
BEA-MW2s	11/29/2016	9:45	Dry			
BEA-MW2s	12/13/2016	11:04	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
BEA-MW2s	1/26/2017	14:10	Dry			
BEA-MW2s	2/1/2017		N/M			
BEA-MW2s	3/16/2017	9:54	Dry			
BEA-MW2s	4/21/2017	10:58	Dry			
BEA-MW2s	5/19/2017	6:39	Dry			
BEA-MW2s	6/24/2017	13:50	Dry			
BEA-MW2s	7/14/2017	11:55	Dry			
BEA-MW2s	8/24/2017	10:18	Dry			
BEA-MW2s	9/23/2017	11:31	Dry			
BEA-MW2s	10/19/2017	16:31	Dry			
BEA-MW2s	11/20/2017	10:40	Dry			
BEA-MW2s	12/29/2017	16:27	Dry			
BEA-MW2s	1/22/2018	11:24	Dry			
BEA-MW2s	2/23/2018	11:20	Dry			
BEA-MW2s	3/1/2018		N/M			
BEA-MW2s	4/25/2018	14:31	Dry			
BEA-MW2s	5/14/2018	16:26	Dry			
BEA-MW2s	6/13/2018	17:04	Dry			
BEA-MW2s	7/16/2018	14:40	Dry			
BEA-MW2s	8/20/2018	9:00	Dry			
BEA-MW2s	9/12/2018	12:33	Dry			
BEA-MW2s	10/25/2018	15:52	Dry			
BEA-MW2s	11/14/2018	9:05	Dry			
BEA-MW2s	12/14/2018	10:01	Dry			
BEA-MW2s	1/24/2019	12:28	Dry			
BEA-MW2s	2/25/2019	16:11	Dry			
BEA-MW2s	3/17/2019	12:34	Dry			
BEA-MW2s	4/15/2019	14:14	Dry			
BEA-MW2s	5/23/2019	11:40	Dry			
BEA-MW2s	6/20/2019	13:28	Dry			
BEA-MW2s	7/17/2019	13:05	Dry			
BEA-MW2s	8/23/2019	7:31	Dry			
BEA-MW2s	9/27/2019	11:04	Dry			
BEA-MW2s	10/25/2019	12:06	Dry			
BEA-MW2s	11/13/2019	8:22	Dry			
BEA-MW2s	12/14/2019	15:10	Dry			
BEA-MW2d	1/30/2012	13:08	19.64	79.26		
BEA-MW2d	2/13/2012	9:31	20.16	78.74		
BEA-MW2d	3/5/2012	11:35	20.90	78.00		
BEA-MW2d	4/9/2012	11:15	21.58	77.32		
BEA-MW2d	5/14/2012	13:59	23.63	75.27		
BEA-MW2d	6/21/2012	18:15	29.40	69.50		
BEA-MW2d	7/11/2012	10:22	31.52	67.38		
BEA-MW2d	8/16/2012	12:51	31.49	67.41		
BEA-MW2d	9/20/2012	12:48	30.69	68.21		
BEA-MW2d	10/20/2012	11:35	30.05	68.85		
BEA-MW2d	12/9/2012	15:58	29.00	69.90		
BEA-MW2d	12/31/2012	13:16	28.15	70.75		
BEA-MW2d	1/15/2013	14:00	27.48	71.42		
BEA-MW2d	2/17/2013	13:46	25.50	73.40		
BEA-MW2d	3/22/2013	12:55	27.27	71.63		
BEA-MW2d	4/17/2013	13:10	28.80	70.10		
BEA-MW2d	6/2/2013	11:36	32.27	66.63		
BEA-MW2d	6/17/2013	14:27	33.40	65.50		
BEA-MW2d	7/15/2013	16:45	35.37	63.53		
BEA-MW2d	8/28/2013	9:46	37.75	61.15		
BEA-MW2d	9/9/2013	16:05	38.28	60.62		
BEA-MW2d	10/7/2013	15:36	38.74	60.16		
BEA-MW2d	11/18/2013	8:06	38.18	60.72		
BEA-MW2d	12/17/2013	16:03	37.22	61.68		
BEA-MW2d	1/14/2014	13:40	37.31	61.59		
BEA-MW2d	2/25/2014	8:45	37.15	61.75		
BEA-MW2d	3/17/2014	13:53	36.66	62.24		
BEA-MW2d	4/19/2014	12:23	37.24	61.66		
BEA-MW2d	5/27/2014	17:18	Dry			
BEA-MW2d	6/19/2014	17:53	Dry			
BEA-MW2d	7/17/2014	11:15	Dry			
BEA-MW2d	8/26/2014	11:50	Dry			
BEA-MW2d	9/19/2014	10:34	Dry			
BEA-MW2d	10/14/2014	11:49	Dry			
BEA-MW2d	11/12/2014	9:03	Dry			
BEA-MW2d	12/15/2014	15:40	Dry			
BEA-MW2d	1/13/2015	14:22	Dry			
BEA-MW2d	2/11/2015	12:21	Dry			
BEA-MW2d	3/13/2015	12:19	Dry			
BEA-MW2d	4/17/2015	11:05	Dry			
BEA-MW2d	5/13/2015	13:16	Dry			
BEA-MW2d	6/4/2015	13:57	Dry			
BEA-MW2d	7/21/2015	14:05	Dry			
BEA-MW2d	8/14/2015	16:26	Dry			
BEA-MW2d	9/14/2015	16:46	Dry			
BEA-MW2d	10/16/2015	15:39	Dry			
BEA-MW2d	11/18/2015	12:25	Dry			
BEA-MW2d	12/18/2015	16:16	Dry			
BEA-MW2d	1/16/2016	11:06	Dry			
BEA-MW2d	2/23/2016	14:20	Dry			
BEA-MW2d	3/19/2016	12:11	Dry			
BEA-MW2d	4/18/2016	11:33	Dry			
BEA-MW2d	5/18/2016	15:23	Dry			
BEA-MW2d	6/16/2016	15:19	Dry			
BEA-MW2d	7/22/2016	12:06	Dry			
BEA-MW2d	8/17/2016	12:13	Dry			
BEA-MW2d	9/16/2016	11:32	Dry			
BEA-MW2d	10/14/2016	11:53	Dry			
BEA-MW2d	11/29/2016	9:46	Dry			
BEA-MW2d	12/13/2016	11:04	Dry			
BEA-MW2d	1/26/2017	14:10	Dry			
BEA-MW2d	2/1/2017		N/M			
BEA-MW2d	3/16/2017	9:54	Dry			
BEA-MW2d	4/21/2017	10:59	Dry			
BEA-MW2d	5/19/2017	6:39	Dry			
BEA-MW2d	6/24/2017	13:50	Dry			
BEA-MW2d	7/14/2017	11:55	Dry			
BEA-MW2d	8/24/2017	10:18	Dry			
BEA-MW2d	9/23/2017	11:30	Dry			
BEA-MW2d	10/19/2017	16:32	37.51	61.39		
BEA-MW2d	11/20/2017	10:40	37.40	61.50		
BEA-MW2d	12/29/2017	16:25	Dry			
BEA-MW2d	1/22/2018	11:24	36.95	61.95		
BEA-MW2d	2/23/2018	11:20	37.49	61.41		
BEA-MW2d	3/1/2018		N/M			
BEA-MW2d	4/25/2018	14:31	Dry			
BEA-MW2d	5/14/2018	16:26	Dry			
BEA-MW2d	6/13/2018	17:04	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
BEA-MW2d	7/16/2018	14:40	Dry			
BEA-MW2d	8/20/2018	9:00	Dry			
BEA-MW2d	9/12/2018	12:33	Dry			
BEA-MW2d	10/25/2018	15:52	Dry			
BEA-MW2d	11/14/2018	9:05	Dry			
BEA-MW2d	12/14/2018	10:02	Dry			
BEA-MW2d	1/24/2019	12:28	Dry			
BEA-MW2d	2/25/2019	16:10	37.58	61.32		
BEA-MW2d	3/17/2019	12:35	36.48	62.42		
BEA-MW2d	4/15/2019	14:14	Dry			
BEA-MW2d	5/23/2019	11:40	Dry			
BEA-MW2d	6/20/2019	13:28	35.62	63.28		
BEA-MW2d	7/17/2019	13:05	Dry			
BEA-MW2d	8/23/2019	7:33	Dry			
BEA-MW2d	9/27/2019	11:04	Dry			
BEA-MW2d	10/25/2019	12:06	Dry			
BEA-MW2d	11/13/2019	8:22	Dry			
BEA-MW2d	12/14/2019	15:09	37.42	61.48		
BEA-MW2dd	11/12/2014	9:04	43.40	55.56		
BEA-MW2dd	12/15/2014	15:42	42.56	56.40		
BEA-MW2dd	1/13/2015	14:23	41.26	57.70		
BEA-MW2dd	2/11/2015	12:25	40.33	58.63		
BEA-MW2dd	3/13/2015	12:20	40.23	58.73		
BEA-MW2dd	4/17/2015	11:08	42.59	56.37		
BEA-MW2dd	5/13/2015	13:17	42.42	56.54		
BEA-MW2dd	6/4/2015	13:59	43.08	55.88		
BEA-MW2dd	7/21/2015	14:07	44.74	54.22		
BEA-MW2dd	8/14/2015	16:27	46.13	52.83		
BEA-MW2dd	9/14/2015	16:47	48.30	50.66		
BEA-MW2dd	10/16/2015	15:40	48.05	50.91		
BEA-MW2dd	11/18/2015	12:27	47.19	51.77		
BEA-MW2dd	12/18/2015	16:17	46.48	52.48		
BEA-MW2dd	1/16/2016	11:07	45.86	53.10		
BEA-MW2dd	2/23/2016	14:21	45.60	53.36		
BEA-MW2dd	3/19/2016	12:13	45.09	53.87		
BEA-MW2dd	4/18/2016	11:34	46.27	52.69		
BEA-MW2dd	5/18/2016	15:26	45.10	53.86		
BEA-MW2dd	6/16/2016	15:20	45.44	53.52		
BEA-MW2dd	7/22/2016	12:08	45.88	53.08		
BEA-MW2dd	8/17/2016	12:12	47.44	51.52		
BEA-MW2dd	9/16/2016	11:33	48.88	50.08		
BEA-MW2dd	10/14/2016	11:54	48.64	50.32		
BEA-MW2dd	11/29/2016	9:07	45.46	53.50		
BEA-MW2dd	12/13/2016	11:05	44.76	54.20		
BEA-MW2dd	1/26/2017	14:11	42.88	56.08		
BEA-MW2dd	2/1/2017		N/M			
BEA-MW2dd	3/16/2017	9:55	40.25	58.71		
BEA-MW2dd	4/21/2017	11:00	40.73	58.23		
BEA-MW2dd	5/19/2017	6:40	38.83	60.13		
BEA-MW2dd	6/24/2017	13:51	38.42	60.54		
BEA-MW2dd	7/14/2017	11:57	38.53	60.43		
BEA-MW2dd	8/24/2017	10:20	41.75	57.21		
BEA-MW2dd	9/23/2017	11:30	39.93	59.03		
BEA-MW2dd	10/19/2017	16:34	38.52	60.44		
BEA-MW2dd	11/20/2017	10:40	37.58	61.38		
BEA-MW2dd	12/29/2017	16:22	37.10	61.86		
BEA-MW2dd	1/22/2018	11:25	37.03	61.93		
BEA-MW2dd	2/23/2018	11:20	37.61	61.35		
BEA-MW2dd	3/1/2018		N/M			
BEA-MW2dd	4/25/2018	14:33	37.82	61.14		
BEA-MW2dd	5/14/2018	16:26	38.16	60.80		
BEA-MW2dd	6/13/2018	17:05	38.80	60.16		
BEA-MW2dd	7/16/2018	14:41	39.71	59.25		
BEA-MW2dd	8/20/2018	9:01	40.60	58.36		
BEA-MW2dd	9/12/2018	12:34	40.78	58.18		
BEA-MW2dd	10/25/2018	15:53	40.44	58.52		
BEA-MW2dd	11/14/2018	9:06	40.21	58.75		
BEA-MW2dd	12/14/2018	10:02	39.62	59.34		
BEA-MW2dd	1/24/2019	12:29	38.58	60.38		
BEA-MW2dd	2/25/2019	16:10	37.90	61.06		
BEA-MW2dd	3/17/2019	12:36	36.52	62.44		
BEA-MW2dd	4/15/2019	14:16	38.58	60.38		
BEA-MW2dd	5/23/2019	11:43	38.52	60.44		
BEA-MW2dd	6/20/2019	13:30	35.63	63.33		
BEA-MW2dd	7/17/2019	13:08	38.65	60.31		
BEA-MW2dd	8/23/2019	7:33	40.82	58.14		
BEA-MW2dd	9/27/2019	11:06	41.21	57.75		
BEA-MW2dd	10/25/2019	12:08	38.87	60.09		
BEA-MW2dd	11/13/2019	8:25	38.62	60.34		
BEA-MW2dd	12/14/2019	15:08	37.69	61.27		
BEA-MW3s	1/30/2012	13:14	17.30	77.93	0.22	0.01
BEA-MW3s	2/13/2012	10:19	17.92	77.31	-0.06	-0.00
BEA-MW3s	3/5/2012	11:37	18.55	76.68	<|0.05|	0
BEA-MW3s	4/9/2012	11:30	19.02	76.21	0.08	0.01
BEA-MW3s	5/14/2012	14:35	21.48	73.75	0.13	0.01
BEA-MW3s	6/21/2012	18:08	Dry			
BEA-MW3s	7/11/2012	10:31	Q/M			
BEA-MW3s	8/16/2012	12:41	Dry			
BEA-MW3s	9/20/2012	12:39	Dry			
BEA-MW3s	10/20/2012	11:43	Dry			
BEA-MW3s	12/9/2012	15:55	Dry			
BEA-MW3s	12/31/2012	13:40	Dry			
BEA-MW3s	1/15/2013	14:13	Dry			
BEA-MW3s	2/17/2013	14:00	23.62	71.61	-0.18	-0.01
BEA-MW3s	3/22/2013	12:45	25.90	69.33	0.11	0.01
BEA-MW3s	4/17/2013	13:19	Dry			
BEA-MW3s	6/2/2013	11:30	Dry			
BEA-MW3s	6/17/2013	14:36	Dry			
BEA-MW3s	7/15/2013	16:54	Dry			
BEA-MW3s	8/28/2013	9:58	Dry			
BEA-MW3s	9/9/2013	16:16	Dry			
BEA-MW3s	10/7/2013	15:45	Dry			
BEA-MW3s	11/18/2013	8:16	Dry			
BEA-MW3s	12/17/2013	16:17	Dry			
BEA-MW3s	1/14/2014	13:28	Dry			
BEA-MW3s	2/25/2014	9:00	Dry			
BEA-MW3s	3/17/2014	14:05	Dry			
BEA-MW3s	4/19/2014	12:31	Dry			
BEA-MW3s	5/27/2014	17:29	Dry			
BEA-MW3s	6/19/2014	18:01	Dry			
BEA-MW3s	7/17/2014	11:00	Dry			
BEA-MW3s	8/26/2014	12:00	Dry			
BEA-MW3s	9/19/2014	10:24	Dry			
BEA-MW3s	10/14/2014	11:59	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
BEA-MW3s	11/12/2014	9:17	Dry			
BEA-MW3s	12/15/2014	15:56	Dry			
BEA-MW3s	1/13/2015	14:33	Dry			
BEA-MW3s	2/11/2015	12:17	Dry			
BEA-MW3s	3/13/2015	12:37	Dry			
BEA-MW3s	4/17/2015	11:03	Dry			
BEA-MW3s	5/13/2015	13:08	Dry			
BEA-MW3s	6/4/2015	14:16	Dry			
BEA-MW3s	7/21/2015	14:25	Dry			
BEA-MW3s	8/14/2015	16:40	Dry			
BEA-MW3s	9/14/2015	16:35	Dry			
BEA-MW3s	10/16/2015	15:51	Dry			
BEA-MW3s	11/18/2015	12:36	Dry			
BEA-MW3s	12/18/2015	16:32	Dry			
BEA-MW3s	1/16/2016	11:15	Dry			
BEA-MW3s	2/23/2016	14:30	Dry			
BEA-MW3s	3/19/2016	12:31	Dry			
BEA-MW3s	4/18/2016	11:16	Dry			
BEA-MW3s	5/18/2016	15:17	Dry			
BEA-MW3s	6/16/2016	15:27	Dry			
BEA-MW3s	7/22/2016	12:21	Dry			
BEA-MW3s	8/17/2016	12:20	Dry			
BEA-MW3s	9/16/2016	11:17	Dry			
BEA-MW3s	10/14/2016	11:39	Dry			
BEA-MW3s	11/29/2016	9:58	Dry			
BEA-MW3s	12/13/2016	11:15	Dry			
BEA-MW3s	1/26/2017	14:22	Dry			
BEA-MW3s	2/1/2017		N/M			
BEA-MW3s	3/16/2017	9:48	Dry			
BEA-MW3s	4/21/2017	10:45	Dry			
BEA-MW3s	5/19/2017	6:33	Dry			
BEA-MW3s	6/24/2017	13:59	Dry			
BEA-MW3s	7/14/2017	12:07	Dry			
BEA-MW3s	8/24/2017	10:13	Dry			
BEA-MW3s	9/23/2017	11:17	Dry			
BEA-MW3s	10/19/2017	16:47	Dry			
BEA-MW3s	11/20/2017	10:45	Dry			
BEA-MW3s	12/29/2017	16:10	Dry			
BEA-MW3s	1/22/2018	11:11	Dry			
BEA-MW3s	2/23/2018	11:23	Dry			
BEA-MW3s	3/1/2018		N/M			
BEA-MW3s	4/25/2018	14:45	Dry			
BEA-MW3s	5/14/2018	16:30	Dry			
BEA-MW3s	6/13/2018	17:16	Dry			
BEA-MW3s	7/16/2018	14:58	Dry			
BEA-MW3s	8/20/2018	9:14	Dry			
BEA-MW3s	9/12/2018	12:44	Dry			
BEA-MW3s	10/25/2018	16:11	Dry			
BEA-MW3s	11/14/2018	8:58	Dry			
BEA-MW3s	12/14/2018	9:51	Dry			
BEA-MW3s	1/24/2019	12:21	Dry			
BEA-MW3s	2/25/2019	16:18	Dry			
BEA-MW3s	3/17/2019	12:19	Dry			
BEA-MW3s	4/15/2019	14:24	Dry			
BEA-MW3s	5/23/2019	11:32	Dry			
BEA-MW3s	6/20/2019	13:22	Dry			
BEA-MW3s	7/17/2019	13:19	Dry			
BEA-MW3s	8/23/2019	7:45	Dry			
BEA-MW3s	9/27/2019	10:43	Dry			
BEA-MW3s	10/25/2019	12:16	Dry			
BEA-MW3s	11/13/2019	8:08	Dry			
BEA-MW3s	12/14/2019	15:19	Dry			
BEA-MW3d	1/30/2012	13:15	17.43	77.71		
BEA-MW3d	2/13/2012	10:20	17.77	77.37		
BEA-MW3d	3/5/2012	11:39	18.50	76.64		
BEA-MW3d	4/9/2012	11:29	19.01	76.13		
BEA-MW3d	5/14/2012	14:36	21.52	73.62		
BEA-MW3d	6/21/2012	18:10	26.96	68.18		
BEA-MW3d	7/11/2012	10:31	29.63	65.51		
BEA-MW3d	8/16/2012	12:41	33.03	62.11		
BEA-MW3d	9/20/2012	12:39	33.00	62.14		
BEA-MW3d	10/20/2012	11:43	32.82	62.32		
BEA-MW3d	12/9/2012	15:55	31.49	63.65		
BEA-MW3d	12/31/2012	13:41	29.57	65.57		
BEA-MW3d	1/15/2013	14:13	28.20	66.94		
BEA-MW3d	2/17/2013	14:01	23.35	71.79		
BEA-MW3d	3/22/2013	12:45	25.92	69.22		
BEA-MW3d	4/17/2013	13:19	27.34	67.80		
BEA-MW3d	6/2/2013	11:30	31.21	63.93		
BEA-MW3d	6/17/2013	14:37	33.00	62.14		
BEA-MW3d	7/15/2013	16:54	35.48	59.66		
BEA-MW3d	8/28/2013	9:58	39.47	55.67		
BEA-MW3d	9/9/2013	16:16	40.24	54.90		
BEA-MW3d	10/7/2013	15:45	Dry			
BEA-MW3d	11/18/2013	8:16	Dry			
BEA-MW3d	12/17/2013	16:17	39.52	55.62		
BEA-MW3d	1/14/2014	13:28	39.38	55.76		
BEA-MW3d	2/25/2014	9:00	37.28	57.86		
BEA-MW3d	3/17/2014	14:05	35.97	59.17		
BEA-MW3d	4/19/2014	12:31	35.80	59.34		
BEA-MW3d	5/27/2014	17:29	Dry			
BEA-MW3d	6/19/2014	18:01	39.19	55.95		
BEA-MW3d	7/17/2014	11:00	Dry			
BEA-MW3d	8/26/2014	12:00	Dry			
BEA-MW3d	9/19/2014	10:24	Dry			
BEA-MW3d	10/14/2014	11:59	Dry			
BEA-MW3d	11/12/2014	9:17	Dry			
BEA-MW3d	12/15/2014	15:56	Dry			
BEA-MW3d	1/13/2015	14:33	Dry			
BEA-MW3d	2/11/2015	12:17	Dry			
BEA-MW3d	3/13/2015	12:37	Dry			
BEA-MW3d	4/17/2015	11:03	Dry			
BEA-MW3d	5/13/2015	13:08	Dry			
BEA-MW3d	6/4/2015	14:16	Dry			
BEA-MW3d	7/21/2015	14:25	Dry			
BEA-MW3d	8/14/2015	16:40	Dry			
BEA-MW3d	9/14/2015	16:36	Dry			
BEA-MW3d	10/16/2015	15:52	Dry			
BEA-MW3d	11/18/2015	12:37	Dry			
BEA-MW3d	12/18/2015	16:33	Dry			
BEA-MW3d	1/16/2016	11:16	Dry			
BEA-MW3d	2/23/2016	14:31	Dry			
BEA-MW3d	3/19/2016	12:31	Dry			
BEA-MW3d	4/18/2016	11:17	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
BEA-MW3d	5/18/2016	15:18	Dry			
BEA-MW3d	6/16/2016	15:28	Dry			
BEA-MW3d	7/22/2016	12:21	Dry			
BEA-MW3d	8/17/2016	12:19	Dry			
BEA-MW3d	9/16/2016	11:18	Dry			
BEA-MW3d	10/14/2016	11:40	Dry			
BEA-MW3d	11/29/2016	9:59	Dry			
BEA-MW3d	12/13/2016	11:16	Dry			
BEA-MW3d	1/26/2017	14:23	Dry			
BEA-MW3d	2/1/2017		N/M			
BEA-MW3d	3/16/2017	9:48	37.30	57.84		
BEA-MW3d	4/21/2017	10:46	34.95	60.19		
BEA-MW3d	5/19/2017	6:33	33.95	61.19		
BEA-MW3d	6/24/2017	14:00	33.80	61.34		
BEA-MW3d	7/14/2017	12:07	34.33	60.81		
BEA-MW3d	8/24/2017	10:13	36.03	59.11		
BEA-MW3d	9/23/2017	11:16	36.40	58.74		
BEA-MW3d	10/19/2017	16:48	36.05	59.09		
BEA-MW3d	11/20/2017	10:45	36.22	58.92		
BEA-MW3d	12/29/2017	16:11	36.69	58.45		
BEA-MW3d	1/22/2018	11:12	36.65	58.49		
BEA-MW3d	2/23/2018	11:23	36.96	58.18		
BEA-MW3d	3/1/2018		N/M			
BEA-MW3d	4/25/2018	14:46	35.32	59.82		
BEA-MW3d	5/14/2018	16:30	34.95	60.19		
BEA-MW3d	6/13/2018	17:15	36.61	58.53		
BEA-MW3d	7/16/2018	14:59	38.32	56.82		
BEA-MW3d	8/20/2018	9:14	39.02	56.12		
BEA-MW3d	9/12/2018	12:44	39.41	55.73		
BEA-MW3d	10/25/2018	16:12	39.95	55.19		
BEA-MW3d	11/14/2018	8:58	40.05	55.09		
BEA-MW3d	12/14/2018	9:50	40.08	55.06		
BEA-MW3d	1/24/2019	12:22	37.92	57.22		
BEA-MW3d	2/25/2019	16:18	35.41	59.73		
BEA-MW3d	3/17/2019	12:20	34.20	60.94		
BEA-MW3d	4/15/2019	14:24	33.70	61.44		
BEA-MW3d	5/23/2019	11:32	33.86	61.28		
BEA-MW3d	6/20/2019	13:22	33.63	61.51		
BEA-MW3d	7/17/2019	13:19	34.24	60.90		
BEA-MW3d	8/23/2019	7:45	35.25	59.89		
BEA-MW3d	9/27/2019	10:43	35.33	59.81		
BEA-MW3d	10/25/2019	12:16	35.95	59.19		
BEA-MW3d	11/13/2019	8:08	36.72	58.42		
BEA-MW3d	12/14/2019	15:20	37.20	57.94		
BEA-MW4s	1/30/2012	13:28	20.73	78.74	<|0.05|	0
BEA-MW4s	2/13/2012	9:56	21.96	77.51	<|0.05|	0
BEA-MW4s	3/5/2012	11:41	26.58	72.89	0.12	0.01
BEA-MW4s	4/9/2012	11:26	25.60	73.87	-0.07	-0.00
BEA-MW4s	5/14/2012	14:12	28.63	70.84	-0.11	-0.01
BEA-MW4s	6/21/2012	18:05	32.02	67.45	-0.12	-0.01
BEA-MW4s	7/11/2012	10:27	35.22	64.25	0.17	0.01
BEA-MW4s	8/16/2012	12:47	37.65	61.82	0.09	0.00
BEA-MW4s	9/20/2012	12:43	36.66	62.81	0.11	0.01
BEA-MW4s	10/20/2012	11:39	35.77	63.70	0.16	0.01
BEA-MW4s	12/9/2012	15:51	32.22	67.25	<|0.05|	0
BEA-MW4s	12/31/2012	13:36	30.88	68.59	<|0.05|	0
BEA-MW4s	1/15/2013	14:06	29.90	69.57	<|0.05|	0
BEA-MW4s	2/17/2013	13:53	26.80	72.67	<|0.05|	0
BEA-MW4s	3/22/2013	12:40	28.80	70.67	<|0.05|	0
BEA-MW4s	4/17/2013	13:15	30.49	68.98	<|0.05|	0
BEA-MW4s	6/2/2013	11:26	33.78	65.69	<|0.05|	0
BEA-MW4s	6/17/2013	14:31	35.16	64.31	<|0.05|	0
BEA-MW4s	7/15/2013	16:50	Dry			
BEA-MW4s	8/28/2013	9:53	Dry			
BEA-MW4s	9/9/2013	16:11	Dry			
BEA-MW4s	10/7/2013	15:40	Dry			
BEA-MW4s	11/18/2013	8:12	Dry			
BEA-MW4s	12/17/2013	16:10	Dry			
BEA-MW4s	1/14/2014	13:24	Dry			
BEA-MW4s	2/25/2014	8:53	Dry			
BEA-MW4s	3/17/2014	14:01	Dry			
BEA-MW4s	4/19/2014	12:28	Dry			
BEA-MW4s	5/27/2014	17:24	Dry			
BEA-MW4s	6/19/2014	17:58	Dry			
BEA-MW4s	7/17/2014	10:56	Dry			
BEA-MW4s	8/26/2014	11:56	Dry			
BEA-MW4s	9/19/2014	10:29	Dry			
BEA-MW4s	10/14/2014	11:55	Dry			
BEA-MW4s	11/12/2014	9:11	Dry			
BEA-MW4s	12/15/2014	15:45	Dry			
BEA-MW4s	1/13/2015	14:29	Dry			
BEA-MW4s	2/11/2015	12:19	Dry			
BEA-MW4s	3/13/2015	12:32	Dry			
BEA-MW4s	4/17/2015	10:59	Dry			
BEA-MW4s	5/13/2015	13:11	Dry			
BEA-MW4s	6/4/2015	14:06	Dry			
BEA-MW4s	7/21/2015	14:17	Dry			
BEA-MW4s	8/14/2015	16:34	Dry			
BEA-MW4s	9/14/2015	16:30	Dry			
BEA-MW4s	10/16/2015	15:45	Dry			
BEA-MW4s	11/18/2015	12:31	Dry			
BEA-MW4s	12/18/2015	16:22	Dry			
BEA-MW4s	1/16/2016	11:11	Dry			
BEA-MW4s	2/23/2016	14:26	Dry			
BEA-MW4s	3/19/2016	12:21	Dry			
BEA-MW4s	4/18/2016	11:10	Dry			
BEA-MW4s	5/18/2016	15:20	Dry			
BEA-MW4s	6/16/2016	15:24	Dry			
BEA-MW4s	7/22/2016	12:15	Dry			
BEA-MW4s	8/17/2016	12:17	Dry			
BEA-MW4s	9/16/2016	11:13	Dry			
BEA-MW4s	10/14/2016	11:32	Dry			
BEA-MW4s	11/29/2016	9:52	Dry			
BEA-MW4s	12/13/2016	11:10	Dry			
BEA-MW4s	1/26/2017	14:17	Dry			
BEA-MW4s	2/1/2017		N/M			
BEA-MW4s	3/16/2017	9:50	Dry			
BEA-MW4s	4/21/2017	10:42	Dry			
BEA-MW4s	5/19/2017	6:37	Dry			
BEA-MW4s	6/24/2017	13:54	Dry			
BEA-MW4s	7/14/2017	12:03	Dry			
BEA-MW4s	8/24/2017	10:15	Dry			
BEA-MW4s	9/23/2017	11:12	Dry			
BEA-MW4s	10/19/2017	16:37	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
BEA-MW4s	11/20/2017	10:51	Dry			
BEA-MW4s	12/29/2017	16:00	Dry			
BEA-MW4s	1/22/2018	11:06	Dry			
BEA-MW4s	2/23/2018	11:21	Dry			
BEA-MW4s	3/1/2018		N/M			
BEA-MW4s	4/25/2018	14:38	Dry			
BEA-MW4s	5/14/2018	16:33	Dry			
BEA-MW4s	6/13/2018	17:11	Dry			
BEA-MW4s	7/16/2018	14:46	Dry			
BEA-MW4s	8/20/2018	9:08	Dry			
BEA-MW4s	9/12/2018	12:41	Dry			
BEA-MW4s	10/25/2018	15:56	Dry			
BEA-MW4s	11/14/2018	9:01	Dry			
BEA-MW4s	12/14/2018	9:44	Dry			
BEA-MW4s	1/24/2019	12:10	Dry			
BEA-MW4s	2/25/2019	16:15	Dry			
BEA-MW4s	3/17/2019	12:17	Dry			
BEA-MW4s	4/15/2019	14:20	Dry			
BEA-MW4s	5/23/2019	11:36	Dry			
BEA-MW4s	6/20/2019	13:18	Dry			
BEA-MW4s	7/17/2019	13:14	Dry			
BEA-MW4s	8/23/2019	7:39	Dry			
BEA-MW4s	9/27/2019	10:38	Dry			
BEA-MW4s	10/25/2019	12:12	Dry			
BEA-MW4s	11/13/2019	8:14	Dry			
BEA-MW4s	12/14/2019	15:16	Dry			
BEA-MW4d	1/30/2012	13:30	20.55	78.75		
BEA-MW4d	2/13/2012	9:57	21.74	77.56		
BEA-MW4d	3/5/2012	11:43	26.53	72.77		
BEA-MW4d	4/9/2012	11:25	25.36	73.94		
BEA-MW4d	5/14/2012	14:14	28.35	70.95		
BEA-MW4d	6/21/2012	18:06	31.73	67.57		
BEA-MW4d	7/11/2012	10:27	35.22	64.08		
BEA-MW4d	8/16/2012	12:47	37.57	61.73		
BEA-MW4d	9/20/2012	12:43	36.60	62.70		
BEA-MW4d	10/20/2012	11:39	35.76	63.54		
BEA-MW4d	12/9/2012	15:51	32.05	67.25		
BEA-MW4d	12/31/2012	13:37	30.71	68.59		
BEA-MW4d	1/15/2013	14:06	29.72	69.58		
BEA-MW4d	2/17/2013	13:54	26.63	72.67		
BEA-MW4d	3/22/2013	12:40	28.64	70.66		
BEA-MW4d	4/17/2013	13:15	30.33	68.97		
BEA-MW4d	6/2/2013	11:26	33.65	65.65		
BEA-MW4d	6/17/2013	14:32	34.98	64.32		
BEA-MW4d	7/15/2013	16:50	39.78	59.52		
BEA-MW4d	8/28/2013	9:53	43.78	55.52		
BEA-MW4d	9/9/2013	16:11	44.27	55.03		
BEA-MW4d	10/7/2013	15:40	41.35	57.95		
BEA-MW4d	11/18/2013	8:12	41.57	57.73		
BEA-MW4d	12/17/2013	16:10	41.28	58.02		
BEA-MW4d	1/14/2014	13:24	43.19	56.11		
BEA-MW4d	2/25/2014	8:53	42.65	56.65		
BEA-MW4d	3/17/2014	14:01	42.37	56.93		
BEA-MW4d	4/19/2014	12:28	41.55	57.75		
BEA-MW4d	5/27/2014	17:24	40.43	58.87		
BEA-MW4d	6/19/2014	17:58	43.84	55.46		
BEA-MW4d	7/17/2014	10:56	45.33	53.97		
BEA-MW4d	8/26/2014	11:56	45.45	53.85		
BEA-MW4d	9/19/2014	10:29	45.15	54.15		
BEA-MW4d	10/14/2014	11:55	46.73	52.57		
BEA-MW4d	11/12/2014	9:11	46.82	52.48		
BEA-MW4d	12/15/2014	15:45	45.32	53.98		
BEA-MW4d	1/13/2015	14:29	43.62	55.68		
BEA-MW4d	2/11/2015	12:19	44.00	55.30		
BEA-MW4d	3/13/2015	12:32	45.10	54.20		
BEA-MW4d	4/17/2015	10:59	46.33	52.97		
BEA-MW4d	5/13/2015	13:11	47.22	52.08		
BEA-MW4d	6/4/2015	14:06	47.78	51.52		
BEA-MW4d	7/21/2015	14:17	49.56	49.74		
BEA-MW4d	8/14/2015	16:34	50.21	49.09		
BEA-MW4d	9/14/2015	16:31	51.57	47.73		
BEA-MW4d	10/16/2015	15:46	50.19	49.11		
BEA-MW4d	11/18/2015	12:32	48.91	50.39		
BEA-MW4d	12/18/2015	16:23	48.45	50.85		
BEA-MW4d	1/16/2016	11:12	47.91	51.39		
BEA-MW4d	2/23/2016	14:27	48.96	50.34		
BEA-MW4d	3/19/2016	12:21	48.68	50.62		
BEA-MW4d	4/18/2016	11:11	49.07	50.23		
BEA-MW4d	5/18/2016	15:19	48.74	50.56		
BEA-MW4d	6/16/2016	15:25	49.03	50.27		
BEA-MW4d	7/22/2016	12:15	49.86	49.44		
BEA-MW4d	8/17/2016	12:16	50.41	48.89		
BEA-MW4d	9/16/2016	11:14	51.20	48.10		
BEA-MW4d	10/14/2016	11:33	50.41	48.89		
BEA-MW4d	11/29/2016	9:53	47.50	51.80		
BEA-MW4d	12/13/2016	11:11	47.07	52.23		
BEA-MW4d	1/26/2017	14:16	45.23	54.07		
BEA-MW4d	2/1/2017		N/M			
BEA-MW4d	3/16/2017	9:50	43.31	55.99		
BEA-MW4d	4/21/2017	10:43	42.36	56.94		
BEA-MW4d	5/19/2017	6:37	42.63	56.67		
BEA-MW4d	6/24/2017	13:55	40.23	59.07		
BEA-MW4d	7/14/2017	12:03	42.09	57.21		
BEA-MW4d	8/24/2017	10:15	44.85	54.45		
BEA-MW4d	9/23/2017	11:11	44.43	54.87		
BEA-MW4d	10/19/2017	16:38	40.40	58.90		
BEA-MW4d	11/20/2017	10:51	39.59	59.71		
BEA-MW4d	12/29/2017	16:02	39.40	59.90		
BEA-MW4d	1/22/2018	11:07	39.25	60.05		
BEA-MW4d	2/23/2018	11:21	40.74	58.56		
BEA-MW4d	3/1/2018		N/M			
BEA-MW4d	4/25/2018	14:38	42.08	57.22		
BEA-MW4d	5/14/2018	16:33	42.62	56.68		
BEA-MW4d	6/13/2018	17:10	42.64	56.66		
BEA-MW4d	7/16/2018	14:46	44.72	54.58		
BEA-MW4d	8/20/2018	9:08	46.07	53.23		
BEA-MW4d	9/12/2018	12:41	46.37	52.93		
BEA-MW4d	10/25/2018	15:57	43.55	55.75		
BEA-MW4d	11/14/2018	9:01	42.98	56.32		
BEA-MW4d	12/14/2018	9:45	42.56	56.74		
BEA-MW4d	1/24/2019	12:11	41.11	58.19		
BEA-MW4d	2/25/2019	16:15	40.35	58.95		
BEA-MW4d	3/17/2019	12:16	39.76	59.54		
BEA-MW4d	4/15/2019	14:20	41.39	57.91		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
BEA-MW4d	5/23/2019	11:36	39.72	59.58		
BEA-MW4d	6/20/2019	13:18	40.70	58.60		
BEA-MW4d	7/17/2019	13:14	40.43	58.87		
BEA-MW4d	8/23/2019	7:39	43.56	55.74		
BEA-MW4d	9/27/2019	10:38	43.47	55.83		
BEA-MW4d	10/25/2019	12:12	40.45	58.85		
BEA-MW4d	11/13/2019	8:14	41.37	57.93		
BEA-MW4d	12/14/2019	15:15	40.32	58.98		
COT-MW1	1/30/2012	10:40	30.35	83.64		
COT-MW1	2/16/2012	11:45	Dry			
COT-MW1	3/5/2012	11:55	30.49	83.50		
COT-MW1	4/9/2012	12:47	30.63	83.36		
COT-MW1	5/15/2012	11:45	Dry			
COT-MW1	6/21/2012	17:44	Dry			
COT-MW1	7/11/2012	10:47	Dry			
COT-MW1	8/16/2012	11:00	Dry			
COT-MW1	9/20/2012	13:04	29.81	84.18		
COT-MW1	10/20/2012	12:02	29.75	84.24		
COT-MW1	12/9/2012	10:02	31.43	84.18		
COT-MW1	12/31/2012	13:55	31.09	84.52		
COT-MW1	1/15/2013	14:30	30.89	84.72		
COT-MW1	2/17/2013	17:43	31.55	84.06		
COT-MW1	3/24/2013	11:10	31.85	83.76		
COT-MW1	4/17/2013	13:45	Dry			
COT-MW1	6/2/2013	8:59	32.60	83.01		
COT-MW1	6/17/2013	14:55	Dry			
COT-MW1	7/16/2013	10:34	33.11	82.50		
COT-MW1	8/28/2013	11:31	Dry			
COT-MW1	9/9/2013	16:41	33.14	82.47		
COT-MW1	10/7/2013	15:59	Dry			
COT-MW1	11/15/2013	8:27	32.13	83.48		
COT-MW1	12/18/2013	13:00	Dry			
COT-MW1	1/14/2014	13:09	33.16	82.45		
COT-MW1	2/20/2014	9:40	Dry			
COT-MW1	3/17/2014	14:29	33.15	82.46		
COT-MW1	4/19/2014	12:52	33.11	82.50		
COT-MW1	5/27/2014	7:38	Dry			
COT-MW1	6/19/2014	18:37	Dry			
COT-MW1	7/17/2014	8:49	Dry			
COT-MW1	8/26/2014	12:56	Dry			
COT-MW1	9/19/2014	10:11	Dry			
COT-MW1	10/14/2014	12:14	Dry			
COT-MW1	11/12/2014	11:16	Dry			
COT-MW1	12/14/2014	16:06	33.12	82.49		
COT-MW1	1/13/2015	15:00	Dry			
COT-MW1	2/11/2015	14:06	Dry			
COT-MW1	3/13/2015	13:02	Dry			
COT-MW1	4/17/2015	11:20	Dry			
COT-MW1	5/14/2015	12:48	Dry			
COT-MW1	6/4/2015	14:27	Dry			
COT-MW1	7/21/2015	10:29	Dry			
COT-MW1	8/14/2015	13:40	Dry			
COT-MW1	9/14/2015	17:01	Dry			
COT-MW1	10/16/2015	16:17	Dry			
COT-MW1	11/20/2015	13:29	Dry			
COT-MW1	12/18/2015	13:56	Dry			
COT-MW1	1/16/2016	11:37	Dry			
COT-MW1	2/23/2016	16:23	Dry			
COT-MW1	3/19/2016	13:06	Dry			
COT-MW1	4/18/2016	10:33	Dry			
COT-MW1	5/18/2016	11:42	Dry			
COT-MW1	6/16/2016	15:51	Dry			
COT-MW1	7/22/2016	12:45	Dry			
COT-MW1	8/17/2016	13:12	Dry			
COT-MW1	9/16/2016	9:26	Dry			
COT-MW1	10/14/2016	9:40	Dry			
COT-MW1	11/29/2016	11:53	Dry			
COT-MW1	12/13/2016	11:39	Dry			
COT-MW1	1/26/2017	14:53	Dry			
COT-MW1	2/1/2017		N/M			
COT-MW1	3/16/2017	12:19	Dry			
COT-MW1	4/21/2017	8:58	Dry			
COT-MW1	5/19/2017	10:03	Dry			
COT-MW1	6/24/2017	14:19	Dry			
COT-MW1	7/14/2017	12:35	Dry			
COT-MW1	8/29/2017	7:48	Dry			
COT-MW1	9/23/2017	9:20	Dry			
COT-MW1	10/20/2017	14:47	Dry			
COT-MW1	11/17/2017	10:42	Dry			
COT-MW1	12/29/2017	14:33	Dry			
COT-MW1	1/22/2018	10:51	Dry			
COT-MW1	2/23/2018	13:29	Dry			
COT-MW1	3/1/2018		N/M			
COT-MW1	4/25/2018	15:12	Dry			
COT-MW1	5/14/2018	9:08	Dry			
COT-MW1	6/13/2018	17:32	Dry			
COT-MW1	7/16/2018	15:08	Dry			
COT-MW1	8/21/2018	11:59	Dry			
COT-MW1	9/12/2018	13:02	Dry			
COT-MW1	10/25/2018	16:24	Dry			
COT-MW1	11/14/2018	11:00	Dry			
COT-MW1	12/14/2018	10:15	Dry			
COT-MW1	1/24/2019	10:12	Dry			
COT-MW1	3/1/2019	8:25	Dry			
COT-MW1	3/17/2019	12:06	Dry			
COT-MW1	4/15/2019	14:57	Dry			
COT-MW1	5/24/2019	10:00	Dry			
COT-MW1	6/20/2019	13:45	Dry			
COT-MW1	7/17/2019	13:35	Dry			
COT-MW1	8/23/2019	9:10	Dry			
COT-MW1	9/27/2019	8:48	Dry			
COT-MW1	10/25/2019	12:32	Dry			
COT-MW1	11/13/2019	10:42	Dry			
COT-MW1	12/14/2019	15:36	Dry			
COT-MW1d	11/12/2014	11:17	38.05	75.90		
COT-MW1d	12/14/2014	16:06	37.57	76.38		
COT-MW1d	1/13/2015	15:01	37.68	76.27		
COT-MW1d	2/11/2015	14:06	38.93	75.02		
COT-MW1d	3/13/2015	13:03	40.28	73.67		
COT-MW1d	4/17/2015	11:20	41.82	72.13		
COT-MW1d	5/14/2015	12:48	42.87	71.08		
COT-MW1d	6/4/2015	14:27	44.33	69.62		
COT-MW1d	7/21/2015	13:54	47.52	66.43		
COT-MW1d	8/14/2015	13:42	47.95	66.00		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
COT-MW1d	9/14/2015	17:02	47.64	66.31		
COT-MW1d	10/16/2015	16:18	46.16	67.79		
COT-MW1d	11/20/2015	13:30	44.16	69.79		
COT-MW1d	12/18/2015	13:57	43.53	70.42		
COT-MW1d	1/16/2016	11:38	43.43	70.52		
COT-MW1d	2/23/2016	16:24	44.07	69.88		
COT-MW1d	3/19/2016	13:08	44.44	69.51		
COT-MW1d	4/18/2016	10:34	44.75	69.20		
COT-MW1d	5/18/2016	11:43	45.10	68.85		
COT-MW1d	6/16/2016	15:52	46.37	67.58		
COT-MW1d	7/22/2016	12:47	48.87	65.08		
COT-MW1d	8/17/2016	13:12	49.50	64.45		
COT-MW1d	9/16/2016	9:27	49.67	64.28		
COT-MW1d	10/14/2016	9:41	49.40	64.55		
COT-MW1d	11/29/2016	11:54	47.54	66.41		
COT-MW1d	12/13/2016	11:40	47.43	66.52		
COT-MW1d	1/26/2017	14:54	46.34	67.61		
COT-MW1d	2/1/2017		N/M			
COT-MW1d	3/16/2017	12:20	48.06	65.89		
COT-MW1d	4/21/2017	9:59	46.31	67.64		
COT-MW1d	5/19/2017	10:03	47.57	66.38		
COT-MW1d	6/24/2017	14:20	49.20	64.75		
COT-MW1d	7/14/2017	12:35	49.85	64.10		
COT-MW1d	8/29/2017	7:48	49.62	64.33		
COT-MW1d	9/23/2017	9:21	48.95	65.00		
COT-MW1d	10/20/2017	14:48	48.08	65.87		
COT-MW1d	11/17/2017	10:43	48.40	65.55		
COT-MW1d	12/29/2017	14:35	49.45	64.50		
COT-MW1d	1/22/2018	10:52	47.45	66.50		
COT-MW1d	2/23/2018	13:30	49.39	64.56		
COT-MW1d	3/1/2018		N/M			
COT-MW1d	4/25/2018	15:13	47.00	66.95		
COT-MW1d	5/14/2018	9:08	48.39	65.56		
COT-MW1d	6/13/2018	17:33	49.83	64.12		
COT-MW1d	7/16/2018	15:09	51.46	62.49		
COT-MW1d	8/21/2018	11:59	Dry			
COT-MW1d	9/12/2018	13:03	Dry			
COT-MW1d	10/25/2018	16:25	Dry			
COT-MW1d	11/14/2018	11:00	Dry			
COT-MW1d	12/14/2018	10:16	49.95	64.00		
COT-MW1d	1/24/2019	10:13	48.24	65.71		
COT-MW1d	3/1/2019	8:25	47.51	66.44		
COT-MW1d	3/17/2019	12:07	47.18	66.77		
COT-MW1d	4/15/2019	14:57	47.78	66.17		
COT-MW1d	5/24/2019	10:00	48.85	65.10		
COT-MW1d	6/20/2019	13:47	50.15	63.80		
COT-MW1d	7/17/2019	13:35	51.68	62.27		
COT-MW1d	8/23/2019	9:10	Dry			
COT-MW1d	9/27/2019	8:48	Dry			
COT-MW1d	10/25/2019	12:32	51.78	62.17		
COT-MW1d	11/13/2019	10:42	Dry			
COT-MW1d	12/14/2019	15:37	49.91	64.04		
COT-MW2	1/30/2012	10:41	24.61	90.76		
COT-MW2	2/16/2012	15:55	24.37	91.00		
COT-MW2	3/5/2012	11:57	24.32	91.05		
COT-MW2	4/9/2012	12:50	24.31	91.06		
COT-MW2	5/15/2012	11:52	25.00	90.37		
COT-MW2	6/21/2012	17:50	25.96	89.41		
COT-MW2	7/11/2012	11:32	27.15	88.22		
COT-MW2	8/16/2012	11:04	Dry			
COT-MW2	9/20/2012	13:38	28.90	86.47		
COT-MW2	10/20/2012	12:29	28.77	86.60		
COT-MW2	12/9/2012	10:09	31.21	85.89		
COT-MW2	12/31/2012	14:09	30.82	86.28		
COT-MW2	1/15/2013	14:59	30.58	86.52		
COT-MW2	2/17/2013	17:49	30.15	86.95		
COT-MW2	3/24/2013	11:07	30.27	86.83		
COT-MW2	4/17/2013	14:23	31.18	85.92		
COT-MW2	6/2/2013	8:55	32.66	84.44		
COT-MW2	6/17/2013	16:55	33.81	83.29		
COT-MW2	7/16/2013	12:25	35.18	81.92		
COT-MW2	8/28/2013	11:26	35.31	81.79		
COT-MW2	9/9/2013	16:36	35.05	82.05		
COT-MW2	10/7/2013	16:02	34.25	82.85		
COT-MW2	11/15/2013	8:33	34.20	82.90		
COT-MW2	12/18/2013	13:04	34.02	83.08		
COT-MW2	1/14/2014	13:13	33.63	83.47		
COT-MW2	2/20/2014	9:44	34.43	82.67		
COT-MW2	3/17/2014	14:23	34.12	82.98		
COT-MW2	4/19/2014	12:49	34.54	82.56		
COT-MW2	5/27/2014	7:31	Dry			
COT-MW2	6/19/2014	18:33	Dry			
COT-MW2	7/17/2014	8:59	Dry			
COT-MW2	8/26/2014	12:50	Dry			
COT-MW2	9/19/2014	10:06	Dry			
COT-MW2	10/14/2014	12:17	Dry			
COT-MW2	11/12/2014	11:12	Dry			
COT-MW2	12/14/2014	14:11	Dry			
COT-MW2	1/13/2015	14:56	Dry			
COT-MW2	2/11/2015	14:10	Dry			
COT-MW2	3/13/2015	13:06	Dry			
COT-MW2	4/17/2015	11:22	Dry			
COT-MW2	5/14/2015	12:40	Dry			
COT-MW2	6/4/2015	14:30	Dry			
COT-MW2	7/21/2015	10:47	Dry			
COT-MW2	8/14/2015	13:34	Dry			
COT-MW2	9/14/2015	18:54	Dry			
COT-MW2	10/16/2015	17:30	Dry			
COT-MW2	11/20/2015	13:22	Dry			
COT-MW2	12/18/2015	15:23	Dry			
COT-MW2	1/16/2016	13:03	Dry			
COT-MW2	2/23/2016	17:16	Dry			
COT-MW2	3/19/2016	12:56	Dry			
COT-MW2	4/18/2016	10:53	Dry			
COT-MW2	5/18/2016	11:35	Dry			
COT-MW2	6/16/2016	16:46	Dry			
COT-MW2	7/22/2016	14:37	Dry			
COT-MW2	8/17/2016	13:06	Dry			
COT-MW2	9/16/2016	10:22	Dry			
COT-MW2	10/14/2016	10:33	Dry			
COT-MW2	11/29/2016	11:59	Dry			
COT-MW2	12/13/2016	12:41	Dry			
COT-MW2	1/26/2017	15:53	Dry			
COT-MW2	2/1/2017		N/M			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
COT-MW2	3/16/2017	12:13	Dry			
COT-MW2	4/21/2017	9:45	Dry			
COT-MW2	5/19/2017	10:01	Dry			
COT-MW2	6/24/2017	15:07	Dry			
COT-MW2	7/14/2017	12:38	Dry			
COT-MW2	8/29/2017	7:45	Dry			
COT-MW2	9/23/2017	10:15	Dry			
COT-MW2	10/20/2017	15:36	Dry			
COT-MW2	11/17/2017	10:00	Dry			
COT-MW2	12/29/2017	14:41	Dry			
COT-MW2	1/22/2018	9:40	Dry			
COT-MW2	2/23/2018	13:27	Dry			
COT-MW2	3/1/2018		N/M			
COT-MW2	4/25/2018	15:04	Dry			
COT-MW2	5/14/2018	8:54	Dry			
COT-MW2	6/13/2018	18:21	Dry			
COT-MW2	7/16/2018	15:56	Dry			
COT-MW2	8/21/2018	12:02	Dry			
COT-MW2	9/12/2018	13:06	Dry			
COT-MW2	10/25/2018	17:16	Dry			
COT-MW2	11/14/2018	11:04	Dry			
COT-MW2	12/14/2018	11:15	Dry			
COT-MW2	1/24/2019	10:07	Dry			
COT-MW2	3/1/2019	8:04	Dry			
COT-MW2	3/17/2019	11:26	Dry			
COT-MW2	4/15/2019	15:01	Dry			
COT-MW2	5/24/2019	10:04	Dry			
COT-MW2	6/20/2019	13:50	Dry			
COT-MW2	7/17/2019	13:39	Dry			
COT-MW2	8/23/2019	9:14	Dry			
COT-MW2	9/27/2019	8:53	Dry			
COT-MW2	10/25/2019	12:35	Dry			
COT-MW2	11/13/2019	10:46	Dry			
COT-MW2	12/14/2019	16:18	Dry			
COT-MW3	1/30/2012	10:43	17.39	95.39		
COT-MW3	2/16/2012	15:08	17.45	95.33		
COT-MW3	3/5/2012	12:00	17.36	95.42		
COT-MW3	4/9/2012	12:55	18.10	94.68		
COT-MW3	5/15/2012	12:14	18.79	93.99		
COT-MW3	6/21/2012	17:38	18.08	94.70		
COT-MW3	7/11/2012	11:37	19.55	93.23		
COT-MW3	8/16/2012	11:08	19.05	93.73		
COT-MW3	9/20/2012	13:41	19.00	93.78		
COT-MW3	10/20/2012	12:35	20.10	92.68		
COT-MW3	12/9/2012	9:35	22.63	92.24		
COT-MW3	12/31/2012	14:23	22.35	92.52		
COT-MW3	1/15/2013	15:03	22.12	92.75		
COT-MW3	2/17/2013	15:37	21.50	93.37		
COT-MW3	3/24/2013	11:00	21.32	93.55		
COT-MW3	4/17/2013	14:30	22.28	92.59		
COT-MW3	6/2/2013	10:09	23.91	90.96		
COT-MW3	6/17/2013	16:08	24.31	90.56		
COT-MW3	7/16/2013	11:40	25.26	89.61		
COT-MW3	8/28/2013	12:11	26.33	88.54		
COT-MW3	9/9/2013	17:17	26.58	88.29		
COT-MW3	10/7/2013	16:53	27.32	87.55		
COT-MW3	11/15/2013	8:42	27.90	86.97		
COT-MW3	12/18/2013	13:17	27.93	86.94		
COT-MW3	1/14/2014	12:39	Dry			
COT-MW3	2/20/2014	9:54	Dry			
COT-MW3	3/17/2014	15:03	Dry			
COT-MW3	4/19/2014	13:27	Dry			
COT-MW3	5/27/2014	8:11	Dry			
COT-MW3	6/19/2014	19:12	N/M			
COT-MW3	7/17/2014	9:32	N/M			
COT-MW3	8/26/2014	13:27	N/M			
COT-MW3	9/19/2014	10:00	N/M			
COT-MW3	10/14/2014		N/M			
COT-MW3	11/12/2014	12:00	N/M			
COT-MW3	12/14/2014		N/M			
COT-MW3	1/13/2015		N/M			
COT-MW3	2/11/2015		N/M			
COT-MW3	3/13/2015		N/M			
COT-MW3	4/17/2015		N/M			
COT-MW3	5/14/2015		N/M			
COT-MW3	6/4/2015	14:32	N/M			
COT-MW3	7/21/2015		N/M			
COT-MW3	8/14/2015	12:36	Dry			
COT-MW3	9/14/2015	17:45	Dry			
COT-MW3	10/16/2015	17:42	Dry			
COT-MW3	11/20/2015	13:18	Dry			
COT-MW3	12/18/2015	15:36	Dry			
COT-MW3	1/16/2016	13:09	Dry			
COT-MW3	2/23/2016	17:11	Dry			
COT-MW3	3/19/2016	13:49	Dry			
COT-MW3	4/18/2016	10:55	Dry			
COT-MW3	5/18/2016	11:37	Dry			
COT-MW3	6/16/2016	16:49	Dry			
COT-MW3	7/22/2016	13:22	Dry			
COT-MW3	8/17/2016	13:44	Dry			
COT-MW3	9/16/2016	10:17	Dry			
COT-MW3	10/14/2016	10:39	Dry			
COT-MW3	11/29/2016	12:05	Dry			
COT-MW3	12/13/2016	12:43	Dry			
COT-MW3	1/26/2017	16:06	Dry			
COT-MW3	2/1/2017		N/M			
COT-MW3	3/16/2017	12:10	Dry			
COT-MW3	4/21/2017	9:55	Dry			
COT-MW3	5/19/2017	9:50	Dry			
COT-MW3	6/24/2017	15:10	Dry			
COT-MW3	7/14/2017	12:43	Dry			
COT-MW3	8/29/2017	7:41	Dry			
COT-MW3	9/23/2017	10:18	Dry			
COT-MW3	10/20/2017	15:43	Dry			
COT-MW3	11/17/2017	10:05	Dry			
COT-MW3	12/29/2017	14:46	Dry			
COT-MW3	1/22/2018	9:54	Dry			
COT-MW3	2/23/2018	13:28	Dry			
COT-MW3	3/1/2018		N/M			
COT-MW3	4/25/2018	15:56	Dry			
COT-MW3	5/14/2018	8:50	Dry			
COT-MW3	6/13/2018	18:35	Dry			
COT-MW3	7/16/2018	16:04	Dry			
COT-MW3	8/21/2018	12:06	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
COT-MW3	9/12/2018	13:10	Dry			
COT-MW3	10/25/2018	17:18	Dry			
COT-MW3	11/14/2018	11:08	Dry			
COT-MW3	12/14/2018	11:19	Dry			
COT-MW3	1/24/2019	11:11	Dry			
COT-MW3	3/1/2019	7:58	Dry			
COT-MW3	3/17/2019	11:20	Dry			
COT-MW3	4/15/2019	15:06	Dry			
COT-MW3	5/24/2019	10:08	Dry			
COT-MW3	6/20/2019	13:54	Dry			
COT-MW3	7/17/2019	13:41	Dry			
COT-MW3	8/23/2019	9:17	Dry			
COT-MW3	9/27/2019	8:57	Dry			
COT-MW3	10/25/2019	12:39	Dry			
COT-MW3	11/13/2019	10:50	Dry			
COT-MW3	12/14/2019	16:27	Dry			
COT-MW4	1/30/2012	10:47	21.29	91.19		
COT-MW4	2/16/2012	15:34	21.42	91.06		
COT-MW4	3/5/2012	12:05	20.71	91.77		
COT-MW4	4/9/2012	12:42	21.12	91.36		
COT-MW4	5/15/2012	11:35	21.29	91.19		
COT-MW4	6/21/2012	17:10	21.64	90.84		
COT-MW4	7/11/2012	11:25	22.12	90.36		
COT-MW4	8/16/2012	11:40	23.00	89.48		
COT-MW4	9/20/2012	13:33	22.88	89.60		
COT-MW4	10/20/2012	12:27	22.65	89.83		
COT-MW4	12/9/2012	10:14	24.90	89.59		
COT-MW4	12/31/2012	14:05	24.71	89.78		
COT-MW4	1/15/2013	14:55	24.55	89.94		
COT-MW4	2/17/2013	15:18	24.64	89.85		
COT-MW4	3/24/2013	11:04	25.83	88.66		
COT-MW4	4/17/2013	14:18	26.48	88.01		
COT-MW4	6/2/2013	9:37	27.60	86.89		
COT-MW4	6/17/2013	15:57	27.06	87.43		
COT-MW4	7/16/2013	12:05	27.48	87.01		
COT-MW4	8/28/2013	11:58	28.31	86.18		
COT-MW4	9/9/2013	17:04	28.63	85.86		
COT-MW4	10/7/2013	16:05	28.61	85.88		
COT-MW4	11/15/2013	8:39	28.63	85.86		
COT-MW4	12/18/2013	13:08	28.93	85.56		
COT-MW4	1/14/2014	12:34	28.64	85.85		
COT-MW4	2/20/2014	9:50	Dry			
COT-MW4	3/17/2014	14:51	28.66	85.83		
COT-MW4	4/19/2014	13:17	28.67	85.82		
COT-MW4	5/27/2014	7:59	Dry			
COT-MW4	6/19/2014	19:00	Dry			
COT-MW4	7/17/2014	9:07	28.68	85.81		
COT-MW4	8/26/2014	13:13	28.70	85.79		
COT-MW4	9/19/2014	9:47	28.68	85.81		
COT-MW4	10/14/2014	12:21	Dry			
COT-MW4	11/12/2014	11:44	Dry			
COT-MW4	12/14/2014	16:16	28.68	85.81		
COT-MW4	1/13/2015	15:23	Dry			
COT-MW4	2/11/2015	14:13	Dry			
COT-MW4	3/13/2015	13:09	Dry			
COT-MW4	4/17/2015	11:26	Dry			
COT-MW4	5/14/2015	12:37	Dry			
COT-MW4	6/4/2015	14:33	Dry			
COT-MW4	7/21/2015	11:12	Dry			
COT-MW4	8/14/2015	13:30	Dry			
COT-MW4	9/14/2015	18:04	Dry			
COT-MW4	10/16/2015	17:26	Dry			
COT-MW4	11/20/2015	13:10	Dry			
COT-MW4	12/18/2015	15:16	Dry			
COT-MW4	1/16/2016	12:58	Dry			
COT-MW4	2/23/2016	17:04	Dry			
COT-MW4	3/19/2016	13:26	Dry			
COT-MW4	4/18/2016	10:50	Dry			
COT-MW4	5/18/2016	11:34	Dry			
COT-MW4	6/16/2016	16:42	Dry			
COT-MW4	7/22/2016	13:04	Dry			
COT-MW4	8/17/2016	13:30	Dry			
COT-MW4	9/16/2016	10:12	Dry			
COT-MW4	10/14/2016	10:28	Dry			
COT-MW4	11/29/2016	12:09	Dry			
COT-MW4	12/13/2016	12:37	Dry			
COT-MW4	1/26/2017	15:49	Dry			
COT-MW4	2/1/2017		N/M			
COT-MW4	3/16/2017	12:16	Dry			
COT-MW4	4/21/2017	9:41	Dry			
COT-MW4	5/19/2017	9:58	Dry			
COT-MW4	6/24/2017	15:05	Dry			
COT-MW4	7/14/2017	12:41	Dry			
COT-MW4	8/29/2017	7:37	Dry			
COT-MW4	9/23/2017	10:09	Dry			
COT-MW4	10/20/2017	15:35	Dry			
COT-MW4	11/17/2017	10:09	Dry			
COT-MW4	12/29/2017	14:44	Dry			
COT-MW4	1/22/2018	9:59	Dry			
COT-MW4	2/23/2018	13:25	Dry			
COT-MW4	3/1/2018		N/M			
COT-MW4	4/25/2018	15:30	Dry			
COT-MW4	5/14/2018	8:56	Dry			
COT-MW4	6/13/2018	18:18	Dry			
COT-MW4	7/16/2018	15:52	Dry			
COT-MW4	8/21/2018	12:08	Dry			
COT-MW4	9/12/2018	13:13	Dry			
COT-MW4	10/25/2018	17:12	Dry			
COT-MW4	11/14/2018	11:11	Dry			
COT-MW4	12/14/2018	11:11	Dry			
COT-MW4	1/24/2019	11:02	Dry			
COT-MW4	3/1/2019	8:10	Dry			
COT-MW4	3/17/2019	11:29	Dry			
COT-MW4	4/15/2019	15:08	Dry			
COT-MW4	5/24/2019	10:12	Dry			
COT-MW4	6/20/2019	13:59	Dry			
COT-MW4	7/17/2019	13:45	Dry			
COT-MW4	8/23/2019	9:20	Dry			
COT-MW4	9/27/2019	9:00	Dry			
COT-MW4	10/25/2019	12:44	Dry			
COT-MW4	11/13/2019	10:53	Dry			
COT-MW4	12/14/2019	16:15	Dry			
COT-MW5	1/30/2012	10:50	16.64	93.03		
COT-MW5	2/16/2012	14:41	17.00	92.67		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
COT-MW5	3/5/2012	12:06	16.57	93.10		
COT-MW5	4/9/2012	12:37	16.70	92.97		
COT-MW5	5/15/2012	11:19	17.41	92.26		
COT-MW5	6/21/2012	17:07	16.77	92.90		
COT-MW5	7/11/2012	11:18	16.23	93.44		
COT-MW5	8/16/2012	11:33	15.50	94.17		
COT-MW5	9/20/2012	13:29	15.20	94.47		
COT-MW5	10/20/2012	12:24	15.21	94.46		
COT-MW5	12/9/2012	10:19	18.93	93.34		
COT-MW5	12/31/2012	14:20	18.74	93.53		
COT-MW5	1/15/2013	14:52	18.33	93.94		
COT-MW5	2/17/2013	15:05	19.57	92.70		
COT-MW5	3/24/2013	11:20	20.33	91.94		
COT-MW5	4/17/2013	14:15	20.88	91.39		
COT-MW5	6/2/2013	9:57	22.30	89.97		
COT-MW5	6/17/2013	15:47	23.05	89.22		
COT-MW5	7/16/2013	12:04	23.71	88.56		
COT-MW5	8/28/2013	12:03	23.83	88.44		
COT-MW5	9/9/2013	17:11	23.98	88.29		
COT-MW5	10/7/2013	16:09	24.52	87.75		
COT-MW5	11/15/2013	8:47	24.95	87.32		
COT-MW5	12/18/2013	13:11	25.11	87.16		
COT-MW5	1/14/2014	12:30	25.45	86.82		
COT-MW5	2/20/2014	10:46	Dry			
COT-MW5	3/17/2014	14:55	25.60	86.67		
COT-MW5	4/19/2014	13:21	26.44	85.83		
COT-MW5	5/27/2014	8:03	Dry			
COT-MW5	6/19/2014	19:05	Dry			
COT-MW5	7/17/2014	9:13	Dry			
COT-MW5	8/26/2014	13:19	Dry			
COT-MW5	9/19/2014	9:51	Dry			
COT-MW5	10/14/2014	12:26	Dry			
COT-MW5	11/12/2014	11:48	Dry			
COT-MW5	12/14/2014	16:20	Dry			
COT-MW5	1/13/2015	15:27	Dry			
COT-MW5	2/11/2015	14:16	Dry			
COT-MW5	3/13/2015	13:11	Dry			
COT-MW5	4/17/2015	11:28	Dry			
COT-MW5	5/14/2015	12:30	Dry			
COT-MW5	6/4/2015	14:36	Dry			
COT-MW5	7/21/2015	11:22	Dry			
COT-MW5	8/14/2015	13:26	Dry			
COT-MW5	9/14/2015	17:59	Dry			
COT-MW5	10/16/2015	17:21	Dry			
COT-MW5	11/20/2015	13:07	Dry			
COT-MW5	12/18/2015	15:12	Dry			
COT-MW5	1/16/2016	12:57	Dry			
COT-MW5	2/23/2016	17:01	Dry			
COT-MW5	3/19/2016	13:33	Dry			
COT-MW5	4/18/2016	10:43	Dry			
COT-MW5	5/18/2016	11:32	Dry			
COT-MW5	6/16/2016	16:38	Dry			
COT-MW5	7/22/2016	13:09	Dry			
COT-MW5	8/17/2016	13:34	Dry			
COT-MW5	9/16/2016	10:09	Dry			
COT-MW5	10/14/2016	10:24	Dry			
COT-MW5	11/29/2016	12:16	Dry			
COT-MW5	12/13/2016	12:33	Dry			
COT-MW5	1/26/2017	15:45	Dry			
COT-MW5	2/1/2017		N/M			
COT-MW5	3/16/2017	12:18	Dry			
COT-MW5	4/21/2017	9:37	Dry			
COT-MW5	5/19/2017	9:55	Dry			
COT-MW5	6/24/2017	15:02	Dry			
COT-MW5	7/14/2017	12:46	Dry			
COT-MW5	8/29/2017	7:34	Dry			
COT-MW5	9/23/2017	10:05	Dry			
COT-MW5	10/20/2017	15:27	Dry			
COT-MW5	11/17/2017	10:12	Dry			
COT-MW5	12/29/2017	14:52	Dry			
COT-MW5	1/22/2018	10:02	Dry			
COT-MW5	2/23/2018	13:23	Dry			
COT-MW5	3/1/2018		N/M			
COT-MW5	4/25/2018	15:35	Dry			
COT-MW5	5/14/2018	8:58	Dry			
COT-MW5	6/13/2018	18:14	Dry			
COT-MW5	7/16/2018	15:49	Dry			
COT-MW5	8/21/2018	12:10	Dry			
COT-MW5	9/12/2018	13:19	Dry			
COT-MW5	10/25/2018	17:08	Dry			
COT-MW5	11/14/2018	11:15	Dry			
COT-MW5	12/14/2018	11:08	Dry			
COT-MW5	1/24/2019	10:56	Dry			
COT-MW5	3/1/2019	8:15	Dry			
COT-MW5	3/17/2019	11:32	Dry			
COT-MW5	4/15/2019	15:11	Dry			
COT-MW5	5/24/2019	10:17	Dry			
COT-MW5	6/20/2019	14:03	Dry			
COT-MW5	7/17/2019	13:48	Dry			
COT-MW5	8/23/2019	9:27	Dry			
COT-MW5	9/27/2019	9:03	Dry			
COT-MW5	10/25/2019	12:48	Dry			
COT-MW5	11/13/2019	10:57	Dry			
COT-MW5	12/14/2019	16:13	Dry			
COT-MW6	1/30/2012	10:51	16.24	92.98		
COT-MW6	2/16/2012	14:16	16.53	92.69		
COT-MW6	3/5/2012	12:08	16.36	92.86		
COT-MW6	4/9/2012	12:35	16.73	92.49		
COT-MW6	5/15/2012	11:07	17.24	91.98		
COT-MW6	6/21/2012	17:05	17.20	92.02		
COT-MW6	7/11/2012	11:16	16.48	92.74		
COT-MW6	8/16/2012	11:30	16.16	93.06		
COT-MW6	9/20/2012	13:27	15.95	93.27		
COT-MW6	10/20/2012	12:21	15.18	94.04		
COT-MW6	12/9/2012	10:22	17.31	94.02		
COT-MW6	12/31/2012	14:15	17.06	94.27		
COT-MW6	1/15/2013	14:49	16.64	94.69		
COT-MW6	2/17/2013	15:02	18.19	93.14		
COT-MW6	3/24/2013	11:30	19.20	92.13		
COT-MW6	4/17/2013	14:12	19.67	91.66		
COT-MW6	6/2/2013	10:02	20.99	90.34		
COT-MW6	6/17/2013	15:45	21.86	89.47		
COT-MW6	7/16/2013	12:00	22.75	88.58		
COT-MW6	8/28/2013	12:06	22.93	88.40		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
COT-MW6	9/9/2013	17:14	23.00	88.33		
COT-MW6	10/7/2013	16:14	23.21	88.12		
COT-MW6	11/15/2013	8:49	23.60	87.73		
COT-MW6	12/18/2013	13:14	23.86	87.47		
COT-MW6	1/14/2014	12:27	24.00	87.33		
COT-MW6	2/20/2014	10:49	Dry			
COT-MW6	3/17/2014	14:58	24.19	87.14		
COT-MW6	4/19/2014	13:24	25.29	86.04		
COT-MW6	5/27/2014	8:00	Dry			
COT-MW6	6/19/2014	19:08	Dry			
COT-MW6	7/17/2014	9:17	Dry			
COT-MW6	8/26/2014	13:22	Dry			
COT-MW6	9/19/2014	9:54	Dry			
COT-MW6	10/14/2014	12:29	Dry			
COT-MW6	11/12/2014	11:51	Dry			
COT-MW6	12/14/2014	16:23	Dry			
COT-MW6	1/13/2015	15:30	Dry			
COT-MW6	2/11/2015	14:18	Dry			
COT-MW6	3/13/2015	13:13	Dry			
COT-MW6	4/17/2015	11:30	Dry			
COT-MW6	5/14/2015	12:33	Dry			
COT-MW6	6/4/2015	14:38	Dry			
COT-MW6	7/21/2015	11:18	Dry			
COT-MW6	8/14/2015	13:22	Dry			
COT-MW6	9/14/2015	17:57	Dry			
COT-MW6	10/16/2015	17:17	Dry			
COT-MW6	11/20/2015	13:03	Dry			
COT-MW6	12/18/2015	15:09	Dry			
COT-MW6	1/16/2016	12:55	Dry			
COT-MW6	2/23/2016	17:00	Dry			
COT-MW6	3/19/2016	13:36	Dry			
COT-MW6	4/18/2016	10:40	Dry			
COT-MW6	5/18/2016	11:31	Dry			
COT-MW6	6/16/2016	16:36	Dry			
COT-MW6	7/22/2016	13:18	Dry			
COT-MW6	8/17/2016	13:37	Dry			
COT-MW6	9/16/2016	10:08	Dry			
COT-MW6	10/14/2016	10:23	Dry			
COT-MW6	11/29/2016	12:17	Dry			
COT-MW6	12/13/2016	12:31	Dry			
COT-MW6	1/26/2017	15:43	Dry			
COT-MW6	2/1/2017		N/M			
COT-MW6	3/16/2017	12:19	Dry			
COT-MW6	4/21/2017	9:35	Dry			
COT-MW6	5/19/2017	9:53	Dry			
COT-MW6	6/24/2017	15:00	Dry			
COT-MW6	7/14/2017	12:48	Dry			
COT-MW6	8/29/2017	7:31	Dry			
COT-MW6	9/23/2017	10:03	Dry			
COT-MW6	10/20/2017	15:28	Dry			
COT-MW6	11/17/2017	10:15	Dry			
COT-MW6	12/29/2017	14:57	Dry			
COT-MW6	1/22/2018	10:04	Dry			
COT-MW6	2/23/2018	13:24	Dry			
COT-MW6	3/1/2018		N/M			
COT-MW6	4/25/2018	15:38	Dry			
COT-MW6	5/14/2018	9:03	Dry			
COT-MW6	6/13/2018	18:11	Dry			
COT-MW6	7/16/2018	15:47	Dry			
COT-MW6	8/21/2018	12:11	Dry			
COT-MW6	9/12/2018	13:16	Dry			
COT-MW6	10/25/2018	17:09	Dry			
COT-MW6	11/14/2018	11:18	Dry			
COT-MW6	12/14/2018	11:06	Dry			
COT-MW6	1/24/2019	10:54	Dry			
COT-MW6	3/1/2019	8:17	Dry			
COT-MW6	3/17/2019	11:34	Dry			
COT-MW6	4/15/2019	15:13	Dry			
COT-MW6	5/24/2019	10:21	Dry			
COT-MW6	6/20/2019	14:07	Dry			
COT-MW6	7/17/2019	13:51	Dry			
COT-MW6	8/23/2019	9:25	Dry			
COT-MW6	9/27/2019	9:07	Dry			
COT-MW6	10/25/2019	12:52	Dry			
COT-MW6	11/13/2019	11:00	Dry			
COT-MW6	12/14/2019	16:11	Dry			
COT-MW7	1/30/2012	10:55	12.19	96.17		
COT-MW7	2/16/2012	12:41	11.80	96.56		
COT-MW7	3/5/2012	12:11	12.35	96.01		
COT-MW7	4/9/2012	13:03	11.98	96.38		
COT-MW7	5/15/2012	12:33	13.42	94.94		
COT-MW7	6/21/2012	16:57	21.26	87.10		
COT-MW7	7/11/2012	11:41	22.09	86.27		
COT-MW7	8/16/2012	11:22	19.69	88.67		
COT-MW7	9/20/2012	13:45	19.54	88.82		
COT-MW7	10/20/2012	12:40	9.75	98.61		
COT-MW7	12/9/2012	9:41	11.39	98.90		
COT-MW7	12/31/2012	14:34	11.30	98.99		
COT-MW7	1/15/2013	15:08	11.19	99.10		
COT-MW7	2/17/2013	18:09	12.93	97.36		
COT-MW7	3/24/2013	11:32	14.34	95.95		
COT-MW7	4/17/2013	14:35	12.90	97.39		
COT-MW7	6/2/2013	10:42	14.15	96.14		
COT-MW7	6/17/2013	15:30	14.29	96.00		
COT-MW7	7/16/2013	11:20	23.69	86.60		
COT-MW7	8/28/2013	12:41	19.27	91.02		
COT-MW7	9/9/2013	17:28	16.87	93.42		
COT-MW7	10/7/2013	16:48	16.58	93.71		
COT-MW7	11/15/2013	9:32	17.47	92.82		
COT-MW7	12/18/2013	13:50	17.51	92.78		
COT-MW7	1/14/2014	12:22	17.60	92.69		
COT-MW7	2/20/2014	10:17	17.67	92.62		
COT-MW7	3/17/2014	15:31	17.84	92.45		
COT-MW7	4/19/2014	13:46	20.09	90.20		
COT-MW7	5/27/2014	8:36	Dry			
COT-MW7	6/19/2014	19:37	Dry			
COT-MW7	7/17/2014	9:57	Dry			
COT-MW7	8/26/2014	13:53	Dry			
COT-MW7	9/19/2014	9:14	20.56	89.73		
COT-MW7	10/14/2014	13:15	20.11	90.18		
COT-MW7	11/12/2014	12:33	18.70	91.59		
COT-MW7	12/14/2014	17:06	18.32	91.97		
COT-MW7	1/13/2015	15:46	18.20	92.09		
COT-MW7	2/11/2015	15:05	18.34	91.95		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
COT-MW7	3/13/2015	13:29	19.28	91.01		
COT-MW7	4/17/2015	11:48	18.30	91.99		
COT-MW7	5/14/2015	12:25	21.51	88.78		
COT-MW7	6/4/2015	15:03	Dry			
COT-MW7	7/21/2015	12:21	Dry			
COT-MW7	8/14/2015	12:43	21.98	88.31		
COT-MW7	9/14/2015	17:42	24.46	85.83		
COT-MW7	10/16/2015	17:05	23.04	87.25		
COT-MW7	11/20/2015	13:00	24.78	85.51		
COT-MW7	12/18/2015	14:55	24.64	85.65		
COT-MW7	1/16/2016	12:45	21.80	88.49		
COT-MW7	2/23/2016	16:50	19.70	90.59		
COT-MW7	3/19/2016	14:10	20.87	89.42		
COT-MW7	4/18/2016	10:09	17.16	93.13		
COT-MW7	5/18/2016	12:07	18.70	91.59		
COT-MW7	6/16/2016	16:26	19.39	90.90		
COT-MW7	7/22/2016	13:46	20.43	89.86		
COT-MW7	8/17/2016	14:04	20.22	90.07		
COT-MW7	9/16/2016	9:57	19.65	90.64		
COT-MW7	10/14/2016	10:14	21.18	89.11		
COT-MW7	11/29/2016	12:29	22.28	88.01		
COT-MW7	12/13/2016	12:17	22.91	87.38		
COT-MW7	1/26/2017	15:32	20.80	89.49		
COT-MW7	2/1/2017		N/M			
COT-MW7	3/16/2017	12:52	19.61	90.68		
COT-MW7	4/21/2017	9:26	18.47	91.82		
COT-MW7	5/19/2017	9:48	17.80	92.49		
COT-MW7	6/24/2017	14:48	19.36	90.93		
COT-MW7	7/14/2017	13:08	Dry			
COT-MW7	8/29/2017	7:28	17.53	92.76		
COT-MW7	9/23/2017	9:58	18.20	92.09		
COT-MW7	10/20/2017	15:17	20.94	89.35		
COT-MW7	11/17/2017	10:19	Dry			
COT-MW7	12/29/2017	15:00	Dry			
COT-MW7	1/22/2018	10:16	21.86	88.43		
COT-MW7	2/23/2018	13:19	23.06	87.23		
COT-MW7	3/1/2018		N/M			
COT-MW7	4/25/2018	16:03	21.07	89.22		
COT-MW7	5/14/2018	9:34	Dry			
COT-MW7	6/13/2018	18:06	24.97	85.32		
COT-MW7	7/16/2018	15:43	Dry			
COT-MW7	8/21/2018	12:15	23.60	86.69		
COT-MW7	9/12/2018	13:36	24.35	85.94		
COT-MW7	10/25/2018	17:00	Dry			
COT-MW7	11/14/2018	11:46	Dry			
COT-MW7	12/14/2018	10:55	24.35	85.94		
COT-MW7	1/24/2019	10:47	24.95	85.34		
COT-MW7	3/1/2019	8:40	22.40	87.89		
COT-MW7	3/17/2019	11:42	21.16	89.13		
COT-MW7	4/15/2019	15:31	22.63	87.66		
COT-MW7	5/24/2019	10:47	24.88	85.41		
COT-MW7	6/20/2019	14:26	Dry			
COT-MW7	7/17/2019	14:20	Dry			
COT-MW7	8/23/2019	8:50	Dry			
COT-MW7	9/27/2019	9:30	Dry			
COT-MW7	10/25/2019	13:20	Dry			
COT-MW7	11/13/2019	11:17	Dry			
COT-MW7	12/14/2019	16:07	Dry			
COT-MW8	1/30/2012	10:56	14.01	93.46		
COT-MW8	2/16/2012	13:43	14.87	92.60		
COT-MW8	3/5/2012	12:12	15.31	92.16		
COT-MW8	4/9/2012	13:08	15.34	92.13		
COT-MW8	5/15/2012	12:45	11.12	96.35		
COT-MW8	6/21/2012	16:54	11.97	95.50		
COT-MW8	7/11/2012	11:50	12.84	94.63		
COT-MW8	8/16/2012	11:19	9.20	98.27		
COT-MW8	9/20/2012	13:54	9.00	98.47		
COT-MW8	10/20/2012	12:58	9.11	98.36		
COT-MW8	12/9/2012	9:55	14.37	94.40		
COT-MW8	12/31/2012	14:47	14.64	94.13		
COT-MW8	1/15/2013	15:12	14.48	94.29		
COT-MW8	2/17/2013	17:55	13.90	94.87		
COT-MW8	3/24/2013	11:36	14.15	94.62		
COT-MW8	4/17/2013	14:00	13.28	95.49		
COT-MW8	6/2/2013	10:35	12.75	96.02		
COT-MW8	6/17/2013	15:20	9.62	99.15		
COT-MW8	7/16/2013	10:53	10.30	98.47		
COT-MW8	8/28/2013	12:35	15.37	93.40		
COT-MW8	9/9/2013	17:32	14.75	94.02		
COT-MW8	10/7/2013	16:38	15.38	93.39		
COT-MW8	11/15/2013	9:19	17.58	91.19		
COT-MW8	12/18/2013	14:00	17.66	91.11		
COT-MW8	1/14/2014	12:16	18.16	90.61		
COT-MW8	2/20/2014	10:26	18.29	90.48		
COT-MW8	3/17/2014	15:26	19.63	89.14		
COT-MW8	4/19/2014	13:42	18.80	89.97		
COT-MW8	5/27/2014	8:31	18.14	90.63		
COT-MW8	6/19/2014	19:31	19.53	89.24		
COT-MW8	7/17/2014	9:51	17.60	91.17		
COT-MW8	8/26/2014	13:46	19.90	88.87		
COT-MW8	9/19/2014	9:25	19.70	89.07		
COT-MW8	10/14/2014	12:56	19.13	89.64		
COT-MW8	11/12/2014	12:24	20.20	88.57		
COT-MW8	12/14/2014	16:43	20.43	88.34		
COT-MW8	1/13/2015	15:39	18.83	89.94		
COT-MW8	2/11/2015	15:00	18.97	89.80		
COT-MW8	3/13/2015	13:39	20.58	88.19		
COT-MW8	4/17/2015	11:56	16.73	92.04		
COT-MW8	5/14/2015	12:20	16.68	92.09		
COT-MW8	6/4/2015	15:10	19.71	89.06		
COT-MW8	7/21/2015	11:44	23.11	85.66		
COT-MW8	8/14/2015	13:00	Dry			
COT-MW8	9/14/2015	17:20	Dry			
COT-MW8	10/16/2015	16:41	Dry			
COT-MW8	11/20/2015	12:40	Dry			
COT-MW8	12/18/2015	14:15	Dry			
COT-MW8	1/16/2016	11:55	Dry			
COT-MW8	2/23/2016	16:37	Dry			
COT-MW8	3/19/2016	14:06	Dry			
COT-MW8	4/18/2016	10:03	Dry			
COT-MW8	5/18/2016	11:58	Dry			
COT-MW8	6/16/2016	16:13	Dry			
COT-MW8	7/22/2016	13:42	Dry			
COT-MW8	8/17/2016	14:00	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
COT-MW8	9/16/2016	9:43	Dry			
COT-MW8	10/14/2016	9:57	Dry			
COT-MW8	11/29/2016	12:50	Dry			
COT-MW8	12/13/2016	11:55	Dry			
COT-MW8	1/26/2017	15:09	Dry			
COT-MW8	2/1/2017		N/M			
COT-MW8	3/16/2017	12:36	Dry			
COT-MW8	4/21/2017	9:11	Dry			
COT-MW8	5/19/2017	9:38	Dry			
COT-MW8	6/24/2017	14:33	Dry			
COT-MW8	7/14/2017	13:12	Dry			
COT-MW8	8/29/2017	7:13	Dry			
COT-MW8	9/23/2017	9:44	Dry			
COT-MW8	10/20/2017	15:02	Dry			
COT-MW8	11/17/2017	10:32	Dry			
COT-MW8	12/29/2017	15:04	Dry			
COT-MW8	1/22/2018	10:38	Dry			
COT-MW8	2/23/2018	13:51	Dry			
COT-MW8	3/1/2018		N/M			
COT-MW8	4/25/2018	16:08	Dry			
COT-MW8	5/14/2018	9:29	Dry			
COT-MW8	6/13/2018	17:52	Dry			
COT-MW8	7/16/2018	15:30	Dry			
COT-MW8	8/21/2018	12:29	Dry			
COT-MW8	9/12/2018	13:40	Dry			
COT-MW8	10/25/2018	16:45	Dry			
COT-MW8	11/14/2018	11:50	Dry			
COT-MW8	12/14/2018	10:35	Dry			
COT-MW8	1/24/2019	10:31	Dry			
COT-MW8	3/1/2019	9:00	Dry			
COT-MW8	3/17/2019	11:55	Dry			
COT-MW8	4/15/2019	15:36	Dry			
COT-MW8	5/24/2019	10:41	Dry			
COT-MW8	6/20/2019	14:31	Dry			
COT-MW8	7/17/2019	14:25	Dry			
COT-MW8	8/23/2019	8:58	Dry			
COT-MW8	9/27/2019	9:34	Dry			
COT-MW8	10/25/2019	13:26	Dry			
COT-MW8	11/13/2019	11:22	Dry			
COT-MW8	12/14/2019	15:53	Dry			
COT-MW9	1/30/2012	10:59	10.62	97.26		
COT-MW9	2/16/2012	12:11	8.56	99.32		
COT-MW9	3/5/2012	12:14	8.80	99.08		
COT-MW9	4/9/2012	13:15	12.23	95.65		
COT-MW9	5/15/2012	13:22	11.01	96.87		
COT-MW9	6/21/2012	17:00	13.05	94.83		
COT-MW9	7/11/2012	11:59	14.72	93.16		
COT-MW9	8/16/2012	11:11	13.06	94.82		
COT-MW9	9/20/2012	13:49	13.55	94.33		
COT-MW9	10/20/2012	12:46	13.72	94.16		
COT-MW9	12/9/2012	9:46	15.27	94.30		
COT-MW9	12/31/2012	14:30	14.75	94.82		
COT-MW9	1/15/2013	15:21	13.43	96.14		
COT-MW9	2/17/2013	16:38	9.49	100.08		
COT-MW9	3/24/2013	11:48	14.32	95.25		
COT-MW9	4/17/2013	14:46	14.00	95.57		
COT-MW9	6/2/2013	10:19	11.25	98.32		
COT-MW9	6/17/2013	15:36	11.33	98.24		
COT-MW9	7/16/2013	11:25	13.08	96.49		
COT-MW9	8/28/2013	12:23	16.59	92.98		
COT-MW9	9/9/2013	17:23	17.74	91.83		
COT-MW9	10/7/2013	16:44	16.83	92.74		
COT-MW9	11/15/2013	9:27	17.68	91.89		
COT-MW9	12/18/2013	14:11	17.74	91.83		
COT-MW9	1/14/2014	12:02	19.20	90.37		
COT-MW9	2/20/2014	10:53	19.34	90.23		
COT-MW9	3/17/2014	15:11	17.65	91.92		
COT-MW9	4/19/2014	13:32	16.00	93.57		
COT-MW9	5/27/2014	8:19	18.90	90.67		
COT-MW9	6/19/2014	19:19	19.86	89.71		
COT-MW9	7/17/2014	9:40	19.13	90.44		
COT-MW9	8/26/2014	13:34	20.33	89.24		
COT-MW9	9/19/2014	8:57	18.89	90.68		
COT-MW9	10/14/2014	13:07	20.05	89.52		
COT-MW9	11/12/2014	12:09	19.60	89.97		
COT-MW9	12/14/2014	17:11	20.31	89.26		
COT-MW9	1/13/2015	15:57	20.00	89.57		
COT-MW9	2/11/2015	14:33	20.61	88.96		
COT-MW9	3/13/2015	13:50	21.57	88.00		
COT-MW9	4/17/2015	12:09	22.77	86.80		
COT-MW9	5/14/2015	12:16	22.48	87.09		
COT-MW9	6/4/2015	15:24	22.48	87.09		
COT-MW9	7/21/2015	12:04	21.38	88.19		
COT-MW9	8/14/2015	12:50	26.17	83.40		
COT-MW9	9/14/2015	17:37	22.23	87.34		
COT-MW9	10/16/2015	16:55	23.30	86.27		
COT-MW9	11/20/2015	12:52	24.10	85.47		
COT-MW9	12/18/2015	14:29	23.44	86.13		
COT-MW9	1/16/2016	12:11	20.91	88.66		
COT-MW9	2/23/2016	16:46	17.97	91.60		
COT-MW9	3/19/2016	13:55	17.22	92.35		
COT-MW9	4/18/2016	9:51	15.13	94.44		
COT-MW9	5/18/2016	12:06	13.56	96.01		
COT-MW9	6/16/2016	16:22	17.16	92.41		
COT-MW9	7/22/2016	13:30	14.78	94.79		
COT-MW9	8/17/2016	13:50	14.20	95.37		
COT-MW9	9/16/2016	9:53	16.78	92.79		
COT-MW9	10/14/2016	10:10	16.81	92.76		
COT-MW9	11/29/2016	12:33	18.42	91.15		
COT-MW9	12/13/2016	12:12	19.12	90.45		
COT-MW9	1/26/2017	15:27	14.73	94.84		
COT-MW9	2/1/2017		N/M			
COT-MW9	3/16/2017	12:48	12.81	96.76		
COT-MW9	4/21/2017	9:20	12.40	97.17		
COT-MW9	5/19/2017	9:45	14.88	94.69		
COT-MW9	6/24/2017	14:44	12.13	97.44		
COT-MW9	7/14/2017	13:27	10.90	98.67		
COT-MW9	8/29/2017	7:23	12.68	96.89		
COT-MW9	9/23/2017	9:54	12.98	96.59		
COT-MW9	10/20/2017	15:13	15.32	94.25		
COT-MW9	11/17/2017	10:23	16.19	93.38		
COT-MW9	12/29/2017	15:14	16.10	93.47		
COT-MW9	1/22/2018	10:20	15.42	94.15		
COT-MW9	2/23/2018	13:18	17.96	91.61		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
COT-MW9	3/1/2018		N/M			
COT-MW9	4/25/2018	16:17	16.23	93.34		
COT-MW9	5/14/2018	9:38	16.93	92.64		
COT-MW9	6/13/2018	18:02	18.85	90.72		
COT-MW9	7/16/2018	15:39	19.87	89.70		
COT-MW9	8/21/2018	12:33	20.83	88.74		
COT-MW9	9/12/2018	14:04	21.00	88.57		
COT-MW9	10/25/2018	16:56	21.72	87.85		
COT-MW9	11/14/2018	12:00	21.95	87.62		
COT-MW9	12/14/2018	10:49	22.23	87.34		
COT-MW9	1/24/2019	10:42	21.83	87.74		
COT-MW9	3/1/2019	8:45	19.72	89.85		
COT-MW9	3/17/2019	11:46	18.88	90.69		
COT-MW9	4/15/2019	15:55	18.63	90.94		
COT-MW9	5/24/2019	10:58	20.25	89.32		
COT-MW9	6/20/2019	14:41	19.82	89.75		
COT-MW9	7/17/2019	14:43	20.78	88.79		
COT-MW9	8/23/2019	8:45	22.10	87.47		
COT-MW9	9/27/2019	9:44	22.74	86.83		
COT-MW9	10/25/2019	13:39	23.50	86.07		
COT-MW9	11/13/2019	11:07	23.98	85.59		
COT-MW9	12/14/2019	16:04	23.15	86.42		
COT-MW10	1/30/2012	11:02	6.84	96.33		
COT-MW10	2/16/2012	13:09	5.14	98.03		
COT-MW10	3/5/2012	12:18	5.44	97.73		
COT-MW10	4/9/2012	13:12	7.28	95.89		
COT-MW10	5/15/2012	13:00	7.32	95.85		
COT-MW10	6/21/2012	16:50	9.00	94.17		
COT-MW10	7/11/2012	11:55	11.04	92.13		
COT-MW10	8/16/2012	11:14	7.99	95.18		
COT-MW10	9/20/2012	13:52	9.11	94.06		
COT-MW10	10/20/2012	12:51	10.23	92.94		
COT-MW10	12/9/2012	9:50	10.15	94.65		
COT-MW10	12/31/2012	14:42	9.51	95.29		
COT-MW10	1/15/2013	15:16	8.23	96.57		
COT-MW10	2/17/2013	17:09	7.49	97.31		
COT-MW10	3/24/2013	11:40	10.40	94.40		
COT-MW10	4/17/2013	14:42	11.00	93.80		
COT-MW10	6/2/2013	10:29	11.90	92.90		
COT-MW10	6/17/2013	15:24	11.10	93.70		
COT-MW10	7/16/2013	11:00	10.95	93.85		
COT-MW10	8/28/2013	12:30	12.85	91.95		
COT-MW10	9/9/2013	17:37	13.76	91.04		
COT-MW10	10/7/2013	16:40	15.21	89.59		
COT-MW10	11/15/2013	9:22	15.90	88.90		
COT-MW10	12/18/2013	14:06	16.08	88.72		
COT-MW10	1/14/2014	12:08	14.65	90.15		
COT-MW10	2/20/2014	10:20	14.04	90.76		
COT-MW10	3/17/2014	15:20	13.82	90.98		
COT-MW10	4/19/2014	13:37	13.55	91.25		
COT-MW10	5/27/2014	8:25	15.67	89.13		
COT-MW10	6/19/2014	19:25	14.22	90.58		
COT-MW10	7/17/2014	9:46	15.30	89.50		
COT-MW10	8/26/2014	13:40	16.14	88.66		
COT-MW10	9/19/2014	9:19	17.94	86.86		
COT-MW10	10/14/2014	13:03	18.61	86.19		
COT-MW10	11/12/2014	12:19	16.35	88.45		
COT-MW10	12/14/2014	16:53	17.60	87.20		
COT-MW10	1/13/2015	15:52	14.82	89.98		
COT-MW10	2/11/2015	14:38	12.83	91.97		
COT-MW10	3/13/2015	13:44	14.96	89.84		
COT-MW10	4/17/2015	12:01	17.93	86.87		
COT-MW10	5/14/2015	12:10	19.30	85.50		
COT-MW10	6/4/2015	15:17	19.63	85.17		
COT-MW10	7/21/2015	11:54	13.92	90.88		
COT-MW10	8/14/2015	12:55	22.18	82.62		
COT-MW10	9/14/2015	17:26	20.90	83.90		
COT-MW10	10/16/2015	16:47	Dry			
COT-MW10	11/20/2015	12:47	Dry			
COT-MW10	12/18/2015	14:24	18.46	86.34		
COT-MW10	1/16/2016	12:02	17.55	87.25		
COT-MW10	2/23/2016	16:42	15.93	88.87		
COT-MW10	3/19/2016	14:00	14.48	90.32		
COT-MW10	4/18/2016	9:56	14.95	89.85		
COT-MW10	5/18/2016	12:04	15.55	89.25		
COT-MW10	6/16/2016	16:15	12.69	92.11		
COT-MW10	7/22/2016	13:35	12.65	92.15		
COT-MW10	8/17/2016	13:55	15.35	89.45		
COT-MW10	9/16/2016	9:48	17.73	87.07		
COT-MW10	10/14/2016	10:05	18.02	86.78		
COT-MW10	11/29/2016	12:42	15.44	89.36		
COT-MW10	12/13/2016	12:02	17.15	87.65		
COT-MW10	1/26/2017	15:16	14.11	90.69		
COT-MW10	2/1/2017		N/M			
COT-MW10	3/16/2017	12:42	10.06	94.74		
COT-MW10	4/21/2017	9:16	10.56	94.24		
COT-MW10	5/19/2017	9:41	11.00	93.80		
COT-MW10	6/24/2017	14:39	9.51	95.29		
COT-MW10	7/14/2017	13:21	10.44	94.36		
COT-MW10	8/29/2017	7:18	11.67	93.13		
COT-MW10	9/23/2017	9:49	13.49	91.31		
COT-MW10	10/20/2017	15:07	10.93	93.87		
COT-MW10	11/17/2017	10:30	14.04	90.76		
COT-MW10	12/29/2017	15:10	12.90	91.90		
COT-MW10	1/22/2018	10:29	10.63	94.17		
COT-MW10	2/23/2018	13:59	11.65	93.15		
COT-MW10	3/1/2018		N/M			
COT-MW10	4/25/2018	16:13	13.14	91.66		
COT-MW10	5/14/2018	9:47	13.76	91.04		
COT-MW10	6/13/2018	17:57	11.52	93.28		
COT-MW10	7/16/2018	15:34	11.74	93.06		
COT-MW10	8/21/2018	12:38	13.37	91.43		
COT-MW10	9/12/2018	13:48	16.45	88.35		
COT-MW10	10/25/2018	16:49	14.75	90.05		
COT-MW10	11/14/2018	11:55	12.98	91.82		
COT-MW10	12/14/2018	10:42	9.71	95.09		
COT-MW10	1/24/2019	10:36	9.41	95.39		
COT-MW10	3/1/2019	9:15	8.21	96.59		
COT-MW10	3/17/2019	11:51	8.10	96.70		
COT-MW10	4/15/2019	15:48	8.68	96.12		
COT-MW10	5/24/2019	10:52	10.35	94.45		
COT-MW10	6/20/2019	14:37	11.32	93.48		
COT-MW10	7/17/2019	14:33	12.03	92.77		
COT-MW10	8/23/2019	8:38	12.47	92.33		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
COT-MW10	9/27/2019	9:38	16.23	88.57		
COT-MW10	10/25/2019	13:32	14.32	90.48		
COT-MW10	11/13/2019	11:11	14.58	90.22		
COT-MW10	12/14/2019	15:57	10.26	94.54		
COT-MW11s	1/30/2012	11:04	23.83	88.46	<|0.05|	0
COT-MW11s	2/13/2012	13:25	24.12	88.17	<|0.05|	0
COT-MW11s	3/5/2012	12:21	24.24	88.05	0.12	0.01
COT-MW11s	4/9/2012	12:01	25.66	86.63	0.10	0.01
COT-MW11s	5/15/2012	9:49	25.38	86.91	0.13	0.01
COT-MW11s	6/21/2012	17:22	24.75	87.54	0.12	0.01
COT-MW11s	7/11/2012	10:52	Dry			
COT-MW11s	8/16/2012	11:44	22.20	90.09	0.62	0.05
COT-MW11s	9/20/2012	13:09	21.13	91.16	0.22	0.02
COT-MW11s	10/20/2012	12:06	18.64	93.65	0.16	0.01
COT-MW11s	12/9/2012	10:41	19.14	93.15	0.21	0.02
COT-MW11s	12/31/2012	14:00	18.86	93.43	0.39	0.03
COT-MW11s	1/15/2013	14:34	19.58	92.71	0.12	0.01
COT-MW11s	2/17/2013	14:45	22.83	89.46	<|0.05|	0
COT-MW11s	3/24/2013	10:55	21.70	90.59	1.65	0.13
COT-MW11s	4/17/2013	13:50	25.05	87.24	<|0.05|	0
COT-MW11s	6/2/2013	9:29	Q/M			
COT-MW11s	6/17/2013	15:00	25.47	86.82	0.61	0.05
COT-MW11s	7/16/2013	10:39	Q/M			
COT-MW11s	8/28/2013	11:45	27.06	85.23	0.19	0.01
COT-MW11s	9/9/2013	16:54	26.50	85.79	0.08	0.01
COT-MW11s	10/7/2013	16:22	26.55	85.74	0.06	0.00
COT-MW11s	11/15/2013	8:55	Dry			
COT-MW11s	12/18/2013	13:23	Dry			
COT-MW11s	1/14/2014	12:58	27.95	84.34	0.17	0.01
COT-MW11s	2/20/2014	10:41	Dry			
COT-MW11s	3/17/2014	14:39	Dry			
COT-MW11s	4/19/2014	13:02	Dry			
COT-MW11s	5/27/2014	7:49	Dry			
COT-MW11s	6/19/2014	18:49	Q/M			
COT-MW11s	7/17/2014	8:36	Q/M			
COT-MW11s	8/26/2014	13:07	Dry			
COT-MW11s	9/19/2014	9:36	Dry			
COT-MW11s	10/14/2014	12:31	Dry			
COT-MW11s	11/12/2014	11:33	Dry			
COT-MW11s	12/14/2014	16:26	Dry			
COT-MW11s	1/13/2015	15:18	Dry			
COT-MW11s	2/11/2015	14:46	Dry			
COT-MW11s	3/13/2015	13:16	Dry			
COT-MW11s	4/17/2015	11:32	Dry			
COT-MW11s	5/14/2015	11:50	Dry			
COT-MW11s	6/4/2015	14:41	Q/M			
COT-MW11s	7/21/2015	11:04	Dry			
COT-MW11s	8/14/2015	13:18	Dry			
COT-MW11s	9/14/2015	17:07	Dry			
COT-MW11s	10/16/2015	16:28	Dry			
COT-MW11s	11/20/2015	12:07	Dry			
COT-MW11s	12/18/2015	14:07	Dry			
COT-MW11s	1/16/2016	11:42	Dry			
COT-MW11s	2/23/2016	16:27	Dry			
COT-MW11s	3/19/2016	13:21	Dry			
COT-MW11s	4/18/2016	10:27	Dry			
COT-MW11s	5/18/2016	11:48	Dry			
COT-MW11s	6/16/2016	15:56	Dry			
COT-MW11s	7/22/2016	13:00	Dry			
COT-MW11s	8/17/2016	13:25	Dry			
COT-MW11s	9/16/2016	9:32	Dry			
COT-MW11s	10/14/2016	9:45	Dry			
COT-MW11s	11/29/2016	13:00	Dry			
COT-MW11s	12/13/2016	11:44	Dry			
COT-MW11s	1/26/2017	15:01	Dry			
COT-MW11s	2/1/2017		N/M			
COT-MW11s	3/16/2017	12:24	Dry			
COT-MW11s	4/21/2017	9:02	Dry			
COT-MW11s	5/19/2017	9:24				
COT-MW11s	6/24/2017	14:23	Dry			
COT-MW11s	7/14/2017	12:50	Dry			
COT-MW11s	8/29/2017	7:51	Dry			
COT-MW11s	9/23/2017	9:25	Dry			
COT-MW11s	10/20/2017	14:51	Dry			
COT-MW11s	11/17/2017	10:36	Dry			
COT-MW11s	12/29/2017	15:42	Dry			
COT-MW11s	1/22/2018	10:46	Dry			
COT-MW11s	2/23/2018	13:36	Dry			
COT-MW11s	3/1/2018		N/M			
COT-MW11s	4/25/2018	15:26	Dry			
COT-MW11s	5/14/2018	9:14	Dry			
COT-MW11s	6/13/2018	17:36	Dry			
COT-MW11s	7/16/2018	15:22	Dry			
COT-MW11s	8/21/2018	12:20	Dry			
COT-MW11s	9/12/2018	13:21	Dry			
COT-MW11s	10/25/2018	16:30	Dry			
COT-MW11s	11/14/2018	11:23	Dry			
COT-MW11s	12/14/2018	10:22	Dry			
COT-MW11s	1/24/2019	10:19	Dry			
COT-MW11s	3/1/2019	8:30	Dry			
COT-MW11s	3/17/2019	12:03	Dry			
COT-MW11s	4/15/2019	15:20	Dry			
COT-MW11s	5/24/2019	10:30	Dry			
COT-MW11s	6/20/2019	14:14	Dry			
COT-MW11s	7/17/2019	14:07	Dry			
COT-MW11s	8/23/2019	9:29	Dry			
COT-MW11s	9/27/2019	9:13	Dry			
COT-MW11s	10/25/2019	13:04	Dry			
COT-MW11s	11/13/2019	11:34	Dry			
COT-MW11s	12/14/2019	15:39	Dry			
COT-MW11d	1/30/2012	11:07	23.60	88.48		
COT-MW11d	2/13/2012	13:26	23.95	88.13		
COT-MW11d	3/5/2012	12:25	24.15	87.93		
COT-MW11d	4/9/2012	12:00	25.55	86.53		
COT-MW11d	5/15/2012	9:50	25.30	86.78		
COT-MW11d	6/21/2012	17:22	24.66	87.42		
COT-MW11d	7/11/2012	10:51	23.48	88.60		
COT-MW11d	8/16/2012	11:44	22.61	89.47		
COT-MW11d	9/20/2012	13:09	21.14	90.94		
COT-MW11d	10/20/2012	12:06	18.59	93.49		
COT-MW11d	12/9/2012	10:41	19.14	92.94		
COT-MW11d	12/31/2012	14:01	19.04	93.04		
COT-MW11d	1/15/2013	14:34	19.49	92.59		
COT-MW11d	2/17/2013	14:46	22.60	89.48		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
COT-MW11d	3/24/2013	10:55	23.14	88.94		
COT-MW11d	4/17/2013	13:50	24.88	87.20		
COT-MW11d	6/2/2013	9:29	24.95	87.13		
COT-MW11d	6/17/2013	15:02	25.87	86.21		
COT-MW11d	7/16/2013	10:40	26.73	85.35		
COT-MW11d	8/28/2013	11:45	27.04	85.04		
COT-MW11d	9/9/2013	16:54	26.37	85.71		
COT-MW11d	10/7/2013	16:22	26.40	85.68		
COT-MW11d	11/15/2013	8:55	27.48	84.60		
COT-MW11d	12/18/2013	13:23	28.14	83.94		
COT-MW11d	1/14/2014	12:58	27.91	84.17		
COT-MW11d	2/20/2014	10:41	29.35	82.73		
COT-MW11d	3/17/2014	14:39	29.75	82.33		
COT-MW11d	4/19/2014	13:02	30.57	81.51		
COT-MW11d	5/27/2014	7:49	29.62	82.46		
COT-MW11d	6/19/2014	18:49	28.80	83.28		
COT-MW11d	7/17/2014	8:36	28.12	83.96		
COT-MW11d	8/26/2014	13:07	28.05	84.03		
COT-MW11d	9/19/2014	9:36	29.06	83.02		
COT-MW11d	10/14/2014	12:31	31.38	80.70		
COT-MW11d	11/12/2014	11:33	30.01	82.07		
COT-MW11d	12/14/2014	16:26	28.65	83.43		
COT-MW11d	1/13/2015	15:18	28.12	83.96		
COT-MW11d	2/11/2015	14:46	29.80	82.28		
COT-MW11d	3/13/2015	13:16	31.74	80.34		
COT-MW11d	4/17/2015	11:32	32.48	79.60		
COT-MW11d	5/14/2015	11:50	34.33	77.75		
COT-MW11d	6/4/2015	14:41	35.08	77.00		
COT-MW11d	7/21/2015	11:04	33.60	78.48		
COT-MW11d	8/14/2015	13:18	34.37	77.71		
COT-MW11d	9/14/2015	17:08	34.40	77.68		
COT-MW11d	10/16/2015	16:29	34.15	77.93		
COT-MW11d	11/20/2015	12:10	33.90	78.18		
COT-MW11d	12/18/2015	14:08	34.22	77.86		
COT-MW11d	1/16/2016	11:43	33.77	78.31		
COT-MW11d	2/23/2016	16:28	33.36	78.72		
COT-MW11d	3/19/2016	13:21	33.99	78.09		
COT-MW11d	4/18/2016	10:28	33.19	78.89		
COT-MW11d	5/18/2016	11:49	31.75	80.33		
COT-MW11d	6/16/2016	15:57	33.12	78.96		
COT-MW11d	7/22/2016	13:00	32.60	79.48		
COT-MW11d	8/17/2016	13:25	32.56	79.52		
COT-MW11d	9/16/2016	9:33	32.97	79.11		
COT-MW11d	10/14/2016	9:46	33.12	78.96		
COT-MW11d	11/29/2016	13:01	33.76	78.32		
COT-MW11d	12/13/2016	11:45	33.93	78.15		
COT-MW11d	1/26/2017	15:00	34.21	77.87		
COT-MW11d	2/1/2017		N/M			
COT-MW11d	3/16/2017	12:25	33.73	78.35		
COT-MW11d	4/21/2017	9:03	33.34	78.74		
COT-MW11d	5/19/2017	9:24	32.85	79.23		
COT-MW11d	6/24/2017	14:24	33.02	79.06		
COT-MW11d	7/14/2017	12:50	33.29	78.79		
COT-MW11d	8/29/2017	7:51	33.68	78.40		
COT-MW11d	9/23/2017	9:26	33.83	78.25		
COT-MW11d	10/20/2017	14:52	33.65	78.43		
COT-MW11d	11/17/2017	10:36	34.14	77.94		
COT-MW11d	12/29/2017	15:45	34.59	77.49		
COT-MW11d	1/22/2018	10:47	34.74	77.34		
COT-MW11d	2/23/2018	13:35	35.25	76.83		
COT-MW11d	3/1/2018		N/M			
COT-MW11d	4/25/2018	15:26	35.44	76.64		
COT-MW11d	5/14/2018	9:14	35.64	76.44		
COT-MW11d	6/13/2018	17:37	35.69	76.39		
COT-MW11d	7/16/2018	15:23	35.75	76.33		
COT-MW11d	8/21/2018	12:20	36.07	76.01		
COT-MW11d	9/12/2018	13:21	35.79	76.29		
COT-MW11d	10/25/2018	16:31	36.34	75.74		
COT-MW11d	11/14/2018	11:23	36.88	75.20		
COT-MW11d	12/14/2018	10:23	36.52	75.56		
COT-MW11d	1/24/2019	10:20	36.64	75.44		
COT-MW11d	3/1/2019	8:30	36.62	75.46		
COT-MW11d	3/17/2019	12:04	36.58	75.50		
COT-MW11d	4/15/2019	15:20	36.59	75.49		
COT-MW11d	5/24/2019	10:30	36.37	75.71		
COT-MW11d	6/20/2019	14:14	36.33	75.75		
COT-MW11d	7/17/2019	14:07	36.57	75.51		
COT-MW11d	8/23/2019	9:29	36.98	75.10		
COT-MW11d	9/27/2019	9:13	37.12	74.96		
COT-MW11d	10/25/2019	13:04	37.42	74.66		
COT-MW11d	11/13/2019	11:34	37.49	74.59		
COT-MW11d	12/14/2019	15:40	37.50	74.58		
COT-MW12s	1/30/2012	11:14	24.10	88.55	<|0.05|	0
COT-MW12s	2/13/2012	14:00	24.44	88.21	<|0.05|	0
COT-MW12s	3/5/2012	12:27	25.09	87.56	<|0.05|	0
COT-MW12s	4/9/2012	12:06	26.79	85.86	0.17	0.01
COT-MW12s	5/15/2012	10:06	26.27	86.38	-0.06	-0.00
COT-MW12s	6/21/2012	17:24	25.47	87.18	0.31	0.02
COT-MW12s	7/11/2012	10:54	24.87	87.78	0.28	0.01
COT-MW12s	8/16/2012	11:48	23.80	88.85	0.06	0.00
COT-MW12s	9/20/2012	13:12	20.13	92.52	0.17	0.01
COT-MW12s	10/20/2012	12:09	18.24	94.41	0.10	0.00
COT-MW12s	12/9/2012	10:37	19.06	93.59	<|0.05|	0
COT-MW12s	12/31/2012	14:54	19.42	93.23	<|0.05|	0
COT-MW12s	1/15/2013	14:37	19.62	93.03	<|0.05|	0
COT-MW12s	2/17/2013	14:35	23.02	89.63	-0.06	-0.00
COT-MW12s	3/24/2013	10:52	24.48	88.17	0.10	0.00
COT-MW12s	4/17/2013	13:53	25.69	86.96	0.07	0.00
COT-MW12s	6/2/2013	9:20	25.86	86.79	0.32	0.02
COT-MW12s	6/17/2013	15:05	27.63	85.02	0.28	0.01
COT-MW12s	7/16/2013	10:43	28.82	83.83	0.29	0.01
COT-MW12s	8/28/2013	11:42	28.70	83.95	0.38	0.02
COT-MW12s	9/9/2013	16:46	27.94	84.71	<|0.05|	0
COT-MW12s	10/7/2013	16:27	27.51	85.14	<|0.05|	0
COT-MW12s	11/15/2013	8:59	28.74	83.91	0.07	0.00
COT-MW12s	12/18/2013	13:27	28.83	83.82	<|0.05|	0
COT-MW12s	1/14/2014	13:00	29.17	83.48	0.09	0.00
COT-MW12s	2/20/2014	10:36	30.48	82.17	0.10	0.00
COT-MW12s	3/17/2014	14:33	31.00	81.65	0.29	0.01
COT-MW12s	4/19/2014	12:56	32.25	80.40	0.08	0.00
COT-MW12s	5/27/2014	7:43	Dry			
COT-MW12s	6/19/2014	18:41	30.31	82.34	0.15	0.01
COT-MW12s	7/17/2014	8:33	30.18	82.47	0.12	0.01
COT-MW12s	8/26/2014	13:01	29.88	82.77	0.09	0.00

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
COT-MW12s	9/19/2014	9:33	29.96	82.69	0.41	0.02
COT-MW12s	10/14/2014	12:38	Dry			
COT-MW12s	11/12/2014	11:30	31.16	81.49	-0.11	-0.01
COT-MW12s	12/14/2014	16:32	29.18	83.47	<|0.05|	0
COT-MW12s	1/13/2015	15:10	28.20	84.45	<|0.05|	0
COT-MW12s	2/11/2015	14:52	30.17	82.48	-0.14	-0.01
COT-MW12s	3/13/2015	13:18	Dry			
COT-MW12s	4/17/2015	11:35	Dry			
COT-MW12s	5/14/2015	11:54	Dry			
COT-MW12s	6/4/2015	14:44	Dry			
COT-MW12s	7/21/2015	10:55	Dry			
COT-MW12s	8/14/2015	13:15	Dry			
COT-MW12s	9/14/2015	17:10	Dry			
COT-MW12s	10/16/2015	16:31	Dry			
COT-MW12s	11/20/2015	12:20	Dry			
COT-MW12s	12/18/2015	16:04	Dry			
COT-MW12s	1/16/2016	11:46	Dry			
COT-MW12s	2/23/2016	16:30	Dry			
COT-MW12s	3/19/2016	13:15	Dry			
COT-MW12s	4/18/2016	10:24	Dry			
COT-MW12s	5/18/2016	11:50	Dry			
COT-MW12s	6/16/2016	15:59	Dry			
COT-MW12s	7/22/2016	12:52	Dry			
COT-MW12s	8/17/2016	13:18	Dry			
COT-MW12s	9/16/2016	9:34	Dry			
COT-MW12s	10/14/2016	9:49	Dry			
COT-MW12s	11/29/2016	12:56	Dry			
COT-MW12s	12/13/2016	11:47	Dry			
COT-MW12s	1/26/2017	15:01	Dry			
COT-MW12s	2/1/2017		N/M			
COT-MW12s	3/16/2017	12:27	Dry			
COT-MW12s	4/21/2017	9:04	Dry			
COT-MW12s	5/19/2017	9:27	Dry			
COT-MW12s	6/24/2017	14:26	Dry			
COT-MW12s	7/14/2017	12:54	Dry			
COT-MW12s	8/29/2017	7:54	Dry			
COT-MW12s	9/23/2017	9:35	Dry			
COT-MW12s	10/20/2017	14:55	Dry			
COT-MW12s	11/17/2017	10:32	Dry			
COT-MW12s	12/29/2017	15:38	Dry			
COT-MW12s	1/22/2018	10:44	Dry			
COT-MW12s	2/23/2018	13:40	Dry			
COT-MW12s	3/1/2018		N/M			
COT-MW12s	4/25/2018	15:18	Dry			
COT-MW12s	5/14/2018	9:24	Dry			
COT-MW12s	6/13/2018	17:45	Dry			
COT-MW12s	7/16/2018	15:24	Dry			
COT-MW12s	8/21/2018	12:22	Dry			
COT-MW12s	9/12/2018	13:23	Dry			
COT-MW12s	10/25/2018	16:37	Dry			
COT-MW12s	11/14/2018	11:27	Dry			
COT-MW12s	12/14/2018	10:27	Dry			
COT-MW12s	1/24/2019	10:21	Dry			
COT-MW12s	3/1/2019	8:52	Dry			
COT-MW12s	3/17/2019	12:02	Dry			
COT-MW12s	4/15/2019	15:24	Dry			
COT-MW12s	5/24/2019	10:34	Dry			
COT-MW12s	6/20/2019	14:17	Dry			
COT-MW12s	7/17/2019	14:11	Dry			
COT-MW12s	8/23/2019	9:03	Dry			
COT-MW12s	9/27/2019	9:22	Dry			
COT-MW12s	10/25/2019	13:08	Dry			
COT-MW12s	11/13/2019	11:29	Dry			
COT-MW12s	12/14/2019	15:49	Dry			
COT-MW12d	1/30/2012	11:15	23.89	88.58		
COT-MW12d	2/13/2012	14:01	24.26	88.21		
COT-MW12d	3/5/2012	12:30	24.90	87.57		
COT-MW12d	4/9/2012	12:05	26.78	85.69		
COT-MW12d	5/15/2012	10:07	26.03	86.44		
COT-MW12d	6/21/2012	17:25	25.60	86.87		
COT-MW12d	7/11/2012	10:54	24.97	87.50		
COT-MW12d	8/16/2012	11:48	23.68	88.79		
COT-MW12d	9/20/2012	13:12	20.12	92.35		
COT-MW12d	10/20/2012	12:09	18.16	94.31		
COT-MW12d	12/9/2012	10:37	18.88	93.59		
COT-MW12d	12/31/2012	14:55	19.25	93.22		
COT-MW12d	1/15/2013	14:37	19.45	93.02		
COT-MW12d	2/17/2013	14:36	22.78	89.69		
COT-MW12d	3/24/2013	10:53	24.40	88.07		
COT-MW12d	4/17/2013	13:53	25.58	86.89		
COT-MW12d	6/2/2013	9:20	26.00	86.47		
COT-MW12d	6/17/2013	15:06	27.73	84.74		
COT-MW12d	7/16/2013	10:44	28.93	83.54		
COT-MW12d	8/28/2013	11:42	28.90	83.57		
COT-MW12d	9/9/2013	16:46	27.76	84.71		
COT-MW12d	10/7/2013	16:27	27.38	85.09		
COT-MW12d	11/15/2013	8:59	28.63	83.84		
COT-MW12d	12/18/2013	13:27	28.67	83.80		
COT-MW12d	1/14/2014	13:00	29.08	83.39		
COT-MW12d	2/20/2014	10:36	30.40	82.07		
COT-MW12d	3/17/2014	14:33	31.11	81.36		
COT-MW12d	4/19/2014	12:56	32.15	80.32		
COT-MW12d	5/27/2014	7:43	30.96	81.51		
COT-MW12d	6/19/2014	18:41	30.28	82.19		
COT-MW12d	7/17/2014	8:33	30.12	82.35		
COT-MW12d	8/26/2014	13:01	29.79	82.68		
COT-MW12d	9/19/2014	9:33	30.19	82.28		
COT-MW12d	10/14/2014	12:38	33.90	78.57		
COT-MW12d	11/12/2014	11:30	30.87	81.60		
COT-MW12d	12/14/2014	16:32	29.00	83.47		
COT-MW12d	1/13/2015	15:10	27.99	84.48		
COT-MW12d	2/11/2015	14:52	29.85	82.62		
COT-MW12d	3/13/2015	13:18	33.21	79.26		
COT-MW12d	4/17/2015	11:35	32.58	79.89		
COT-MW12d	5/14/2015	11:54	35.09	77.38		
COT-MW12d	6/4/2015	14:44	36.53	75.94		
COT-MW12d	7/21/2015	10:55	36.23	76.24		
COT-MW12d	8/14/2015	13:15	36.67	75.80		
COT-MW12d	9/14/2015	17:11	36.20	76.27		
COT-MW12d	10/16/2015	16:32	35.65	76.82		
COT-MW12d	11/20/2015	12:22	37.90	74.57		
COT-MW12d	12/18/2015	16:05	34.91	77.56		
COT-MW12d	1/16/2016	11:47	34.26	78.21		
COT-MW12d	2/23/2016	16:31	33.74	78.73		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
COT-MW12d	3/19/2016	13:15	34.53	77.94		
COT-MW12d	4/18/2016	10:25	34.03	78.44		
COT-MW12d	5/18/2016	11:51	32.41	80.06		
COT-MW12d	6/16/2016	16:00	33.77	78.70		
COT-MW12d	7/22/2016	12:52	32.59	79.88		
COT-MW12d	8/17/2016	13:18	32.74	79.73		
COT-MW12d	9/16/2016	9:35	32.91	79.56		
COT-MW12d	10/14/2016	9:50	32.87	79.60		
COT-MW12d	11/29/2016	12:57	33.27	79.20		
COT-MW12d	12/13/2016	11:48	33.41	79.06		
COT-MW12d	1/26/2017	15:02	33.66	78.81		
COT-MW12d	2/1/2017		N/M			
COT-MW12d	3/16/2017	12:28	33.03	79.44		
COT-MW12d	4/21/2017	9:05	32.64	79.83		
COT-MW12d	5/19/2017	9:27	32.57	79.90		
COT-MW12d	6/24/2017	14:27	32.50	79.97		
COT-MW12d	7/14/2017	12:54	32.73	79.74		
COT-MW12d	8/29/2017	7:54	33.13	79.34		
COT-MW12d	9/23/2017	9:36	33.25	79.22		
COT-MW12d	10/20/2017	14:56	33.34	79.13		
COT-MW12d	11/17/2017	10:32	33.59	78.88		
COT-MW12d	12/29/2017	15:40	34.00	78.47		
COT-MW12d	1/22/2018	10:45	34.20	78.27		
COT-MW12d	2/23/2018	13:45	34.72	77.75		
COT-MW12d	3/1/2018		N/M			
COT-MW12d	4/25/2018	15:18	34.93	77.54		
COT-MW12d	5/14/2018	9:24	35.14	77.33		
COT-MW12d	6/13/2018	17:46	35.12	77.35		
COT-MW12d	7/16/2018	15:25	35.41	77.06		
COT-MW12d	8/21/2018	12:22	35.71	76.76		
COT-MW12d	9/12/2018	13:23	35.68	76.79		
COT-MW12d	10/25/2018	16:38	35.98	76.49		
COT-MW12d	11/14/2018	11:27	36.60	75.87		
COT-MW12d	12/14/2018	10:28	36.49	75.98		
COT-MW12d	1/24/2019	10:21	36.38	76.09		
COT-MW12d	3/1/2019	8:53	36.14	76.33		
COT-MW12d	3/17/2019	12:01	36.04	76.43		
COT-MW12d	4/15/2019	15:24	36.02	76.45		
COT-MW12d	5/24/2019	10:34	36.10	76.37		
COT-MW12d	6/20/2019	14:17	36.12	76.35		
COT-MW12d	7/17/2019	14:11	36.28	76.19		
COT-MW12d	8/23/2019	9:03	36.59	75.88		
COT-MW12d	9/27/2019	9:22	36.86	75.61		
COT-MW12d	10/25/2019	13:08	37.03	75.44		
COT-MW12d	11/13/2019	11:29	37.18	75.29		
COT-MW12d	12/14/2019	15:48	37.29	75.18		
COT-MW13s	1/30/2012	11:17	25.33	89.70	0.45	0.02
COT-MW13s	2/13/2012	14:43	25.10	89.93	0.52	0.03
COT-MW13s	3/5/2012	12:33	26.15	88.88	0.45	0.02
COT-MW13s	4/9/2012	12:13	27.49	87.54	0.59	0.03
COT-MW13s	5/15/2012	10:30	27.63	87.40	0.39	0.02
COT-MW13s	6/21/2012	17:27	27.08	87.95	0.61	0.03
COT-MW13s	7/11/2012	10:57	25.72	89.31	0.54	0.03
COT-MW13s	8/16/2012	11:52	26.19	88.84	0.38	0.02
COT-MW13s	9/20/2012	13:17	24.08	90.95	0.38	0.02
COT-MW13s	10/20/2012	12:11	20.68	94.35	0.43	0.02
COT-MW13s	12/9/2012	10:33	21.04	93.99	0.46	0.02
COT-MW13s	12/31/2012	14:51	21.32	93.71	0.47	0.02
COT-MW13s	1/15/2013	14:39	21.39	93.64	0.45	0.02
COT-MW13s	2/17/2013	14:40	24.00	91.03	0.50	0.02
COT-MW13s	3/24/2013	10:57	26.00	89.03	0.44	0.02
COT-MW13s	4/17/2013	13:56	26.77	88.26	0.44	0.02
COT-MW13s	6/2/2013	9:16	26.39	88.64	0.62	0.03
COT-MW13s	6/17/2013	15:08	28.44	86.59	0.62	0.03
COT-MW13s	7/16/2013	10:47	29.97	85.06	0.58	0.03
COT-MW13s	8/28/2013	11:36	30.14	84.89	0.63	0.03
COT-MW13s	9/9/2013	16:50	29.84	85.19	0.40	0.02
COT-MW13s	10/7/2013	16:30	29.13	85.90	0.46	0.02
COT-MW13s	11/15/2013	9:04	29.48	85.55	0.49	0.02
COT-MW13s	12/18/2013	13:31	29.44	85.59	0.48	0.02
COT-MW13s	1/14/2014	13:04	30.03	85.00	0.56	0.03
COT-MW13s	2/20/2014	10:30	31.38	83.65	0.49	0.02
COT-MW13s	3/17/2014	14:36	31.56	83.47	0.65	0.03
COT-MW13s	4/19/2014	12:59	Dry			
COT-MW13s	5/27/2014	7:45	Dry			
COT-MW13s	6/19/2014	18:45	Dry			
COT-MW13s	7/17/2014	8:29	Dry			
COT-MW13s	8/26/2014	13:04	Dry			
COT-MW13s	9/19/2014	9:30	32.75	82.28	1.34	0.07
COT-MW13s	10/14/2014	12:42	Dry			
COT-MW13s	11/12/2014	11:25	Dry			
COT-MW13s	12/14/2014	16:36	32.96	82.07	0.45	0.02
COT-MW13s	1/13/2015	15:15	28.79	86.24	0.45	0.02
COT-MW13s	2/11/2015	14:56	30.95	84.08	0.46	0.02
COT-MW13s	3/13/2015	13:20	Dry			
COT-MW13s	4/17/2015	11:39	Dry			
COT-MW13s	5/14/2015	12:00	Dry			
COT-MW13s	6/4/2015	14:50	Dry			
COT-MW13s	7/21/2015	10:59	Dry			
COT-MW13s	8/14/2015	13:10	Dry			
COT-MW13s	9/14/2015	17:14	Dry			
COT-MW13s	10/16/2015	16:34	Dry			
COT-MW13s	11/20/2015	12:28	Dry			
COT-MW13s	12/18/2015	14:11	Q/M			
COT-MW13s	1/16/2016	11:50	Dry			
COT-MW13s	2/23/2016	16:33	Dry			
COT-MW13s	3/19/2016	13:18	Dry			
COT-MW13s	4/18/2016	10:20	Dry			
COT-MW13s	5/18/2016	11:53	Dry			
COT-MW13s	6/16/2016	16:03	Dry			
COT-MW13s	7/22/2016	12:56	Dry			
COT-MW13s	8/17/2016	13:21	Dry			
COT-MW13s	9/16/2016	9:38	Dry			
COT-MW13s	10/14/2016	9:52	Dry			
COT-MW13s	11/29/2016	12:53	Dry			
COT-MW13s	12/13/2016	11:50	Dry			
COT-MW13s	1/26/2017	15:04	Dry			
COT-MW13s	2/1/2017		N/M			
COT-MW13s	3/16/2017	12:30	Dry			
COT-MW13s	4/21/2017	9:07	Dry			
COT-MW13s	5/19/2017	9:30	Dry			
COT-MW13s	6/24/2017	14:28	Dry			
COT-MW13s	7/14/2017	12:57	Dry			
COT-MW13s	8/29/2017	7:57	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
COT-MW13s	9/23/2017	9:40	Dry			
COT-MW13s	10/20/2017	14:57	Dry			
COT-MW13s	11/17/2017	10:34	Dry			
COT-MW13s	12/29/2017	15:33	Dry			
COT-MW13s	1/22/2018	10:41	Dry			
COT-MW13s	2/23/2018	13:48	Dry			
COT-MW13s	3/1/2018		N/M			
COT-MW13s	4/25/2018	15:22	Dry			
COT-MW13s	5/14/2018	9:27	Dry			
COT-MW13s	6/13/2018	17:47	Dry			
COT-MW13s	7/16/2018	15:26	Dry			
COT-MW13s	8/21/2018	12:25	Dry			
COT-MW13s	9/12/2018	13:26	Dry			
COT-MW13s	10/25/2018	16:40	Dry			
COT-MW13s	11/14/2018	11:31	Dry			
COT-MW13s	12/14/2018	10:29	Dry			
COT-MW13s	1/24/2019	10:25	Dry			
COT-MW13s	3/1/2019	8:50	Dry			
COT-MW13s	3/17/2019	11:59	Dry			
COT-MW13s	4/15/2019	15:27	Dry			
COT-MW13s	5/24/2019	10:37	Dry			
COT-MW13s	6/20/2019	14:20	Dry			
COT-MW13s	7/17/2019	14:14	Dry			
COT-MW13s	8/23/2019	9:00	Dry			
COT-MW13s	9/27/2019	9:26	Dry			
COT-MW13s	10/25/2019	13:13	Dry			
COT-MW13s	11/13/2019	11:26	Dry			
COT-MW13s	12/14/2019	15:52	Dry			
COT-MW13d	1/30/2012	11:19	25.19	89.25		
COT-MW13d	2/13/2012	14:44	25.03	89.41		
COT-MW13d	3/5/2012	12:39	26.01	88.43		
COT-MW13d	4/9/2012	12:12	27.49	86.95		
COT-MW13d	5/15/2012	10:32	27.43	87.01		
COT-MW13d	6/21/2012	17:28	27.10	87.34		
COT-MW13d	7/11/2012	10:57	25.67	88.77		
COT-MW13d	8/16/2012	11:52	25.98	88.46		
COT-MW13d	9/20/2012	13:17	23.87	90.57		
COT-MW13d	10/20/2012	12:11	20.52	93.92		
COT-MW13d	12/9/2012	10:33	20.91	93.53		
COT-MW13d	12/31/2012	14:52	21.20	93.24		
COT-MW13d	1/15/2013	14:39	21.25	93.19		
COT-MW13d	2/17/2013	14:41	23.91	90.53		
COT-MW13d	3/24/2013	10:58	25.85	88.59		
COT-MW13d	4/17/2013	13:56	26.62	87.82		
COT-MW13d	6/2/2013	9:16	26.42	88.02		
COT-MW13d	6/17/2013	15:09	28.47	85.97		
COT-MW13d	7/16/2013	10:48	29.96	84.48		
COT-MW13d	8/28/2013	11:36	30.18	84.26		
COT-MW13d	9/9/2013	16:50	29.65	84.79		
COT-MW13d	10/7/2013	16:30	29.00	85.44		
COT-MW13d	11/15/2013	9:04	29.38	85.06		
COT-MW13d	12/18/2013	13:31	29.33	85.11		
COT-MW13d	1/14/2014	13:04	30.00	84.44		
COT-MW13d	2/20/2014	10:30	31.28	83.16		
COT-MW13d	3/17/2014	14:36	31.62	82.82		
COT-MW13d	4/19/2014	12:59	33.23	81.21		
COT-MW13d	5/27/2014	7:45	33.10	81.34		
COT-MW13d	6/19/2014	18:45	33.06	81.38		
COT-MW13d	7/17/2014	8:29	33.93	80.51		
COT-MW13d	8/26/2014	13:04	33.25	81.19		
COT-MW13d	9/19/2014	9:30	33.50	80.94		
COT-MW13d	10/14/2014	12:42	34.15	80.29		
COT-MW13d	11/12/2014	11:25	32.60	81.84		
COT-MW13d	12/14/2014	16:36	32.82	81.62		
COT-MW13d	1/13/2015	15:15	28.65	85.79		
COT-MW13d	2/11/2015	14:56	30.82	83.62		
COT-MW13d	3/13/2015	13:20	32.85	81.59		
COT-MW13d	4/17/2015	11:39	32.38	82.06		
COT-MW13d	5/14/2015	12:00	34.60	79.84		
COT-MW13d	6/4/2015	14:50	35.45	78.99		
COT-MW13d	7/21/2015	10:59	38.11	76.33		
COT-MW13d	8/14/2015	13:11	37.85	76.59		
COT-MW13d	9/14/2015	17:15	37.85	76.59		
COT-MW13d	10/16/2015	16:35	37.30	77.14		
COT-MW13d	11/20/2015	12:30	37.13	77.31		
COT-MW13d	12/18/2015	14:12	37.35	77.09		
COT-MW13d	1/16/2016	11:51	36.39	78.05		
COT-MW13d	2/23/2016	16:34	35.58	78.86		
COT-MW13d	3/19/2016	13:18	35.98	78.46		
COT-MW13d	4/18/2016	10:21	35.62	78.82		
COT-MW13d	5/18/2016	11:54	34.31	80.13		
COT-MW13d	6/16/2016	16:04	34.38	80.06		
COT-MW13d	7/22/2016	12:56	34.14	80.30		
COT-MW13d	8/17/2016	13:21	34.92	79.52		
COT-MW13d	9/16/2016	9:39	34.56	79.88		
COT-MW13d	10/14/2016	9:53	34.42	80.02		
COT-MW13d	11/29/2016	12:54	34.66	79.78		
COT-MW13d	12/13/2016	11:51	34.69	79.75		
COT-MW13d	1/26/2017	15:05	34.86	79.58		
COT-MW13d	2/1/2017		N/M			
COT-MW13d	3/16/2017	12:31	34.00	80.44		
COT-MW13d	4/21/2017	9:08	33.58	80.86		
COT-MW13d	5/19/2017	9:30	33.43	81.01		
COT-MW13d	6/24/2017	14:29	33.53	80.91		
COT-MW13d	7/14/2017	12:57	33.77	80.67		
COT-MW13d	8/29/2017	7:57	34.22	80.22		
COT-MW13d	9/23/2017	9:39	34.31	80.13		
COT-MW13d	10/20/2017	14:58	34.43	80.01		
COT-MW13d	11/17/2017	10:34	34.71	79.73		
COT-MW13d	12/29/2017	15:35	35.11	79.33		
COT-MW13d	1/22/2018	10:42	35.30	79.14		
COT-MW13d	2/23/2018	13:48	35.62	78.82		
COT-MW13d	3/1/2018		N/M			
COT-MW13d	4/25/2018	15:22	35.90	78.54		
COT-MW13d	5/14/2018	9:26	35.95	78.49		
COT-MW13d	6/13/2018	17:48	36.09	78.35		
COT-MW13d	7/16/2018	15:27	36.49	77.95		
COT-MW13d	8/21/2018	12:25	36.85	77.59		
COT-MW13d	9/12/2018	13:26	36.98	77.46		
COT-MW13d	10/25/2018	16:41	37.29	77.15		
COT-MW13d	11/14/2018	11:31	37.64	76.80		
COT-MW13d	12/14/2018	10:30	37.72	76.72		
COT-MW13d	1/24/2019	10:26	37.54	76.90		
COT-MW13d	3/1/2019	8:50	37.28	77.16		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
COT-MW13d	3/17/2019	11:58	37.12	77.32		
COT-MW13d	4/15/2019	15:27	37.10	77.34		
COT-MW13d	5/24/2019	10:37	37.37	77.07		
COT-MW13d	6/20/2019	14:20	37.43	77.01		
COT-MW13d	7/17/2019	14:14	37.63	76.81		
COT-MW13d	8/23/2019	9:00	37.90	76.54		
COT-MW13d	9/27/2019	9:26	38.18	76.26		
COT-MW13d	10/25/2019	13:13	38.33	76.11		
COT-MW13d	11/13/2019	11:26	38.50	75.94		
COT-MW13d	12/14/2019	15:51	38.66	75.78		
COT-MW14s	1/30/2012	11:24	25.30	90.25	<|0.05|	0
COT-MW14s	2/13/2012	15:25	26.16	89.39	-1.02	-0.05
COT-MW14s	3/5/2012	12:41	25.94	89.61	<|0.05|	0
COT-MW14s	4/9/2012	12:28	27.08	88.47	0.08	0.00
COT-MW14s	5/15/2012	10:49	27.47	88.08	<|0.05|	0
COT-MW14s	6/21/2012	17:30	27.93	87.62	<|0.05|	0
COT-MW14s	7/11/2012	11:11	27.25	88.30	<|0.05|	0
COT-MW14s	8/16/2012	11:59	27.60	87.95	<|0.05|	0
COT-MW14s	9/20/2012	13:21	25.39	90.16	0.07	0.00
COT-MW14s	10/20/2012	12:16	22.45	93.10	<|0.05|	0
COT-MW14s	12/9/2012	10:28	22.29	93.26	<|0.05|	0
COT-MW14s	12/31/2012	15:05	22.26	93.29	<|0.05|	0
COT-MW14s	1/15/2013	14:43	22.44	93.11	0.06	0.00
COT-MW14s	2/17/2013	17:13	24.61	90.94	<|0.05|	0
COT-MW14s	3/24/2013	11:00	26.29	89.26	<|0.05|	0
COT-MW14s	4/17/2013	14:07	27.07	88.48	<|0.05|	0
COT-MW14s	6/2/2013	9:45	28.24	87.31	<|0.05|	0
COT-MW14s	6/17/2013	15:13	29.94	85.61	<|0.05|	0
COT-MW14s	7/16/2013	12:20	31.49	84.06	<|0.05|	0
COT-MW14s	8/28/2013	11:50	31.05	84.50	<|0.05|	0
COT-MW14s	9/9/2013	16:58	30.54	85.01	<|0.05|	0
COT-MW14s	10/7/2013	16:33	30.38	85.17	0.07	0.00
COT-MW14s	11/15/2013	9:13	30.24	85.31	<|0.05|	0
COT-MW14s	12/18/2013	13:41	30.18	85.37	0.12	0.01
COT-MW14s	1/14/2014	12:48	30.55	85.00	<|0.05|	0
COT-MW14s	2/20/2014	10:11	31.67	83.88	<|0.05|	0
COT-MW14s	3/17/2014	14:44	31.94	83.61	<|0.05|	0
COT-MW14s	4/19/2014	13:06	Dry			
COT-MW14s	5/27/2014	7:53	Dry			
COT-MW14s	6/19/2014	18:54	Dry			
COT-MW14s	7/17/2014	9:21	Dry			
COT-MW14s	8/26/2014	15:12	Dry			
COT-MW14s	9/19/2014	9:42	Dry			
COT-MW14s	10/14/2014	12:51	Dry			
COT-MW14s	11/12/2014	11:39	Dry			
COT-MW14s	12/14/2014	17:24	Dry			
COT-MW14s	1/13/2015	15:34	30.86	84.69	<|0.05|	0
COT-MW14s	2/11/2015	15:09	32.00	83.55	<|0.05|	0
COT-MW14s	3/13/2015	13:24	Dry			
COT-MW14s	4/17/2015	11:43	Dry			
COT-MW14s	5/14/2015	12:03	Dry			
COT-MW14s	6/4/2015	14:57	Dry			
COT-MW14s	7/21/2015	11:34	Dry			
COT-MW14s	8/14/2015	13:06	Dry			
COT-MW14s	9/14/2015	17:51	Dry			
COT-MW14s	10/16/2015	17:10	Dry			
COT-MW14s	11/20/2015	12:35	Dry			
COT-MW14s	12/18/2015	15:01	Dry			
COT-MW14s	1/16/2016	12:50	Dry			
COT-MW14s	2/23/2016	16:53	Dry			
COT-MW14s	3/19/2016	13:39	Dry			
COT-MW14s	4/18/2016	10:14	Dry			
COT-MW14s	5/18/2016	11:46	Dry			
COT-MW14s	6/16/2016	16:30	Dry			
COT-MW14s	7/22/2016	13:14	Dry			
COT-MW14s	8/17/2016	14:09	Dry			
COT-MW14s	9/16/2016	10:02	Dry			
COT-MW14s	10/14/2016	10:17	Dry			
COT-MW14s	11/29/2016	12:23	Dry			
COT-MW14s	12/13/2016	12:25	Dry			
COT-MW14s	1/26/2017	15:37	Dry			
COT-MW14s	2/1/2017		N/M			
COT-MW14s	3/16/2017	13:00	Dry			
COT-MW14s	4/21/2017	9:30	Dry			
COT-MW14s	5/19/2017	9:34	Dry			
COT-MW14s	6/24/2017	14:54	Dry			
COT-MW14s	7/14/2017	13:03	Dry			
COT-MW14s	8/29/2017	8:00	Dry			
COT-MW14s	9/23/2017	9:29	Dry			
COT-MW14s	10/20/2017	15:24	Dry			
COT-MW14s	11/17/2017	10:38	Dry			
COT-MW14s	12/29/2017	15:26	Dry			
COT-MW14s	1/22/2018	10:10	Dry			
COT-MW14s	2/23/2018	13:43	Dry			
COT-MW14s	3/1/2018		N/M			
COT-MW14s	4/25/2018	15:41	Dry			
COT-MW14s	5/14/2018	9:19	Dry			
COT-MW14s	6/13/2018	17:40	Dry			
COT-MW14s	7/16/2018	15:20	Dry			
COT-MW14s	8/21/2018	12:18	Dry			
COT-MW14s	9/12/2018	13:30	Dry			
COT-MW14s	10/25/2018	16:35	Dry			
COT-MW14s	11/14/2018	11:40	Dry			
COT-MW14s	12/14/2018	11:00	Dry			
COT-MW14s	1/24/2019	10:50	Dry			
COT-MW14s	3/1/2019	8:35	Dry			
COT-MW14s	3/17/2019	11:38	Dry			
COT-MW14s	4/15/2019	15:16	Dry			
COT-MW14s	5/24/2019	10:26	Dry			
COT-MW14s	6/20/2019	14:11	Dry			
COT-MW14s	7/17/2019	13:56	Dry			
COT-MW14s	8/23/2019	9:31	Dry			
COT-MW14s	9/27/2019	9:16	Dry			
COT-MW14s	10/25/2019	12:59	Dry			
COT-MW14s	11/13/2019	11:38	Dry			
COT-MW14s	12/14/2019	15:42	Dry			
COT-MW14d	1/30/2012	11:28	24.98	90.28		
COT-MW14d	2/13/2012	15:26	24.85	90.41		
COT-MW14d	3/5/2012	12:45	25.61	89.65		
COT-MW14d	4/9/2012	12:27	26.87	88.39		
COT-MW14d	5/15/2012	10:50	27.15	88.11		
COT-MW14d	6/21/2012	17:30	27.66	87.60		
COT-MW14d	7/11/2012	11:11	26.95	88.31		
COT-MW14d	8/16/2012	11:59	27.27	87.99		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
COT-MW14d	9/20/2012	13:21	25.17	90.09		
COT-MW14d	10/20/2012	12:16	22.12	93.14		
COT-MW14d	12/9/2012	10:28	21.99	93.27		
COT-MW14d	12/31/2012	15:06	21.95	93.31		
COT-MW14d	1/15/2013	14:43	22.21	93.05		
COT-MW14d	2/17/2013	17:14	24.30	90.96		
COT-MW14d	3/24/2013	11:00	25.95	89.31		
COT-MW14d	4/17/2013	14:07	26.75	88.51		
COT-MW14d	6/2/2013	9:45	27.98	87.28		
COT-MW14d	6/17/2013	15:14	29.67	85.59		
COT-MW14d	7/16/2013	12:22	31.20	84.06		
COT-MW14d	8/28/2013	11:50	30.77	84.49		
COT-MW14d	9/9/2013	16:58	30.25	85.01		
COT-MW14d	10/7/2013	16:33	30.16	85.10		
COT-MW14d	11/15/2013	9:13	29.93	85.33		
COT-MW14d	12/18/2013	13:41	30.01	85.25		
COT-MW14d	1/14/2014	12:48	30.26	85.00		
COT-MW14d	2/20/2014	10:11	31.38	83.88		
COT-MW14d	3/17/2014	14:44	31.64	83.62		
COT-MW14d	4/19/2014	13:06	32.93	82.33		
COT-MW14d	5/27/2014	7:53	33.23	82.03		
COT-MW14d	6/19/2014	18:54	33.29	81.97		
COT-MW14d	7/17/2014	9:21	34.20	81.06		
COT-MW14d	8/26/2014	15:12	33.83	81.43		
COT-MW14d	9/19/2014	9:42	34.15	81.11		
COT-MW14d	10/14/2014	12:51	34.02	81.24		
COT-MW14d	11/12/2014	11:39	33.26	82.00		
COT-MW14d	12/14/2014	17:24	31.65	83.61		
COT-MW14d	1/13/2015	15:34	30.54	84.72		
COT-MW14d	2/11/2015	15:09	31.70	83.56		
COT-MW14d	3/13/2015	13:24	33.78	81.48		
COT-MW14d	4/17/2015	11:43	32.36	82.90		
COT-MW14d	5/14/2015	12:03	35.85	79.41		
COT-MW14d	6/4/2015	14:57	36.88	78.38		
COT-MW14d	7/21/2015	11:34	38.42	76.84		
COT-MW14d	8/14/2015	13:07	38.29	76.97		
COT-MW14d	9/14/2015	17:52	38.09	77.17		
COT-MW14d	10/16/2015	17:11	37.65	77.61		
COT-MW14d	11/20/2015	12:36	37.38	77.88		
COT-MW14d	12/18/2015	15:02	37.55	77.71		
COT-MW14d	1/16/2016	12:51	36.76	78.50		
COT-MW14d	2/23/2016	16:54	36.11	79.15		
COT-MW14d	3/19/2016	13:39	36.30	78.96		
COT-MW14d	4/18/2016	10:15	35.98	79.28		
COT-MW14d	5/18/2016	11:45	35.00	80.26		
COT-MW14d	6/16/2016	16:31	35.40	79.86		
COT-MW14d	7/22/2016	13:14	35.12	80.14		
COT-MW14d	8/17/2016	14:09	35.76	79.50		
COT-MW14d	9/16/2016	10:03	35.53	79.73		
COT-MW14d	10/14/2016	10:18	35.40	79.86		
COT-MW14d	11/29/2016	12:24	35.49	79.77		
COT-MW14d	12/13/2016	12:26	35.58	79.68		
COT-MW14d	1/26/2017	15:38	35.70	79.56		
COT-MW14d	2/1/2017		N/M			
COT-MW14d	3/16/2017	13:00	34.97	80.29		
COT-MW14d	4/21/2017	9:31	34.54	80.72		
COT-MW14d	5/19/2017	9:34	34.38	80.88		
COT-MW14d	6/24/2017	14:55	34.49	80.77		
COT-MW14d	7/14/2017	13:03	34.75	80.51		
COT-MW14d	8/29/2017	8:00	35.17	80.09		
COT-MW14d	9/23/2017	9:30	35.19	80.07		
COT-MW14d	10/20/2017	15:25	35.26	80.00		
COT-MW14d	11/17/2017	10:38	35.60	79.66		
COT-MW14d	12/29/2017	15:27	35.92	79.34		
COT-MW14d	1/22/2018	10:11	36.12	79.14		
COT-MW14d	2/23/2018	13:43	36.49	78.77		
COT-MW14d	3/1/2018		N/M			
COT-MW14d	4/25/2018	15:42	36.53	78.73		
COT-MW14d	5/14/2018	9:19	36.76	78.50		
COT-MW14d	6/13/2018	17:41	36.90	78.36		
COT-MW14d	7/16/2018	15:20	37.32	77.94		
COT-MW14d	8/21/2018	12:18	37.63	77.63		
COT-MW14d	9/12/2018	13:30	37.72	77.54		
COT-MW14d	10/25/2018	16:34	37.99	77.27		
COT-MW14d	11/14/2018	11:40	38.30	76.96		
COT-MW14d	12/14/2018	11:01	38.35	76.91		
COT-MW14d	1/24/2019	10:51	38.29	76.97		
COT-MW14d	3/1/2019	8:35	38.13	77.13		
COT-MW14d	3/17/2019	11:39	37.97	77.29		
COT-MW14d	4/15/2019	15:16	38.02	77.24		
COT-MW14d	5/24/2019	10:26	38.33	76.93		
COT-MW14d	6/20/2019	14:11	38.38	76.88		
COT-MW14d	7/17/2019	13:56	38.52	76.74		
COT-MW14d	8/23/2019	9:31	38.75	76.51		
COT-MW14d	9/27/2019	9:16	39.00	76.26		
COT-MW14d	10/25/2019	12:59	39.12	76.14		
COT-MW14d	11/13/2019	11:38	39.28	75.98		
COT-MW14d	12/14/2019	15:43	39.42	75.84		
SAN-MW1s	1/30/2012	11:45	22.36	93.87	-0.06	-0.00
SAN-MW1s	2/13/2012	13:55	23.52	92.71	0.21	0.01
SAN-MW1s	3/5/2012	12:55	23.46	92.77	0.76	0.04
SAN-MW1s	4/9/2012	13:51	24.90	91.33	0.84	0.04
SAN-MW1s	5/15/2012	12:57	23.70	92.53	0.85	0.04
SAN-MW1s	6/21/2012	16:08	Dry			
SAN-MW1s	7/11/2012	12:24	Dry			
SAN-MW1s	8/16/2012	11:47	Dry			
SAN-MW1s	9/20/2012	14:29	Dry			
SAN-MW1s	10/20/2012	13:24	Dry			
SAN-MW1s	12/9/2012	9:10	Dry			
SAN-MW1s	12/31/2012	15:24	Dry			
SAN-MW1s	1/16/2013	9:35	Dry			
SAN-MW1s	2/17/2013	16:08	25.00	91.23	<|0.05|	0
SAN-MW1s	3/24/2013	9:48	Dry			
SAN-MW1s	4/17/2013	15:03	24.93	91.30	0.14	0.01
SAN-MW1s	6/2/2013	14:40	Dry			
SAN-MW1s	6/17/2013	16:28	Dry			
SAN-MW1s	7/16/2013	12:45	Dry			
SAN-MW1s	8/28/2013	15:30	Dry			
SAN-MW1s	9/9/2013	17:56	Dry			
SAN-MW1s	10/7/2013	17:12	Dry			
SAN-MW1s	11/18/2013	10:44	Dry			
SAN-MW1s	12/18/2013	14:39	Dry			
SAN-MW1s	1/14/2014	11:35	Dry			
SAN-MW1s	2/25/2014	11:45	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SAN-MW1s	3/17/2014	15:50	Dry			
SAN-MW1s	4/19/2014	14:12	Dry			
SAN-MW1s	5/27/2014	9:01	Dry			
SAN-MW1s	6/19/2014	19:58	Dry			
SAN-MW1s	7/17/2014	10:17	Dry			
SAN-MW1s	8/26/2014	17:24	Dry			
SAN-MW1s	9/19/2014	8:47	Dry			
SAN-MW1s	10/14/2014	13:37	Dry			
SAN-MW1s	11/12/2014	12:51	Dry			
SAN-MW1s	12/15/2014	17:11	Dry			
SAN-MW1s	1/13/2015	16:16	Dry			
SAN-MW1s	2/12/2015	7:54	Dry			
SAN-MW1s	3/13/2015	14:32	Dry			
SAN-MW1s	4/17/2015	12:23	Dry			
SAN-MW1s	5/13/2015	15:12	Dry			
SAN-MW1s	6/4/2015	15:44	Dry			
SAN-MW1s	7/21/2015	12:53	Dry			
SAN-MW1s	8/14/2015	12:52	Dry			
SAN-MW1s	9/14/2015	18:25	Dry			
SAN-MW1s	10/16/2015	17:48	Dry			
SAN-MW1s	11/18/2015	14:52	Dry			
SAN-MW1s	12/18/2015	15:42	Dry			
SAN-MW1s	1/16/2016	13:19	Dry			
SAN-MW1s	2/24/2016	12:44	Dry			
SAN-MW1s	3/19/2016	14:36	Dry			
SAN-MW1s	4/18/2016	9:05	Dry			
SAN-MW1s	5/18/2016	8:55	Dry			
SAN-MW1s	6/16/2016	17:13	Dry			
SAN-MW1s	7/22/2016	14:04	Dry			
SAN-MW1s	8/18/2016	10:07	Dry			
SAN-MW1s	9/16/2016	10:47	Dry			
SAN-MW1s	10/14/2016	11:06	Dry			
SAN-MW1s	12/1/2016	10:26	Dry			
SAN-MW1s	12/13/2016	13:09	Dry			
SAN-MW1s	1/26/2017	16:23	Dry			
SAN-MW1s	2/1/2017		N/M			
SAN-MW1s	3/16/2017	16:56	Dry			
SAN-MW1s	4/21/2017	10:15	Dry			
SAN-MW1s	5/19/2017	13:37	Dry			
SAN-MW1s	6/24/2017	15:27	Dry			
SAN-MW1s	7/14/2017	13:47	Dry			
SAN-MW1s	8/28/2017	14:30	Dry			
SAN-MW1s	9/23/2017	10:40	Dry			
SAN-MW1s	10/20/2017	16:03	Dry			
SAN-MW1s	11/17/2017	14:25	Dry			
SAN-MW1s	12/29/2017	13:45	Dry			
SAN-MW1s	1/22/2018	9:22	Dry			
SAN-MW1s	2/27/2018	14:21	Dry			
SAN-MW1s	3/1/2018		N/M			
SAN-MW1s	4/25/2018	16:39	Dry			
SAN-MW1s	5/14/2018	14:00	Dry			
SAN-MW1s	6/13/2018	18:50	Dry			
SAN-MW1s	7/16/2018	16:21	Dry			
SAN-MW1s	8/21/2018	15:05	Dry			
SAN-MW1s	9/12/2018	14:27	Dry			
SAN-MW1s	10/25/2018	17:42	Dry			
SAN-MW1s	11/14/2018	15:59	Dry			
SAN-MW1s	12/14/2018	11:48	Dry			
SAN-MW1s	1/24/2019	11:31	Dry			
SAN-MW1s	3/1/2019	7:40	Dry			
SAN-MW1s	3/17/2019	10:59	Dry			
SAN-MW1s	4/15/2019	16:14	Dry			
SAN-MW1s	5/23/2019	14:03	Dry			
SAN-MW1s	6/20/2019	15:10	Dry			
SAN-MW1s	7/17/2019	15:00	Dry			
SAN-MW1s	8/23/2019	8:16	Dry			
SAN-MW1s	9/27/2019	9:58	Dry			
SAN-MW1s	10/25/2019	14:01	Dry			
SAN-MW1s	11/14/2019	12:17	Dry			
SAN-MW1s	12/14/2019	16:44	Dry			
SAN-MW1d	1/30/2012	11:46	22.10	93.93		
SAN-MW1d	2/13/2012	13:56	23.53	92.50		
SAN-MW1d	3/5/2012	12:56	24.02	92.01		
SAN-MW1d	4/9/2012	13:50	25.54	90.49		
SAN-MW1d	5/15/2012	12:58	24.35	91.68		
SAN-MW1d	6/21/2012	16:08	27.30	88.73		
SAN-MW1d	7/11/2012	12:24	28.00	88.03		
SAN-MW1d	8/16/2012	11:47	29.73	86.30		
SAN-MW1d	9/20/2012	14:29	30.00	86.03		
SAN-MW1d	10/20/2012	13:24	30.11	85.92		
SAN-MW1d	12/9/2012	9:10	29.19	86.84		
SAN-MW1d	12/31/2012	15:25	28.03	88.00		
SAN-MW1d	1/16/2013	9:36	26.96	89.07		
SAN-MW1d	2/17/2013	16:09	24.84	91.19		
SAN-MW1d	3/24/2013	9:48	25.71	90.32		
SAN-MW1d	4/17/2013	15:03	24.87	91.16		
SAN-MW1d	6/2/2013	14:40	28.35	87.68		
SAN-MW1d	6/17/2013	16:29	28.35	87.68		
SAN-MW1d	7/16/2013	12:46	31.18	84.85		
SAN-MW1d	8/28/2013	15:30	32.95	83.08		
SAN-MW1d	9/9/2013	17:56	32.94	83.09		
SAN-MW1d	10/7/2013	17:12	32.53	83.50		
SAN-MW1d	11/18/2013	10:44	31.60	84.43		
SAN-MW1d	12/18/2013	14:39	31.66	84.37		
SAN-MW1d	1/14/2014	11:35	30.22	85.81		
SAN-MW1d	2/25/2014	11:45	29.91	86.12		
SAN-MW1d	3/17/2014	15:50	29.49	86.54		
SAN-MW1d	4/19/2014	14:12	30.60	85.43		
SAN-MW1d	5/27/2014	9:01	33.82	82.21		
SAN-MW1d	6/19/2014	19:58	36.88	79.15		
SAN-MW1d	7/17/2014	10:17	38.69	77.34		
SAN-MW1d	8/26/2014	17:24	38.69	77.34		
SAN-MW1d	9/19/2014	8:47	38.05	77.98		
SAN-MW1d	10/14/2014	13:37	38.95	77.08		
SAN-MW1d	11/12/2014	12:51	37.62	78.41		
SAN-MW1d	12/15/2014	17:11	37.19	78.84		
SAN-MW1d	1/13/2015	16:16	36.90	79.13		
SAN-MW1d	2/12/2015	7:54	36.98	79.05		
SAN-MW1d	3/13/2015	14:32	37.55	78.48		
SAN-MW1d	4/17/2015	12:23	38.73	77.30		
SAN-MW1d	5/13/2015	15:12	40.44	75.59		
SAN-MW1d	6/4/2015	15:44	42.21	73.82		
SAN-MW1d	7/21/2015	12:53	44.24	71.79		
SAN-MW1d	8/14/2015	12:52	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SAN-MW1d	9/14/2015	18:26	Dry			
SAN-MW1d	10/16/2015	17:49	Dry			
SAN-MW1d	11/18/2015	14:53	Dry			
SAN-MW1d	12/18/2015	15:43	44.37	71.66		
SAN-MW1d	1/16/2016	13:20	43.60	72.43		
SAN-MW1d	2/24/2016	12:45	42.62	73.41		
SAN-MW1d	3/19/2016	14:36	41.93	74.10		
SAN-MW1d	4/18/2016	9:06	40.98	75.05		
SAN-MW1d	5/18/2016	8:56	39.78	76.25		
SAN-MW1d	6/16/2016	17:14	39.74	76.29		
SAN-MW1d	7/22/2016	14:04	42.19	73.84		
SAN-MW1d	8/18/2016	10:06	43.10	72.93		
SAN-MW1d	9/16/2016	10:48	42.58	73.45		
SAN-MW1d	10/14/2016	11:07	41.72	74.31		
SAN-MW1d	12/1/2016	10:25	40.62	75.41		
SAN-MW1d	12/13/2016	13:10	40.41	75.62		
SAN-MW1d	1/26/2017	16:24	39.58	76.45		
SAN-MW1d	2/1/2017		N/M			
SAN-MW1d	3/16/2017	16:57	37.62	78.41		
SAN-MW1d	4/21/2017	10:16	36.70	79.33		
SAN-MW1d	5/19/2017	13:38	36.88	79.15		
SAN-MW1d	6/24/2017	15:28	39.30	76.73		
SAN-MW1d	7/14/2017	13:47	38.69	77.34		
SAN-MW1d	8/28/2017	14:30	36.92	79.11		
SAN-MW1d	9/23/2017	10:40	36.68	79.35		
SAN-MW1d	10/20/2017	16:02	38.14	77.89		
SAN-MW1d	11/17/2017	14:25	36.37	79.66		
SAN-MW1d	12/29/2017	13:47	36.70	79.33		
SAN-MW1d	1/22/2018	9:23	36.38	79.65		
SAN-MW1d	2/27/2018	14:21	36.54	79.49		
SAN-MW1d	3/1/2018		N/M			
SAN-MW1d	4/25/2018	16:39	35.77	80.26		
SAN-MW1d	5/14/2018	14:00	36.16	79.87		
SAN-MW1d	6/13/2018	18:51	36.71	79.32		
SAN-MW1d	7/16/2018	16:22	37.50	78.53		
SAN-MW1d	8/21/2018	15:05	37.73	78.30		
SAN-MW1d	9/12/2018	14:27	37.88	78.15		
SAN-MW1d	10/25/2018	17:43	38.12	77.91		
SAN-MW1d	11/14/2018	15:59	38.15	77.88		
SAN-MW1d	12/14/2018	11:49	38.29	77.74		
SAN-MW1d	1/24/2019	11:32	38.47	77.56		
SAN-MW1d	3/1/2019	7:40	38.46	77.57		
SAN-MW1d	3/17/2019	10:59	38.32	77.71		
SAN-MW1d	4/15/2019	16:14	37.85	78.18		
SAN-MW1d	5/23/2019	14:03	38.45	77.58		
SAN-MW1d	6/20/2019	15:10	38.68	77.35		
SAN-MW1d	7/17/2019	15:00	39.08	76.95		
SAN-MW1d	8/23/2019	8:16	39.76	76.27		
SAN-MW1d	9/27/2019	9:58	40.16	75.87		
SAN-MW1d	10/25/2019	14:01	40.44	75.59		
SAN-MW1d	11/14/2019	12:17	40.71	75.32		
SAN-MW1d	12/14/2019	16:45	40.52	75.51		
SAN-MW2s	1/30/2012	11:50	Dry			
SAN-MW2s	2/13/2012	12:31	Dry			
SAN-MW2s	3/5/2012	12:59	Dry			
SAN-MW2s	4/9/2012	14:29	Dry			
SAN-MW2s	5/15/2012	12:07	Dry			
SAN-MW2s	6/21/2012	16:17	Dry			
SAN-MW2s	7/11/2012	12:36	Dry			
SAN-MW2s	8/16/2012	11:30	Dry			
SAN-MW2s	9/20/2012	14:48	Dry			
SAN-MW2s	10/20/2012	13:42	Dry			
SAN-MW2s	12/9/2012	9:05	Dry			
SAN-MW2s	12/31/2012	15:45	Dry			
SAN-MW2s	1/16/2013	9:23	Dry			
SAN-MW2s	2/17/2013	16:26	Dry			
SAN-MW2s	3/24/2013	9:45	Dry			
SAN-MW2s	4/17/2013	15:20	Dry			
SAN-MW2s	6/2/2013	14:30	Dry			
SAN-MW2s	6/17/2013	16:36	Dry			
SAN-MW2s	7/16/2013	12:53	Dry			
SAN-MW2s	8/28/2013	15:16	Dry			
SAN-MW2s	9/9/2013	18:11	Dry			
SAN-MW2s	10/7/2013	17:29	Dry			
SAN-MW2s	11/18/2013	10:37	Dry			
SAN-MW2s	12/18/2013	14:57	Dry			
SAN-MW2s	1/14/2014	11:20	Dry			
SAN-MW2s	2/25/2014	11:34	Dry			
SAN-MW2s	3/17/2014	16:02	Dry			
SAN-MW2s	4/19/2014	14:22	Dry			
SAN-MW2s	5/27/2014	9:12	Dry			
SAN-MW2s	6/19/2014	20:11	Dry			
SAN-MW2s	7/17/2014	10:32	Dry			
SAN-MW2s	8/26/2014	17:34	Dry			
SAN-MW2s	9/19/2014	8:34	Dry			
SAN-MW2s	10/14/2014	13:59	Dry			
SAN-MW2s	11/12/2014	13:06	Dry			
SAN-MW2s	12/15/2014	16:51	Dry			
SAN-MW2s	1/13/2015	16:28	Dry			
SAN-MW2s	2/12/2015	7:38	Dry			
SAN-MW2s	3/13/2015	14:54	Dry			
SAN-MW2s	4/17/2015	12:36	Dry			
SAN-MW2s	5/13/2015	14:58	Dry			
SAN-MW2s	6/4/2015	16:00	Dry			
SAN-MW2s	7/21/2015	13:20	Dry			
SAN-MW2s	8/14/2015	12:30	Dry			
SAN-MW2s	9/14/2015	18:11	Dry			
SAN-MW2s	10/16/2015	17:16	Dry			
SAN-MW2s	11/18/2015	15:06	Dry			
SAN-MW2s	12/18/2015	15:55	Dry			
SAN-MW2s	1/16/2016	13:31	Dry			
SAN-MW2s	2/24/2016	12:31	Dry			
SAN-MW2s	3/19/2016	14:49	Dry			
SAN-MW2s	4/18/2016	8:55	Dry			
SAN-MW2s	5/18/2016	9:04	Dry			
SAN-MW2s	6/16/2016	17:25	Dry			
SAN-MW2s	7/22/2016	14:18	Dry			
SAN-MW2s	8/18/2016	9:59	Dry			
SAN-MW2s	9/16/2016	10:56	Dry			
SAN-MW2s	10/14/2016	11:16	Dry			
SAN-MW2s	12/1/2016	10:10	Dry			
SAN-MW2s	12/13/2016	13:19	Dry			
SAN-MW2s	1/26/2017	16:35	Dry			
SAN-MW2s	2/1/2017		N/M			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SAN-MW2s	3/16/2017	17:07	Dry			
SAN-MW2s	4/21/2017	10:27	Dry			
SAN-MW2s	5/19/2017	13:43	Dry			
SAN-MW2s	6/24/2017	15:37	Dry			
SAN-MW2s	7/14/2017	14:01	Dry			
SAN-MW2s	8/28/2017	14:43	Dry			
SAN-MW2s	9/23/2017	10:51	Dry			
SAN-MW2s	10/20/2017	16:10	Dry			
SAN-MW2s	11/17/2017	14:10	Dry			
SAN-MW2s	12/29/2017	13:15	Dry			
SAN-MW2s	1/22/2018	9:09	Dry			
SAN-MW2s	2/27/2018	14:09	Dry			
SAN-MW2s	3/1/2018		N/M			
SAN-MW2s	4/25/2018	16:51	Dry			
SAN-MW2s	5/14/2018	14:04	Dry			
SAN-MW2s	6/13/2018	18:58	Dry			
SAN-MW2s	7/16/2018	16:28	Dry			
SAN-MW2s	8/21/2018	14:57	Dry			
SAN-MW2s	9/12/2018	14:56	Dry			
SAN-MW2s	10/25/2018	17:52	Dry			
SAN-MW2s	11/14/2018	16:24	Dry			
SAN-MW2s	12/14/2018	11:58	Dry			
SAN-MW2s	1/24/2019	11:43	Dry			
SAN-MW2s	3/1/2019	7:30	Dry			
SAN-MW2s	3/17/2019	10:50	Dry			
SAN-MW2s	4/15/2019	16:33	Dry			
SAN-MW2s	5/23/2019	14:23	Dry			
SAN-MW2s	6/20/2019	15:30	Dry			
SAN-MW2s	7/17/2019	15:20	Dry			
SAN-MW2s	8/23/2019	8:00	Dry			
SAN-MW2s	9/27/2019	10:16	Dry			
SAN-MW2s	10/25/2019	14:24	Dry			
SAN-MW2s	11/14/2019	12:00	Dry			
SAN-MW2s	12/14/2019	16:55	Dry			
SAN-MW2d	1/30/2012	11:52	29.29	89.62		
SAN-MW2d	2/13/2012	12:32	29.26	89.65		
SAN-MW2d	3/5/2012	13:01	30.42	88.49		
SAN-MW2d	4/9/2012	14:28	30.96	87.95		
SAN-MW2d	5/15/2012	12:08	31.23	87.68		
SAN-MW2d	6/21/2012	16:18	34.16	84.75		
SAN-MW2d	7/11/2012	12:35	34.89	84.02		
SAN-MW2d	8/16/2012	11:30	40.09	78.82		
SAN-MW2d	9/20/2012	14:48	40.13	78.78		
SAN-MW2d	10/20/2012	13:42	40.09	78.82		
SAN-MW2d	12/9/2012	9:05	34.85	84.06		
SAN-MW2d	12/31/2012	15:46	33.14	85.77		
SAN-MW2d	1/16/2013	9:24	32.25	86.66		
SAN-MW2d	2/17/2013	16:28	31.85	87.06		
SAN-MW2d	3/24/2013	9:45	35.00	83.91		
SAN-MW2d	4/17/2013	15:20	34.43	84.48		
SAN-MW2d	6/2/2013	14:31	37.71	81.20		
SAN-MW2d	6/17/2013	16:37	39.36	79.55		
SAN-MW2d	7/16/2013	12:54	41.50	77.41		
SAN-MW2d	8/28/2013	15:16	43.25	75.66		
SAN-MW2d	9/9/2013	18:11	43.40	75.51		
SAN-MW2d	10/7/2013	17:29	42.64	76.27		
SAN-MW2d	11/18/2013	10:37	41.35	77.56		
SAN-MW2d	12/18/2013	14:57	41.26	77.65		
SAN-MW2d	1/14/2014	11:20	37.68	81.23		
SAN-MW2d	2/25/2014	11:34	38.50	80.41		
SAN-MW2d	3/17/2014	16:02	37.04	81.87		
SAN-MW2d	4/19/2014	14:22	38.88	80.03		
SAN-MW2d	5/27/2014	9:12	40.68	78.23		
SAN-MW2d	6/19/2014	20:11	43.07	75.84		
SAN-MW2d	7/17/2014	10:32	Dry			
SAN-MW2d	8/26/2014	17:34	Dry			
SAN-MW2d	9/19/2014	8:34	Dry			
SAN-MW2d	10/14/2014	13:59	Dry			
SAN-MW2d	11/12/2014	13:06	Dry			
SAN-MW2d	12/15/2014	16:51	Dry			
SAN-MW2d	1/13/2015	16:28	Dry			
SAN-MW2d	2/12/2015	7:38	Dry			
SAN-MW2d	3/13/2015	14:54	Dry			
SAN-MW2d	4/17/2015	12:36	Dry			
SAN-MW2d	5/13/2015	14:58	Dry			
SAN-MW2d	6/4/2015	16:00	Dry			
SAN-MW2d	7/21/2015	13:20	Dry			
SAN-MW2d	8/14/2015	12:30	Dry			
SAN-MW2d	9/14/2015	18:12	Dry			
SAN-MW2d	10/16/2015	17:17	Dry			
SAN-MW2d	11/18/2015	15:05	Dry			
SAN-MW2d	12/18/2015	15:56	Dry			
SAN-MW2d	1/16/2016	13:32	Dry			
SAN-MW2d	2/24/2016	12:32	Dry			
SAN-MW2d	3/19/2016	14:49	Dry			
SAN-MW2d	4/18/2016	8:54	Dry			
SAN-MW2d	5/18/2016	9:03	Dry			
SAN-MW2d	6/16/2016	17:26	Dry			
SAN-MW2d	7/22/2016	14:18	Dry			
SAN-MW2d	8/18/2016	9:58	Dry			
SAN-MW2d	9/16/2016	10:57	Dry			
SAN-MW2d	10/14/2016	11:17	Dry			
SAN-MW2d	12/1/2016	10:12	Dry			
SAN-MW2d	12/13/2016	13:20	Dry			
SAN-MW2d	1/26/2017	16:34	Dry			
SAN-MW2d	2/1/2017		N/M			
SAN-MW2d	3/16/2017	17:07	Dry			
SAN-MW2d	4/21/2017	10:27	Dry			
SAN-MW2d	5/19/2017	13:42	Dry			
SAN-MW2d	6/24/2017	15:36	Dry			
SAN-MW2d	7/14/2017	14:01	Dry			
SAN-MW2d	8/28/2017	14:43	Dry			
SAN-MW2d	9/23/2017	10:51	Dry			
SAN-MW2d	10/20/2017	16:11	Dry			
SAN-MW2d	11/17/2017	14:10	Dry			
SAN-MW2d	12/29/2017	13:17	Dry			
SAN-MW2d	1/22/2018	9:09	Dry			
SAN-MW2d	2/27/2018	14:09	Dry			
SAN-MW2d	3/1/2018		N/M			
SAN-MW2d	4/25/2018	16:51	Dry			
SAN-MW2d	5/14/2018	14:04	Dry			
SAN-MW2d	6/13/2018	18:59	Dry			
SAN-MW2d	7/16/2018	16:29	Dry			
SAN-MW2d	8/21/2018	14:57	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SAN-MW2d	9/12/2018	14:56	Dry			
SAN-MW2d	10/25/2018	17:53	Dry			
SAN-MW2d	11/14/2018	16:24	Dry			
SAN-MW2d	12/14/2018	11:59	Dry			
SAN-MW2d	1/24/2019	11:44	43.90	75.01		
SAN-MW2d	3/1/2019	7:30	43.34	75.57		
SAN-MW2d	3/17/2019	10:50	43.12	75.79		
SAN-MW2d	4/15/2019	16:33	42.92	75.99		
SAN-MW2d	5/23/2019	14:23	42.90	76.01		
SAN-MW2d	6/20/2019	15:30	Dry			
SAN-MW2d	7/17/2019	15:20	43.43	75.48		
SAN-MW2d	8/23/2019	8:00	Dry			
SAN-MW2d	9/27/2019	10:16	Dry			
SAN-MW2d	10/25/2019	14:24	Dry			
SAN-MW2d	11/14/2019	12:00	Dry			
SAN-MW2d	12/14/2019	16:56	44.08	74.83		
SAN-MW3s	1/30/2012	11:55	Dry			
SAN-MW3s	2/13/2012	13:00	Dry			
SAN-MW3s	3/5/2012	13:05	Dry			
SAN-MW3s	4/9/2012	14:06	Dry			
SAN-MW3s	5/15/2012	12:21	Dry			
SAN-MW3s	6/21/2012	16:15	Dry			
SAN-MW3s	7/11/2012	12:29	Dry			
SAN-MW3s	8/16/2012	11:37	Dry			
SAN-MW3s	9/20/2012	14:40	Dry			
SAN-MW3s	10/20/2012	13:34	Dry			
SAN-MW3s	12/9/2012	9:17	Dry			
SAN-MW3s	12/31/2012	15:38	Dry			
SAN-MW3s	1/16/2013	9:28	Dry			
SAN-MW3s	2/17/2013	16:31	Dry			
SAN-MW3s	3/24/2013	9:50	Dry			
SAN-MW3s	4/17/2013	15:13	Dry			
SAN-MW3s	6/2/2013	14:33	Dry			
SAN-MW3s	6/17/2013	16:39	Dry			
SAN-MW3s	7/16/2013	12:57	Dry			
SAN-MW3s	8/28/2013	15:24	Dry			
SAN-MW3s	9/9/2013	18:07	Dry			
SAN-MW3s	10/7/2013	17:21	Dry			
SAN-MW3s	11/18/2013	10:30	Dry			
SAN-MW3s	12/18/2013	14:50	Dry			
SAN-MW3s	1/14/2014	11:29	Dry			
SAN-MW3s	2/25/2014	11:28	Dry			
SAN-MW3s	3/17/2014	15:55	Dry			
SAN-MW3s	4/19/2014	14:16	Dry			
SAN-MW3s	5/27/2014	9:06	Dry			
SAN-MW3s	6/19/2014	20:03	Dry			
SAN-MW3s	7/17/2014	10:21	Dry			
SAN-MW3s	8/26/2014	17:28	Dry			
SAN-MW3s	9/19/2014	8:44	Dry			
SAN-MW3s	10/14/2014	13:50	Dry			
SAN-MW3s	11/12/2014	12:58	Dry			
SAN-MW3s	12/15/2014	17:05	Dry			
SAN-MW3s	1/13/2015	16:21	Dry			
SAN-MW3s	2/12/2015	7:45	Dry			
SAN-MW3s	3/13/2015	14:48	Dry			
SAN-MW3s	4/17/2015	12:30	Dry			
SAN-MW3s	5/13/2015	15:03	Dry			
SAN-MW3s	6/4/2015	15:52	Dry			
SAN-MW3s	7/21/2015	13:15	Dry			
SAN-MW3s	8/14/2015	12:36	Dry			
SAN-MW3s	9/14/2015	18:15	Dry			
SAN-MW3s	10/16/2015	18:10	Dry			
SAN-MW3s	11/18/2015	15:01	Dry			
SAN-MW3s	12/18/2015	15:52	Dry			
SAN-MW3s	1/16/2016	13:27	Dry			
SAN-MW3s	2/24/2016	12:34	Dry			
SAN-MW3s	3/19/2016	14:40	Dry			
SAN-MW3s	4/18/2016	8:56	Dry			
SAN-MW3s	5/18/2016	9:00	Dry			
SAN-MW3s	6/16/2016	17:22	Dry			
SAN-MW3s	7/22/2016	14:10	Dry			
SAN-MW3s	8/18/2016	10:02	Dry			
SAN-MW3s	9/16/2016	10:54	Dry			
SAN-MW3s	10/14/2016	11:13	Dry			
SAN-MW3s	12/1/2016	10:15	Dry			
SAN-MW3s	12/13/2016	13:13	Dry			
SAN-MW3s	1/26/2017	16:28	Dry			
SAN-MW3s	2/1/2017		N/M			
SAN-MW3s	3/16/2017	17:05	Dry			
SAN-MW3s	4/21/2017	10:24	Dry			
SAN-MW3s	5/19/2017	13:44	Dry			
SAN-MW3s	6/24/2017	15:35	Dry			
SAN-MW3s	7/14/2017	13:55	Dry			
SAN-MW3s	8/28/2017	14:38	Dry			
SAN-MW3s	9/23/2017	10:48	Dry			
SAN-MW3s	10/20/2017	16:08	Dry			
SAN-MW3s	11/17/2017	14:14	Dry			
SAN-MW3s	12/29/2017	13:20	Dry			
SAN-MW3s	1/22/2018	9:12	Dry			
SAN-MW3s	2/27/2018	14:17	Dry			
SAN-MW3s	3/1/2018		N/M			
SAN-MW3s	4/25/2018	16:43	Dry			
SAN-MW3s	5/14/2018	14:06	Dry			
SAN-MW3s	6/13/2018	18:56	Dry			
SAN-MW3s	7/16/2018	16:26	Dry			
SAN-MW3s	8/21/2018	14:58	Dry			
SAN-MW3s	9/12/2018	14:44	Dry			
SAN-MW3s	10/25/2018	17:47	Dry			
SAN-MW3s	11/14/2018	16:15	Dry			
SAN-MW3s	12/14/2018	11:53	Dry			
SAN-MW3s	1/24/2019	11:35	Dry			
SAN-MW3s	3/1/2019	7:35	Dry			
SAN-MW3s	3/17/2019	10:56	Dry			
SAN-MW3s	4/15/2019	16:26	Dry			
SAN-MW3s	5/23/2019	14:14	Dry			
SAN-MW3s	6/20/2019	15:21	Dry			
SAN-MW3s	7/17/2019	15:12	Dry			
SAN-MW3s	8/23/2019	8:09	Dry			
SAN-MW3s	9/27/2019	10:06	Dry			
SAN-MW3s	10/25/2019	14:15	Dry			
SAN-MW3s	11/14/2019	12:07	Dry			
SAN-MW3s	12/14/2019	16:49	Dry			
SAN-MW3d	1/30/2012	12:10	29.87	88.63		
SAN-MW3d	2/13/2012	13:01	30.36	88.14		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SAN-MW3d	3/5/2012	13:06	31.62	86.88		
SAN-MW3d	4/9/2012	14:05	32.16	86.34		
SAN-MW3d	5/15/2012	12:21	32.13	86.37		
SAN-MW3d	6/21/2012	16:15	35.82	82.68		
SAN-MW3d	7/11/2012	12:29	36.19	82.31		
SAN-MW3d	8/16/2012	11:37	41.49	77.01		
SAN-MW3d	9/20/2012	14:40	41.59	76.91		
SAN-MW3d	10/20/2012	13:34	41.55	76.95		
SAN-MW3d	12/9/2012	9:17	36.43	82.07		
SAN-MW3d	12/31/2012	15:39	34.39	84.11		
SAN-MW3d	1/16/2013	9:29	33.29	85.21		
SAN-MW3d	2/17/2013	16:33	32.64	85.86		
SAN-MW3d	3/24/2013	9:51	35.15	83.35		
SAN-MW3d	4/17/2013	15:13	34.95	83.55		
SAN-MW3d	6/2/2013	14:33	38.45	80.05		
SAN-MW3d	6/17/2013	16:40	40.23	78.27		
SAN-MW3d	7/16/2013	12:58	42.84	75.66		
SAN-MW3d	8/28/2013	15:24	44.48	74.02		
SAN-MW3d	9/9/2013	18:07	44.53	73.97		
SAN-MW3d	10/7/2013	17:21	43.16	75.34		
SAN-MW3d	11/18/2013	10:30	41.08	77.42		
SAN-MW3d	12/18/2013	14:50	41.17	77.33		
SAN-MW3d	1/14/2014	11:29	37.70	80.80		
SAN-MW3d	2/25/2014	11:28	38.05	80.45		
SAN-MW3d	3/17/2014	15:55	36.74	81.76		
SAN-MW3d	4/19/2014	14:16	38.33	80.17		
SAN-MW3d	5/27/2014	9:06	41.47	77.03		
SAN-MW3d	6/19/2014	20:03	42.79	75.71		
SAN-MW3d	7/17/2014	10:21	Dry			
SAN-MW3d	8/26/2014	17:28	Dry			
SAN-MW3d	9/19/2014	8:44	Dry			
SAN-MW3d	10/14/2014	13:50	Dry			
SAN-MW3d	11/12/2014	12:58	Dry			
SAN-MW3d	12/15/2014	17:05	Dry			
SAN-MW3d	1/13/2015	16:21	45.62	72.88		
SAN-MW3d	2/12/2015	7:45	44.52	73.98		
SAN-MW3d	3/13/2015	14:48	Dry			
SAN-MW3d	4/17/2015	12:30	Dry			
SAN-MW3d	5/13/2015	15:03	Dry			
SAN-MW3d	6/4/2015	15:52	Dry			
SAN-MW3d	7/21/2015	13:15	Dry			
SAN-MW3d	8/14/2015	12:36	Dry			
SAN-MW3d	9/14/2015	18:16	Dry			
SAN-MW3d	10/16/2015	18:10	Dry			
SAN-MW3d	11/18/2015	15:02	Dry			
SAN-MW3d	12/18/2015	15:53	Dry			
SAN-MW3d	1/16/2016	13:28	Dry			
SAN-MW3d	2/24/2016	12:35	Dry			
SAN-MW3d	3/19/2016	14:40	Dry			
SAN-MW3d	4/18/2016	8:57	Dry			
SAN-MW3d	5/18/2016	9:01	Dry			
SAN-MW3d	6/16/2016	17:23	Dry			
SAN-MW3d	7/22/2016	14:10	Dry			
SAN-MW3d	8/18/2016	10:01	Dry			
SAN-MW3d	9/16/2016	10:55	Dry			
SAN-MW3d	10/14/2016	11:14	Dry			
SAN-MW3d	12/1/2016	10:16	Dry			
SAN-MW3d	12/13/2016	13:14	Dry			
SAN-MW3d	1/26/2017	16:29	Dry			
SAN-MW3d	2/1/2017		N/M			
SAN-MW3d	3/16/2017	17:05	Dry			
SAN-MW3d	4/21/2017	10:24	Dry			
SAN-MW3d	5/19/2017	13:45	Dry			
SAN-MW3d	6/24/2017	15:34	Dry			
SAN-MW3d	7/14/2017	13:55	Dry			
SAN-MW3d	8/28/2017	14:38	Dry			
SAN-MW3d	9/23/2017	10:48	Dry			
SAN-MW3d	10/20/2017	16:09	Dry			
SAN-MW3d	11/17/2017	14:14	Dry			
SAN-MW3d	12/29/2017	13:22	Dry			
SAN-MW3d	1/22/2018	9:12	Dry			
SAN-MW3d	2/27/2018	14:17	Dry			
SAN-MW3d	3/1/2018		N/M			
SAN-MW3d	4/25/2018	16:43	Dry			
SAN-MW3d	5/14/2018	14:06	Dry			
SAN-MW3d	6/13/2018	18:57	Dry			
SAN-MW3d	7/16/2018	16:27	Dry			
SAN-MW3d	8/21/2018	14:58	Dry			
SAN-MW3d	9/12/2018	14:44	Dry			
SAN-MW3d	10/25/2018	17:46	Dry			
SAN-MW3d	11/14/2018	16:15	44.80	73.70		
SAN-MW3d	12/14/2018	11:54	44.20	74.30		
SAN-MW3d	1/24/2019	11:36	43.65	74.85		
SAN-MW3d	3/1/2019	7:35	43.22	75.28		
SAN-MW3d	3/17/2019	10:56	43.00	75.50		
SAN-MW3d	4/15/2019	16:26	42.89	75.61		
SAN-MW3d	5/23/2019	14:14	44.30	74.20		
SAN-MW3d	6/20/2019	15:21	Dry			
SAN-MW3d	7/17/2019	15:12	44.59	73.91		
SAN-MW3d	8/23/2019	8:09	Dry			
SAN-MW3d	9/27/2019	10:06	Dry			
SAN-MW3d	10/25/2019	14:15	Dry			
SAN-MW3d	11/14/2019	12:07	Dry			
SAN-MW3d	12/14/2019	16:50	Dry			
SAN-MW4s	1/30/2012	12:12	30.14	88.69	<|0.05|	0
SAN-MW4s	2/13/2012	13:29	30.11	88.72	<|0.05|	0
SAN-MW4s	3/5/2012	13:10	30.86	87.97	<|0.05|	0
SAN-MW4s	4/9/2012	14:10	30.48	88.35	0.06	0.00
SAN-MW4s	5/15/2012	12:36	31.56	87.27	<|0.05|	0
SAN-MW4s	6/21/2012	16:11	Dry			
SAN-MW4s	7/11/2012	12:32	Dry			
SAN-MW4s	8/16/2012	11:34	Dry			
SAN-MW4s	9/20/2012	14:44	Dry			
SAN-MW4s	10/20/2012	13:38	Dry			
SAN-MW4s	12/9/2012	9:14	Dry			
SAN-MW4s	12/31/2012	15:30	Dry			
SAN-MW4s	1/16/2013	9:31	Dry			
SAN-MW4s	2/17/2013	16:20	Dry			
SAN-MW4s	3/24/2013	9:53	Dry			
SAN-MW4s	4/17/2013	15:16	Dry			
SAN-MW4s	6/2/2013	14:36	Dry			
SAN-MW4s	6/17/2013	16:32	Dry			
SAN-MW4s	7/16/2013	12:49	Dry			
SAN-MW4s	8/28/2013	15:20	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SAN-MW4s	9/9/2013	18:02	Dry			
SAN-MW4s	10/7/2013	17:25	Dry			
SAN-MW4s	11/18/2013	10:33	Dry			
SAN-MW4s	12/18/2013	14:53	Dry			
SAN-MW4s	1/14/2014	11:24	Dry			
SAN-MW4s	2/25/2014	11:40	Dry			
SAN-MW4s	3/17/2014	15:58	Dry			
SAN-MW4s	4/19/2014	14:19	Dry			
SAN-MW4s	5/27/2014	9:09	Dry			
SAN-MW4s	6/19/2014	20:07	Dry			
SAN-MW4s	7/17/2014	10:27	Dry			
SAN-MW4s	8/26/2014	17:31	Dry			
SAN-MW4s	9/19/2014	8:39	Dry			
SAN-MW4s	10/14/2014	13:54	Dry			
SAN-MW4s	11/12/2014	13:03	Dry			
SAN-MW4s	12/15/2014	16:59	Dry			
SAN-MW4s	1/13/2015	16:24	Dry			
SAN-MW4s	2/12/2015	7:42	Dry			
SAN-MW4s	3/13/2015	14:51	Dry			
SAN-MW4s	4/17/2015	12:33	Dry			
SAN-MW4s	5/13/2015	15:00	Dry			
SAN-MW4s	6/4/2015	15:56	Dry			
SAN-MW4s	7/21/2015	13:12	Dry			
SAN-MW4s	8/14/2015	12:42	Dry			
SAN-MW4s	9/14/2015	18:19	Dry			
SAN-MW4s	10/16/2015	18:07	Dry			
SAN-MW4s	11/18/2015	14:57	Dry			
SAN-MW4s	12/18/2015	15:48	Dry			
SAN-MW4s	1/16/2016	13:24	Dry			
SAN-MW4s	2/24/2016	12:39	Dry			
SAN-MW4s	3/19/2016	14:44	Dry			
SAN-MW4s	4/18/2016	9:01	Dry			
SAN-MW4s	5/18/2016	9:03	Dry			
SAN-MW4s	6/16/2016	17:20	Dry			
SAN-MW4s	7/22/2016	14:13	Dry			
SAN-MW4s	8/18/2016	10:04	Dry			
SAN-MW4s	9/16/2016	10:53	Dry			
SAN-MW4s	10/14/2016	11:10	Dry			
SAN-MW4s	12/1/2016	10:18	Dry			
SAN-MW4s	12/13/2016	13:15	Dry			
SAN-MW4s	1/26/2017	16:30	Dry			
SAN-MW4s	2/1/2017		N/M			
SAN-MW4s	3/16/2017	17:00	Dry			
SAN-MW4s	4/21/2017	10:20	Dry			
SAN-MW4s	5/19/2017	13:54	Dry			
SAN-MW4s	6/24/2017	15:30	Dry			
SAN-MW4s	7/14/2017	13:58	Dry			
SAN-MW4s	8/28/2017	14:40	Dry			
SAN-MW4s	9/23/2017	10:44	Dry			
SAN-MW4s	10/20/2017	16:07	Dry			
SAN-MW4s	11/17/2017	14:16	Dry			
SAN-MW4s	12/29/2017	13:37	Dry			
SAN-MW4s	1/22/2018	9:17	Dry			
SAN-MW4s	2/27/2018	14:12	Dry			
SAN-MW4s	3/1/2018		N/M			
SAN-MW4s	4/25/2018	16:47	Dry			
SAN-MW4s	5/14/2018	14:10	Dry			
SAN-MW4s	6/13/2018	18:53	Dry			
SAN-MW4s	7/16/2018	16:23	Dry			
SAN-MW4s	8/21/2018	14:59	Dry			
SAN-MW4s	9/12/2018	14:52	Dry			
SAN-MW4s	10/25/2018	17:48	Dry			
SAN-MW4s	11/14/2018	16:19	Dry			
SAN-MW4s	12/14/2018	11:55	Dry			
SAN-MW4s	1/24/2019	11:38	Dry			
SAN-MW4s	3/1/2019	7:34	Dry			
SAN-MW4s	3/17/2019	10:52	Dry			
SAN-MW4s	4/15/2019	16:28	Dry			
SAN-MW4s	5/23/2019	14:20	Dry			
SAN-MW4s	6/20/2019	15:26	Dry			
SAN-MW4s	7/17/2019	15:16	Dry			
SAN-MW4s	8/23/2019	8:05	Dry			
SAN-MW4s	9/27/2019	10:11	Dry			
SAN-MW4s	10/25/2019	14:20	Dry			
SAN-MW4s	11/14/2019	12:04	Dry			
SAN-MW4s	12/14/2019	16:52	Dry			
SAN-MW4d	1/30/2012	12:18	29.75	88.69		
SAN-MW4d	2/13/2012	13:30	29.72	88.72		
SAN-MW4d	3/5/2012	13:11	30.51	87.93		
SAN-MW4d	4/9/2012	14:09	30.15	88.29		
SAN-MW4d	5/15/2012	12:47	31.20	87.24		
SAN-MW4d	6/21/2012	16:12	35.66	82.78		
SAN-MW4d	7/11/2012	12:31	36.08	82.36		
SAN-MW4d	8/16/2012	11:34	41.10	77.34		
SAN-MW4d	9/20/2012	14:44	41.18	77.26		
SAN-MW4d	10/20/2012	13:38	41.21	77.23		
SAN-MW4d	12/9/2012	9:14	36.15	82.29		
SAN-MW4d	12/31/2012	15:31	33.90	84.54		
SAN-MW4d	1/16/2013	9:32	32.98	85.46		
SAN-MW4d	2/17/2013	16:22	32.75	85.69		
SAN-MW4d	3/24/2013	9:54	33.85	84.59		
SAN-MW4d	4/17/2013	15:16	33.93	84.51		
SAN-MW4d	6/2/2013	14:37	38.60	79.84		
SAN-MW4d	6/17/2013	16:33	40.34	78.10		
SAN-MW4d	7/16/2013	12:50	42.87	75.57		
SAN-MW4d	8/28/2013	15:20	44.05	74.39		
SAN-MW4d	9/9/2013	18:02	44.09	74.35		
SAN-MW4d	10/7/2013	17:25	42.35	76.09		
SAN-MW4d	11/18/2013	10:33	39.22	79.22		
SAN-MW4d	12/18/2013	14:53	39.30	79.14		
SAN-MW4d	1/14/2014	11:24	36.98	81.46		
SAN-MW4d	2/25/2014	11:40	37.50	80.94		
SAN-MW4d	3/17/2014	15:58	35.70	82.74		
SAN-MW4d	4/19/2014	14:19	38.16	80.28		
SAN-MW4d	5/27/2014	9:09	41.73	76.71		
SAN-MW4d	6/19/2014	20:07	44.96	73.48		
SAN-MW4d	7/17/2014	10:27	46.95	71.49		
SAN-MW4d	8/26/2014	17:31	48.82	69.62		
SAN-MW4d	9/19/2014	8:39	48.85	69.59		
SAN-MW4d	10/14/2014	13:54	48.08	70.36		
SAN-MW4d	11/12/2014	13:03	45.68	72.76		
SAN-MW4d	12/15/2014	16:59	44.05	74.39		
SAN-MW4d	1/13/2015	16:24	43.11	75.33		
SAN-MW4d	2/12/2015	7:42	42.65	75.79		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SAN-MW4d	3/13/2015	14:51	43.35	75.09		
SAN-MW4d	4/17/2015	12:33	45.02	73.42		
SAN-MW4d	5/13/2015	15:00	46.45	71.99		
SAN-MW4d	6/4/2015	15:56	47.93	70.51		
SAN-MW4d	7/21/2015	13:12	Dry			
SAN-MW4d	8/14/2015	12:42	Dry			
SAN-MW4d	9/14/2015	18:20	Dry			
SAN-MW4d	10/16/2015	18:07	51.76	66.68		
SAN-MW4d	11/18/2015	14:58	49.22	69.22		
SAN-MW4d	12/18/2015	15:49	48.33	70.11		
SAN-MW4d	1/16/2016	13:25	47.97	70.47		
SAN-MW4d	2/24/2016	12:40	46.32	72.12		
SAN-MW4d	3/19/2016	14:44	46.14	72.30		
SAN-MW4d	4/18/2016	9:02	44.98	73.46		
SAN-MW4d	5/18/2016	9:02	44.62	73.82		
SAN-MW4d	6/16/2016	17:21	46.21	72.23		
SAN-MW4d	7/22/2016	14:13	48.39	70.05		
SAN-MW4d	8/18/2016	10:03	49.35	69.09		
SAN-MW4d	9/16/2016	10:52	46.95	71.49		
SAN-MW4d	10/14/2016	11:11	45.96	72.48		
SAN-MW4d	12/1/2016	10:18	45.75	72.69		
SAN-MW4d	12/13/2016	13:16	45.40	73.04		
SAN-MW4d	1/26/2017	16:31	44.91	73.53		
SAN-MW4d	2/1/2017		N/M			
SAN-MW4d	3/16/2017	17:00	43.64	74.80		
SAN-MW4d	4/21/2017	10:21	42.48	75.96		
SAN-MW4d	5/19/2017	13:55	43.80	74.64		
SAN-MW4d	6/24/2017	15:31	45.63	72.81		
SAN-MW4d	7/14/2017	13:58	45.52	72.92		
SAN-MW4d	8/28/2017	14:40	45.94	72.50		
SAN-MW4d	9/23/2017	10:45	44.90	73.54		
SAN-MW4d	10/20/2017	16:06	44.86	73.58		
SAN-MW4d	11/17/2017	14:16	43.73	74.71		
SAN-MW4d	12/29/2017	13:40	44.40	74.04		
SAN-MW4d	1/22/2018	9:18	44.10	74.34		
SAN-MW4d	2/27/2018	14:12				
SAN-MW4d	3/1/2018		N/M			
SAN-MW4d	4/25/2018	16:47	41.70	76.74		
SAN-MW4d	5/14/2018	14:10	41.83	76.61		
SAN-MW4d	6/13/2018	18:54	42.02	76.42		
SAN-MW4d	7/16/2018	16:24	40.55	77.89		
SAN-MW4d	8/21/2018	14:59	41.48	76.96		
SAN-MW4d	9/12/2018	14:52	41.28	77.16		
SAN-MW4d	10/25/2018	17:49	41.84	76.60		
SAN-MW4d	11/14/2018	16:19	41.70	76.74		
SAN-MW4d	12/14/2018	11:56	41.71	76.73		
SAN-MW4d	1/24/2019	11:39	41.82	76.62		
SAN-MW4d	3/1/2019	7:34	41.76	76.68		
SAN-MW4d	3/17/2019	10:52	41.51	76.93		
SAN-MW4d	4/15/2019	16:28	40.34	78.10		
SAN-MW4d	5/23/2019	14:20	41.90	76.54		
SAN-MW4d	6/20/2019	15:26	43.06	75.38		
SAN-MW4d	7/17/2019	15:16	44.13	74.31		
SAN-MW4d	8/23/2019	8:05	45.19	73.25		
SAN-MW4d	9/27/2019	10:11	45.03	73.41		
SAN-MW4d	10/25/2019	14:20	44.78	73.66		
SAN-MW4d	11/14/2019	12:04	44.73	73.71		
SAN-MW4d	12/14/2019	16:53	44.05	74.39		
SAN-MW5s	1/30/2012	12:20	26.05	89.01	<|0.05|	0
SAN-MW5s	2/16/2012	9:51	25.53	89.53	<|0.05|	0
SAN-MW5s	3/5/2012	13:15	27.10	87.96	<|0.05|	0
SAN-MW5s	4/9/2012	13:57	28.00	87.06	0.11	0.00
SAN-MW5s	5/15/2012	15:35	26.85	88.21	0.08	0.00
SAN-MW5s	6/21/2012	16:00	26.85	88.21	0.08	0.00
SAN-MW5s	7/11/2012	12:20	27.00	88.06	<|0.05|	0
SAN-MW5s	8/16/2012	11:42	Dry			
SAN-MW5s	9/20/2012	14:34	Dry			
SAN-MW5s	10/20/2012	13:29	Dry			
SAN-MW5s	12/9/2012	9:20	Dry			
SAN-MW5s	12/31/2012	15:29	Dry			
SAN-MW5s	1/16/2013	9:41	27.88	87.18	<|0.05|	0
SAN-MW5s	2/17/2013	16:52	26.64	88.42	<|0.05|	0
SAN-MW5s	3/24/2013	10:00	28.28	86.78	<|0.05|	0
SAN-MW5s	4/17/2013	15:10	28.62	86.44	<|0.05|	0
SAN-MW5s	6/2/2013	14:43	Dry			
SAN-MW5s	6/17/2013	16:44	Dry			
SAN-MW5s	7/16/2013	12:32	Dry			
SAN-MW5s	8/28/2013	15:27	Dry			
SAN-MW5s	9/9/2013	18:23	Dry			
SAN-MW5s	10/7/2013	17:16	Dry			
SAN-MW5s	11/18/2013	10:24	Dry			
SAN-MW5s	12/18/2013	14:46	Dry			
SAN-MW5s	1/14/2014	11:13	Dry			
SAN-MW5s	2/25/2014	11:22	Dry			
SAN-MW5s	3/17/2014	16:08	Dry			
SAN-MW5s	4/19/2014	14:29	Dry			
SAN-MW5s	5/27/2014	9:23	Dry			
SAN-MW5s	6/19/2014	20:19	Dry			
SAN-MW5s	7/17/2014	10:38	Dry			
SAN-MW5s	8/26/2014	17:40	Dry			
SAN-MW5s	9/19/2014	8:24	Dry			
SAN-MW5s	10/14/2014	13:43	Dry			
SAN-MW5s	11/12/2014	13:14	Dry			
SAN-MW5s	12/15/2014	16:44	Dry			
SAN-MW5s	1/13/2015	16:40	Dry			
SAN-MW5s	2/12/2015	7:50	Dry			
SAN-MW5s	3/13/2015	14:43	Dry			
SAN-MW5s	4/17/2015	12:27	Dry			
SAN-MW5s	5/13/2015	15:06	Dry			
SAN-MW5s	6/4/2015	15:48	Dry			
SAN-MW5s	7/21/2015	13:00	Dry			
SAN-MW5s	8/14/2015	13:26	Dry			
SAN-MW5s	9/14/2015	18:40	Dry			
SAN-MW5s	10/16/2015	17:35	Dry			
SAN-MW5s	11/18/2015	14:45	Dry			
SAN-MW5s	12/18/2015	15:30	Dry			
SAN-MW5s	1/16/2016	13:13	Dry			
SAN-MW5s	2/24/2016	12:52	Dry			
SAN-MW5s	3/19/2016	14:56	Dry			
SAN-MW5s	4/18/2016	9:11	Dry			
SAN-MW5s	5/18/2016	8:34	Dry			
SAN-MW5s	6/16/2016	16:52	Dry			
SAN-MW5s	7/22/2016	14:27	Dry			
SAN-MW5s	8/18/2016	10:10	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SAN-MW5s	9/16/2016	10:26	Dry			
SAN-MW5s	10/14/2016	10:44	Dry			
SAN-MW5s	12/1/2016	10:55	Dry			
SAN-MW5s	12/13/2016	12:46	Dry			
SAN-MW5s	1/26/2017	15:57	Dry			
SAN-MW5s	2/1/2017		N/M			
SAN-MW5s	3/16/2017	16:35	Dry			
SAN-MW5s	4/21/2017	9:49	Dry			
SAN-MW5s	5/19/2017	13:17	Dry			
SAN-MW5s	6/24/2017	15:13	Dry			
SAN-MW5s	7/14/2017	13:50	Dry			
SAN-MW5s	8/28/2017	14:33	Dry			
SAN-MW5s	9/23/2017	10:22	Dry			
SAN-MW5s	10/20/2017	15:38	Dry			
SAN-MW5s	11/17/2017	15:00	Dry			
SAN-MW5s	12/29/2017	14:07	Dry			
SAN-MW5s	1/22/2018	9:46	Dry			
SAN-MW5s	2/27/2018	14:33	Dry			
SAN-MW5s	3/1/2018		N/M			
SAN-MW5s	4/25/2018	16:58	Dry			
SAN-MW5s	5/14/2018	13:40	Dry			
SAN-MW5s	6/13/2018	18:27	Dry			
SAN-MW5s	7/16/2018	16:02	Dry			
SAN-MW5s	8/21/2018	15:23	Dry			
SAN-MW5s	9/12/2018	14:31	Dry			
SAN-MW5s	10/25/2018	17:23	Dry			
SAN-MW5s	11/14/2018	16:06	Dry			
SAN-MW5s	12/14/2018	11:25	Dry			
SAN-MW5s	1/24/2019	11:07	Dry			
SAN-MW5s	3/1/2019	7:54	Dry			
SAN-MW5s	3/17/2019	11:19	Dry			
SAN-MW5s	4/15/2019	16:20	Dry			
SAN-MW5s	5/23/2019	14:10	Dry			
SAN-MW5s	6/20/2019	15:17	Dry			
SAN-MW5s	7/17/2019	15:06	Dry			
SAN-MW5s	8/23/2019	8:12	Dry			
SAN-MW5s	9/27/2019	10:02	Dry			
SAN-MW5s	10/25/2019	14:08	Dry			
SAN-MW5s	11/14/2019	12:13	Dry			
SAN-MW5s	12/14/2019	16:25	Dry			
SAN-MW5d	1/30/2012	12:25	25.90	89.01		
SAN-MW5d	2/16/2012	9:52	25.40	89.51		
SAN-MW5d	3/5/2012	13:16	26.98	87.93		
SAN-MW5d	4/9/2012	13:56	27.96	86.95		
SAN-MW5d	5/15/2012	15:36	26.78	88.13		
SAN-MW5d	6/21/2012	16:00	26.78	88.13		
SAN-MW5d	7/11/2012	12:20	26.90	88.01		
SAN-MW5d	8/16/2012	11:43	37.90	77.01		
SAN-MW5d	9/20/2012	14:34	38.00	76.91		
SAN-MW5d	10/20/2012	13:29	38.14	76.77		
SAN-MW5d	12/9/2012	9:20	30.33	84.58		
SAN-MW5d	12/31/2012	15:29	29.54	85.37		
SAN-MW5d	1/16/2013	9:42	27.73	87.18		
SAN-MW5d	2/17/2013	16:53	26.52	88.39		
SAN-MW5d	3/24/2013	10:00	28.13	86.78		
SAN-MW5d	4/17/2013	15:10	28.48	86.43		
SAN-MW5d	6/2/2013	14:43	32.02	82.89		
SAN-MW5d	6/17/2013	16:45	33.75	81.16		
SAN-MW5d	7/16/2013	12:33	36.60	78.31		
SAN-MW5d	8/28/2013	15:27	38.71	76.20		
SAN-MW5d	9/9/2013	18:23	38.45	76.46		
SAN-MW5d	10/7/2013	17:16	36.94	77.97		
SAN-MW5d	11/18/2013	10:24	36.87	78.04		
SAN-MW5d	12/18/2013	14:46	36.92	77.99		
SAN-MW5d	1/14/2014	11:13	33.84	81.07		
SAN-MW5d	2/25/2014	11:22	33.50	81.41		
SAN-MW5d	3/17/2014	16:08	33.02	81.89		
SAN-MW5d	4/19/2014	14:29	34.33	80.58		
SAN-MW5d	5/27/2014	9:23	36.38	78.53		
SAN-MW5d	6/19/2014	20:19	38.84	76.07		
SAN-MW5d	7/17/2014	10:38	41.25	73.66		
SAN-MW5d	8/26/2014	17:40	44.33	70.58		
SAN-MW5d	9/19/2014	8:24	45.00	69.91		
SAN-MW5d	10/14/2014	13:43	39.14	75.77		
SAN-MW5d	11/12/2014	13:14	43.79	71.12		
SAN-MW5d	12/15/2014	16:44	42.23	72.68		
SAN-MW5d	1/13/2015	16:40	41.46	73.45		
SAN-MW5d	2/12/2015	7:50	40.87	74.04		
SAN-MW5d	3/13/2015	14:43	42.09	72.82		
SAN-MW5d	4/17/2015	12:27	43.16	71.75		
SAN-MW5d	5/13/2015	15:06	44.13	70.78		
SAN-MW5d	6/4/2015	15:48	45.39	69.52		
SAN-MW5d	7/21/2015	13:00	52.96	61.95		
SAN-MW5d	8/14/2015	13:26	Dry			
SAN-MW5d	9/14/2015	18:41	Dry			
SAN-MW5d	10/16/2015	17:35	Dry			
SAN-MW5d	11/18/2015	14:46	51.77	63.14		
SAN-MW5d	12/18/2015	15:31	48.75	66.16		
SAN-MW5d	1/16/2016	13:14	48.30	66.61		
SAN-MW5d	2/24/2016	12:53	47.37	67.54		
SAN-MW5d	3/19/2016	14:56	48.51	66.40		
SAN-MW5d	4/18/2016	9:12	48.58	66.33		
SAN-MW5d	5/18/2016	8:35	49.55	65.36		
SAN-MW5d	6/16/2016	16:53	Dry			
SAN-MW5d	7/22/2016	14:27	Dry			
SAN-MW5d	8/18/2016	10:09	Dry			
SAN-MW5d	9/16/2016	10:25	Dry			
SAN-MW5d	10/14/2016	10:45	Dry			
SAN-MW5d	12/1/2016	10:55	47.74	67.17		
SAN-MW5d	12/13/2016	12:47	47.35	67.56		
SAN-MW5d	1/26/2017	15:58	46.41	68.50		
SAN-MW5d	2/1/2017		N/M			
SAN-MW5d	3/16/2017	16:34	47.96	66.95		
SAN-MW5d	4/21/2017	9:50	47.56	67.35		
SAN-MW5d	5/19/2017	13:18	48.71	66.20		
SAN-MW5d	6/24/2017	15:14	49.61	65.30		
SAN-MW5d	7/14/2017	13:51	49.42	65.49		
SAN-MW5d	8/28/2017	14:33	52.28	62.63		
SAN-MW5d	9/23/2017	10:22	49.02	65.89		
SAN-MW5d	10/20/2017	15:39	48.83	66.08		
SAN-MW5d	11/17/2017	15:00	47.94	66.97		
SAN-MW5d	12/29/2017	14:09	47.73	67.18		
SAN-MW5d	1/22/2018	9:47	46.56	68.35		
SAN-MW5d	2/27/2018	14:33	50.15	64.76		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SAN-MW5d	3/1/2018		N/M			
SAN-MW5d	4/25/2018	16:58	47.18	67.73		
SAN-MW5d	5/14/2018	13:40	50.44	64.47		
SAN-MW5d	6/13/2018	18:28	53.45	61.46		
SAN-MW5d	7/16/2018	16:03	Dry			
SAN-MW5d	8/21/2018	15:23	51.51	63.40		
SAN-MW5d	9/12/2018	14:31	49.57	65.34		
SAN-MW5d	10/25/2018	17:22	50.02	64.89		
SAN-MW5d	11/14/2018	16:06	50.23	64.68		
SAN-MW5d	12/14/2018	11:26	47.80	67.11		
SAN-MW5d	1/24/2019	11:08	46.38	68.53		
SAN-MW5d	3/1/2019	7:54	45.85	69.06		
SAN-MW5d	3/17/2019	11:20	45.69	69.22		
SAN-MW5d	4/15/2019	16:20	47.38	67.53		
SAN-MW5d	5/23/2019	14:10	46.68	68.23		
SAN-MW5d	6/20/2019	15:17	49.92	64.99		
SAN-MW5d	7/17/2019	15:06	48.65	66.26		
SAN-MW5d	8/23/2019	8:12	50.33	64.58		
SAN-MW5d	9/27/2019	10:02	48.83	66.08		
SAN-MW5d	10/25/2019	14:08	53.70	61.21		
SAN-MW5d	11/14/2019	12:13	52.42	62.49		
SAN-MW5d	12/14/2019	16:24	48.15	66.76		
SAN-MW6s	1/30/2012	12:27	13.20	97.11	<|0.05|	0
SAN-MW6s	2/16/2012	11:28	13.81	96.50	<|0.05|	0
SAN-MW6s	3/5/2012	13:20	15.06	95.25	0.07	0.00
SAN-MW6s	4/9/2012	13:34	14.63	95.68	<|0.05|	0
SAN-MW6s	5/15/2012	13:33	14.48	95.83	<|0.05|	0
SAN-MW6s	6/21/2012	16:36	14.48	95.83	<|0.05|	0
SAN-MW6s	7/11/2012	12:08	14.94	95.37	<|0.05|	0
SAN-MW6s	8/16/2012	11:51	14.47	95.84	0.21	0.01
SAN-MW6s	9/20/2012	14:13	14.59	95.72	0.16	0.01
SAN-MW6s	10/20/2012	13:11	15.32	94.99	0.08	0.00
SAN-MW6s	12/9/2012	9:24	16.39	93.92	<|0.05|	0
SAN-MW6s	12/31/2012	15:14	15.70	94.61	<|0.05|	0
SAN-MW6s	1/16/2013	9:54	14.05	96.26	<|0.05|	0
SAN-MW6s	2/17/2013	15:47	13.48	96.83	<|0.05|	0
SAN-MW6s	3/24/2013	10:12	13.90	96.41	<|0.05|	0
SAN-MW6s	4/17/2013	14:51	14.17	96.14	0.18	0.01
SAN-MW6s	6/2/2013	14:55	18.34	91.97	0.15	0.01
SAN-MW6s	6/17/2013	16:15	17.77	92.54	0.08	0.00
SAN-MW6s	7/16/2013	13:05	18.60	91.71	0.15	0.01
SAN-MW6s	8/28/2013	15:38	19.36	90.95	<|0.05|	0
SAN-MW6s	9/9/2013	17:44	20.25	90.06	0.06	0.00
SAN-MW6s	10/7/2013	16:57	20.03	90.28	<|0.05|	0
SAN-MW6s	11/18/2013	10:51	21.82	88.49	0.09	0.00
SAN-MW6s	12/18/2013	14:22	22.00	88.31	<|0.05|	0
SAN-MW6s	1/14/2014	11:40	20.91	89.40	<|0.05|	0
SAN-MW6s	2/25/2014	11:51	21.13	89.18	<|0.05|	0
SAN-MW6s	3/17/2014	15:37	19.84	90.47	<|0.05|	0
SAN-MW6s	4/19/2014	13:51	19.94	90.37	<|0.05|	0
SAN-MW6s	5/27/2014	8:47	22.50	87.81	<|0.05|	0
SAN-MW6s	6/19/2014	19:42	23.96	86.35	<|0.05|	0
SAN-MW6s	7/17/2014	10:02	23.79	86.52	0.07	0.00
SAN-MW6s	8/26/2014	17:12	24.98	85.33	<|0.05|	0
SAN-MW6s	9/19/2014	8:53	22.85	87.46	<|0.05|	0
SAN-MW6s	10/14/2014	13:22	23.76	86.55	<|0.05|	0
SAN-MW6s	11/12/2014	12:38	23.74	86.57	<|0.05|	0
SAN-MW6s	12/15/2014	17:20	23.93	86.38	<|0.05|	0
SAN-MW6s	1/13/2015	16:02	23.00	87.31	<|0.05|	0
SAN-MW6s	2/12/2015	9:00	22.68	87.63	<|0.05|	0
SAN-MW6s	3/13/2015	14:04	22.49	87.82	<|0.05|	0
SAN-MW6s	4/17/2015	12:15	24.77	85.54	<|0.05|	0
SAN-MW6s	5/13/2015	15:20	Dry			
SAN-MW6s	6/4/2015	15:29	Dry			
SAN-MW6s	7/21/2015	12:11	Dry			
SAN-MW6s	8/14/2015	13:10	25.99	84.32	-1.69	-0.09
SAN-MW6s	9/14/2015	17:33	Dry			
SAN-MW6s	10/16/2015	16:59	Dry			
SAN-MW6s	11/18/2015	14:29	Dry			
SAN-MW6s	12/18/2015	14:34	Dry			
SAN-MW6s	1/16/2016	12:16	25.83	84.48	<|0.05|	0
SAN-MW6s	2/24/2016	13:00	22.30	88.01	<|0.05|	0
SAN-MW6s	3/19/2016	14:17	20.14	90.17	<|0.05|	0
SAN-MW6s	4/18/2016	9:33	20.25	90.06	<|0.05|	0
SAN-MW6s	5/18/2016	8:39	19.85	90.46	<|0.05|	0
SAN-MW6s	6/16/2016	17:02	21.47	88.84	<|0.05|	0
SAN-MW6s	7/22/2016	13:51	21.55	88.76	0.07	0.00
SAN-MW6s	8/18/2016	10:20	20.74	89.57	<|0.05|	0
SAN-MW6s	9/16/2016	10:31	21.96	88.35	<|0.05|	0
SAN-MW6s	10/14/2016	10:53	21.16	89.15	<|0.05|	0
SAN-MW6s	12/1/2016	10:45	22.92	87.39	<|0.05|	0
SAN-MW6s	12/13/2016	12:56	22.59	87.72	<|0.05|	0
SAN-MW6s	1/26/2017	16:09	18.56	91.75	<|0.05|	0
SAN-MW6s	2/1/2017		N/M			
SAN-MW6s	3/16/2017	16:47	16.65	93.66	<|0.05|	0
SAN-MW6s	4/21/2017	10:03	16.62	93.69	<|0.05|	0
SAN-MW6s	5/19/2017	13:27	18.55	91.76	<|0.05|	0
SAN-MW6s	6/24/2017	15:17	19.35	90.96	<|0.05|	0
SAN-MW6s	7/14/2017	13:32	17.59	92.72	<|0.05|	0
SAN-MW6s	8/28/2017	14:21	17.44	92.87	0.05	0.00
SAN-MW6s	9/23/2017	10:29	17.38	92.93	<|0.05|	0
SAN-MW6s	10/20/2017	15:48	18.58	91.73	<|0.05|	0
SAN-MW6s	11/17/2017	14:40	20.13	90.18	<|0.05|	0
SAN-MW6s	12/29/2017	14:10	18.82	91.49	<|0.05|	0
SAN-MW6s	1/22/2018	9:35	18.73	91.58	<|0.05|	0
SAN-MW6s	2/27/2018	14:28	19.06	91.25	<|0.05|	0
SAN-MW6s	3/1/2018		N/M			
SAN-MW6s	4/25/2018	16:21	18.80	91.51	<|0.05|	0
SAN-MW6s	5/14/2018	13:50	20.68	89.63	<|0.05|	0
SAN-MW6s	6/13/2018	18:40	23.25	87.06	<|0.05|	0
SAN-MW6s	7/16/2018	16:10	25.00	85.31	<|0.05|	0
SAN-MW6s	8/21/2018	15:18	Dry			
SAN-MW6s	9/12/2018	14:10	Dry			
SAN-MW6s	10/25/2018	17:30	Dry			
SAN-MW6s	11/14/2018	15:41	Dry			
SAN-MW6s	12/14/2018	11:35	Dry			
SAN-MW6s	1/24/2019	11:18	Dry			
SAN-MW6s	3/1/2019	7:50	Dry			
SAN-MW6s	3/17/2019	11:08	25.42	84.89	<|0.05|	0
SAN-MW6s	4/15/2019	16:00	24.92	85.39	<|0.05|	0
SAN-MW6s	5/23/2019	13:48	25.71	84.60	<|0.05|	0
SAN-MW6s	6/20/2019	14:53	26.29	84.02	0.07	0.00
SAN-MW6s	7/17/2019	14:47	Dry			
SAN-MW6s	8/23/2019	8:29	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SAN-MW6s	9/27/2019	9:47	Dry			
SAN-MW6s	10/25/2019	13:47	Dry			
SAN-MW6s	11/14/2019	12:33	Dry			
SAN-MW6s	12/14/2019	16:32	Dry			
SAN-MW6d	1/30/2012	12:30	13.04	97.09		
SAN-MW6d	2/16/2012	11:29	13.65	96.48		
SAN-MW6d	3/5/2012	13:22	14.95	95.18		
SAN-MW6d	4/9/2012	13:33	14.48	95.65		
SAN-MW6d	5/15/2012	13:33	14.29	95.84		
SAN-MW6d	6/21/2012	16:40	14.29	95.84		
SAN-MW6d	7/11/2012	12:08	14.78	95.35		
SAN-MW6d	8/16/2012	11:51	14.50	95.63		
SAN-MW6d	9/20/2012	14:13	14.57	95.56		
SAN-MW6d	10/20/2012	13:11	15.22	94.91		
SAN-MW6d	12/9/2012	9:24	16.24	93.89		
SAN-MW6d	12/31/2012	15:15	15.53	94.60		
SAN-MW6d	1/16/2013	9:55	13.88	96.25		
SAN-MW6d	2/17/2013	15:48	13.32	96.81		
SAN-MW6d	3/24/2013	10:12	13.73	96.40		
SAN-MW6d	4/17/2013	14:51	14.17	95.96		
SAN-MW6d	6/2/2013	14:56	18.31	91.82		
SAN-MW6d	6/17/2013	16:16	17.67	92.46		
SAN-MW6d	7/16/2013	13:06	18.57	91.56		
SAN-MW6d	8/28/2013	15:38	19.23	90.90		
SAN-MW6d	9/9/2013	17:44	20.13	90.00		
SAN-MW6d	10/7/2013	16:57	19.90	90.23		
SAN-MW6d	11/18/2013	10:51	21.73	88.40		
SAN-MW6d	12/18/2013	14:22	21.87	88.26		
SAN-MW6d	1/14/2014	11:40	20.74	89.39		
SAN-MW6d	2/25/2014	11:51	20.97	89.16		
SAN-MW6d	3/17/2014	15:37	19.69	90.44		
SAN-MW6d	4/19/2014	13:51	19.80	90.33		
SAN-MW6d	5/27/2014	8:47	22.33	87.80		
SAN-MW6d	6/19/2014	19:42	23.80	86.33		
SAN-MW6d	7/17/2014	10:02	23.68	86.45		
SAN-MW6d	8/26/2014	17:12	24.80	85.33		
SAN-MW6d	9/19/2014	8:53	22.69	87.44		
SAN-MW6d	10/14/2014	13:22	23.59	86.54		
SAN-MW6d	11/12/2014	12:38	23.59	86.54		
SAN-MW6d	12/15/2014	17:20	23.71	86.42		
SAN-MW6d	1/13/2015	16:02	22.81	87.32		
SAN-MW6d	2/12/2015	9:00	22.48	87.65		
SAN-MW6d	3/13/2015	14:04	22.31	87.82		
SAN-MW6d	4/17/2015	12:15	24.59	85.54		
SAN-MW6d	5/13/2015	15:20	25.65	84.48		
SAN-MW6d	6/4/2015	15:29	26.83	83.30		
SAN-MW6d	7/21/2015	12:11	27.30	82.83		
SAN-MW6d	8/14/2015	13:10	24.12	86.01		
SAN-MW6d	9/14/2015	17:34	27.05	83.08		
SAN-MW6d	10/16/2015	17:00	27.65	82.48		
SAN-MW6d	11/18/2015	14:30	28.24	81.89		
SAN-MW6d	12/18/2015	14:35	27.10	83.03		
SAN-MW6d	1/16/2016	12:17	25.62	84.51		
SAN-MW6d	2/24/2016	13:01	22.15	87.98		
SAN-MW6d	3/19/2016	14:17	19.97	90.16		
SAN-MW6d	4/18/2016	9:34	20.12	90.01		
SAN-MW6d	5/18/2016	8:40	19.69	90.44		
SAN-MW6d	6/16/2016	17:03	21.30	88.83		
SAN-MW6d	7/22/2016	13:51	21.44	88.69		
SAN-MW6d	8/18/2016	10:19	20.57	89.56		
SAN-MW6d	9/16/2016	10:32	21.79	88.34		
SAN-MW6d	10/14/2016	10:54	20.97	89.16		
SAN-MW6d	12/1/2016	10:46	22.73	87.40		
SAN-MW6d	12/13/2016	12:57	22.43	87.70		
SAN-MW6d	1/26/2017	16:10	18.42	91.71		
SAN-MW6d	2/1/2017		N/M			
SAN-MW6d	3/16/2017	16:48	16.51	93.62		
SAN-MW6d	4/21/2017	10:04	16.48	93.65		
SAN-MW6d	5/19/2017	13:28	18.37	91.76		
SAN-MW6d	6/24/2017	15:18	19.18	90.95		
SAN-MW6d	7/14/2017	13:32	17.43	92.70		
SAN-MW6d	8/28/2017	14:21	17.31	92.82		
SAN-MW6d	9/23/2017	10:30	17.24	92.89		
SAN-MW6d	10/20/2017	15:49	18.42	91.71		
SAN-MW6d	11/17/2017	14:40	19.97	90.16		
SAN-MW6d	12/29/2017	14:11	18.68	91.45		
SAN-MW6d	1/22/2018	9:36	18.57	91.56		
SAN-MW6d	2/27/2018	14:28	18.93	91.20		
SAN-MW6d	3/1/2018		N/M			
SAN-MW6d	4/25/2018	16:21	18.61	91.52		
SAN-MW6d	5/14/2018	13:51	20.54	89.59		
SAN-MW6d	6/13/2018	18:41	23.06	87.07		
SAN-MW6d	7/16/2018	16:11	24.84	85.29		
SAN-MW6d	8/21/2018	15:18	26.54	83.59		
SAN-MW6d	9/12/2018	14:10	26.71	83.42		
SAN-MW6d	10/25/2018	17:31	26.57	83.56		
SAN-MW6d	11/14/2018	15:41	26.47	83.66		
SAN-MW6d	12/14/2018	11:36	26.34	83.79		
SAN-MW6d	1/24/2019	11:19	26.62	83.51		
SAN-MW6d	3/1/2019	7:50	25.80	84.33		
SAN-MW6d	3/17/2019	11:09	25.25	84.88		
SAN-MW6d	4/15/2019	16:00	24.78	85.35		
SAN-MW6d	5/23/2019	13:48	25.55	84.58		
SAN-MW6d	6/20/2019	14:53	26.18	83.95		
SAN-MW6d	7/17/2019	14:47	27.00	83.13		
SAN-MW6d	8/23/2019	8:29	28.85	81.28		
SAN-MW6d	9/27/2019	9:47	29.13	81.00		
SAN-MW6d	10/25/2019	13:47	29.60	80.53		
SAN-MW6d	11/14/2019	12:33	29.93	80.20		
SAN-MW6d	12/14/2019	16:33	29.96	80.17		
SAN-MW7s	1/30/2012	12:37	14.33	96.34	<|0.05|	0
SAN-MW7s	2/16/2012	11:00	14.81	95.86	<|0.05|	0
SAN-MW7s	3/5/2012	13:26	17.91	92.76	0.11	0.00
SAN-MW7s	4/9/2012	13:39	18.88	91.79	0.07	0.00
SAN-MW7s	5/15/2012	13:59	13.90	96.77	0.45	0.02
SAN-MW7s	6/21/2012	16:30	19.76	90.91	-0.06	-0.00
SAN-MW7s	7/11/2012	12:12	20.11	90.56	<|0.05|	0
SAN-MW7s	8/16/2012	11:54	28.40	82.27	0.07	0.00
SAN-MW7s	9/20/2012	14:18	28.50	82.17	0.08	0.00
SAN-MW7s	10/20/2012	13:16	28.88	81.79	<|0.05|	0
SAN-MW7s	12/9/2012	9:27	21.47	89.20	<|0.05|	0
SAN-MW7s	12/31/2012	15:19	20.70	89.97	<|0.05|	0
SAN-MW7s	1/16/2013	9:50	18.44	92.23	<|0.05|	0
SAN-MW7s	2/17/2013	16:30	19.92	90.75	0.09	0.00

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SAN-MW7s	3/24/2013	10:10	16.74	93.93	<|0.05|	0
SAN-MW7s	4/17/2013	14:55	18.64	92.03	<|0.05|	0
SAN-MW7s	6/2/2013	14:52	23.40	87.27	0.07	0.00
SAN-MW7s	6/17/2013	16:18	24.60	86.07	<|0.05|	0
SAN-MW7s	7/16/2013	13:11	25.13	85.54	<|0.05|	0
SAN-MW7s	8/28/2013	15:44	24.00	86.67	<|0.05|	0
SAN-MW7s	9/9/2013	17:48	27.27	83.40	<|0.05|	0
SAN-MW7s	10/7/2013	17:01	26.70	83.97	<|0.05|	0
SAN-MW7s	11/18/2013	10:55	26.90	83.77	0.08	0.00
SAN-MW7s	12/18/2013	14:28	27.04	83.63	<|0.05|	0
SAN-MW7s	1/14/2014	11:53	22.10	88.57	<|0.05|	0
SAN-MW7s	2/25/2014	11:57	27.05	83.62	0.08	0.00
SAN-MW7s	3/17/2014	15:42	25.32	85.35	<|0.05|	0
SAN-MW7s	4/19/2014	14:00	25.74	84.93	-0.07	-0.00
SAN-MW7s	5/27/2014	8:51	28.82	81.85	<|0.05|	0
SAN-MW7s	6/19/2014	19:47	Dry			
SAN-MW7s	7/17/2014	10:06	Dry			
SAN-MW7s	8/26/2014	17:16	Dry			
SAN-MW7s	9/19/2014	9:08	Dry			
SAN-MW7s	10/14/2014	13:28	28.65	82.02	<|0.05|	0
SAN-MW7s	11/12/2014	12:42	28.89	81.78	<|0.05|	0
SAN-MW7s	12/15/2014	17:30	29.11	81.56	<|0.05|	0
SAN-MW7s	1/13/2015	16:07	26.21	84.46	<|0.05|	0
SAN-MW7s	2/12/2015	8:54	24.73	85.94	<|0.05|	0
SAN-MW7s	3/13/2015	14:20	27.18	83.49	<|0.05|	0
SAN-MW7s	4/17/2015	12:19	29.31	81.36	-0.09	-0.00
SAN-MW7s	5/13/2015	15:17	Dry			
SAN-MW7s	6/4/2015	15:35	Dry			
SAN-MW7s	7/21/2015	12:37	Dry			
SAN-MW7s	8/14/2015	13:08	Dry			
SAN-MW7s	9/14/2015	18:33	Dry			
SAN-MW7s	10/16/2015	17:57	Dry			
SAN-MW7s	11/18/2015	14:34	Dry			
SAN-MW7s	12/18/2015	14:41	Dry			
SAN-MW7s	1/16/2016	12:25	Dry			
SAN-MW7s	2/24/2016	12:58	29.26	81.41	<|0.05|	0
SAN-MW7s	3/19/2016	14:24	27.35	83.32	<|0.05|	0
SAN-MW7s	4/18/2016	9:42	23.86	86.81	0.09	0.00
SAN-MW7s	5/18/2016	8:46	24.22	86.45	<|0.05|	0
SAN-MW7s	6/16/2016	17:06	29.38	81.29	<|0.05|	0
SAN-MW7s	7/22/2016	13:56	Dry			
SAN-MW7s	8/18/2016	10:18	Dry			
SAN-MW7s	9/16/2016	10:35	27.21	83.46	<|0.05|	0
SAN-MW7s	10/14/2016	10:58	27.20	83.47	<|0.05|	0
SAN-MW7s	12/1/2016	10:38	27.76	82.91	<|0.05|	0
SAN-MW7s	12/13/2016	13:01	27.76	82.91	<|0.05|	0
SAN-MW7s	1/26/2017	16:14	26.80	83.87	<|0.05|	0
SAN-MW7s	2/1/2017		N/M			
SAN-MW7s	3/16/2017	16:50	21.02	89.65	<|0.05|	0
SAN-MW7s	4/21/2017	10:07	22.23	88.44	<|0.05|	0
SAN-MW7s	5/19/2017	13:30	24.06	86.61	<|0.05|	0
SAN-MW7s	6/24/2017	15:20	25.33	85.34	0.13	0.01
SAN-MW7s	7/14/2017	13:36	24.16	86.51	0.05	0.00
SAN-MW7s	8/28/2017	14:25	22.05	88.62	<|0.05|	0
SAN-MW7s	9/23/2017	10:33	22.80	87.87	<|0.05|	0
SAN-MW7s	10/20/2017	15:52	23.19	87.48	<|0.05|	0
SAN-MW7s	11/17/2017	14:34	22.66	88.01	<|0.05|	0
SAN-MW7s	12/29/2017	13:58	20.22	90.45	0.10	0.00
SAN-MW7s	1/22/2018	9:31	20.61	90.06	<|0.05|	0
SAN-MW7s	2/27/2018	14:25	22.62	88.05	0.08	0.00
SAN-MW7s	3/1/2018		N/M			
SAN-MW7s	4/25/2018	16:26	23.26	87.41	-0.07	-0.00
SAN-MW7s	5/14/2018	13:54	25.57	85.10	<|0.05|	0
SAN-MW7s	6/13/2018	18:43	26.70	83.97	<|0.05|	0
SAN-MW7s	7/16/2018	16:13	27.46	83.21	<|0.05|	0
SAN-MW7s	8/21/2018	15:11	29.15	81.52	<|0.05|	0
SAN-MW7s	9/12/2018	14:17	29.35	81.32	<|0.05|	0
SAN-MW7s	10/25/2018	17:34	29.64	81.03	-0.07	-0.00
SAN-MW7s	11/14/2018	15:49	29.87	80.80	<|0.05|	0
SAN-MW7s	12/14/2018	11:43	28.25	82.42	<|0.05|	0
SAN-MW7s	1/24/2019	11:22	28.70	81.97	<|0.05|	0
SAN-MW7s	3/1/2019	7:46	28.47	82.20	<|0.05|	0
SAN-MW7s	3/17/2019	11:04	28.25	82.42	<|0.05|	0
SAN-MW7s	4/15/2019	16:04	27.72	82.95	<|0.05|	0
SAN-MW7s	5/23/2019	13:53	27.40	83.27	<|0.05|	0
SAN-MW7s	6/20/2019	15:00	29.11	81.56	<|0.05|	0
SAN-MW7s	7/17/2019	14:53	Dry			
SAN-MW7s	8/23/2019	8:24	Dry			
SAN-MW7s	9/27/2019	9:50	Dry			
SAN-MW7s	10/25/2019	13:52	Dry			
SAN-MW7s	11/14/2019	12:27	Dry			
SAN-MW7s	12/14/2019	16:36	Dry			
SAN-MW7d	1/30/2012	12:40	14.26	96.34		
SAN-MW7d	2/16/2012	11:01	14.75	95.85		
SAN-MW7d	3/5/2012	13:27	17.95	92.65		
SAN-MW7d	4/9/2012	13:38	18.88	91.72		
SAN-MW7d	5/15/2012	14:00	14.28	96.32		
SAN-MW7d	6/21/2012	16:32	19.63	90.97		
SAN-MW7d	7/11/2012	12:12	20.01	90.59		
SAN-MW7d	8/16/2012	11:54	28.40	82.20		
SAN-MW7d	9/20/2012	14:18	28.51	82.09		
SAN-MW7d	10/20/2012	13:16	28.84	81.76		
SAN-MW7d	12/9/2012	9:27	21.37	89.23		
SAN-MW7d	12/31/2012	15:19	20.68	89.92		
SAN-MW7d	1/16/2013	9:51	18.37	92.23		
SAN-MW7d	2/17/2013	16:31	19.94	90.66		
SAN-MW7d	3/24/2013	10:10	16.70	93.90		
SAN-MW7d	4/17/2013	14:55	18.60	92.00		
SAN-MW7d	6/2/2013	14:52	23.40	87.20		
SAN-MW7d	6/17/2013	16:20	24.57	86.03		
SAN-MW7d	7/16/2013	13:12	25.03	85.57		
SAN-MW7d	8/28/2013	15:44	23.96	86.64		
SAN-MW7d	9/9/2013	17:48	27.24	83.36		
SAN-MW7d	10/7/2013	17:01	26.64	83.96		
SAN-MW7d	11/18/2013	10:55	26.91	83.69		
SAN-MW7d	12/18/2013	14:28	26.98	83.62		
SAN-MW7d	1/14/2014	11:53	22.02	88.58		
SAN-MW7d	2/25/2014	11:57	27.06	83.54		
SAN-MW7d	3/17/2014	15:42	25.24	85.36		
SAN-MW7d	4/19/2014	14:00	25.60	85.00		
SAN-MW7d	5/27/2014	8:51	28.80	81.80		
SAN-MW7d	6/19/2014	19:47	31.42	79.18		
SAN-MW7d	7/17/2014	10:06	32.45	78.15		
SAN-MW7d	8/26/2014	17:16	32.97	77.63		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SAN-MW7d	9/19/2014	9:08	29.92	80.68		
SAN-MW7d	10/14/2014	13:28	28.60	82.00		
SAN-MW7d	11/12/2014	12:42	28.85	81.75		
SAN-MW7d	12/15/2014	17:30	29.00	81.60		
SAN-MW7d	1/13/2015	16:07	26.14	84.46		
SAN-MW7d	2/12/2015	8:54	24.67	85.93		
SAN-MW7d	3/13/2015	14:20	27.07	83.53		
SAN-MW7d	4/17/2015	12:19	29.15	81.45		
SAN-MW7d	5/13/2015	15:17	31.26	79.34		
SAN-MW7d	6/4/2015	15:35	34.20	76.40		
SAN-MW7d	7/21/2015	12:37	38.36	72.24		
SAN-MW7d	8/14/2015	13:08	36.56	74.04		
SAN-MW7d	9/14/2015	18:34	34.21	76.39		
SAN-MW7d	10/16/2015	17:58	32.71	77.89		
SAN-MW7d	11/18/2015	14:35	32.86	77.74		
SAN-MW7d	12/18/2015	14:42	31.91	78.69		
SAN-MW7d	1/16/2016	12:24	31.63	78.97		
SAN-MW7d	2/24/2016	12:57	29.18	81.42		
SAN-MW7d	3/19/2016	14:24	27.25	83.35		
SAN-MW7d	4/18/2016	9:43	23.88	86.72		
SAN-MW7d	5/18/2016	8:47	24.18	86.42		
SAN-MW7d	6/16/2016	17:07	29.31	81.29		
SAN-MW7d	7/22/2016	13:56	31.62	78.98		
SAN-MW7d	8/18/2016	10:17	31.94	78.66		
SAN-MW7d	9/16/2016	10:36	27.15	83.45		
SAN-MW7d	10/14/2016	10:59	27.14	83.46		
SAN-MW7d	12/1/2016	10:39	27.70	82.90		
SAN-MW7d	12/13/2016	13:02	27.71	82.89		
SAN-MW7d	1/26/2017	16:15	26.73	83.87		
SAN-MW7d	2/1/2017		N/M			
SAN-MW7d	3/16/2017	16:51	20.96	89.64		
SAN-MW7d	4/21/2017	10:08	22.20	88.40		
SAN-MW7d	5/19/2017	13:31	23.97	86.63		
SAN-MW7d	6/24/2017	15:21	25.39	85.21		
SAN-MW7d	7/14/2017	13:36	24.14	86.46		
SAN-MW7d	8/28/2017	14:25	22.00	88.60		
SAN-MW7d	9/23/2017	10:34	22.73	87.87		
SAN-MW7d	10/20/2017	15:53	23.10	87.50		
SAN-MW7d	11/17/2017	14:34	22.62	87.98		
SAN-MW7d	12/29/2017	14:00	20.25	90.35		
SAN-MW7d	1/22/2018	9:32	20.57	90.03		
SAN-MW7d	2/27/2018	14:25	22.63	87.97		
SAN-MW7d	3/1/2018		N/M			
SAN-MW7d	4/25/2018	16:26	23.12	87.48		
SAN-MW7d	5/14/2018	13:54	25.50	85.10		
SAN-MW7d	6/13/2018	18:44	26.65	83.95		
SAN-MW7d	7/16/2018	16:14	27.40	83.20		
SAN-MW7d	8/21/2018	15:11	29.08	81.52		
SAN-MW7d	9/12/2018	14:17	29.24	81.36		
SAN-MW7d	10/25/2018	17:35	29.50	81.10		
SAN-MW7d	11/14/2018	15:49	29.81	80.79		
SAN-MW7d	12/14/2018	11:44	28.19	82.41		
SAN-MW7d	1/24/2019	11:23	28.60	82.00		
SAN-MW7d	3/1/2019	7:46	28.42	82.18		
SAN-MW7d	3/17/2019	11:04	28.20	82.40		
SAN-MW7d	4/15/2019	16:04	27.64	82.96		
SAN-MW7d	5/23/2019	13:53	27.32	83.28		
SAN-MW7d	6/20/2019	15:00	29.03	81.57		
SAN-MW7d	7/17/2019	14:53	29.93	80.67		
SAN-MW7d	8/23/2019	8:24	32.55	78.05		
SAN-MW7d	9/27/2019	9:50	32.18	78.42		
SAN-MW7d	10/25/2019	13:52	33.45	77.15		
SAN-MW7d	11/14/2019	12:27	33.78	76.82		
SAN-MW7d	12/14/2019	16:37	33.22	77.38		
SAN-MW8s	1/30/2012	12:43	16.12	96.34	-0.10	-0.01
SAN-MW8s	2/16/2012	10:35	16.56	95.90	<|0.05|	0
SAN-MW8s	3/5/2012	13:29	17.30	95.16	<|0.05|	0
SAN-MW8s	4/9/2012	13:44	20.78	91.68	0.19	0.01
SAN-MW8s	5/15/2012	14:29	17.06	95.40	0.29	0.02
SAN-MW8s	6/21/2012	16:22	20.00	92.46	<|0.05|	0
SAN-MW8s	7/11/2012	12:15	20.81	91.65	<|0.05|	0
SAN-MW8s	8/16/2012	11:58	Dry			
SAN-MW8s	9/20/2012	14:23	Dry			
SAN-MW8s	10/20/2012	13:19	Dry			
SAN-MW8s	12/9/2012	9:30	23.70	88.76	<|0.05|	0
SAN-MW8s	12/31/2012	15:21	22.51	89.95	0.07	0.00
SAN-MW8s	1/16/2013	10:00	21.37	91.09	<|0.05|	0
SAN-MW8s	2/17/2013	16:00	19.59	92.87	<|0.05|	0
SAN-MW8s	3/24/2013	10:04	19.63	92.83	<|0.05|	0
SAN-MW8s	4/17/2013	14:59	24.20	88.26	0.19	0.01
SAN-MW8s	6/2/2013	14:48	24.47	87.99	1.15	0.06
SAN-MW8s	6/17/2013	16:23	Dry			
SAN-MW8s	7/16/2013	13:17	Dry			
SAN-MW8s	8/28/2013	15:48	24.43	88.03	0.07	0.00
SAN-MW8s	9/9/2013	17:51	Dry			
SAN-MW8s	10/7/2013	17:06	Dry			
SAN-MW8s	11/18/2013	10:58	Dry			
SAN-MW8s	12/18/2013	14:34	Dry			
SAN-MW8s	1/14/2014	11:48	23.90	88.56	-0.08	-0.00
SAN-MW8s	2/25/2014	12:01	Dry			
SAN-MW8s	3/17/2014	15:45	Dry			
SAN-MW8s	4/19/2014	14:06	Dry			
SAN-MW8s	5/27/2014	8:55	Dry			
SAN-MW8s	6/19/2014	19:52	Dry			
SAN-MW8s	7/17/2014	10:10	Dry			
SAN-MW8s	8/26/2014	17:20	Dry			
SAN-MW8s	9/19/2014	9:03	Dry			
SAN-MW8s	10/14/2014	13:33	Dry			
SAN-MW8s	11/12/2014	12:46	Dry			
SAN-MW8s	12/15/2014	17:39	Dry			
SAN-MW8s	1/13/2015	16:11	Dry			
SAN-MW8s	2/12/2015	8:50	Dry			
SAN-MW8s	3/13/2015	14:26	Dry			
SAN-MW8s	4/17/2015	12:21	Dry			
SAN-MW8s	5/13/2015	15:15	Dry			
SAN-MW8s	6/4/2015	15:39	Dry			
SAN-MW8s	7/21/2015	12:43	Dry			
SAN-MW8s	8/14/2015	13:02	Dry			
SAN-MW8s	9/14/2015	18:30	Dry			
SAN-MW8s	10/16/2015	17:53	Dry			
SAN-MW8s	11/18/2015	14:37	Dry			
SAN-MW8s	12/18/2015	14:45	Dry			
SAN-MW8s	1/16/2016	12:32	Dry			
SAN-MW8s	2/24/2016	12:55	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SAN-MW8s	3/19/2016	14:29	Dry			
SAN-MW8s	4/18/2016	9:28	Dry			
SAN-MW8s	5/18/2016	8:48	Dry			
SAN-MW8s	6/16/2016	17:08	Dry			
SAN-MW8s	7/22/2016	14:00	Dry			
SAN-MW8s	8/18/2016	10:16	Dry			
SAN-MW8s	9/16/2016	10:38	Dry			
SAN-MW8s	10/14/2016	11:01	Dry			
SAN-MW8s	12/1/2016	10:33	Dry			
SAN-MW8s	12/13/2016	13:05	Dry			
SAN-MW8s	1/26/2017	16:18	Dry			
SAN-MW8s	2/1/2017		N/M			
SAN-MW8s	3/16/2017	16:53	22.49	89.97	<|0.05|	0
SAN-MW8s	4/21/2017	10:10	24.15	88.31	<|0.05|	0
SAN-MW8s	5/19/2017	13:34	25.29	87.17	<|0.05|	0
SAN-MW8s	6/24/2017	15:23	22.67	89.79	<|0.05|	0
SAN-MW8s	7/14/2017	13:41	20.10	92.36	0.06	0.00
SAN-MW8s	8/28/2017	14:27	20.59	91.87	<|0.05|	0
SAN-MW8s	9/23/2017	10:35	23.66	88.80	<|0.05|	0
SAN-MW8s	10/20/2017	15:54	23.94	88.52	<|0.05|	0
SAN-MW8s	11/17/2017	14:30	23.10	89.36	<|0.05|	0
SAN-MW8s	12/29/2017	13:52	21.20	91.26	0.09	0.00
SAN-MW8s	1/22/2018	9:27	21.75	90.71	<|0.05|	0
SAN-MW8s	2/27/2018	14:24	22.69	89.77	<|0.05|	0
SAN-MW8s	3/1/2018		N/M			
SAN-MW8s	4/25/2018	16:31	Dry			
SAN-MW8s	5/14/2018	13:56	Dry			
SAN-MW8s	6/13/2018	18:46	Dry			
SAN-MW8s	7/16/2018	16:16	Dry			
SAN-MW8s	8/21/2018	15:10	Dry			
SAN-MW8s	9/12/2018	14:22	Dry			
SAN-MW8s	10/25/2018	17:37	Dry			
SAN-MW8s	11/14/2018	15:53	Dry			
SAN-MW8s	12/14/2018	11:39	Dry			
SAN-MW8s	1/24/2019	11:27	Dry			
SAN-MW8s	3/1/2019	7:45	Dry			
SAN-MW8s	3/17/2019	11:02	Dry			
SAN-MW8s	4/15/2019	16:07	Dry			
SAN-MW8s	5/23/2019	13:58	Dry			
SAN-MW8s	6/20/2019	15:05	Dry			
SAN-MW8s	7/17/2019	14:56	Dry			
SAN-MW8s	8/23/2019	8:20	Dry			
SAN-MW8s	9/27/2019	9:54	Dry			
SAN-MW8s	10/25/2019	13:56	Dry			
SAN-MW8s	11/14/2019	12:23	Dry			
SAN-MW8s	12/14/2019	16:39	Dry			
SAN-MW8d	1/30/2012	12:45	15.83	96.44		
SAN-MW8d	2/16/2012	10:36	16.41	95.86		
SAN-MW8d	3/5/2012	13:30	17.13	95.14		
SAN-MW8d	4/9/2012	13:43	20.78	91.49		
SAN-MW8d	5/15/2012	14:30	17.16	95.11		
SAN-MW8d	6/21/2012	16:23	19.79	92.48		
SAN-MW8d	7/11/2012	12:14	20.64	91.63		
SAN-MW8d	8/16/2012	11:58	29.10	83.17		
SAN-MW8d	9/20/2012	14:23	29.25	83.02		
SAN-MW8d	10/20/2012	13:19	29.39	82.88		
SAN-MW8d	12/9/2012	9:30	23.50	88.77		
SAN-MW8d	12/31/2012	15:21	22.39	89.88		
SAN-MW8d	1/16/2013	10:05	21.14	91.13		
SAN-MW8d	2/17/2013	16:01	19.44	92.83		
SAN-MW8d	3/24/2013	10:04	19.45	92.82		
SAN-MW8d	4/17/2013	14:59	24.20	88.07		
SAN-MW8d	6/2/2013	14:49	25.43	86.84		
SAN-MW8d	6/17/2013	16:25	25.87	86.40		
SAN-MW8d	7/16/2013	13:17	26.40	85.87		
SAN-MW8d	8/28/2013	15:48	24.31	87.96		
SAN-MW8d	9/9/2013	17:51	29.04	83.23		
SAN-MW8d	10/7/2013	17:06	27.85	84.42		
SAN-MW8d	11/18/2013	10:58	24.39	87.88		
SAN-MW8d	12/18/2013	14:34	25.03	87.24		
SAN-MW8d	1/14/2014	11:48	23.63	88.64		
SAN-MW8d	2/25/2014	12:01	26.70	85.57		
SAN-MW8d	3/17/2014	15:45	27.97	84.30		
SAN-MW8d	4/19/2014	14:06	28.82	83.45		
SAN-MW8d	5/27/2014	8:55	33.82	78.45		
SAN-MW8d	6/19/2014	19:52	32.90	79.37		
SAN-MW8d	7/17/2014	10:10	33.20	79.07		
SAN-MW8d	8/26/2014	17:20	33.40	78.87		
SAN-MW8d	9/19/2014	9:03	30.73	81.54		
SAN-MW8d	10/14/2014	13:33	30.68	81.59		
SAN-MW8d	11/12/2014	12:46	31.55	80.72		
SAN-MW8d	12/15/2014	17:39	28.96	83.31		
SAN-MW8d	1/13/2015	16:11	28.02	84.25		
SAN-MW8d	2/12/2015	8:50	27.17	85.10		
SAN-MW8d	3/13/2015	14:26	29.72	82.55		
SAN-MW8d	4/17/2015	12:21	29.30	82.97		
SAN-MW8d	5/13/2015	15:15	33.74	78.53		
SAN-MW8d	6/4/2015	15:39	35.13	77.14		
SAN-MW8d	7/21/2015	12:43	38.13	74.14		
SAN-MW8d	8/14/2015	13:02	38.13	74.14		
SAN-MW8d	9/14/2015	18:31	34.50	77.77		
SAN-MW8d	10/16/2015	17:54	33.07	79.20		
SAN-MW8d	11/18/2015	14:38	33.52	78.75		
SAN-MW8d	12/18/2015	14:46	33.25	79.02		
SAN-MW8d	1/16/2016	12:33	33.45	78.82		
SAN-MW8d	2/24/2016	12:56	31.86	80.41		
SAN-MW8d	3/19/2016	14:29	29.94	82.33		
SAN-MW8d	4/18/2016	9:29	25.21	87.06		
SAN-MW8d	5/18/2016	8:49	26.21	86.06		
SAN-MW8d	6/16/2016	17:09	29.43	82.84		
SAN-MW8d	7/22/2016	14:00	30.96	81.31		
SAN-MW8d	8/18/2016	10:15	31.10	81.17		
SAN-MW8d	9/16/2016	10:39	28.23	84.04		
SAN-MW8d	10/14/2016	11:02	29.29	82.98		
SAN-MW8d	12/1/2016	10:33	29.10	83.17		
SAN-MW8d	12/13/2016	13:06	29.31	82.96		
SAN-MW8d	1/26/2017	16:19	29.49	82.78		
SAN-MW8d	2/1/2017		N/M			
SAN-MW8d	3/16/2017	16:54	22.30	89.97		
SAN-MW8d	4/21/2017	10:11	23.97	88.30		
SAN-MW8d	5/19/2017	13:35	25.11	87.16		
SAN-MW8d	6/24/2017	15:24	22.52	89.75		
SAN-MW8d	7/14/2017	13:41	19.97	92.30		
SAN-MW8d	8/28/2017	14:27	20.43	91.84		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SAN-MW8d	9/23/2017	10:36	23.47	88.80		
SAN-MW8d	10/20/2017	15:55	23.75	88.52		
SAN-MW8d	11/17/2017	14:30	22.92	89.35		
SAN-MW8d	12/29/2017	13:55	21.10	91.17		
SAN-MW8d	1/22/2018	9:28	21.60	90.67		
SAN-MW8d	2/27/2018	14:24	22.50	89.77		
SAN-MW8d	3/1/2018		N/M			
SAN-MW8d	4/25/2018	16:31	25.17	87.10		
SAN-MW8d	5/14/2018	13:56	26.07	86.20		
SAN-MW8d	6/13/2018	18:47	27.52	84.75		
SAN-MW8d	7/16/2018	16:17	28.49	83.78		
SAN-MW8d	8/21/2018	15:10	29.83	82.44		
SAN-MW8d	9/12/2018	14:22	30.36	81.91		
SAN-MW8d	10/25/2018	17:38	30.68	81.59		
SAN-MW8d	11/14/2018	15:53	30.65	81.62		
SAN-MW8d	12/14/2018	11:40	30.38	81.89		
SAN-MW8d	1/24/2019	11:28	30.42	81.85		
SAN-MW8d	3/1/2019	7:45	30.25	82.02		
SAN-MW8d	3/17/2019	11:02	30.03	82.24		
SAN-MW8d	4/15/2019	16:07	29.65	82.62		
SAN-MW8d	5/23/2019	13:58	29.53	82.74		
SAN-MW8d	6/20/2019	15:05	29.85	82.42		
SAN-MW8d	7/17/2019	14:56	30.46	81.81		
SAN-MW8d	8/23/2019	8:20	31.67	80.60		
SAN-MW8d	9/27/2019	9:54	32.46	79.81		
SAN-MW8d	10/25/2019	13:56	33.00	79.27		
SAN-MW8d	11/14/2019	12:23	33.32	78.95		
SAN-MW8d	12/14/2019	16:40	33.40	78.87		
GEN-MW1	1/16/2013		N/M			
GEN-MW1	2/17/2013	14:51	13.35	42.87		
GEN-MW1	3/24/2013	9:34	11.95	44.27		
GEN-MW1	4/18/2013	12:17	14.20	42.02		
GEN-MW1	5/31/2013	13:20	12.81	43.41		
GEN-MW1	6/17/2013	16:02	12.54	43.68		
GEN-MW1	7/15/2013	13:03	10.90	45.32		
GEN-MW1	8/21/2013	13:50	9.62	46.60		
GEN-MW1	9/9/2013	10:38	10.09	46.13		
GEN-MW1	10/7/2013	11:02	9.86	46.36		
GEN-MW1	11/11/2013	17:20	11.64	44.58		
GEN-MW1	12/17/2013	10:39	12.46	43.76		
GEN-MW1	1/13/2014	10:06	12.87	43.35		
GEN-MW1	2/17/2014	9:50	14.32	41.90		
GEN-MW1	3/16/2014	10:32	14.03	42.19		
GEN-MW1	4/20/2014	8:39	14.51	41.71		
GEN-MW1	5/28/2014	13:23	14.85	41.37		
GEN-MW1	6/19/2014	9:16	15.40	40.82		
GEN-MW1	7/17/2014	19:40	14.97	41.25		
GEN-MW1	8/18/2014	17:45	14.92	41.30		
GEN-MW1	9/22/2014	12:00	15.28	40.94		
GEN-MW1	10/14/2014	10:53	15.90	40.32		
GEN-MW1	11/4/2014	16:21	16.34	39.88		
GEN-MW1	12/14/2014	11:14	16.86	39.36		
GEN-MW1	1/12/2015	12:58	16.18	40.04		
GEN-MW1	2/4/2015	14:20	16.25	39.97		
GEN-MW1	3/13/2015	10:40	16.62	39.60		
GEN-MW1	4/17/2015	8:40	17.25	38.97		
GEN-MW1	5/11/2015	13:08	17.56	38.66		
GEN-MW1	6/5/2015	7:48	20.15	36.07		
GEN-MW1	7/22/2015	13:25	17.68	38.54		
GEN-MW1	8/20/2015	12:47	17.62	38.60		
GEN-MW1	9/14/2015	10:03	18.44	37.78		
GEN-MW1	10/17/2015	13:38	19.32	36.90		
GEN-MW1	11/20/2015	15:10	22.00	34.22		
GEN-MW1	12/23/2015	10:40	20.02	36.20		
GEN-MW1	1/15/2016	11:04	19.91	36.31		
GEN-MW1	2/16/2016	16:51	19.72	36.50		
GEN-MW1	3/18/2016	10:04	19.66	36.56		
GEN-MW1	4/18/2016	10:29	19.46	36.76		
GEN-MW1	5/16/2016	16:41	18.99	37.23		
GEN-MW1	6/16/2016	10:02	18.04	38.18		
GEN-MW1	7/21/2016	9:40	17.22	39.00		
GEN-MW1	8/15/2016	16:30	17.14	39.08		
GEN-MW1	9/15/2016	9:53	17.69	38.53		
GEN-MW1	10/14/2016	9:39	17.52	38.70		
GEN-MW1	12/1/2016	9:27	18.41	37.81		
GEN-MW1	12/12/2016	10:20	18.53	37.69		
GEN-MW1	1/25/2017	9:37	18.49	37.73		
GEN-MW1	2/1/2017		N/M			
GEN-MW1	3/13/2017	12:50	17.41	38.81		
GEN-MW1	4/20/2017	9:29	17.02	39.20		
GEN-MW1	5/16/2017	13:38	16.62	39.60		
GEN-MW1	6/24/2017	9:35	16.15	40.07		
GEN-MW1	7/14/2017	9:52	15.55	40.67		
GEN-MW1	8/24/2017	11:21	14.10	42.12		
GEN-MW1	9/22/2017	10:40	13.76	42.46		
GEN-MW1	10/19/2017	10:25	13.56	42.66		
GEN-MW1	11/15/2017	13:23	14.36	41.86		
GEN-MW1	12/21/2017	10:32	14.90	41.32		
GEN-MW1	1/23/2018	10:18	15.33	40.89		
GEN-MW1	2/15/2018	15:57	15.68	40.54		
GEN-MW1	3/1/2018		N/M			
GEN-MW1	4/24/2018	8:31	15.70	40.52		
GEN-MW1	5/7/2018	15:13	15.60	40.62		
GEN-MW1	6/13/2018	10:41	15.17	41.05		
GEN-MW1	7/16/2018	8:31	14.19	42.03		
GEN-MW1	8/27/2018	12:17	12.84	43.38		
GEN-MW1	9/16/2018	11:59	13.00	43.22		
GEN-MW1	10/25/2018	9:51	13.40	42.82		
GEN-MW1	11/12/2018	13:00	13.98	42.24		
GEN-MW1	12/15/2018	15:06	14.05	42.17		
GEN-MW1	1/25/2019	9:51	14.10	42.12		
GEN-MW1	2/19/2019	13:28	13.72	42.50		
GEN-MW1	3/16/2019	11:19	13.71	42.51		
GEN-MW1	4/16/2019	15:09	13.32	42.90		
GEN-MW1	5/17/2019	12:03	12.46	43.76		
GEN-MW1	6/20/2019	10:18	12.82	43.40		
GEN-MW1	7/17/2019	10:46	11.78	44.44		
GEN-MW1	8/13/2019	10:16	11.56	44.66		
GEN-MW1	9/27/2019	15:46	11.48	44.74		
GEN-MW1	10/30/2019	9:53	11.81	44.41		
GEN-MW1	11/11/2019	12:49	12.20	44.02		
GEN-MW1	12/14/2019	8:23	12.46	43.76		
GEN-MW2	1/16/2013	12:22	9.25	44.97		
GEN-MW2	2/17/2013	15:02	9.16	45.06		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
GEN-MW2	3/24/2013	9:16	8.45	45.77		
GEN-MW2	4/18/2013	12:09	9.00	45.22		
GEN-MW2	5/31/2013	12:55	8.65	45.57		
GEN-MW2	6/17/2013	16:14	8.34	45.88		
GEN-MW2	7/15/2013	12:51	7.20	47.02		
GEN-MW2	8/21/2013	13:28	7.28	46.94		
GEN-MW2	9/9/2013	11:06	7.77	46.45		
GEN-MW2	10/7/2013	11:24	7.99	46.23		
GEN-MW2	11/11/2013	17:37	9.23	44.99		
GEN-MW2	12/17/2013	11:00	9.05	45.17		
GEN-MW2	1/13/2014	10:33	10.33	43.89		
GEN-MW2	2/17/2014	10:08	11.90	42.32		
GEN-MW2	3/16/2014	10:52	11.65	42.57		
GEN-MW2	4/20/2014	9:03	12.22	42.00		
GEN-MW2	5/28/2014	13:43	12.84	41.38		
GEN-MW2	6/19/2014	9:33	12.27	41.95		
GEN-MW2	7/17/2014	19:28	13.14	41.08		
GEN-MW2	8/18/2014	18:01	13.06	41.16		
GEN-MW2	9/22/2014	12:11	13.42	40.80		
GEN-MW2	10/14/2014	11:08	13.97	40.25		
GEN-MW2	11/4/2014	16:34	14.25	39.97		
GEN-MW2	12/14/2014	11:36	14.67	39.55		
GEN-MW2	1/12/2015	13:13	14.00	40.22		
GEN-MW2	2/4/2015	13:49	13.93	40.29		
GEN-MW2	3/13/2015	10:58	14.65	39.57		
GEN-MW2	4/17/2015	8:58	15.31	38.91		
GEN-MW2	5/11/2015	13:20	15.73	38.49		
GEN-MW2	6/5/2015	8:21	18.50	35.72		
GEN-MW2	7/22/2015	13:00	16.15	38.07		
GEN-MW2	8/20/2015	12:37	16.26	37.96		
GEN-MW2	9/14/2015	10:21	16.97	37.25		
GEN-MW2	10/17/2015	13:08	17.68	36.54		
GEN-MW2	11/20/2015	14:22	18.10	36.12		
GEN-MW2	12/23/2015	11:11	18.20	36.02		
GEN-MW2	1/15/2016	11:19	18.05	36.17		
GEN-MW2	2/16/2016	17:07	17.74	36.48		
GEN-MW2	3/18/2016	10:21	17.56	36.66		
GEN-MW2	4/18/2016	10:51	17.52	36.70		
GEN-MW2	5/16/2016	17:08	17.24	36.98		
GEN-MW2	6/16/2016	10:12	16.36	37.86		
GEN-MW2	7/21/2016	9:57	15.87	38.35		
GEN-MW2	8/15/2016	16:02	15.90	38.32		
GEN-MW2	9/15/2016	10:05	16.35	37.87		
GEN-MW2	10/14/2016	9:57	16.19	38.03		
GEN-MW2	12/1/2016	8:59	16.50	37.72		
GEN-MW2	12/12/2016	10:36	16.56	37.66		
GEN-MW2	1/25/2017	9:52	16.44	37.78		
GEN-MW2	2/1/2017		N/M			
GEN-MW2	3/13/2017	13:20	15.37	38.85		
GEN-MW2	4/20/2017	9:42	14.90	39.32		
GEN-MW2	5/16/2017	13:32	14.61	39.61		
GEN-MW2	6/24/2017	9:43	14.36	39.86		
GEN-MW2	7/14/2017	10:01	13.97	40.25		
GEN-MW2	8/24/2017	11:41	12.79	41.43		
GEN-MW2	9/22/2017	10:49	12.28	41.94		
GEN-MW2	10/19/2017	10:34	12.00	42.22		
GEN-MW2	11/15/2017	13:16	12.50	41.72		
GEN-MW2	12/21/2017	10:42	12.97	41.25		
GEN-MW2	1/23/2018	10:35	13.24	40.98		
GEN-MW2	2/15/2018	16:17	13.67	40.55		
GEN-MW2	3/1/2018		N/M			
GEN-MW2	4/24/2018	8:50	13.69	40.53		
GEN-MW2	5/7/2018	15:29	13.60	40.62		
GEN-MW2	6/13/2018	11:00	13.30	40.92		
GEN-MW2	7/16/2018	8:43	12.58	41.64		
GEN-MW2	8/27/2018	12:28	11.85	42.37		
GEN-MW2	9/16/2018	12:07	11.68	42.54		
GEN-MW2	10/25/2018	10:02	11.81	42.41		
GEN-MW2	11/12/2018	13:15	12.21	42.01		
GEN-MW2	12/15/2018	15:14	12.28	41.94		
GEN-MW2	1/25/2019	10:00	12.15	42.07		
GEN-MW2	2/19/2019	13:00	11.92	42.30		
GEN-MW2	3/16/2019	11:28	11.77	42.45		
GEN-MW2	4/16/2019	15:28	11.31	42.91		
GEN-MW2	5/17/2019	11:45	10.66	43.56		
GEN-MW2	6/20/2019	10:27	10.95	43.27		
GEN-MW2	7/17/2019	11:07	10.15	44.07		
GEN-MW2	8/13/2019	10:00	10.15	44.07		
GEN-MW2	9/27/2019	15:59	9.86	44.36		
GEN-MW2	10/30/2019	10:11	10.19	44.03		
GEN-MW2	11/11/2019	13:09	10.40	43.82		
GEN-MW2	12/14/2019	8:36	10.48	43.74		
GEN-MW3	1/16/2013	12:05	11.20	44.36		
GEN-MW3	2/17/2013	14:50	11.12	44.44		
GEN-MW3	3/24/2013	9:32	9.83	45.73		
GEN-MW3	4/18/2013	12:24	11.62	43.94		
GEN-MW3	5/31/2013	13:17	10.58	44.98		
GEN-MW3	6/17/2013	15:59	10.30	45.26		
GEN-MW3	7/15/2013	13:07	8.78	46.78		
GEN-MW3	8/21/2013	13:46	12.19	46.51		
GEN-MW3	9/9/2013	10:43	12.66	46.04		
GEN-MW3	10/7/2013	11:05	12.57	46.13		
GEN-MW3	11/11/2013	17:23	14.22	44.48		
GEN-MW3	12/17/2013	10:42	15.04	43.66		
GEN-MW3	1/13/2014	10:08	15.44	43.26		
GEN-MW3	2/17/2014	9:47	16.75	41.95		
GEN-MW3	3/16/2014	10:35	16.49	42.21		
GEN-MW3	4/20/2014	8:44	16.93	41.77		
GEN-MW3	5/28/2014	13:27	17.23	41.47		
GEN-MW3	6/19/2014	9:19	17.78	40.92		
GEN-MW3	7/17/2014	19:38	17.41	41.29		
GEN-MW3	8/18/2014	17:49	17.36	41.34		
GEN-MW3	9/22/2014	11:57	17.70	41.00		
GEN-MW3	10/14/2014	10:51	18.38	40.32		
GEN-MW3	11/4/2014	16:18	18.86	39.84		
GEN-MW3	12/14/2014	11:19	19.41	39.29		
GEN-MW3	1/12/2015	12:55	18.68	40.02		
GEN-MW3	2/4/2015	14:23	18.73	39.97		
GEN-MW3	3/13/2015	10:43	19.05	39.65		
GEN-MW3	4/17/2015	8:44	19.75	38.95		
GEN-MW3	5/11/2015	13:11	20.02	38.68		
GEN-MW3	6/5/2015	7:46	20.49	38.21		
GEN-MW3	7/22/2015	13:13	20.22	38.48		
GEN-MW3	8/20/2015	12:54	20.14	38.56		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
GEN-MW3	9/14/2015	10:07	20.97	37.73		
GEN-MW3	10/17/2015	13:34	21.80	36.90		
GEN-MW3	11/20/2015	15:07	22.55	36.15		
GEN-MW3	12/23/2015	10:45	22.77	35.93		
GEN-MW3	1/15/2016	11:06	22.49	36.21		
GEN-MW3	2/16/2016	16:49	22.25	36.45		
GEN-MW3	3/18/2016	10:07	22.20	36.50		
GEN-MW3	4/18/2016	10:26	21.94	36.76		
GEN-MW3	5/16/2016	16:43	21.49	37.21		
GEN-MW3	6/16/2016	9:59	20.55	38.15		
GEN-MW3	7/21/2016	9:43	19.75	38.95		
GEN-MW3	8/15/2016	16:27	19.69	39.01		
GEN-MW3	9/15/2016	9:50	20.16	38.54		
GEN-MW3	10/14/2016	9:43	20.14	38.56		
GEN-MW3	12/1/2016	9:24	20.94	37.76		
GEN-MW3	12/12/2016	10:22	21.08	37.62		
GEN-MW3	1/25/2017	9:39	21.16	37.54		
GEN-MW3	2/1/2017		N/M			
GEN-MW3	3/13/2017	12:53	15.36	43.34		
GEN-MW3	4/20/2017	9:31	19.53	39.17		
GEN-MW3	5/16/2017	13:39	19.25	39.45		
GEN-MW3	6/24/2017	9:32	18.72	39.98		
GEN-MW3	7/14/2017	9:49	18.09	40.61		
GEN-MW3	8/24/2017	11:23	16.70	42.00		
GEN-MW3	9/22/2017	10:37	16.22	42.48		
GEN-MW3	10/19/2017	10:22	16.14	42.56		
GEN-MW3	11/15/2017	13:25	16.88	41.82		
GEN-MW3	12/21/2017	10:29	17.45	41.25		
GEN-MW3	1/23/2018	10:16	17.89	40.81		
GEN-MW3	2/15/2018	15:59	18.19	40.51		
GEN-MW3	3/1/2018		N/M			
GEN-MW3	4/24/2018	8:35	18.21	40.49		
GEN-MW3	5/7/2018	15:16	18.08	40.62		
GEN-MW3	6/13/2018	10:44	17.67	41.03		
GEN-MW3	7/16/2018	8:34	16.75	41.95		
GEN-MW3	8/27/2018	12:18	15.63	43.07		
GEN-MW3	9/16/2018	11:58	15.55	43.15		
GEN-MW3	10/25/2018	9:48	15.91	42.79		
GEN-MW3	11/12/2018	13:03	16.49	42.21		
GEN-MW3	12/15/2018	15:04	16.63	42.07		
GEN-MW3	1/25/2019	9:48	16.64	42.06		
GEN-MW3	2/19/2019	13:30	16.31	42.39		
GEN-MW3	3/16/2019	11:16	16.30	42.40		
GEN-MW3	4/16/2019	15:03	15.90	42.80		
GEN-MW3	5/17/2019	12:04	15.11	43.59		
GEN-MW3	6/20/2019	10:16	15.34	43.36		
GEN-MW3	7/17/2019	10:50	14.37	44.33		
GEN-MW3	8/13/2019	10:20	14.13	44.57		
GEN-MW3	9/27/2019	15:41	13.88	44.82		
GEN-MW3	10/30/2019	9:56	14.44	44.26		
GEN-MW3	11/11/2019	12:52	14.77	43.93		
GEN-MW3	12/14/2019	8:25	15.12	43.58		
GEN-MW5	1/16/2013	11:38	12.64	45.73		
GEN-MW5	2/17/2013	14:57	12.69	45.68		
GEN-MW5	3/24/2013	9:08	11.65	46.72		
GEN-MW5	4/18/2013	11:54	12.27	46.10		
GEN-MW5	5/31/2013	12:49	12.17	46.20		
GEN-MW5	6/17/2013	16:17	11.40	46.97		
GEN-MW5	7/15/2013	12:46	10.20	48.17		
GEN-MW5	8/21/2013	13:25	10.84	47.53		
GEN-MW5	9/9/2013	11:10	11.52	46.85		
GEN-MW5	10/7/2013	11:29	10.83	47.54		
GEN-MW5	11/11/2013	17:32	12.94	45.43		
GEN-MW5	12/17/2013	11:04	13.64	44.73		
GEN-MW5	1/13/2014	10:40	13.94	44.43		
GEN-MW5	2/17/2014	10:10	15.15	43.22		
GEN-MW5	3/16/2014	10:56	15.33	43.04		
GEN-MW5	4/20/2014	9:11	15.88	42.49		
GEN-MW5	5/28/2014	13:39	16.61	41.76		
GEN-MW5	6/19/2014	9:30	17.17	41.20		
GEN-MW5	7/17/2014	19:31	16.80	41.57		
GEN-MW5	8/18/2014	17:56	17.02	41.35		
GEN-MW5	9/22/2014	12:06	17.40	40.97		
GEN-MW5	10/14/2014	11:02	17.98	40.39		
GEN-MW5	11/4/2014	16:29	18.29	40.08		
GEN-MW5	12/14/2014	11:30	18.42	39.95		
GEN-MW5	1/12/2015	13:04	17.80	40.57		
GEN-MW5	2/4/2015	13:43	17.74	40.63		
GEN-MW5	3/13/2015	10:52	18.54	39.83		
GEN-MW5	4/17/2015	8:54	19.40	38.97		
GEN-MW5	5/11/2015	13:17	19.90	38.47		
GEN-MW5	6/5/2015	7:54	20.48	37.89		
GEN-MW5	7/22/2015	13:05	20.14	38.23		
GEN-MW5	8/20/2015	11:58	20.84	37.53		
GEN-MW5	9/14/2015	10:17	21.53	36.84		
GEN-MW5	10/17/2015	13:02	22.17	36.20		
GEN-MW5	11/20/2015	14:17	22.33	36.04		
GEN-MW5	12/23/2015	11:04	22.27	36.10		
GEN-MW5	1/15/2016	11:15	22.15	36.22		
GEN-MW5	2/16/2016	17:05	21.75	36.62		
GEN-MW5	3/18/2016	10:17	21.53	36.84		
GEN-MW5	4/18/2016	10:45	21.43	36.94		
GEN-MW5	5/16/2016	17:04	21.31	37.06		
GEN-MW5	6/16/2016	10:11	20.30	38.07		
GEN-MW5	7/21/2016	9:52	20.01	38.36		
GEN-MW5	8/15/2016	15:57	20.09	38.28		
GEN-MW5	9/15/2016	10:00	20.87	37.50		
GEN-MW5	10/14/2016	9:53	20.35	38.02		
GEN-MW5	12/1/2016	8:58	20.60	37.77		
GEN-MW5	12/12/2016	10:33	20.68	37.69		
GEN-MW5	1/25/2017	9:48	20.31	38.06		
GEN-MW5	2/1/2017		N/M			
GEN-MW5	3/13/2017	13:25	19.24	39.13		
GEN-MW5	4/20/2017	9:39	18.71	39.66		
GEN-MW5	5/16/2017	13:34	18.30	40.07		
GEN-MW5	6/24/2017	9:41	18.35	40.02		
GEN-MW5	7/14/2017	9:58	17.78	40.59		
GEN-MW5	8/24/2017	11:38	17.10	41.27		
GEN-MW5	9/22/2017	10:46	16.86	41.51		
GEN-MW5	10/19/2017	10:32	16.40	41.97		
GEN-MW5	11/15/2017	13:18	16.79	41.58		
GEN-MW5	12/21/2017	10:46	N/M			
GEN-MW5	1/23/2018	10:31	17.34	41.03		
GEN-MW5	2/15/2018	16:20	17.78	40.59		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
GEN-MW5	3/1/2018		N/M			
GEN-MW5	4/24/2018	8:45	17.78	40.59		
GEN-MW5	5/7/2018	15:26	17.74	40.63		
GEN-MW5	6/13/2018	10:57	17.48	40.89		
GEN-MW5	7/16/2018	8:41	16.88	41.49		
GEN-MW5	8/27/2018	12:30	16.15	42.22		
GEN-MW5	9/16/2018	12:05	16.31	42.06		
GEN-MW5	10/25/2018	9:59	16.25	42.12		
GEN-MW5	11/12/2018	13:10	16.55	41.82		
GEN-MW5	12/15/2018	15:12	16.45	41.92		
GEN-MW5	1/25/2019	9:57	16.30	42.07		
GEN-MW5	2/19/2019	13:05	16.09	42.28		
GEN-MW5	3/16/2019	11:24	15.86	42.51		
GEN-MW5	4/16/2019	15:19	15.38	42.99		
GEN-MW5	5/17/2019	11:42	15.71	42.66		
GEN-MW5	6/20/2019	10:23	14.96	43.41		
GEN-MW5	7/17/2019	11:03	14.38	43.99		
GEN-MW5	8/13/2019	9:56	14.49	43.88		
GEN-MW5	9/27/2019	16:04	14.21	44.16		
GEN-MW5	10/30/2019	10:05	14.60	43.77		
GEN-MW5	11/11/2019	13:05	14.70	43.67		
GEN-MW5	12/14/2019	8:34	15.54	42.83		
GEN-MW6	1/16/2013	12:35	12.82	46.82		
GEN-MW6	2/17/2013	14:30	13.02	46.62		
GEN-MW6	3/24/2013	9:02	12.20	47.44		
GEN-MW6	4/18/2013	11:30	12.63	47.01		
GEN-MW6	5/31/2013	12:21	12.41	47.23		
GEN-MW6	6/17/2013	15:42	11.70	47.94		
GEN-MW6	7/15/2013	13:29	10.57	49.07		
GEN-MW6	8/21/2013	13:08	10.62	49.02		
GEN-MW6	9/9/2013	11:25	11.93	47.71		
GEN-MW6	10/7/2013	11:42	11.56	48.08		
GEN-MW6	11/11/2013	18:15	13.28	46.36		
GEN-MW6	12/17/2013	11:20	13.96	45.68		
GEN-MW6	1/13/2014	11:00	14.30	45.34		
GEN-MW6	2/17/2014	9:55	15.89	43.75		
GEN-MW6	3/16/2014	11:08	15.66	43.98		
GEN-MW6	4/20/2014	9:21	16.25	43.39		
GEN-MW6	5/28/2014	14:05	16.50	43.14		
GEN-MW6	6/19/2014	9:55	17.36	42.28		
GEN-MW6	7/17/2014	18:59	17.01	42.63		
GEN-MW6	8/18/2014	18:26	16.95	42.69		
GEN-MW6	9/22/2014	12:29	17.83	41.81		
GEN-MW6	10/14/2014	11:29	18.39	41.25		
GEN-MW6	11/4/2014	17:03	18.89	40.75		
GEN-MW6	12/14/2014	12:14	18.96	40.68		
GEN-MW6	1/12/2015	13:37	18.41	41.23		
GEN-MW6	2/4/2015	13:38	18.40	41.24		
GEN-MW6	3/13/2015	11:23	19.23	40.41		
GEN-MW6	4/17/2015	9:30	20.32	39.32		
GEN-MW6	5/11/2015	13:48	20.77	38.87		
GEN-MW6	6/5/2015	8:24	21.53	38.11		
GEN-MW6	7/22/2015	12:05	21.91	37.73		
GEN-MW6	8/20/2015	11:50	22.33	37.31		
GEN-MW6	9/14/2015	10:52	22.74	36.90		
GEN-MW6	10/17/2015	13:47	23.22	36.42		
GEN-MW6	11/20/2015	15:24	23.24	36.40		
GEN-MW6	12/23/2015	11:41	23.05	36.59		
GEN-MW6	1/15/2016	10:56	23.12	36.52		
GEN-MW6	2/16/2016	17:33	22.56	37.08		
GEN-MW6	3/18/2016	10:50	22.30	37.34		
GEN-MW6	4/18/2016	12:05	22.19	37.45		
GEN-MW6	5/16/2016	17:32	22.04	37.60		
GEN-MW6	6/16/2016	10:36	21.38	38.26		
GEN-MW6	7/21/2016	10:21	21.20	38.44		
GEN-MW6	8/15/2016	15:50	21.39	38.25		
GEN-MW6	9/15/2016	10:27	21.85	37.79		
GEN-MW6	10/14/2016	10:30	21.18	38.46		
GEN-MW6	12/1/2016	8:50	21.45	38.19		
GEN-MW6	12/12/2016	10:57	21.47	38.17		
GEN-MW6	1/25/2017	10:20	21.13	38.51		
GEN-MW6	2/1/2017		N/M			
GEN-MW6	3/13/2017	12:59	19.99	39.65		
GEN-MW6	4/20/2017	10:02	19.33	40.31		
GEN-MW6	5/16/2017	13:06	19.02	40.62		
GEN-MW6	6/24/2017	10:09	18.98	40.66		
GEN-MW6	7/14/2017	10:21	18.80	40.84		
GEN-MW6	8/24/2017	11:33	18.47	41.17		
GEN-MW6	9/22/2017	11:09	18.17	41.47		
GEN-MW6	10/19/2017	10:53	17.85	41.79		
GEN-MW6	11/15/2017	13:02	18.00	41.64		
GEN-MW6	12/21/2017	11:01	18.17	41.47		
GEN-MW6	1/23/2018	10:51	18.31	41.33		
GEN-MW6	2/15/2018	16:30	18.73	40.91		
GEN-MW6	3/1/2018		N/M			
GEN-MW6	4/24/2018	9:19	18.72	40.92		
GEN-MW6	5/7/2018	15:10	18.66	40.98		
GEN-MW6	6/13/2018	11:18	18.65	40.99		
GEN-MW6	7/16/2018	9:00	18.22	41.42		
GEN-MW6	8/27/2018	12:13	18.22	41.42		
GEN-MW6	9/16/2018	12:27	17.98	41.66		
GEN-MW6	10/25/2018	10:25	17.78	41.86		
GEN-MW6	11/12/2018	13:39	17.85	41.79		
GEN-MW6	12/15/2018	14:50	17.64	42.00		
GEN-MW6	1/25/2019	10:22	17.36	42.28		
GEN-MW6	2/19/2019	13:14	17.16	42.48		
GEN-MW6	3/16/2019	11:45	16.90	42.74		
GEN-MW6	4/16/2019	14:47	16.39	43.25		
GEN-MW6	5/17/2019	11:59	15.91	43.73		
GEN-MW6	6/20/2019	10:57	15.82	43.82		
GEN-MW6	7/17/2019	11:36	15.43	44.21		
GEN-MW6	8/13/2019	9:44	15.63	44.01		
GEN-MW6	9/27/2019	15:14	15.73	43.91		
GEN-MW6	10/30/2019	10:39	15.79	43.85		
GEN-MW6	11/11/2019	12:56	15.68	43.96		
GEN-MW6	12/14/2019	8:55	15.42	44.22		
GEN-MW7	1/16/2013	11:27	13.92	45.58		
GEN-MW7	2/17/2013	14:54	13.95	45.55		
GEN-MW7	3/24/2013	9:00	10.02	49.48		
GEN-MW7	4/18/2013	11:26	13.76	45.74		
GEN-MW7	5/31/2013	12:52	13.43	46.07		
GEN-MW7	6/17/2013	16:20	12.83	46.67		
GEN-MW7	7/15/2013	12:41	11.60	47.90		
GEN-MW7	8/21/2013	13:20	11.48	48.02		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
GEN-MW7	9/9/2013	11:15	12.74	46.76		
GEN-MW7	10/7/2013	11:32	12.68	46.82		
GEN-MW7	11/11/2013	17:28	14.02	45.48		
GEN-MW7	12/17/2013	11:07	14.72	44.78		
GEN-MW7	1/13/2014	10:45	15.10	44.40		
GEN-MW7	2/17/2014	9:53	16.95	42.55		
GEN-MW7	3/16/2014	11:01	16.64	42.86		
GEN-MW7	4/20/2014	9:13	17.36	42.14		
GEN-MW7	5/28/2014	13:33	18.00	41.50		
GEN-MW7	6/19/2014	9:24	18.53	40.97		
GEN-MW7	7/17/2014	19:33	18.25	41.25		
GEN-MW7	8/18/2014	17:53	18.05	41.45		
GEN-MW7	9/22/2014	12:04	18.53	40.97		
GEN-MW7	10/14/2014	10:58	19.02	40.48		
GEN-MW7	11/4/2014	16:25	19.28	40.22		
GEN-MW7	12/14/2014	11:25	19.58	39.92		
GEN-MW7	1/12/2015	13:02	18.94	40.56		
GEN-MW7	2/4/2015	13:41	18.90	40.60		
GEN-MW7	3/13/2015	10:47	19.95	39.55		
GEN-MW7	4/17/2015	8:50	20.78	38.72		
GEN-MW7	5/11/2015	13:15	21.27	38.23		
GEN-MW7	6/5/2015	7:51	21.89	37.61		
GEN-MW7	7/22/2015	12:09	21.75	37.75		
GEN-MW7	8/20/2015	11:54	21.84	37.66		
GEN-MW7	9/14/2015	10:13	22.50	37.00		
GEN-MW7	10/17/2015	12:58	23.16	36.34		
GEN-MW7	11/20/2015	14:13	23.34	36.16		
GEN-MW7	12/23/2015	11:01	23.36	36.14		
GEN-MW7	1/15/2016	11:12	23.24	36.26		
GEN-MW7	2/16/2016	17:02	22.90	36.60		
GEN-MW7	3/18/2016	10:13	22.46	37.04		
GEN-MW7	4/18/2016	10:34	22.76	36.74		
GEN-MW7	5/16/2016	16:48	22.68	36.82		
GEN-MW7	6/16/2016	10:07	21.91	37.59		
GEN-MW7	7/21/2016	9:48	21.52	37.98		
GEN-MW7	8/15/2016	15:54	21.63	37.87		
GEN-MW7	9/15/2016	9:57	21.83	37.67		
GEN-MW7	10/14/2016	9:48	Q/M			
GEN-MW7	12/1/2016	8:54	21.62	37.88		
GEN-MW7	12/12/2016	10:28	21.70	37.80		
GEN-MW7	1/25/2017	9:44	21.42	38.08		
GEN-MW7	2/1/2017		N/M			
GEN-MW7	3/13/2017	13:29	20.44	39.06		
GEN-MW7	4/20/2017	9:36	19.93	39.57		
GEN-MW7	5/16/2017	13:36	19.67	39.83		
GEN-MW7	6/24/2017	9:38	19.61	39.89		
GEN-MW7	7/14/2017	9:55	19.32	40.18		
GEN-MW7	8/24/2017	11:31	18.31	41.19		
GEN-MW7	9/22/2017	10:43	17.82	41.68		
GEN-MW7	10/19/2017	10:29	17.44	42.06		
GEN-MW7	11/15/2017	13:20	17.80	41.70		
GEN-MW7	12/21/2017	11:04	18.13	41.37		
GEN-MW7	1/23/2018	10:22	18.40	41.10		
GEN-MW7	2/15/2018	16:25	18.95	40.55		
GEN-MW7	3/1/2018		N/M			
GEN-MW7	4/24/2018	8:41	18.93	40.57		
GEN-MW7	5/7/2018	15:22	18.95	40.55		
GEN-MW7	6/13/2018	10:48	18.72	40.78		
GEN-MW7	7/16/2018	8:40	18.10	41.40		
GEN-MW7	8/27/2018	12:32	17.60	41.90		
GEN-MW7	9/16/2018	12:02	17.30	42.20		
GEN-MW7	10/25/2018	9:56	17.20	42.30		
GEN-MW7	11/12/2018	13:07	17.59	41.91		
GEN-MW7	12/15/2018	15:09	17.51	41.99		
GEN-MW7	1/25/2019	9:54	17.30	42.20		
GEN-MW7	2/19/2019	13:10	17.15	42.35		
GEN-MW7	3/16/2019	11:22	16.92	42.58		
GEN-MW7	4/16/2019	15:16	16.40	43.10		
GEN-MW7	5/17/2019	11:40	15.88	43.62		
GEN-MW7	6/20/2019	10:20	16.03	43.47		
GEN-MW7	7/17/2019	10:57	15.50	44.00		
GEN-MW7	8/13/2019	9:50	15.62	43.88		
GEN-MW7	9/27/2019	16:09	15.41	44.09		
GEN-MW7	10/30/2019	10:01	15.53	43.97		
GEN-MW7	11/11/2019	13:01	15.67	43.83		
GEN-MW7	12/14/2019	8:30	15.46	44.04		
GEN-MW8	1/16/2013	12:17	12.07	44.84		
GEN-MW8	2/17/2013	15:00	11.94	44.97		
GEN-MW8	3/24/2013	9:20	11.20	45.71		
GEN-MW8	4/18/2013	12:00	11.66	45.25		
GEN-MW8	5/31/2013	13:01	11.42	45.49		
GEN-MW8	6/17/2013	16:10	N/M			
GEN-MW8	7/15/2013	12:54	10.03	46.88		
GEN-MW8	8/21/2013	13:31	10.17	46.74		
GEN-MW8	9/9/2013	11:03	10.57	46.34		
GEN-MW8	10/7/2013	11:22	10.76	46.15		
GEN-MW8	11/11/2013	17:41	12.03	44.88		
GEN-MW8	12/17/2013	10:55	12.80	44.11		
GEN-MW8	1/13/2014	10:36	13.15	43.76		
GEN-MW8	2/17/2014	10:05	14.55	42.36		
GEN-MW8	3/16/2014	10:48	14.33	42.58		
GEN-MW8	4/20/2014	8:59	14.74	42.17		
GEN-MW8	5/28/2014	13:47	15.41	41.50		
GEN-MW8	6/19/2014	9:36	15.79	41.12		
GEN-MW8	7/17/2014	19:22	15.77	41.14		
GEN-MW8	8/18/2014	18:05	15.75	41.16		
GEN-MW8	9/22/2014	12:13	16.09	40.82		
GEN-MW8	10/14/2014	11:11	16.70	40.21		
GEN-MW8	11/4/2014	16:37	17.02	39.89		
GEN-MW8	12/14/2014	11:40	17.46	39.45		
GEN-MW8	1/12/2015	13:16	16.80	40.11		
GEN-MW8	2/4/2015	13:54	16.69	40.22		
GEN-MW8	3/13/2015	11:00	17.16	39.75		
GEN-MW8	4/17/2015	9:02	17.89	39.02		
GEN-MW8	5/11/2015	13:24	18.26	38.65		
GEN-MW8	6/5/2015	7:59	18.78	38.13		
GEN-MW8	7/22/2015	12:36	18.80	38.11		
GEN-MW8	8/20/2015	12:30	18.90	38.01		
GEN-MW8	9/14/2015	10:26	19.60	37.31		
GEN-MW8	10/17/2015	13:11	20.30	36.61		
GEN-MW8	11/20/2015	14:27	20.84	36.07		
GEN-MW8	12/23/2015	11:13	20.96	35.95		
GEN-MW8	1/15/2016	11:22	20.79	36.12		
GEN-MW8	2/16/2016	17:10	20.46	36.45		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
GEN-MW8	3/18/2016	10:23	20.34	36.57		
GEN-MW8	4/18/2016	10:54	20.14	36.77		
GEN-MW8	5/16/2016	17:10	19.83	37.08		
GEN-MW8	6/16/2016	10:17	18.99	37.92		
GEN-MW8	7/21/2016	10:00	18.53	38.38		
GEN-MW8	8/15/2016	16:05	18.50	38.41		
GEN-MW8	9/15/2016	10:07	18.95	37.96		
GEN-MW8	10/14/2016	10:00	19.08	37.83		
GEN-MW8	12/1/2016	9:03	19.29	37.62		
GEN-MW8	12/12/2016	10:39	19.34	37.57		
GEN-MW8	1/25/2017	9:55	19.27	37.64		
GEN-MW8	2/1/2017		N/M			
GEN-MW8	3/13/2017	13:22	18.15	38.76		
GEN-MW8	4/20/2017	9:44	17.67	39.24		
GEN-MW8	5/16/2017	13:30	17.41	39.50		
GEN-MW8	6/24/2017	9:45	17.05	39.86		
GEN-MW8	7/14/2017	10:03	16.65	40.26		
GEN-MW8	8/24/2017	11:43	15.55	41.36		
GEN-MW8	9/22/2017	10:51	14.96	41.95		
GEN-MW8	10/19/2017	10:36	14.70	42.21		
GEN-MW8	11/15/2017	13:15	15.22	41.69		
GEN-MW8	12/21/2017	10:44	15.70	41.21		
GEN-MW8	1/23/2018	10:37	16.03	40.88		
GEN-MW8	2/15/2018	16:14	16.35	40.56		
GEN-MW8	3/1/2018		N/M			
GEN-MW8	4/24/2018	8:53	16.39	40.52		
GEN-MW8	5/7/2018	15:30	16.26	40.65		
GEN-MW8	6/13/2018	11:02	15.93	40.98		
GEN-MW8	7/16/2018	8:45	15.27	41.64		
GEN-MW8	8/27/2018	12:27	14.65	42.26		
GEN-MW8	9/16/2018	12:09	14.35	42.56		
GEN-MW8	10/25/2018	10:05	14.45	42.46		
GEN-MW8	11/12/2018	13:18	14.94	41.97		
GEN-MW8	12/15/2018	15:16	15.07	41.84		
GEN-MW8	1/25/2019	10:03	14.95	41.96		
GEN-MW8	2/19/2019	13:02	14.74	42.17		
GEN-MW8	3/16/2019	11:29	14.55	42.36		
GEN-MW8	4/16/2019	15:33	14.08	42.83		
GEN-MW8	5/17/2019	11:47	13.50	43.41		
GEN-MW8	6/20/2019	10:29	13.65	43.26		
GEN-MW8	7/17/2019	11:10	12.88	44.03		
GEN-MW8	8/13/2019	10:05	12.83	44.08		
GEN-MW8	9/27/2019	15:53	12.56	44.35		
GEN-MW8	10/30/2019	10:13	12.97	43.94		
GEN-MW8	11/11/2019	13:13	13.18	43.73		
GEN-MW8	12/14/2019	8:38	13.34	43.57		
GEN-MW9	1/16/2013	12:00	13.00	43.88		
GEN-MW9	2/17/2013	14:44	12.83	44.05		
GEN-MW9	3/24/2013	9:30	11.59	45.29		
GEN-MW9	4/18/2013	11:48	12.54	44.34		
GEN-MW9	5/31/2013	13:13	12.18	44.70		
GEN-MW9	6/17/2013	15:56	11.55	45.33		
GEN-MW9	7/15/2013	13:12	10.62	46.26		
GEN-MW9	8/21/2013	13:43	10.84	46.04		
GEN-MW9	9/9/2013	10:47	11.38	45.50		
GEN-MW9	10/7/2013	11:08	11.06	45.82		
GEN-MW9	11/11/2013	17:44	11.93	44.95		
GEN-MW9	12/17/2013	10:45	13.60	43.28		
GEN-MW9	1/13/2014	10:12	15.95	40.93		
GEN-MW9	2/17/2014	9:45	15.90	40.98		
GEN-MW9	3/16/2014	10:38	14.82	42.06		
GEN-MW9	4/20/2014	8:49	15.16	41.72		
GEN-MW9	5/28/2014	13:56	15.55	41.33		
GEN-MW9	6/19/2014	9:46	16.03	40.85		
GEN-MW9	7/17/2014	19:17	15.46	41.42		
GEN-MW9	8/18/2014	18:16	15.72	41.16		
GEN-MW9	9/22/2014	12:21	16.25	40.63		
GEN-MW9	10/14/2014	11:21	16.94	39.94		
GEN-MW9	11/4/2014	16:46	17.50	39.38		
GEN-MW9	12/14/2014	11:56	17.85	39.03		
GEN-MW9	1/12/2015	13:30	17.13	39.75		
GEN-MW9	2/4/2015	14:10	17.14	39.74		
GEN-MW9	3/13/2015	11:07	17.32	39.56		
GEN-MW9	4/17/2015	9:19	18.05	38.83		
GEN-MW9	5/11/2015	13:40	17.94	38.94		
GEN-MW9	6/5/2015	8:14	18.65	38.23		
GEN-MW9	7/22/2015	12:30	17.89	38.99		
GEN-MW9	8/20/2015	12:22	18.47	38.41		
GEN-MW9	9/14/2015	10:44	19.58	37.30		
GEN-MW9	10/17/2015	13:30	20.36	36.52		
GEN-MW9	11/20/2015	15:00	Dry			
GEN-MW9	12/23/2015	11:29	21.26	35.62		
GEN-MW9	1/15/2016	11:36	21.00	35.88		
GEN-MW9	2/16/2016	17:28	20.61	36.27		
GEN-MW9	3/18/2016	10:43	20.46	36.42		
GEN-MW9	4/18/2016	11:10	19.99	36.89		
GEN-MW9	5/16/2016	17:24	19.60	37.28		
GEN-MW9	6/16/2016	10:29	17.66	39.22		
GEN-MW9	7/21/2016	10:16	17.79	39.09		
GEN-MW9	8/15/2016	16:23	17.84	39.04		
GEN-MW9	9/15/2016	10:17	18.52	38.36		
GEN-MW9	10/14/2016	10:17	18.77	38.11		
GEN-MW9	12/1/2016	9:20	19.55	37.33		
GEN-MW9	12/12/2016	10:50	19.66	37.22		
GEN-MW9	1/25/2017	10:06	19.40	37.48		
GEN-MW9	2/1/2017		N/M			
GEN-MW9	3/13/2017	13:16	18.20	38.68		
GEN-MW9	4/20/2017	9:54	17.67	39.21		
GEN-MW9	5/16/2017	13:29	17.46	39.42		
GEN-MW9	6/24/2017	9:59	16.90	39.98		
GEN-MW9	7/14/2017	10:11	16.13	40.75		
GEN-MW9	8/24/2017	11:57	14.80	42.08		
GEN-MW9	9/22/2017	11:00	13.77	43.11		
GEN-MW9	10/19/2017	10:46	14.49	42.39		
GEN-MW9	11/15/2017	13:11	15.28	41.60		
GEN-MW9	12/21/2017	10:51	15.95	40.93		
GEN-MW9	1/23/2018	10:14	16.32	40.56		
GEN-MW9	2/15/2018	16:02	16.64	40.24		
GEN-MW9	3/1/2018		N/M			
GEN-MW9	4/24/2018	9:07	16.29	40.59		
GEN-MW9	5/7/2018	15:50	15.83	41.05		
GEN-MW9	6/13/2018	11:09	15.73	41.15		
GEN-MW9	7/16/2018	8:54	14.95	41.93		
GEN-MW9	8/27/2018	12:20	13.53	43.35		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
GEN-MW9	9/16/2018	12:17	14.00	42.88		
GEN-MW9	10/25/2018	10:17	14.44	42.44		
GEN-MW9	11/12/2018	13:34	14.90	41.98		
GEN-MW9	12/15/2018	15:01	15.26	41.62		
GEN-MW9	1/25/2019	10:15	15.06	41.82		
GEN-MW9	2/19/2019	13:25	14.86	42.02		
GEN-MW9	3/16/2019	11:36	14.70	42.18		
GEN-MW9	4/16/2019	15:01	14.18	42.70		
GEN-MW9	5/17/2019	11:54	13.41	43.47		
GEN-MW9	6/20/2019	10:43	13.56	43.32		
GEN-MW9	7/17/2019	11:30	12.80	44.08		
GEN-MW9	8/13/2019	10:24	12.58	44.30		
GEN-MW9	9/27/2019	15:36	12.38	44.50		
GEN-MW9	10/30/2019	10:26	12.85	44.03		
GEN-MW9	11/11/2019	13:28	13.19	43.69		
GEN-MW9	12/14/2019	8:47	13.67	43.21		
GEN-MW10	1/16/2013	11:41	13.82	44.69		
GEN-MW10	2/17/2013	14:36	13.40	45.11		
GEN-MW10	3/24/2013	9:25	12.75	45.76		
GEN-MW10	4/18/2013	11:39	13.31	45.20		
GEN-MW10	5/31/2013	13:25	13.18	45.33		
GEN-MW10	6/17/2013	15:48	12.64	45.87		
GEN-MW10	7/15/2013	12:57	11.81	46.70		
GEN-MW10	8/21/2013	13:33	12.19	46.32		
GEN-MW10	9/9/2013	11:00	12.58	45.93		
GEN-MW10	10/7/2013	11:19	12.46	46.05		
GEN-MW10	11/11/2013	18:07	13.99	44.52		
GEN-MW10	12/17/2013	10:53	14.61	43.90		
GEN-MW10	1/13/2014	10:22	14.94	43.57		
GEN-MW10	2/17/2014	10:03	16.15	42.36		
GEN-MW10	3/16/2014	10:45	15.97	42.54		
GEN-MW10	4/20/2014	8:56	16.33	42.18		
GEN-MW10	5/28/2014	13:50	16.99	41.52		
GEN-MW10	6/19/2014	9:39	17.46	41.05		
GEN-MW10	7/17/2014	19:11	17.37	41.14		
GEN-MW10	8/18/2014	18:09	17.52	40.99		
GEN-MW10	9/22/2014	12:15	17.90	40.61		
GEN-MW10	10/14/2014	11:14	18.53	39.98		
GEN-MW10	11/4/2014	16:40	18.92	39.59		
GEN-MW10	12/14/2014	11:46	19.19	39.32		
GEN-MW10	1/12/2015	13:24	18.54	39.97		
GEN-MW10	2/4/2015	14:04	18.39	40.12		
GEN-MW10	3/13/2015	11:03	18.64	39.87		
GEN-MW10	4/17/2015	9:04	19.50	39.01		
GEN-MW10	5/11/2015	13:27	19.91	38.60		
GEN-MW10	6/5/2015	8:01	20.35	38.16		
GEN-MW10	7/22/2015	12:22	20.34	38.17		
GEN-MW10	8/20/2015	12:14	20.54	37.97		
GEN-MW10	9/14/2015	10:29	21.42	37.09		
GEN-MW10	10/17/2015	13:14	22.21	36.30		
GEN-MW10	11/20/2015	14:47	22.68	35.83		
GEN-MW10	12/23/2015	11:23	22.70	35.81		
GEN-MW10	1/15/2016	11:30	22.55	35.96		
GEN-MW10	2/16/2016	17:22	22.20	36.31		
GEN-MW10	3/18/2016	10:35	22.00	36.51		
GEN-MW10	4/18/2016	11:02	21.74	36.77		
GEN-MW10	5/16/2016	17:12	21.40	37.11		
GEN-MW10	6/16/2016	10:21	20.43	38.08		
GEN-MW10	7/21/2016	10:03	20.05	38.46		
GEN-MW10	8/15/2016	16:15	20.13	38.38		
GEN-MW10	9/15/2016	10:10	20.70	37.81		
GEN-MW10	10/14/2016	10:02	20.95	37.56		
GEN-MW10	12/1/2016	9:13	21.10	37.41		
GEN-MW10	12/12/2016	10:43	21.15	37.36		
GEN-MW10	1/25/2017	9:59	20.90	37.61		
GEN-MW10	2/1/2017		N/M			
GEN-MW10	3/13/2017	13:07	19.81	38.70		
GEN-MW10	4/20/2017	9:47	19.33	39.18		
GEN-MW10	5/16/2017	13:19	19.18	39.33		
GEN-MW10	6/24/2017	9:47	18.68	39.83		
GEN-MW10	7/14/2017	10:05	18.21	40.30		
GEN-MW10	8/24/2017	11:45	17.10	41.41		
GEN-MW10	9/22/2017	10:53	16.51	42.00		
GEN-MW10	10/19/2017	10:41	16.41	42.10		
GEN-MW10	11/15/2017	13:13	16.95	41.56		
GEN-MW10	12/21/2017	10:49	17.46	41.05		
GEN-MW10	1/23/2018	10:41	17.72	40.79		
GEN-MW10	2/15/2018	16:10	18.04	40.47		
GEN-MW10	3/1/2018		N/M			
GEN-MW10	4/24/2018	8:57	17.96	40.55		
GEN-MW10	5/7/2018	15:32	17.73	40.78		
GEN-MW10	6/13/2018	11:04	17.45	41.06		
GEN-MW10	7/16/2018	8:47	16.88	41.63		
GEN-MW10	8/27/2018	12:25	16.14	42.37		
GEN-MW10	9/16/2018	12:11	16.09	42.42		
GEN-MW10	10/25/2018	10:11	16.22	42.29		
GEN-MW10	11/12/2018	13:20	16.65	41.86		
GEN-MW10	12/15/2018	14:56	16.85	41.66		
GEN-MW10	1/25/2019	10:08	16.67	41.84		
GEN-MW10	2/19/2019	13:20	16.46	42.05		
GEN-MW10	3/16/2019	11:32	15.25	43.26		
GEN-MW10	4/16/2019	14:55	15.78	42.73		
GEN-MW10	5/17/2019	11:49	16.17	42.34		
GEN-MW10	6/20/2019	10:31	15.30	43.21		
GEN-MW10	7/17/2019	11:14	14.63	43.88		
GEN-MW10	8/13/2019	10:10	14.58	43.93		
GEN-MW10	9/27/2019	15:21	14.82	43.69		
GEN-MW10	10/30/2019	10:19	14.70	43.81		
GEN-MW10	11/11/2019	13:16	14.95	43.56		
GEN-MW10	12/14/2019	8:43	15.10	43.41		
GEN-MW11s	1/16/2013	11:45	13.43	44.18	0.13	0.01
GEN-MW11s	2/17/2013	14:40	13.26	44.35	<|0.05|	0
GEN-MW11s	3/24/2013	9:28	12.47	45.14	<|0.05|	0
GEN-MW11s	4/18/2013	11:43	12.53	45.08	<|0.05|	0
GEN-MW11s	5/31/2013	13:07	12.70	44.91	<|0.05|	0
GEN-MW11s	6/17/2013	15:51	11.90	45.71	0.09	0.01
GEN-MW11s	7/15/2013	13:19	11.98	45.63	<|0.05|	0
GEN-MW11s	8/21/2013	13:37	12.19	45.42	<|0.05|	0
GEN-MW11s	9/9/2013	10:52	12.61	45.00	<|0.05|	0
GEN-MW11s	10/7/2013	11:16	12.64	44.97	<|0.05|	0
GEN-MW11s	11/11/2013	18:00	13.72	43.89	<|0.05|	0
GEN-MW11s	12/17/2013	10:50	14.21	43.40	<|0.05|	0
GEN-MW11s	1/13/2014	10:20	14.50	43.11	<|0.05|	0
GEN-MW11s	2/17/2014	10:00	15.52	42.09	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
GEN-MW11s	3/16/2014	10:41	15.29	42.32	<|0.05|	0
GEN-MW11s	4/20/2014	8:54	15.62	41.99	<|0.05|	0
GEN-MW11s	5/28/2014	13:54	16.35	41.26	0.08	0.00
GEN-MW11s	6/19/2014	9:42	16.94	40.67	0.07	0.00
GEN-MW11s	7/17/2014	19:14	16.91	40.70	0.07	0.00
GEN-MW11s	8/18/2014	18:12	17.15	40.46	0.09	0.01
GEN-MW11s	9/22/2014	12:18	17.85	39.76	0.06	0.00
GEN-MW11s	10/14/2014	11:17	18.54	39.07	<|0.05|	0
GEN-MW11s	11/4/2014	16:43	18.88	38.73	<|0.05|	0
GEN-MW11s	12/14/2014	11:51	18.93	38.68	<|0.05|	0
GEN-MW11s	1/12/2015	13:27	18.19	39.42	-0.13	-0.01
GEN-MW11s	2/4/2015	14:08	17.90	39.71	<|0.05|	0
GEN-MW11s	3/13/2015	11:05	17.92	39.69	<|0.05|	0
GEN-MW11s	4/17/2015	9:16	19.03	38.58	0.06	0.00
GEN-MW11s	5/11/2015	13:37	19.52	38.09	<|0.05|	0
GEN-MW11s	6/5/2015	8:09	19.77	37.84	<|0.05|	0
GEN-MW11s	7/22/2015	12:25	19.73	37.88	0.08	0.00
GEN-MW11s	8/20/2015	12:17	20.30	37.31	0.18	0.01
GEN-MW11s	9/14/2015	10:40	21.45	36.16	0.08	0.00
GEN-MW11s	10/17/2015	13:27	22.08	35.53	0.06	0.00
GEN-MW11s	11/20/2015	14:50	22.34	35.27	<|0.05|	0
GEN-MW11s	12/23/2015	11:25	22.25	35.36	<|0.05|	0
GEN-MW11s	1/15/2016	11:33	22.09	35.52	<|0.05|	0
GEN-MW11s	2/16/2016	17:25	21.60	36.01	<|0.05|	0
GEN-MW11s	3/18/2016	10:38	21.32	36.29	<|0.05|	0
GEN-MW11s	4/18/2016	11:06	21.03	36.58	<|0.05|	0
GEN-MW11s	5/16/2016	17:20	20.68	36.93	0.12	0.01
GEN-MW11s	6/16/2016	10:23	19.49	38.12	<|0.05|	0
GEN-MW11s	7/21/2016	10:12	19.48	38.13	0.19	0.01
GEN-MW11s	8/15/2016	16:19	19.73	37.88	0.15	0.01
GEN-MW11s	9/15/2016	10:12	20.58	37.03	0.10	0.01
GEN-MW11s	10/14/2016	10:13	21.11	36.50	<|0.05|	0
GEN-MW11s	12/1/2016	9:16	25.85	31.76	<|0.05|	0
GEN-MW11s	12/12/2016	10:45	20.82	36.79	<|0.05|	0
GEN-MW11s	1/25/2017	10:01	20.61	37.00	<|0.05|	0
GEN-MW11s	2/1/2017		N/M			
GEN-MW11s	3/13/2017	13:10	19.15	38.46	<|0.05|	0
GEN-MW11s	4/20/2017	9:50	18.66	38.95	<|0.05|	0
GEN-MW11s	5/16/2017	13:26	18.54	39.07	<|0.05|	0
GEN-MW11s	6/24/2017	9:50	17.61	40.00	0.13	0.01
GEN-MW11s	7/14/2017	10:07	17.28	40.33	0.09	0.01
GEN-MW11s	8/24/2017	11:47	16.14	41.47	0.10	0.01
GEN-MW11s	9/22/2017	10:55	15.63	41.98	0.09	0.01
GEN-MW11s	10/19/2017	10:44	15.88	41.74	0.06	0.00
GEN-MW11s	11/15/2017	13:08	16.37	41.24	0.05	0.00
GEN-MW11s	12/21/2017	10:53	16.91	40.70	<|0.05|	0
GEN-MW11s	1/23/2018	10:41	17.23	40.38	<|0.05|	0
GEN-MW11s	2/15/2018	16:07	17.50	40.11	<|0.05|	0
GEN-MW11s	3/1/2018		N/M			
GEN-MW11s	4/24/2018	9:01	17.02	40.59	0.05	0.00
GEN-MW11s	5/7/2018	15:34	16.57	41.04	<|0.05|	0
GEN-MW11s	6/13/2018	11:06	16.45	41.16	0.09	0.01
GEN-MW11s	7/16/2018	8:50	16.12	41.49	0.06	0.00
GEN-MW11s	8/27/2018	12:22	15.35	42.26	0.09	0.01
GEN-MW11s	9/16/2018	12:14	15.53	42.08	0.10	0.01
GEN-MW11s	10/25/2018	10:12	15.78	41.83	<|0.05|	0
GEN-MW11s	11/12/2018	13:28	16.15	41.46	<|0.05|	0
GEN-MW11s	12/15/2018	14:57	16.40	41.21	<|0.05|	0
GEN-MW11s	1/25/2019	10:10	16.14	41.47	<|0.05|	0
GEN-MW11s	2/19/2019	13:21	15.96	41.65	<|0.05|	0
GEN-MW11s	3/16/2019	11:33	15.70	41.91	<|0.05|	0
GEN-MW11s	4/16/2019	14:58	15.15	42.46	<|0.05|	0
GEN-MW11s	5/17/2019	11:50	14.54	43.07	<|0.05|	0
GEN-MW11s	6/20/2019	10:34	14.67	42.94	<|0.05|	0
GEN-MW11s	7/17/2019	11:26	14.16	43.45	<|0.05|	0
GEN-MW11s	8/13/2019	10:27	14.00	43.61	0.07	0.00
GEN-MW11s	9/27/2019	15:30	14.09	43.52	<|0.05|	0
GEN-MW11s	10/30/2019	10:22	14.27	43.34	<|0.05|	0
GEN-MW11s	11/11/2019	13:24	14.35	43.26	0.06	0.00
GEN-MW11s	12/14/2019	8:44	14.66	42.95	<|0.05|	0
GEN-MW11d	1/16/2013	11:46	13.58	44.05		
GEN-MW11d	2/17/2013	14:41	13.25	44.38		
GEN-MW11d	3/24/2013	9:28	12.44	45.19		
GEN-MW11d	4/18/2013	11:43	12.56	45.07		
GEN-MW11d	5/31/2013	13:07	12.70	44.93		
GEN-MW11d	6/17/2013	15:51	12.01	45.62		
GEN-MW11d	7/15/2013	13:19	11.99	45.64		
GEN-MW11d	8/21/2013	13:37	12.20	45.43		
GEN-MW11d	9/9/2013	10:52	12.62	45.01		
GEN-MW11d	10/7/2013	11:16	12.66	44.97		
GEN-MW11d	11/11/2013	18:00	13.75	43.88		
GEN-MW11d	12/17/2013	10:50	14.24	43.39		
GEN-MW11d	1/13/2014	10:20	14.50	43.13		
GEN-MW11d	2/17/2014	10:00	15.51	42.12		
GEN-MW11d	3/16/2014	10:41	15.30	42.33		
GEN-MW11d	4/20/2014	8:54	15.64	41.99		
GEN-MW11d	5/28/2014	13:54	16.45	41.18		
GEN-MW11d	6/19/2014	9:42	17.03	40.60		
GEN-MW11d	7/17/2014	19:14	17.00	40.63		
GEN-MW11d	8/18/2014	18:12	17.26	40.37		
GEN-MW11d	9/22/2014	12:18	17.93	39.70		
GEN-MW11d	10/14/2014	11:17	18.59	39.04		
GEN-MW11d	11/4/2014	16:43	18.89	38.74		
GEN-MW11d	12/14/2014	11:51	18.91	38.72		
GEN-MW11d	1/12/2015	13:27	18.08	39.55		
GEN-MW11d	2/4/2015	14:08	17.90	39.73		
GEN-MW11d	3/13/2015	11:05	17.95	39.68		
GEN-MW11d	4/17/2015	9:16	19.11	38.52		
GEN-MW11d	5/11/2015	13:37	19.54	38.09		
GEN-MW11d	6/5/2015	8:09	19.83	37.80		
GEN-MW11d	7/22/2015	12:25	19.83	37.80		
GEN-MW11d	8/20/2015	12:17	20.50	37.13		
GEN-MW11d	9/14/2015	10:40	21.55	36.08		
GEN-MW11d	10/17/2015	13:27	22.16	35.47		
GEN-MW11d	11/20/2015	14:50	22.37	35.26		
GEN-MW11d	12/23/2015	11:26	22.26	35.37		
GEN-MW11d	1/15/2016	11:34	22.06	35.57		
GEN-MW11d	2/16/2016	17:26	21.59	36.04		
GEN-MW11d	3/18/2016	10:39	21.33	36.30		
GEN-MW11d	4/18/2016	11:06	21.02	36.61		
GEN-MW11d	5/16/2016	17:20	20.82	36.81		
GEN-MW11d	6/16/2016	10:24	19.56	38.07		
GEN-MW11d	7/21/2016	10:12	19.69	37.94		
GEN-MW11d	8/15/2016	16:19	19.90	37.73		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
GEN-MW11d	9/15/2016	10:13	20.70	36.93		
GEN-MW11d	10/14/2016	10:13	21.13	36.50		
GEN-MW11d	12/1/2016	9:16	25.89	31.74		
GEN-MW11d	12/12/2016	10:40	20.85	36.78		
GEN-MW11d	1/25/2017	10:02	20.60	37.03		
GEN-MW11d	2/1/2017		N/M			
GEN-MW11d	3/13/2017	13:10	19.15	38.48		
GEN-MW11d	4/20/2017	9:51	18.68	38.95		
GEN-MW11d	5/16/2017	13:26	18.55	39.08		
GEN-MW11d	6/24/2017	9:51	17.76	39.87		
GEN-MW11d	7/14/2017	10:08	17.39	40.24		
GEN-MW11d	8/24/2017	11:48	16.26	41.37		
GEN-MW11d	9/22/2017	10:56	15.74	41.89		
GEN-MW11d	10/19/2017	10:43	15.95	41.68		
GEN-MW11d	11/15/2017	13:08	16.44	41.19		
GEN-MW11d	12/21/2017	10:54	16.96	40.67		
GEN-MW11d	1/23/2018	10:42	17.26	40.37		
GEN-MW11d	2/15/2018	16:08	17.53	40.10		
GEN-MW11d	3/1/2018		N/M			
GEN-MW11d	4/24/2018	9:02	17.09	40.54		
GEN-MW11d	5/7/2018	15:35	16.62	41.01		
GEN-MW11d	6/13/2018	11:07	16.56	41.07		
GEN-MW11d	7/16/2018	8:51	16.20	41.43		
GEN-MW11d	8/27/2018	12:22	15.46	42.17		
GEN-MW11d	9/16/2018	12:14	15.65	41.98		
GEN-MW11d	10/25/2018	10:13	15.83	41.80		
GEN-MW11d	11/12/2018	13:28	16.20	41.43		
GEN-MW11d	12/15/2018	14:58	16.42	41.21		
GEN-MW11d	1/25/2019	10:11	16.18	41.45		
GEN-MW11d	2/19/2019	13:22	16.00	41.63		
GEN-MW11d	3/16/2019	11:34	15.70	41.93		
GEN-MW11d	4/16/2019	14:58	15.18	42.45		
GEN-MW11d	5/17/2019	11:51	14.58	43.05		
GEN-MW11d	6/20/2019	10:35	14.70	42.93		
GEN-MW11d	7/17/2019	11:26	14.21	43.42		
GEN-MW11d	8/13/2019	10:27	14.09	43.54		
GEN-MW11d	9/27/2019	15:30	14.14	43.49		
GEN-MW11d	10/30/2019	10:23	14.30	43.33		
GEN-MW11d	11/11/2019	13:24	14.43	43.20		
GEN-MW11d	12/14/2019	8:45	14.68	42.95		
GEN-MW12s	1/16/2013	11:50	14.26	46.11	<|0.05|	0
GEN-MW12s	2/17/2013	14:33	14.34	46.03	<|0.05|	0
GEN-MW12s	3/24/2013	9:23	13.43	46.94	<|0.05|	0
GEN-MW12s	4/18/2013	11:35	13.56	46.81	<|0.05|	0
GEN-MW12s	5/31/2013	12:44	13.97	46.40	<|0.05|	0
GEN-MW12s	6/17/2013	15:44	13.24	47.13	<|0.05|	0
GEN-MW12s	7/15/2013	13:24	12.69	47.68	<|0.05|	0
GEN-MW12s	8/21/2013	13:11	13.69	46.68	<|0.05|	0
GEN-MW12s	9/9/2013	11:21	14.09	46.28	<|0.05|	0
GEN-MW12s	10/7/2013	11:37	13.80	46.57	<|0.05|	0
GEN-MW12s	11/11/2013	18:11	15.23	45.14	<|0.05|	0
GEN-MW12s	12/17/2013	11:13	15.55	44.82	<|0.05|	0
GEN-MW12s	1/13/2014	10:54	15.83	44.54	<|0.05|	0
GEN-MW12s	2/17/2014	9:57	17.02	43.35	<|0.05|	0
GEN-MW12s	3/16/2014	11:05	16.80	43.57	<|0.05|	0
GEN-MW12s	4/20/2014	9:17	17.15	43.22	<|0.05|	0
GEN-MW12s	5/28/2014	14:02	18.14	42.23	<|0.05|	0
GEN-MW12s	6/19/2014	9:51	18.65	41.72	<|0.05|	0
GEN-MW12s	7/17/2014	19:07	19.03	41.34	<|0.05|	0
GEN-MW12s	8/18/2014	18:22	19.54	40.83	<|0.05|	0
GEN-MW12s	9/22/2014	12:26	20.15	40.22	<|0.05|	0
GEN-MW12s	10/14/2014	11:26	20.69	39.68	<|0.05|	0
GEN-MW12s	11/4/2014	16:52	20.80	39.57	<|0.05|	0
GEN-MW12s	12/14/2014	12:07	20.75	39.62	<|0.05|	0
GEN-MW12s	1/12/2015	13:21	19.95	40.42	<|0.05|	0
GEN-MW12s	2/4/2015	14:01	19.68	40.69	<|0.05|	0
GEN-MW12s	3/13/2015	11:17	20.00	40.37	<|0.05|	0
GEN-MW12s	4/17/2015	9:10	21.00	39.37	<|0.05|	0
GEN-MW12s	5/11/2015	13:31	21.53	38.84	<|0.05|	0
GEN-MW12s	6/5/2015	8:04	22.02	38.35	0.05	0.00
GEN-MW12s	7/22/2015	12:17	22.86	37.51	<|0.05|	0
GEN-MW12s	8/20/2015	12:09	23.56	36.81	0.07	0.00
GEN-MW12s	9/14/2015	10:33	Dry			
GEN-MW12s	10/17/2015	13:18	Dry			
GEN-MW12s	11/20/2015	14:32	Dry			
GEN-MW12s	12/23/2015	11:18	Dry			
GEN-MW12s	1/15/2016	11:26	Dry			
GEN-MW12s	2/16/2016	17:18	Dry			
GEN-MW12s	3/18/2016	10:28	Dry			
GEN-MW12s	4/18/2016	11:59	Dry			
GEN-MW12s	5/16/2016	17:15	Dry			
GEN-MW12s	6/16/2016	10:32	22.44	37.93	<|0.05|	0
GEN-MW12s	7/21/2016	10:07	20.70	39.67	<|0.05|	0
GEN-MW12s	8/15/2016	16:11	22.98	37.39	<|0.05|	0
GEN-MW12s	9/15/2016	10:22	Dry			
GEN-MW12s	10/14/2016	10:07	Dry			
GEN-MW12s	12/1/2016	9:09	22.95	37.42	<|0.05|	0
GEN-MW12s	12/12/2016	10:54	22.91	37.46	<|0.05|	0
GEN-MW12s	1/25/2017	10:10	22.71	37.66	<|0.05|	0
GEN-MW12s	2/1/2017		N/M			
GEN-MW12s	3/13/2017	13:02	21.33	39.04	<|0.05|	0
GEN-MW12s	4/20/2017	9:59	20.56	39.81	<|0.05|	0
GEN-MW12s	5/16/2017	13:15	20.38	39.99	<|0.05|	0
GEN-MW12s	6/24/2017	10:03	20.31	40.06	<|0.05|	0
GEN-MW12s	7/14/2017	10:16	20.03	40.34	<|0.05|	0
GEN-MW12s	8/24/2017	11:35	19.69	40.68	<|0.05|	0
GEN-MW12s	9/22/2017	11:05	19.48	40.89	<|0.05|	0
GEN-MW12s	10/19/2017	10:50	19.08	41.29	<|0.05|	0
GEN-MW12s	11/15/2017	13:04	19.13	41.24	<|0.05|	0
GEN-MW12s	12/21/2017	10:57	19.33	41.04	<|0.05|	0
GEN-MW12s	1/23/2018	10:46	19.50	40.87	<|0.05|	0
GEN-MW12s	2/15/2018	16:31	19.74	40.63	<|0.05|	0
GEN-MW12s	3/1/2018		N/M			
GEN-MW12s	4/24/2018	9:13	19.69	40.68	<|0.05|	0
GEN-MW12s	5/7/2018	15:40	19.57	40.80	<|0.05|	0
GEN-MW12s	6/13/2018	11:13	19.45	40.92	<|0.05|	0
GEN-MW12s	7/16/2018	8:58	19.09	41.28	<|0.05|	0
GEN-MW12s	8/27/2018	12:14	19.19	41.18	<|0.05|	0
GEN-MW12s	9/16/2018	12:24	18.98	41.39	<|0.05|	0
GEN-MW12s	10/25/2018	10:22	18.77	41.60	<|0.05|	0
GEN-MW12s	11/12/2018	13:24	18.90	41.47	<|0.05|	0
GEN-MW12s	12/15/2018	14:52	18.79	41.58	<|0.05|	0
GEN-MW12s	1/25/2019	10:18	18.61	41.76	<|0.05|	0
GEN-MW12s	2/19/2019	13:17	18.36	42.01	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
GEN-MW12s	3/16/2019	11:43	18.10	42.27	<|0.05|	0
GEN-MW12s	4/16/2019	14:51	17.58	42.79	<|0.05|	0
GEN-MW12s	5/17/2019	11:58	17.05	43.32	<|0.05|	0
GEN-MW12s	6/20/2019	10:48	17.22	43.15	<|0.05|	0
GEN-MW12s	7/17/2019	11:20	16.89	43.48	<|0.05|	0
GEN-MW12s	8/13/2019	9:36	17.12	43.25	<|0.05|	0
GEN-MW12s	9/27/2019	15:18	17.35	43.02	<|0.05|	0
GEN-MW12s	10/30/2019	10:31	17.06	43.31	<|0.05|	0
GEN-MW12s	11/11/2019	13:20	17.02	43.35	<|0.05|	0
GEN-MW12s	12/14/2019	8:51	16.90	43.47	<|0.05|	0
GEN-MW12d	1/16/2013	11:51	14.28	46.07		
GEN-MW12d	2/17/2013	14:34	14.35	46.00		
GEN-MW12d	3/24/2013	9:23	13.45	46.90		
GEN-MW12d	4/18/2013	11:35	13.53	46.82		
GEN-MW12d	5/31/2013	12:44	13.95	46.40		
GEN-MW12d	6/17/2013	15:44	13.21	47.14		
GEN-MW12d	7/15/2013	13:24	12.70	47.65		
GEN-MW12d	8/21/2013	13:11	13.66	46.69		
GEN-MW12d	9/9/2013	11:21	14.07	46.28		
GEN-MW12d	10/7/2013	11:37	13.81	46.54		
GEN-MW12d	11/11/2013	18:11	15.24	45.11		
GEN-MW12d	12/17/2013	11:13	15.54	44.81		
GEN-MW12d	1/13/2014	10:54	15.80	44.55		
GEN-MW12d	2/17/2014	9:57	17.00	43.35		
GEN-MW12d	3/16/2014	11:05	16.76	43.59		
GEN-MW12d	4/20/2014	9:17	17.12	43.23		
GEN-MW12d	5/28/2014	14:02	18.12	42.23		
GEN-MW12d	6/19/2014	9:51	18.63	41.72		
GEN-MW12d	7/17/2014	19:07	19.02	41.33		
GEN-MW12d	8/18/2014	18:22	19.54	40.81		
GEN-MW12d	9/22/2014	12:26	20.12	40.23		
GEN-MW12d	10/14/2014	11:26	20.69	39.66		
GEN-MW12d	11/4/2014	16:52	20.79	39.56		
GEN-MW12d	12/14/2014	12:07	20.73	39.62		
GEN-MW12d	1/12/2015	13:21	19.90	40.45		
GEN-MW12d	2/4/2015	14:01	19.69	40.66		
GEN-MW12d	3/13/2015	11:17	20.01	40.34		
GEN-MW12d	4/17/2015	9:10	21.02	39.33		
GEN-MW12d	5/11/2015	13:31	21.52	38.83		
GEN-MW12d	6/5/2015	8:04	22.05	38.30		
GEN-MW12d	7/22/2015	12:17	22.86	37.49		
GEN-MW12d	8/20/2015	12:10	23.61	36.74		
GEN-MW12d	9/14/2015	10:33	24.22	36.13		
GEN-MW12d	10/17/2015	13:18	24.82	35.53		
GEN-MW12d	11/20/2015	14:32	24.65	35.70		
GEN-MW12d	12/23/2015	11:19	24.40	35.95		
GEN-MW12d	1/15/2016	11:27	24.21	36.14		
GEN-MW12d	2/16/2016	17:19	23.80	36.55		
GEN-MW12d	3/18/2016	10:29	23.50	36.85		
GEN-MW12d	4/18/2016	11:59	23.30	37.05		
GEN-MW12d	5/16/2016	17:15	23.23	37.12		
GEN-MW12d	6/16/2016	10:33	22.43	37.92		
GEN-MW12d	7/21/2016	10:07	20.70	39.65		
GEN-MW12d	8/15/2016	16:11	22.95	37.40		
GEN-MW12d	9/15/2016	10:23	23.60	36.75		
GEN-MW12d	10/14/2016	10:07	23.63	36.72		
GEN-MW12d	12/1/2016	9:09	22.94	37.41		
GEN-MW12d	12/12/2016	10:55	22.88	37.47		
GEN-MW12d	1/25/2017	10:10	22.68	37.67		
GEN-MW12d	2/1/2017		N/M			
GEN-MW12d	3/13/2017	13:03	21.30	39.05		
GEN-MW12d	4/20/2017	10:00	20.56	39.79		
GEN-MW12d	5/16/2017	13:16	20.38	39.97		
GEN-MW12d	6/24/2017	10:04	20.33	40.02		
GEN-MW12d	7/14/2017	10:17	20.03	40.32		
GEN-MW12d	8/24/2017	11:36	19.68	40.67		
GEN-MW12d	9/22/2017	11:06	19.48	40.87		
GEN-MW12d	10/19/2017	10:50	19.08	41.27		
GEN-MW12d	11/15/2017	13:04	19.13	41.22		
GEN-MW12d	12/21/2017	10:58	19.36	40.99		
GEN-MW12d	1/23/2018	10:47	19.52	40.83		
GEN-MW12d	2/15/2018	16:32	19.76	40.59		
GEN-MW12d	3/1/2018		N/M			
GEN-MW12d	4/24/2018	9:13	19.67	40.68		
GEN-MW12d	5/7/2018	15:40	19.58	40.77		
GEN-MW12d	6/13/2018	11:14	19.44	40.91		
GEN-MW12d	7/16/2018	8:59	19.09	41.26		
GEN-MW12d	8/27/2018	12:14	19.20	41.15		
GEN-MW12d	9/16/2018	12:24	18.98	41.37		
GEN-MW12d	10/25/2018	10:23	18.78	41.57		
GEN-MW12d	11/12/2018	13:24	18.91	41.44		
GEN-MW12d	12/15/2018	14:53	18.79	41.56		
GEN-MW12d	1/25/2019	10:19	18.60	41.75		
GEN-MW12d	2/19/2019	13:18	18.36	41.99		
GEN-MW12d	3/16/2019	11:44	18.08	42.27		
GEN-MW12d	4/16/2019	14:51	17.53	42.82		
GEN-MW12d	5/17/2019	11:58	17.05	43.30		
GEN-MW12d	6/20/2019	10:49	17.20	43.15		
GEN-MW12d	7/17/2019	11:20	16.85	43.50		
GEN-MW12d	8/13/2019	9:36	17.09	43.26		
GEN-MW12d	9/27/2019	15:18	17.28	43.07		
GEN-MW12d	10/30/2019	10:32	17.04	43.31		
GEN-MW12d	11/11/2019	13:20	17.01	43.34		
GEN-MW12d	12/14/2019	8:52	16.90	43.45		
TRO-MW1	1/16/2013	8:32	80.29	100.99		
TRO-MW1	2/18/2013	8:22	80.78	100.50		
TRO-MW1	3/19/2013	13:00	81.25	100.03		
TRO-MW1	4/17/2013	10:39	82.14	99.14		
TRO-MW1	5/31/2013	15:33	83.61	97.67		
TRO-MW1	6/21/2013	19:32	83.75	97.53		
TRO-MW1	7/15/2013	11:00	84.35	96.93		
TRO-MW1	8/20/2013	13:18	84.68	96.60		
TRO-MW1	9/9/2013	8:10	84.85	96.43		
TRO-MW1	10/7/2013	10:53	84.38	96.90		
TRO-MW1	11/11/2013	11:20	85.73	95.55		
TRO-MW1	12/17/2013	10:47	86.14	95.14		
TRO-MW1	1/13/2014	9:46	85.75	95.53		
TRO-MW1	2/20/2014	13:45	86.02	95.26		
TRO-MW1	3/19/2014	18:32	89.20	92.08		
TRO-MW1	4/19/2014	8:14	86.45	94.83		
TRO-MW1	5/20/2014	16:07	Dry			
TRO-MW1	6/20/2014	11:26	89.11	92.17		
TRO-MW1	7/18/2014	20:40	Dry			
TRO-MW1	8/24/2014	17:24	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
TRO-MW1	9/25/2014	10:20	89.77	91.51		
TRO-MW1	10/13/2014	16:53	Dry			
TRO-MW1	11/11/2014	15:00	Dry			
TRO-MW1	12/14/2014	15:30	89.92	91.36		
TRO-MW1	1/14/2015	17:35	89.34	91.94		
TRO-MW1	2/12/2015	17:00	Dry			
TRO-MW1	3/13/2015	13:25	Dry			
TRO-MW1	4/17/2015	6:34	Dry			
TRO-MW1	5/14/2015	16:18	Dry			
TRO-MW1	6/9/2015	15:20	Dry			
TRO-MW1	7/29/2015	15:40	Dry			
TRO-MW1	8/17/2015	9:55	Dry			
TRO-MW1	9/23/2015	18:28	Dry			
TRO-MW1	10/20/2015	10:30	Dry			
TRO-MW1	11/13/2015	15:40	Dry			
TRO-MW1	12/26/2015	10:30	Dry			
TRO-MW1	1/14/2016	15:00	Dry			
TRO-MW1	3/1/2016	13:26	Dry			
TRO-MW1	3/23/2016	9:20	Dry			
TRO-MW1	4/25/2016	9:33	Dry			
TRO-MW1	5/24/2016	15:38	Dry			
TRO-MW1	6/16/2016	13:00	Dry			
TRO-MW1	7/29/2016	6:14	Dry			
TRO-MW1	8/24/2016	10:56	90.70	90.58		
TRO-MW1	9/15/2016	15:08	Dry			
TRO-MW1	10/25/2016	17:10	Dry			
TRO-MW1	11/15/2016	15:48	Dry			
TRO-MW1	12/21/2016	10:10	88.10	93.18		
TRO-MW1	1/26/2017	15:36	Dry			
TRO-MW1	2/1/2017		N/M			
TRO-MW1	3/23/2017	11:13	88.15	93.13		
TRO-MW1	5/1/2017	14:00	89.35	91.93		
TRO-MW1	5/15/2017	18:50	87.74	93.54		
TRO-MW1	6/30/2017	8:50	90.77	90.51		
TRO-MW1	7/14/2017	15:41	86.03	95.25		
TRO-MW1	8/28/2017	12:00	84.08	97.20		
TRO-MW1	9/28/2017	13:59	81.74	99.54		
TRO-MW1	10/18/2017	15:20	81.25	100.03		
TRO-MW1	12/4/2017	12:16	79.78	101.50		
TRO-MW1	12/31/2017	10:10	79.50	101.78		
TRO-MW1	1/16/2018	18:17	79.35	101.93		
TRO-MW1	2/27/2018	11:45	79.56	101.72		
TRO-MW1	3/1/2018		N/M			
TRO-MW1	4/25/2018	19:19	80.49	100.79		
TRO-MW1	5/8/2018	9:45	80.89	100.39		
TRO-MW1	6/12/2018	17:00	81.74	99.54		
TRO-MW1	7/24/2018	15:00	81.90	99.38		
TRO-MW1	8/20/2018	11:30	81.13	100.15		
TRO-MW1	9/7/2018	16:35	81.32	99.96		
TRO-MW1	10/19/2018	14:40	80.75	100.53		
TRO-MW1	11/12/2018	14:00	80.20	101.08		
TRO-MW1	12/18/2018	10:32	80.00	101.28		
TRO-MW1	1/22/2019	11:13	80.29	100.99		
TRO-MW1	2/22/2019	14:00	80.61	100.67		
TRO-MW1	3/18/2019	9:14	80.85	100.43		
TRO-MW1	4/16/2019	12:53	81.25	100.03		
TRO-MW1	5/20/2019	14:25	81.82	99.46		
TRO-MW1	6/27/2019	7:43	80.78	100.50		
TRO-MW1	7/22/2019	14:12	79.88	101.40		
TRO-MW1	8/8/2019	14:10	79.08	102.20		
TRO-MW1	9/25/2019	15:08	75.19	106.09		
TRO-MW1	10/29/2019	11:36	73.78	107.50		
TRO-MW1	11/18/2019	9:03	73.25	108.03		
TRO-MW1	12/10/2019	15:01	73.33	107.95		
TRO-MW2	1/16/2013	8:25	94.91	84.13		
TRO-MW2	2/18/2013	8:26	97.35	81.69		
TRO-MW2	3/19/2013	13:05	98.68	80.36		
TRO-MW2	4/17/2013	10:33	99.21	79.83		
TRO-MW2	5/31/2013	15:26	103.06	75.98		
TRO-MW2	6/21/2013	19:20	105.33	73.71		
TRO-MW2	7/15/2013	10:53	103.08	75.96		
TRO-MW2	8/20/2013	13:24	97.57	81.47		
TRO-MW2	9/9/2013	8:03	96.60	82.44		
TRO-MW2	10/7/2013	10:43	97.35	81.69		
TRO-MW2	11/11/2013	11:29	99.18	79.86		
TRO-MW2	12/17/2013	10:40	100.50	78.54		
TRO-MW2	1/13/2014	9:57	100.77	78.27		
TRO-MW2	2/20/2014	14:00	104.35	74.69		
TRO-MW2	3/19/2014	18:24	105.20	73.84		
TRO-MW2	4/19/2014	8:01	104.50	74.54		
TRO-MW2	5/20/2014	16:15	108.10	70.94		
TRO-MW2	6/20/2014	11:13	108.25	70.79		
TRO-MW2	7/18/2014	20:30	108.29	70.75		
TRO-MW2	8/24/2014	17:11	103.40	75.64		
TRO-MW2	9/25/2014	10:00	100.62	78.42		
TRO-MW2	10/13/2014	17:07	103.15	75.89		
TRO-MW2	11/11/2014	15:10	101.45	77.59		
TRO-MW2	12/14/2014	15:22	101.98	77.06		
TRO-MW2	1/14/2015	17:15	102.15	76.89		
TRO-MW2	2/12/2015	17:15	106.39	72.65		
TRO-MW2	3/13/2015	13:10	105.44	73.60		
TRO-MW2	4/17/2015	6:28	106.19	72.85		
TRO-MW2	5/14/2015	16:21	106.47	72.57		
TRO-MW2	6/9/2015	15:27	106.87	72.17		
TRO-MW2	7/29/2015	15:48	103.69	75.35		
TRO-MW2	8/17/2015	10:02	102.34	76.70		
TRO-MW2	9/23/2015	18:23	102.20	76.84		
TRO-MW2	10/20/2015	10:40	102.00	77.04		
TRO-MW2	11/13/2015	15:44	102.22	76.82		
TRO-MW2	12/26/2015	10:37	103.00	76.04		
TRO-MW2	1/14/2016	15:10	103.90	75.14		
TRO-MW2	3/1/2016	13:39	104.72	74.32		
TRO-MW2	3/23/2016	9:25	105.10	73.94		
TRO-MW2	4/25/2016	9:45	105.55	73.49		
TRO-MW2	5/24/2016	15:50	106.36	72.68		
TRO-MW2	6/16/2016	13:10	106.25	72.79		
TRO-MW2	7/29/2016	6:23	101.87	77.17		
TRO-MW2	8/24/2016	11:06	95.82	83.22		
TRO-MW2	9/15/2016	15:14	96.46	82.58		
TRO-MW2	10/25/2016	17:23	96.88	82.16		
TRO-MW2	11/15/2016	16:05	99.18	79.86		
TRO-MW2	12/21/2016	10:20	99.87	79.17		
TRO-MW2	1/26/2017	15:40	101.36	77.68		
TRO-MW2	2/1/2017		N/M			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
TRO-MW2	3/23/2017	11:18	101.46	77.58		
TRO-MW2	5/1/2017	14:10	99.91	79.13		
TRO-MW2	5/15/2017	19:12	99.53	79.51		
TRO-MW2	6/30/2017	8:55	96.50	82.54		
TRO-MW2	7/14/2017	15:31	94.07	84.97		
TRO-MW2	8/28/2017	12:07	89.53	89.51		
TRO-MW2	9/28/2017	14:18	91.31	87.73		
TRO-MW2	10/18/2017	15:08	91.40	87.64		
TRO-MW2	12/4/2017	12:00	93.90	85.14		
TRO-MW2	12/31/2017	10:14	96.32	82.72		
TRO-MW2	1/16/2018	18:03	96.30	82.74		
TRO-MW2	2/27/2018	12:00	97.50	81.54		
TRO-MW2	3/1/2018		N/M			
TRO-MW2	4/25/2018	19:07	98.59	80.45		
TRO-MW2	5/8/2018	9:54	99.09	79.95		
TRO-MW2	6/12/2018	16:50	99.24	79.80		
TRO-MW2	7/24/2018	14:50	94.61	84.43		
TRO-MW2	8/20/2018	11:00	91.85	87.19		
TRO-MW2	9/7/2018	16:21	90.98	88.06		
TRO-MW2	10/19/2018	14:49	93.21	85.83		
TRO-MW2	11/12/2018	13:50	94.46	84.58		
TRO-MW2	12/18/2018	10:43	85.83	93.21		
TRO-MW2	1/22/2019	11:25	96.91	82.13		
TRO-MW2	2/22/2019	14:14	97.78	81.26		
TRO-MW2	3/18/2019	9:26	98.23	80.81		
TRO-MW2	4/16/2019	13:03	97.95	81.09		
TRO-MW2	5/20/2019	14:11	97.50	81.54		
TRO-MW2	6/27/2019	7:56	96.80	82.24		
TRO-MW2	7/22/2019	14:26	93.06	85.98		
TRO-MW2	8/8/2019	14:30	89.57	89.47		
TRO-MW2	9/25/2019	15:24	85.92	93.12		
TRO-MW2	10/29/2019	11:26	87.60	91.44		
TRO-MW2	11/18/2019	8:50	88.02	91.02		
TRO-MW2	12/10/2019	14:48	89.49	89.55		
TRO-MW3	1/16/2013	8:22	85.28	90.86		
TRO-MW3	2/18/2013	8:29	87.14	89.00		
TRO-MW3	3/19/2013	13:08	88.18	87.96		
TRO-MW3	4/17/2013	10:28	88.83	87.31		
TRO-MW3	5/31/2013	15:31	91.94	84.20		
TRO-MW3	6/21/2013	19:26	93.34	82.80		
TRO-MW3	7/15/2013	10:50	91.09	85.05		
TRO-MW3	8/20/2013	13:21	88.53	87.61		
TRO-MW3	9/9/2013	7:58	88.84	87.30		
TRO-MW3	10/7/2013	10:46	88.58	87.56		
TRO-MW3	11/11/2013	11:25	90.15	85.99		
TRO-MW3	12/17/2013	10:43	91.11	85.03		
TRO-MW3	1/13/2014	9:52	91.38	84.76		
TRO-MW3	2/20/2014	13:57	93.62	82.52		
TRO-MW3	3/19/2014	18:17	94.30	81.84		
TRO-MW3	4/19/2014	8:07	94.65	81.49		
TRO-MW3	5/20/2014	16:10	96.38	79.76		
TRO-MW3	6/20/2014	11:17	96.65	79.49		
TRO-MW3	7/18/2014	20:35	97.71	78.43		
TRO-MW3	8/24/2014	17:16	94.72	81.42		
TRO-MW3	9/25/2014	10:10	91.85	84.29		
TRO-MW3	10/13/2014	17:02	92.95	83.19		
TRO-MW3	11/11/2014	15:06	92.32	83.82		
TRO-MW3	12/14/2014	15:10	93.00	83.14		
TRO-MW3	1/14/2015	17:20	93.42	82.72		
TRO-MW3	2/12/2015	17:09	96.00	80.14		
TRO-MW3	3/13/2015	13:00	96.45	79.69		
TRO-MW3	4/17/2015	6:23	96.22	79.92		
TRO-MW3	5/14/2015	16:24	97.65	78.49		
TRO-MW3	6/9/2015	15:33	97.93	78.21		
TRO-MW3	7/29/2015	15:50	95.42	80.72		
TRO-MW3	8/17/2015	10:10	93.53	82.61		
TRO-MW3	9/23/2015	18:20	90.73	85.41		
TRO-MW3	10/20/2015	10:50	91.89	84.25		
TRO-MW3	11/13/2015	15:48	92.18	83.96		
TRO-MW3	12/26/2015	10:40	93.68	82.46		
TRO-MW3	1/14/2016	15:20	94.60	81.54		
TRO-MW3	3/1/2016	13:32	95.73	80.41		
TRO-MW3	3/23/2016	9:30	96.23	79.91		
TRO-MW3	4/25/2016	9:41	96.46	79.68		
TRO-MW3	5/24/2016	15:44	97.22	78.92		
TRO-MW3	6/16/2016	13:14	96.75	79.39		
TRO-MW3	7/29/2016	6:19	93.29	82.85		
TRO-MW3	8/24/2016	11:03	89.09	87.05		
TRO-MW3	9/15/2016	15:12	88.16	87.98		
TRO-MW3	10/25/2016	17:30	87.78	88.36		
TRO-MW3	11/15/2016	16:00	89.90	86.24		
TRO-MW3	12/21/2016	10:17	90.95	85.19		
TRO-MW3	1/26/2017	15:44	92.52	83.62		
TRO-MW3	2/1/2017		N/M			
TRO-MW3	3/23/2017	11:16	93.02	83.12		
TRO-MW3	5/1/2017	14:05	91.80	84.34		
TRO-MW3	5/15/2017	18:55	91.65	84.49		
TRO-MW3	6/30/2017	8:59	88.25	87.89		
TRO-MW3	7/14/2017	15:35	87.34	88.80		
TRO-MW3	8/28/2017	12:04	82.12	94.02		
TRO-MW3	9/28/2017	14:15	82.34	93.80		
TRO-MW3	10/18/2017	15:11	82.43	93.71		
TRO-MW3	12/4/2017	12:04	83.88	92.26		
TRO-MW3	12/31/2017	10:17	85.21	90.93		
TRO-MW3	1/16/2018	18:09	85.53	90.61		
TRO-MW3	2/27/2018	11:50	86.71	89.43		
TRO-MW3	3/1/2018		N/M			
TRO-MW3	4/25/2018	19:10	87.84	88.30		
TRO-MW3	5/8/2018	9:50	88.41	87.73		
TRO-MW3	6/12/2018	16:53	88.78	87.36		
TRO-MW3	7/24/2018	14:57	86.90	89.24		
TRO-MW3	8/20/2018	11:15	84.50	91.64		
TRO-MW3	9/7/2018	16:25	82.75	93.39		
TRO-MW3	10/19/2018	14:45	83.52	92.62		
TRO-MW3	11/12/2018	13:56	84.42	91.72		
TRO-MW3	12/18/2018	10:38	85.60	90.54		
TRO-MW3	1/22/2019	11:20	86.61	89.53		
TRO-MW3	2/22/2019	14:10	87.40	88.74		
TRO-MW3	3/18/2019	9:22	88.84	87.30		
TRO-MW3	4/16/2019	13:00	88.10	88.04		
TRO-MW3	5/20/2019	14:16	88.32	87.82		
TRO-MW3	6/27/2019	7:51	87.81	88.33		
TRO-MW3	7/22/2019	14:20	84.03	92.11		
TRO-MW3	8/8/2019	14:15	80.42	95.72		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
TRO-MW3	9/25/2019	15:19	75.65	100.49		
TRO-MW3	10/29/2019	11:20	77.00	99.14		
TRO-MW3	11/18/2019	8:59	77.53	98.61		
TRO-MW3	12/10/2019	14:54	78.30	97.84		
PLS-MW1s	1/30/2012	11:50	10.83	81.49	<|0.05|	0
PLS-MW1s	2/8/2012	16:32	10.90	81.42	<|0.05|	0
PLS-MW1s	3/5/2012	14:10	11.45	80.87	<|0.05|	0
PLS-MW1s	4/5/2012	14:07	11.48	80.84	<|0.05|	0
PLS-MW1s	5/10/2012	19:28	11.03	81.29	<|0.05|	0
PLS-MW1s	6/18/2012	13:29	10.95	81.37	<|0.05|	0
PLS-MW1s	7/9/2012	15:16	9.55	82.77	0.10	0.01
PLS-MW1s	8/15/2012	9:03	9.40	82.92	<|0.05|	0
PLS-MW1s	9/20/2012	15:50	10.33	81.99	0.09	0.01
PLS-MW1s	10/19/2012	14:56	11.03	81.29	<|0.05|	0
PLS-MW1s	12/11/2012	9:50	12.57	79.75	<|0.05|	0
PLS-MW1s	12/28/2012	13:32	12.79	79.53	<|0.05|	0
PLS-MW1s	1/16/2013	11:41	12.68	79.64	<|0.05|	0
PLS-MW1s	2/17/2013	9:58	13.02	79.30	<|0.05|	0
PLS-MW1s	3/21/2013	8:36	13.95	78.37	<|0.05|	0
PLS-MW1s	4/16/2013	14:56	13.86	78.46	<|0.05|	0
PLS-MW1s	5/29/2013	15:07	13.89	78.43	<|0.05|	0
PLS-MW1s	6/17/2013	11:43	13.73	78.59	<|0.05|	0
PLS-MW1s	7/16/2013	11:59	12.90	79.42	<|0.05|	0
PLS-MW1s	8/26/2013	8:43	11.10	81.22	<|0.05|	0
PLS-MW1s	9/9/2013	15:43	11.13	81.19	<|0.05|	0
PLS-MW1s	10/7/2013	17:07	10.95	81.37	<|0.05|	0
PLS-MW1s	11/15/2013	14:08	12.43	79.89	<|0.05|	0
PLS-MW1s	12/17/2013	16:09	13.52	78.80	<|0.05|	0
PLS-MW1s	1/13/2014	15:37	14.44	77.88	<|0.05|	0
PLS-MW1s	2/24/2014	9:24	15.86	76.46	<|0.05|	0
PLS-MW1s	3/16/2014	16:02	15.95	76.37	<|0.05|	0
PLS-MW1s	4/19/2014	15:06	16.41	75.91	<|0.05|	0
PLS-MW1s	5/22/2014	14:23	Dry			
PLS-MW1s	6/19/2014	16:03	16.69	75.63	<|0.05|	0
PLS-MW1s	7/17/2014	14:22	16.34	75.98	<|0.05|	0
PLS-MW1s	8/25/2014	18:06	15.06	77.26	<|0.05|	0
PLS-MW1s	9/22/2014	15:31	14.82	77.50	<|0.05|	0
PLS-MW1s	10/14/2014	16:27	14.91	77.41	<|0.05|	0
PLS-MW1s	11/10/2014	14:16	15.33	76.99	<|0.05|	0
PLS-MW1s	12/15/2014	11:59	15.52	76.80	<|0.05|	0
PLS-MW1s	1/12/2015	18:45	14.80	77.52	<|0.05|	0
PLS-MW1s	2/6/2015	8:09	15.15	77.17	<|0.05|	0
PLS-MW1s	3/13/2015	15:42	16.39	75.93	<|0.05|	0
PLS-MW1s	4/17/2015	14:46	Dry			
PLS-MW1s	5/14/2015	13:15	Dry			
PLS-MW1s	6/5/2015	10:30	Dry			
PLS-MW1s	7/22/2015	10:53	16.83	75.49	<|0.05|	0
PLS-MW1s	8/18/2015	14:54	15.29	77.03	0.49	0.04
PLS-MW1s	9/14/2015	13:15	16.15	76.17	<|0.05|	0
PLS-MW1s	10/16/2015	13:09	16.35	75.97	<|0.05|	0
PLS-MW1s	11/17/2015	8:42	16.65	75.67	<|0.05|	0
PLS-MW1s	12/23/2015	15:01	17.06	75.26	<|0.05|	0
PLS-MW1s	1/15/2016	15:40	Dry			
PLS-MW1s	2/22/2016	12:24	Dry			
PLS-MW1s	3/18/2016	15:58	Dry			
PLS-MW1s	4/18/2016	17:03	Dry			
PLS-MW1s	5/19/2016	15:30	Dry			
PLS-MW1s	6/16/2016	13:05	16.82	75.50	<|0.05|	0
PLS-MW1s	7/21/2016	16:30	16.42	75.90	<|0.05|	0
PLS-MW1s	8/18/2016	12:50	15.66	76.66	<|0.05|	0
PLS-MW1s	9/15/2016	14:35	15.53	76.79	<|0.05|	0
PLS-MW1s	10/14/2016	16:41	16.19	76.13	<|0.05|	0
PLS-MW1s	11/21/2016	10:21	14.84	77.48	0.50	0.04
PLS-MW1s	12/12/2016	15:02	15.19	77.13	<|0.05|	0
PLS-MW1s	1/25/2017	15:06	14.76	77.56	<|0.05|	0
PLS-MW1s	2/1/2017		N/M			
PLS-MW1s	3/15/2017	14:27	13.32	79.00	<|0.05|	0
PLS-MW1s	4/20/2017	14:19	13.00	79.32	<|0.05|	0
PLS-MW1s	5/18/2017	12:52	12.24	80.08	<|0.05|	0
PLS-MW1s	6/24/2017	16:11	10.94	81.38	<|0.05|	0
PLS-MW1s	7/14/2017	15:57	9.86	82.46	<|0.05|	0
PLS-MW1s	8/28/2017	16:08	7.90	84.42	<|0.05|	0
PLS-MW1s	9/22/2017	15:25	8.94	83.38	<|0.05|	0
PLS-MW1s	10/19/2017	14:57	9.31	83.01	<|0.05|	0
PLS-MW1s	11/27/2017	14:40	9.89	82.43	<|0.05|	0
PLS-MW1s	12/21/2017	15:15	10.67	81.65	<|0.05|	0
PLS-MW1s	1/23/2018	15:06	11.45	80.87	<|0.05|	0
PLS-MW1s	2/22/2018	12:53	12.06	80.26	<|0.05|	0
PLS-MW1s	3/1/2018		N/M			
PLS-MW1s	4/24/2018	14:36	12.69	79.63	<|0.05|	0
PLS-MW1s	5/10/2018	12:20	12.23	80.09	<|0.05|	0
PLS-MW1s	6/13/2018	15:27	11.48	80.84	<|0.05|	0
PLS-MW1s	7/16/2018	13:08	10.64	81.68	<|0.05|	0
PLS-MW1s	8/24/2018	14:24	9.35	82.97	<|0.05|	0
PLS-MW1s	9/16/2018	17:13	9.81	82.51	<|0.05|	0
PLS-MW1s	10/25/2018	14:29	10.49	81.83	<|0.05|	0
PLS-MW1s	11/13/2018	10:32	10.85	81.47	<|0.05|	0
PLS-MW1s	12/15/2018	12:35	11.26	81.06	<|0.05|	0
PLS-MW1s	1/25/2019	15:25	10.97	81.35	<|0.05|	0
PLS-MW1s	2/21/2019	14:14	10.29	82.03	<|0.05|	0
PLS-MW1s	3/16/2019	15:50	10.50	81.82	<|0.05|	0
PLS-MW1s	4/16/2019	11:12	11.08	81.24	<|0.05|	0
PLS-MW1s	5/21/2019	12:47	9.79	82.53	<|0.05|	0
PLS-MW1s	6/20/2019	15:07	8.70	83.62	<|0.05|	0
PLS-MW1s	7/18/2019	11:15	7.96	84.36	<|0.05|	0
PLS-MW1s	8/23/2019	8:49	7.75	84.57	0.09	0.01
PLS-MW1s	9/27/2019	11:32	9.46	82.86	<|0.05|	0
PLS-MW1s	10/28/2019	12:31	8.85	83.47	<|0.05|	0
PLS-MW1s	11/12/2019	10:58	9.61	82.71	<|0.05|	0
PLS-MW1s	12/14/2019	12:19	9.55	82.77	<|0.05|	0
PLS-MW1d	1/30/2012	11:52	10.55	81.53		
PLS-MW1d	2/8/2012	16:33	10.66	81.42		
PLS-MW1d	3/5/2012	14:11	11.19	80.89		
PLS-MW1d	4/5/2012	14:09	11.20	80.88		
PLS-MW1d	5/10/2012	19:30	10.80	81.28		
PLS-MW1d	6/18/2012	13:28	10.68	81.40		
PLS-MW1d	7/9/2012	15:15	9.41	82.67		
PLS-MW1d	8/15/2012	9:03	9.15	82.93		
PLS-MW1d	9/20/2012	15:50	10.18	81.90		
PLS-MW1d	10/19/2012	14:56	10.79	81.29		
PLS-MW1d	12/11/2012	9:50	12.34	79.74		
PLS-MW1d	12/28/2012	13:33	12.56	79.52		
PLS-MW1d	1/16/2013	11:42	12.46	79.62		
PLS-MW1d	2/17/2013	9:59	12.78	79.30		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
PLS-MW1d	3/21/2013	8:37	13.72	78.36		
PLS-MW1d	4/16/2013	14:56	13.64	78.44		
PLS-MW1d	5/29/2013	15:07	13.67	78.41		
PLS-MW1d	6/17/2013	11:45	13.49	78.59		
PLS-MW1d	7/16/2013	11:59	12.64	79.44		
PLS-MW1d	8/26/2013	8:43	10.84	81.24		
PLS-MW1d	9/9/2013	15:43	10.89	81.19		
PLS-MW1d	10/7/2013	17:07	10.71	81.37		
PLS-MW1d	11/15/2013	14:08	12.21	79.87		
PLS-MW1d	12/17/2013	16:09	13.30	78.78		
PLS-MW1d	1/13/2014	15:37	14.24	77.84		
PLS-MW1d	2/24/2014	9:24	15.62	76.46		
PLS-MW1d	3/16/2014	16:02	15.70	76.38		
PLS-MW1d	4/19/2014	15:06	16.20	75.88		
PLS-MW1d	5/22/2014	14:23	16.18	75.90		
PLS-MW1d	6/19/2014	16:03	16.42	75.66		
PLS-MW1d	7/17/2014	14:22	16.08	76.00		
PLS-MW1d	8/25/2014	18:06	14.80	77.28		
PLS-MW1d	9/22/2014	15:31	14.55	77.53		
PLS-MW1d	10/14/2014	16:27	14.66	77.42		
PLS-MW1d	11/10/2014	14:16	15.12	76.96		
PLS-MW1d	12/15/2014	11:59	15.24	76.84		
PLS-MW1d	1/12/2015	18:45	14.58	77.50		
PLS-MW1d	2/6/2015	8:09	14.95	77.13		
PLS-MW1d	3/13/2015	15:42	16.17	75.91		
PLS-MW1d	4/17/2015	14:46	17.32	74.76		
PLS-MW1d	5/14/2015	13:15	17.23	74.85		
PLS-MW1d	6/5/2015	10:30	17.17	74.91		
PLS-MW1d	7/22/2015	10:53	16.61	75.47		
PLS-MW1d	8/18/2015	14:55	15.54	76.54		
PLS-MW1d	9/14/2015	13:16	15.94	76.14		
PLS-MW1d	10/16/2015	13:10	16.14	75.94		
PLS-MW1d	11/17/2015	8:43	16.40	75.68		
PLS-MW1d	12/23/2015	15:02	16.84	75.24		
PLS-MW1d	1/15/2016	15:41	17.09	74.99		
PLS-MW1d	2/22/2016	12:25	16.89	75.19		
PLS-MW1d	3/18/2016	15:58	17.20	74.88		
PLS-MW1d	4/18/2016	17:03	17.50	74.58		
PLS-MW1d	5/19/2016	15:30	17.10	74.98		
PLS-MW1d	6/16/2016	13:06	16.58	75.50		
PLS-MW1d	7/21/2016	16:30	16.19	75.89		
PLS-MW1d	8/18/2016	12:51	15.46	76.62		
PLS-MW1d	9/15/2016	14:36	15.31	76.77		
PLS-MW1d	10/14/2016	16:41	15.95	76.13		
PLS-MW1d	11/21/2016	10:21	15.10	76.98		
PLS-MW1d	12/12/2016	15:03	14.96	77.12		
PLS-MW1d	1/25/2017	15:07	14.55	77.53		
PLS-MW1d	2/1/2017		N/M			
PLS-MW1d	3/15/2017	14:26	13.08	79.00		
PLS-MW1d	4/20/2017	14:20	12.79	79.29		
PLS-MW1d	5/18/2017	12:53	11.98	80.10		
PLS-MW1d	6/24/2017	16:12	10.70	81.38		
PLS-MW1d	7/14/2017	15:58	9.64	82.44		
PLS-MW1d	8/28/2017	16:08	7.65	84.43		
PLS-MW1d	9/22/2017	15:26	8.67	83.41		
PLS-MW1d	10/19/2017	14:58	9.09	82.99		
PLS-MW1d	11/27/2017	14:40	9.68	82.40		
PLS-MW1d	12/21/2017	15:16	10.45	81.63		
PLS-MW1d	1/23/2018	15:07	11.23	80.85		
PLS-MW1d	2/22/2018	12:54	11.82	80.26		
PLS-MW1d	3/1/2018		N/M			
PLS-MW1d	4/24/2018	14:36	12.46	79.62		
PLS-MW1d	5/10/2018	12:21	11.97	80.11		
PLS-MW1d	6/13/2018	15:28	11.25	80.83		
PLS-MW1d	7/16/2018	13:07	10.37	81.71		
PLS-MW1d	8/24/2018	14:24	9.12	82.96		
PLS-MW1d	9/16/2018	17:13	9.53	82.55		
PLS-MW1d	10/25/2018	14:30	10.24	81.84		
PLS-MW1d	11/13/2018	10:31	10.60	81.48		
PLS-MW1d	12/15/2018	12:36	11.00	81.08		
PLS-MW1d	1/25/2019	15:26	10.73	81.35		
PLS-MW1d	2/21/2019	14:15	10.03	82.05		
PLS-MW1d	3/16/2019	15:50	10.25	81.83		
PLS-MW1d	4/16/2019	11:12	10.85	81.23		
PLS-MW1d	5/21/2019	12:47	9.53	82.55		
PLS-MW1d	6/20/2019	15:08	8.45	83.63		
PLS-MW1d	7/18/2019	11:15	7.68	84.40		
PLS-MW1d	8/23/2019	8:50	7.60	84.48		
PLS-MW1d	9/27/2019	11:32	9.22	82.86		
PLS-MW1d	10/28/2019	12:32	8.58	83.50		
PLS-MW1d	11/12/2019	10:59	9.35	82.73		
PLS-MW1d	12/14/2019	12:20	9.32	82.76		
PLS-MW2s	1/30/2012	11:57	9.55	81.27	<|0.05|	0
PLS-MW2s	2/8/2012	17:00	9.65	81.17	<|0.05|	0
PLS-MW2s	3/5/2012	14:13	10.23	80.59	<|0.05|	0
PLS-MW2s	4/5/2012	14:12	10.20	80.62	<|0.05|	0
PLS-MW2s	5/10/2012	17:45	9.67	81.15	<|0.05|	0
PLS-MW2s	6/18/2012	13:32	9.51	81.31	0.06	0.00
PLS-MW2s	7/9/2012	15:12	8.16	82.66	<|0.05|	0
PLS-MW2s	8/15/2012	9:00	8.20	82.62	<|0.05|	0
PLS-MW2s	9/20/2012	15:47	9.09	81.73	0.10	0.01
PLS-MW2s	10/19/2012	15:00	9.70	81.12	<|0.05|	0
PLS-MW2s	12/11/2012	9:48	11.24	79.58	0.06	0.00
PLS-MW2s	12/28/2012	13:35	11.49	79.33	<|0.05|	0
PLS-MW2s	1/16/2013	11:44	11.40	79.42	<|0.05|	0
PLS-MW2s	2/17/2013	10:04	11.74	79.08	<|0.05|	0
PLS-MW2s	3/21/2013	8:32	12.73	78.09	<|0.05|	0
PLS-MW2s	4/16/2013	15:00	12.61	78.21	<|0.05|	0
PLS-MW2s	5/29/2013	14:59	12.64	78.18	0.07	0.01
PLS-MW2s	6/17/2013	12:05	12.38	78.44	<|0.05|	0
PLS-MW2s	7/16/2013	12:03	11.51	79.31	<|0.05|	0
PLS-MW2s	8/26/2013	8:47	9.79	81.03	<|0.05|	0
PLS-MW2s	9/9/2013	15:46	9.86	80.96	<|0.05|	0
PLS-MW2s	10/7/2013	17:10	9.52	81.30	<|0.05|	0
PLS-MW2s	11/15/2013	14:06	11.19	79.63	<|0.05|	0
PLS-MW2s	12/17/2013	16:12	12.30	78.52	-0.08	-0.01
PLS-MW2s	1/13/2014	15:40	13.34	77.48	<|0.05|	0
PLS-MW2s	2/24/2014	9:22	14.67	76.15	<|0.05|	0
PLS-MW2s	3/16/2014	16:00	14.77	76.05	<|0.05|	0
PLS-MW2s	4/19/2014	15:10	15.15	75.67	<|0.05|	0
PLS-MW2s	5/22/2014	14:26	Dry			
PLS-MW2s	6/19/2014	16:00	15.53	75.29	<|0.05|	0
PLS-MW2s	7/17/2014	14:25	15.10	75.72	<|0.05|	0
PLS-MW2s	8/25/2014	18:10	13.89	76.93	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
PLS-MW2s	9/22/2014	15:34	13.56	77.26	<|0.05|	0
PLS-MW2s	10/14/2014	16:30	13.68	77.14	<|0.05|	0
PLS-MW2s	11/10/2014	14:19	14.12	76.70	<|0.05|	0
PLS-MW2s	12/15/2014	11:54	14.29	76.53	<|0.05|	0
PLS-MW2s	1/12/2015	18:52	13.55	77.27	<|0.05|	0
PLS-MW2s	2/6/2015	8:13	13.93	76.89	<|0.05|	0
PLS-MW2s	3/13/2015	15:38	15.30	75.52	<|0.05|	0
PLS-MW2s	4/17/2015	14:50	16.42	74.40	<|0.05|	0
PLS-MW2s	5/14/2015	13:17	Dry			
PLS-MW2s	6/5/2015	10:28	Dry			
PLS-MW2s	7/22/2015	10:57	15.46	75.36	<|0.05|	0
PLS-MW2s	8/18/2015	14:52	14.45	76.37	<|0.05|	0
PLS-MW2s	9/14/2015	13:12	15.00	75.82	<|0.05|	0
PLS-MW2s	10/16/2015	13:12	15.01	75.81	0.11	0.01
PLS-MW2s	11/17/2015	8:38	15.37	75.45	<|0.05|	0
PLS-MW2s	12/23/2015	15:03	15.80	75.02	<|0.05|	0
PLS-MW2s	1/15/2016	15:43	16.05	74.77	<|0.05|	0
PLS-MW2s	2/22/2016	12:20	15.87	74.95	<|0.05|	0
PLS-MW2s	3/18/2016	16:01	Dry			
PLS-MW2s	4/18/2016	17:07	Dry			
PLS-MW2s	5/19/2016	15:33	Dry			
PLS-MW2s	6/16/2016	13:08	15.62	75.20	-0.47	-0.04
PLS-MW2s	7/21/2016	16:27	15.29	75.53	<|0.05|	0
PLS-MW2s	8/18/2016	12:52	14.49	76.33	<|0.05|	0
PLS-MW2s	9/15/2016	14:33	14.41	76.41	<|0.05|	0
PLS-MW2s	10/14/2016	16:44	15.13	75.69	<|0.05|	0
PLS-MW2s	11/21/2016	10:25	13.81	77.01	<|0.05|	0
PLS-MW2s	12/12/2016	15:05	13.93	76.89	<|0.05|	0
PLS-MW2s	1/25/2017	15:08	13.46	77.36	<|0.05|	0
PLS-MW2s	2/1/2017		N/M			
PLS-MW2s	3/15/2017	14:29	12.06	78.76	<|0.05|	0
PLS-MW2s	4/20/2017	14:17	11.67	79.15	<|0.05|	0
PLS-MW2s	5/18/2017	12:54	10.78	80.04	<|0.05|	0
PLS-MW2s	6/24/2017	16:13	9.61	81.21	<|0.05|	0
PLS-MW2s	7/14/2017	15:59	8.54	82.28	<|0.05|	0
PLS-MW2s	8/28/2017	16:09	6.74	84.08	<|0.05|	0
PLS-MW2s	9/22/2017	15:28	7.72	83.10	<|0.05|	0
PLS-MW2s	10/19/2017	14:59	8.01	82.81	<|0.05|	0
PLS-MW2s	11/27/2017	14:48	8.65	82.17	<|0.05|	0
PLS-MW2s	12/21/2017	15:18	9.48	81.34	<|0.05|	0
PLS-MW2s	1/23/2018	15:08	10.26	80.56	<|0.05|	0
PLS-MW2s	2/22/2018	12:56	10.90	79.92	<|0.05|	0
PLS-MW2s	3/1/2018		N/M			
PLS-MW2s	4/24/2018	14:41	11.50	79.32	<|0.05|	0
PLS-MW2s	5/10/2018	12:23	10.94	79.88	<|0.05|	0
PLS-MW2s	6/13/2018	15:25	10.24	80.58	<|0.05|	0
PLS-MW2s	7/16/2018	13:04	9.44	81.38	-0.05	-0.00
PLS-MW2s	8/24/2018	14:20	8.12	82.70	<|0.05|	0
PLS-MW2s	9/16/2018	17:11	8.70	82.12	<|0.05|	0
PLS-MW2s	10/25/2018	14:27	9.29	81.53	<|0.05|	0
PLS-MW2s	11/13/2018	10:34	9.64	81.18	<|0.05|	0
PLS-MW2s	12/15/2018	12:33	10.10	80.72	<|0.05|	0
PLS-MW2s	1/25/2019	15:22	9.81	81.01	<|0.05|	0
PLS-MW2s	2/21/2019	14:16	9.06	81.76	0.05	0.00
PLS-MW2s	3/16/2019	15:47	9.32	81.50	<|0.05|	0
PLS-MW2s	4/16/2019	11:16	9.92	80.90	<|0.05|	0
PLS-MW2s	5/21/2019	12:51	8.70	82.12	<|0.05|	0
PLS-MW2s	6/20/2019	15:04	7.46	83.36	<|0.05|	0
PLS-MW2s	7/18/2019	11:18	6.80	84.02	<|0.05|	0
PLS-MW2s	8/23/2019	8:55	6.75	84.07	<|0.05|	0
PLS-MW2s	9/27/2019	11:29	8.28	82.54	<|0.05|	0
PLS-MW2s	10/28/2019	12:15	7.51	83.31	<|0.05|	0
PLS-MW2s	11/12/2019	10:14	8.30	82.52	<|0.05|	0
PLS-MW2s	12/14/2019	12:17	8.33	82.49	<|0.05|	0
PLS-MW2d	1/30/2012	12:00	9.41	81.22		
PLS-MW2d	2/8/2012	17:01	9.49	81.14		
PLS-MW2d	3/5/2012	14:14	10.09	80.54		
PLS-MW2d	4/5/2012	14:14	10.05	80.58		
PLS-MW2d	5/10/2012	17:46	9.49	81.14		
PLS-MW2d	6/18/2012	13:31	9.38	81.25		
PLS-MW2d	7/9/2012	15:12	8.00	82.63		
PLS-MW2d	8/15/2012	9:00	8.00	82.63		
PLS-MW2d	9/20/2012	15:47	9.00	81.63		
PLS-MW2d	10/19/2012	15:00	9.52	81.11		
PLS-MW2d	12/11/2012	9:48	11.11	79.52		
PLS-MW2d	12/28/2012	13:36	11.32	79.31		
PLS-MW2d	1/16/2013	11:45	11.21	79.42		
PLS-MW2d	2/17/2013	10:05	11.55	79.08		
PLS-MW2d	3/21/2013	8:32	12.54	78.09		
PLS-MW2d	4/16/2013	15:00	12.44	78.19		
PLS-MW2d	5/29/2013	14:59	12.52	78.11		
PLS-MW2d	6/17/2013	12:07	12.17	78.46		
PLS-MW2d	7/16/2013	12:03	11.33	79.30		
PLS-MW2d	8/26/2013	8:47	9.59	81.04		
PLS-MW2d	9/9/2013	15:46	9.70	80.93		
PLS-MW2d	10/7/2013	17:10	9.33	81.30		
PLS-MW2d	11/15/2013	14:06	11.05	79.58		
PLS-MW2d	12/17/2013	16:12	12.03	78.60		
PLS-MW2d	1/13/2014	15:40	13.19	77.44		
PLS-MW2d	2/24/2014	9:22	14.50	76.13		
PLS-MW2d	3/16/2014	16:00	14.60	76.03		
PLS-MW2d	4/19/2014	15:10	15.00	75.63		
PLS-MW2d	5/22/2014	14:26	14.99	75.64		
PLS-MW2d	6/19/2014	16:00	15.32	75.31		
PLS-MW2d	7/17/2014	14:25	14.90	75.73		
PLS-MW2d	8/25/2014	18:10	13.70	76.93		
PLS-MW2d	9/22/2014	15:34	13.37	77.26		
PLS-MW2d	10/14/2014	16:30	13.50	77.13		
PLS-MW2d	11/10/2014	14:19	13.94	76.69		
PLS-MW2d	12/15/2014	11:54	14.11	76.52		
PLS-MW2d	1/12/2015	18:52	13.36	77.27		
PLS-MW2d	2/6/2015	8:13	13.76	76.87		
PLS-MW2d	3/13/2015	15:38	15.12	75.51		
PLS-MW2d	4/17/2015	14:50	16.23	74.40		
PLS-MW2d	5/14/2015	13:17	15.98	74.65		
PLS-MW2d	6/5/2015	10:28	15.95	74.68		
PLS-MW2d	7/22/2015	10:57	15.26	75.37		
PLS-MW2d	8/18/2015	14:52	14.28	76.35		
PLS-MW2d	9/14/2015	13:13	14.82	75.81		
PLS-MW2d	10/16/2015	13:13	14.93	75.70		
PLS-MW2d	11/17/2015	8:39	15.18	75.45		
PLS-MW2d	12/23/2015	15:04	15.61	75.02		
PLS-MW2d	1/15/2016	15:44	15.86	74.77		
PLS-MW2d	2/22/2016	12:21	15.70	74.93		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
PLS-MW2d	3/18/2016	16:01	16.00	74.63		
PLS-MW2d	4/18/2016	17:07	16.34	74.29		
PLS-MW2d	5/19/2016	15:33	15.92	74.71		
PLS-MW2d	6/16/2016	13:09	14.96	75.67		
PLS-MW2d	7/21/2016	16:27	15.10	75.53		
PLS-MW2d	8/18/2016	12:53	14.29	76.34		
PLS-MW2d	9/15/2016	14:34	14.22	76.41		
PLS-MW2d	10/14/2016	16:44	14.93	75.70		
PLS-MW2d	11/21/2016	10:25	13.63	77.00		
PLS-MW2d	12/12/2016	15:06	13.73	76.90		
PLS-MW2d	1/25/2017	15:09	13.28	77.35		
PLS-MW2d	2/1/2017		N/M			
PLS-MW2d	3/15/2017	14:30	11.89	78.74		
PLS-MW2d	4/20/2017	14:18	11.50	79.13		
PLS-MW2d	5/18/2017	12:55	10.58	80.05		
PLS-MW2d	6/24/2017	16:14	9.41	81.22		
PLS-MW2d	7/14/2017	16:00	8.35	82.28		
PLS-MW2d	8/28/2017	16:09	6.54	84.09		
PLS-MW2d	9/22/2017	15:29	7.51	83.12		
PLS-MW2d	10/19/2017	15:00	7.82	82.81		
PLS-MW2d	11/27/2017	14:48	8.46	82.17		
PLS-MW2d	12/21/2017	15:19	9.28	81.35		
PLS-MW2d	1/23/2018	15:09	10.08	80.55		
PLS-MW2d	2/22/2018	12:57	10.72	79.91		
PLS-MW2d	3/1/2018		N/M			
PLS-MW2d	4/24/2018	14:41	11.30	79.33		
PLS-MW2d	5/10/2018	12:24	10.75	79.88		
PLS-MW2d	6/13/2018	15:26	10.01	80.62		
PLS-MW2d	7/16/2018	13:05	9.20	81.43		
PLS-MW2d	8/24/2018	14:20	7.95	82.68		
PLS-MW2d	9/16/2018	17:11	8.49	82.14		
PLS-MW2d	10/25/2018	14:28	9.08	81.55		
PLS-MW2d	11/13/2018	10:35	9.44	81.19		
PLS-MW2d	12/15/2018	12:34	9.87	80.76		
PLS-MW2d	1/25/2019	15:23	9.60	81.03		
PLS-MW2d	2/21/2019	14:17	8.92	81.71		
PLS-MW2d	3/16/2019	15:48	9.10	81.53		
PLS-MW2d	4/16/2019	11:16	9.73	80.90		
PLS-MW2d	5/21/2019	12:51	8.48	82.15		
PLS-MW2d	6/20/2019	15:05	7.26	83.37		
PLS-MW2d	7/18/2019	11:18	6.62	84.01		
PLS-MW2d	8/23/2019	8:56	6.52	84.11		
PLS-MW2d	9/27/2019	11:29	8.12	82.51		
PLS-MW2d	10/28/2019	12:16	7.29	83.34		
PLS-MW2d	11/12/2019	10:15	8.12	82.51		
PLS-MW2d	12/14/2019	12:18	8.13	82.50		
PLS-MW3s	1/30/2012	11:30	N/M			
PLS-MW3s	2/8/2012	15:13	8.39	82.84	<|0.05|	0
PLS-MW3s	3/5/2012	13:52	9.33	81.90	<|0.05|	0
PLS-MW3s	4/5/2012	14:30	9.40	81.83	<|0.05|	0
PLS-MW3s	5/10/2012	16:54	9.38	81.85	<|0.05|	0
PLS-MW3s	6/18/2012	13:21	9.06	82.17	<|0.05|	0
PLS-MW3s	7/9/2012	14:58	8.44	82.79	-0.20	-0.02
PLS-MW3s	8/15/2012	8:55	7.72	83.51	<|0.05|	0
PLS-MW3s	9/20/2012	15:23	8.14	83.09	0.10	0.01
PLS-MW3s	10/19/2012	14:45	9.45	81.78	<|0.05|	0
PLS-MW3s	12/11/2012	10:04	10.79	80.44	<|0.05|	0
PLS-MW3s	12/28/2012	13:24	10.70	80.53	<|0.05|	0
PLS-MW3s	1/16/2013	11:25	10.77	80.46	<|0.05|	0
PLS-MW3s	2/17/2013	9:53	11.02	80.21	<|0.05|	0
PLS-MW3s	3/21/2013	8:26	11.33	79.90	0.06	0.00
PLS-MW3s	4/16/2013	15:12	11.91	79.32	<|0.05|	0
PLS-MW3s	5/29/2013	14:43	11.82	79.41	<|0.05|	0
PLS-MW3s	6/17/2013	11:34	12.07	79.16	<|0.05|	0
PLS-MW3s	7/16/2013	12:20	10.94	80.29	<|0.05|	0
PLS-MW3s	8/26/2013	8:21	9.15	82.08	<|0.05|	0
PLS-MW3s	9/9/2013	15:36	9.22	82.01	<|0.05|	0
PLS-MW3s	10/7/2013	17:21	9.97	81.26	0.20	0.02
PLS-MW3s	11/15/2013	13:52	10.85	80.38	<|0.05|	0
PLS-MW3s	12/17/2013	15:52	11.70	79.53	<|0.05|	0
PLS-MW3s	1/13/2014	15:22	12.04	79.19	<|0.05|	0
PLS-MW3s	2/24/2014	9:13	13.55	77.68	<|0.05|	0
PLS-MW3s	3/16/2014	15:51	13.66	77.57	-0.11	-0.01
PLS-MW3s	4/19/2014	14:59	14.25	76.98	<|0.05|	0
PLS-MW3s	5/22/2014	14:17	14.36	76.87	<|0.05|	0
PLS-MW3s	6/19/2014	15:51	14.52	76.71	<|0.05|	0
PLS-MW3s	7/17/2014	14:14	13.72	77.51	<|0.05|	0
PLS-MW3s	8/25/2014	17:58	12.50	78.73	<|0.05|	0
PLS-MW3s	9/22/2014	15:23	13.07	78.16	<|0.05|	0
PLS-MW3s	10/14/2014	16:19	12.79	78.44	<|0.05|	0
PLS-MW3s	11/10/2014	14:08	13.40	77.83	<|0.05|	0
PLS-MW3s	12/15/2014	11:35	13.60	77.63	<|0.05|	0
PLS-MW3s	1/12/2015	18:38	13.02	78.21	<|0.05|	0
PLS-MW3s	2/6/2015	7:56	13.33	77.90	<|0.05|	0
PLS-MW3s	3/13/2015	15:20	14.20	77.03	0.13	0.01
PLS-MW3s	4/17/2015	14:36	15.19	76.04	<|0.05|	0
PLS-MW3s	5/14/2015	13:09	15.49	75.74	<|0.05|	0
PLS-MW3s	6/5/2015	10:10	Dry			
PLS-MW3s	7/22/2015	10:30	14.82	76.41	<|0.05|	0
PLS-MW3s	8/18/2015	14:48	14.29	76.94	<|0.05|	0
PLS-MW3s	9/14/2015	13:44	14.34	76.89	<|0.05|	0
PLS-MW3s	10/16/2015	13:24	13.95	77.28	<|0.05|	0
PLS-MW3s	11/17/2015	8:30	14.16	77.07	0.45	0.03
PLS-MW3s	12/23/2015	15:22	15.16	76.07	0.19	0.01
PLS-MW3s	1/15/2016	15:53	Dry			
PLS-MW3s	2/22/2016	12:05	Dry			
PLS-MW3s	3/18/2016	15:48	Dry			
PLS-MW3s	4/18/2016	16:54	Dry			
PLS-MW3s	5/19/2016	15:24	Dry			
PLS-MW3s	6/16/2016	12:49	Dry			
PLS-MW3s	7/21/2016	16:17	13.99	77.24	<|0.05|	0
PLS-MW3s	8/18/2016	12:38	13.02	78.21	-0.06	-0.00
PLS-MW3s	9/15/2016	14:44	13.01	78.22	<|0.05|	0
PLS-MW3s	10/14/2016	16:32	13.81	77.42	0.07	0.01
PLS-MW3s	11/21/2016	10:11	13.02	78.21	<|0.05|	0
PLS-MW3s	12/12/2016	14:44	13.21	78.02	<|0.05|	0
PLS-MW3s	1/25/2017	14:48	12.74	78.49	<|0.05|	0
PLS-MW3s	2/1/2017		N/M			
PLS-MW3s	3/15/2017	14:10	11.41	79.82	<|0.05|	0
PLS-MW3s	4/20/2017	14:11	10.91	80.32	<|0.05|	0
PLS-MW3s	5/18/2017	12:41	10.02	81.21	<|0.05|	0
PLS-MW3s	6/24/2017	15:59	8.68	82.55	<|0.05|	0
PLS-MW3s	7/14/2017	15:42	7.51	83.72	<|0.05|	0
PLS-MW3s	8/28/2017	16:18	6.00	85.23	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
PLS-MW3s	9/22/2017	15:37	6.84	84.39	<|0.05|	0
PLS-MW3s	10/19/2017	14:43	6.34	84.89	<|0.05|	0
PLS-MW3s	11/27/2017	14:26	7.74	83.49	<|0.05|	0
PLS-MW3s	12/21/2017	15:00	8.30	82.93	0.30	0.02
PLS-MW3s	1/23/2018	14:51	9.16	82.07	<|0.05|	0
PLS-MW3s	2/22/2018	12:44	9.66	81.57	<|0.05|	0
PLS-MW3s	3/1/2018		N/M			
PLS-MW3s	4/24/2018	14:26	10.02	81.21	<|0.05|	0
PLS-MW3s	5/10/2018	12:09	9.65	81.58	<|0.05|	0
PLS-MW3s	6/13/2018	15:13	8.69	82.54	<|0.05|	0
PLS-MW3s	7/16/2018	12:56	8.07	83.16	<|0.05|	0
PLS-MW3s	8/24/2018	14:11	6.48	84.75	<|0.05|	0
PLS-MW3s	9/16/2018	16:57	6.92	84.31	0.07	0.01
PLS-MW3s	10/25/2018	14:12	7.82	83.41	<|0.05|	0
PLS-MW3s	11/13/2018	10:27	8.28	82.95	<|0.05|	0
PLS-MW3s	12/15/2018	12:23	8.82	82.41	<|0.05|	0
PLS-MW3s	1/25/2019	15:10	8.45	82.78	<|0.05|	0
PLS-MW3s	2/21/2019	14:00	7.72	83.51	<|0.05|	0
PLS-MW3s	3/16/2019	15:37	7.95	83.28	0.12	0.01
PLS-MW3s	4/16/2019	11:24	8.48	82.75	<|0.05|	0
PLS-MW3s	5/21/2019	12:40	7.88	83.35	-0.29	-0.02
PLS-MW3s	6/20/2019	14:52	7.06	84.17	<|0.05|	0
PLS-MW3s	7/18/2019	11:25	6.45	84.78	<|0.05|	0
PLS-MW3s	8/23/2019	8:29	5.43	85.80	<|0.05|	0
PLS-MW3s	9/27/2019	11:20	7.58	83.65	<|0.05|	0
PLS-MW3s	10/28/2019	12:40	7.46	83.77	<|0.05|	0
PLS-MW3s	11/12/2019	9:51	7.86	83.37	<|0.05|	0
PLS-MW3s	12/14/2019	12:06	7.58	83.65	<|0.05|	0
PLS-MW3d	1/30/2012	11:30	N/M			
PLS-MW3d	2/8/2012	15:14	8.24	82.84		
PLS-MW3d	3/5/2012	13:53	9.18	81.90		
PLS-MW3d	4/5/2012	14:32	9.28	81.80		
PLS-MW3d	5/10/2012	16:55	9.23	81.85		
PLS-MW3d	6/18/2012	13:20	8.93	82.15		
PLS-MW3d	7/9/2012	14:57	8.09	82.99		
PLS-MW3d	8/15/2012	8:55	7.57	83.51		
PLS-MW3d	9/20/2012	15:23	8.09	82.99		
PLS-MW3d	10/19/2012	14:45	9.32	81.76		
PLS-MW3d	12/11/2012	10:04	10.65	80.43		
PLS-MW3d	12/28/2012	13:25	10.56	80.52		
PLS-MW3d	1/16/2013	11:26	10.62	80.46		
PLS-MW3d	2/17/2013	9:54	10.89	80.19		
PLS-MW3d	3/21/2013	8:26	11.24	79.84		
PLS-MW3d	4/16/2013	15:12	11.76	79.32		
PLS-MW3d	5/29/2013	14:43	11.66	79.42		
PLS-MW3d	6/17/2013	11:36	11.93	79.15		
PLS-MW3d	7/16/2013	12:20	10.80	80.28		
PLS-MW3d	8/26/2013	8:21	9.02	82.06		
PLS-MW3d	9/9/2013	15:36	9.07	82.01		
PLS-MW3d	10/7/2013	17:21	10.02	81.06		
PLS-MW3d	11/15/2013	13:52	10.70	80.38		
PLS-MW3d	12/17/2013	15:52	11.58	79.50		
PLS-MW3d	1/13/2014	15:22	11.91	79.17		
PLS-MW3d	2/24/2014	9:13	13.40	77.68		
PLS-MW3d	3/16/2014	15:51	13.40	77.68		
PLS-MW3d	4/19/2014	14:59	14.10	76.98		
PLS-MW3d	5/22/2014	14:17	14.21	76.87		
PLS-MW3d	6/19/2014	15:51	14.38	76.70		
PLS-MW3d	7/17/2014	14:14	13.57	77.51		
PLS-MW3d	8/25/2014	17:58	12.34	78.74		
PLS-MW3d	9/22/2014	15:23	12.90	78.18		
PLS-MW3d	10/14/2014	16:19	12.66	78.42		
PLS-MW3d	11/10/2014	14:08	13.28	77.80		
PLS-MW3d	12/15/2014	11:35	13.49	77.59		
PLS-MW3d	1/12/2015	18:38	12.87	78.21		
PLS-MW3d	2/6/2015	7:56	13.18	77.90		
PLS-MW3d	3/13/2015	15:20	14.18	76.90		
PLS-MW3d	4/17/2015	14:36	15.04	76.04		
PLS-MW3d	5/14/2015	13:09	15.33	75.75		
PLS-MW3d	6/5/2015	10:10	15.28	75.80		
PLS-MW3d	7/22/2015	10:30	14.67	76.41		
PLS-MW3d	8/18/2015	14:48	14.16	76.92		
PLS-MW3d	9/14/2015	13:45	14.20	76.88		
PLS-MW3d	10/16/2015	13:25	13.83	77.25		
PLS-MW3d	11/17/2015	8:31	14.46	76.62		
PLS-MW3d	12/23/2015	15:23	15.20	75.88		
PLS-MW3d	1/15/2016	15:54	15.31	75.77		
PLS-MW3d	2/22/2016	12:06	15.01	76.07		
PLS-MW3d	3/18/2016	15:48	15.28	75.80		
PLS-MW3d	4/18/2016	16:54	15.63	75.45		
PLS-MW3d	5/19/2016	15:24	15.11	75.97		
PLS-MW3d	6/16/2016	12:50	14.53	76.55		
PLS-MW3d	7/21/2016	16:17	13.88	77.20		
PLS-MW3d	8/18/2016	12:39	12.81	78.27		
PLS-MW3d	9/15/2016	14:45	12.88	78.20		
PLS-MW3d	10/14/2016	16:32	13.73	77.35		
PLS-MW3d	11/21/2016	10:11	12.92	78.16		
PLS-MW3d	12/12/2016	14:45	13.11	77.97		
PLS-MW3d	1/25/2017	14:49	12.60	78.48		
PLS-MW3d	2/1/2017		N/M			
PLS-MW3d	3/15/2017	14:11	11.29	79.79		
PLS-MW3d	4/20/2017	14:12	10.76	80.32		
PLS-MW3d	5/18/2017	12:40	9.90	81.18		
PLS-MW3d	6/24/2017	15:58	8.54	82.54		
PLS-MW3d	7/14/2017	15:43	7.37	83.71		
PLS-MW3d	8/28/2017	16:18	5.86	85.22		
PLS-MW3d	9/22/2017	15:38	6.70	84.38		
PLS-MW3d	10/19/2017	14:44	6.24	84.84		
PLS-MW3d	11/27/2017	14:26	7.60	83.48		
PLS-MW3d	12/21/2017	15:01	8.45	82.63		
PLS-MW3d	1/23/2018	14:52	8.99	82.09		
PLS-MW3d	2/22/2018	12:45	9.54	81.54		
PLS-MW3d	3/1/2018		N/M			
PLS-MW3d	4/24/2018	14:26	9.88	81.20		
PLS-MW3d	5/10/2018	12:08	9.51	81.57		
PLS-MW3d	6/13/2018	15:14	8.58	82.50		
PLS-MW3d	7/16/2018	12:57	7.94	83.14		
PLS-MW3d	8/24/2018	14:11	6.38	84.70		
PLS-MW3d	9/16/2018	16:57	6.84	84.24		
PLS-MW3d	10/25/2018	14:13	7.69	83.39		
PLS-MW3d	11/13/2018	10:28	8.13	82.95		
PLS-MW3d	12/15/2018	12:24	8.68	82.40		
PLS-MW3d	1/25/2019	15:11	8.30	82.78		
PLS-MW3d	2/21/2019	14:00	7.59	83.49		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
PLS-MW3d	3/16/2019	15:38	7.92	83.16		
PLS-MW3d	4/16/2019	11:24	8.35	82.73		
PLS-MW3d	5/21/2019	12:40	7.44	83.64		
PLS-MW3d	6/20/2019	14:53	6.93	84.15		
PLS-MW3d	7/18/2019	11:25	6.30	84.78		
PLS-MW3d	8/23/2019	8:30	5.32	85.76		
PLS-MW3d	9/27/2019	11:20	7.42	83.66		
PLS-MW3d	10/28/2019	12:41	7.33	83.75		
PLS-MW3d	11/12/2019	9:52	7.73	83.35		
PLS-MW3d	12/14/2019	12:07	7.43	83.65		
PLS-MW4s	1/30/2012	12:04	10.08	82.18	<|0.05|	0
PLS-MW4s	2/8/2012	15:33	10.26	82.00	<|0.05|	0
PLS-MW4s	3/5/2012	14:08	10.93	81.33	<|0.05|	0
PLS-MW4s	4/5/2012	14:20	10.94	81.32	<|0.05|	0
PLS-MW4s	5/10/2012	19:00	10.78	81.48	<|0.05|	0
PLS-MW4s	6/18/2012	13:26	10.63	81.63	<|0.05|	0
PLS-MW4s	7/9/2012	15:09	9.12	83.14	0.18	0.01
PLS-MW4s	8/15/2012	9:06	8.88	83.38	<|0.05|	0
PLS-MW4s	9/20/2012	15:41	9.41	82.85	0.27	0.02
PLS-MW4s	10/19/2012	14:50	10.69	81.57	<|0.05|	0
PLS-MW4s	12/11/2012	9:53	12.13	80.13	<|0.05|	0
PLS-MW4s	12/28/2012	13:30	12.26	80.00	<|0.05|	0
PLS-MW4s	1/16/2013	11:39	12.20	80.06	<|0.05|	0
PLS-MW4s	2/17/2013	10:09	12.50	79.76	<|0.05|	0
PLS-MW4s	3/21/2013	8:30	13.24	79.02	<|0.05|	0
PLS-MW4s	4/16/2013	14:53	13.40	78.86	<|0.05|	0
PLS-MW4s	5/29/2013	15:12	13.37	78.89	<|0.05|	0
PLS-MW4s	6/17/2013	11:40	13.31	78.95	<|0.05|	0
PLS-MW4s	7/16/2013	11:55	12.54	79.72	<|0.05|	0
PLS-MW4s	8/26/2013	8:38	10.63	81.63	<|0.05|	0
PLS-MW4s	9/9/2013	15:40	10.71	81.55	-0.06	-0.00
PLS-MW4s	10/7/2013	17:04	11.03	81.23	<|0.05|	0
PLS-MW4s	11/15/2013	13:56	12.02	80.24	<|0.05|	0
PLS-MW4s	12/17/2013	16:05	13.12	79.14	0.90	0.06
PLS-MW4s	1/13/2014	15:35	13.76	78.50	<|0.05|	0
PLS-MW4s	2/24/2014	9:27	15.21	77.05	<|0.05|	0
PLS-MW4s	3/16/2014	16:07	15.31	76.95	<|0.05|	0
PLS-MW4s	4/19/2014	15:03	15.84	76.42	<|0.05|	0
PLS-MW4s	5/22/2014	14:21	15.87	76.39	<|0.05|	0
PLS-MW4s	6/19/2014	16:06	16.13	76.13	<|0.05|	0
PLS-MW4s	7/17/2014	14:19	15.62	76.64	<|0.05|	0
PLS-MW4s	8/25/2014	18:14	14.37	77.89	<|0.05|	0
PLS-MW4s	9/22/2014	15:37	14.33	77.93	<|0.05|	0
PLS-MW4s	10/14/2014	16:34	14.39	77.87	<|0.05|	0
PLS-MW4s	11/10/2014	14:13	14.83	77.43	<|0.05|	0
PLS-MW4s	12/15/2014	11:40	14.79	77.47	<|0.05|	0
PLS-MW4s	1/12/2015	18:42	14.35	77.91	<|0.05|	0
PLS-MW4s	2/6/2015	8:07	14.68	77.58	<|0.05|	0
PLS-MW4s	3/13/2015	15:34	15.61	76.65	0.19	0.01
PLS-MW4s	4/17/2015	14:43	16.32	75.94	0.50	0.03
PLS-MW4s	5/14/2015	13:14	16.93	75.33	<|0.05|	0
PLS-MW4s	6/5/2015	10:23	16.85	75.41	<|0.05|	0
PLS-MW4s	7/22/2015	11:03	16.44	75.82	<|0.05|	0
PLS-MW4s	8/18/2015	14:45	15.55	76.71	<|0.05|	0
PLS-MW4s	9/14/2015	13:06	15.57	76.69	<|0.05|	0
PLS-MW4s	10/16/2015	13:05	15.73	76.53	<|0.05|	0
PLS-MW4s	11/17/2015	8:47	16.10	76.16	<|0.05|	0
PLS-MW4s	12/23/2015	14:58	16.55	75.71	<|0.05|	0
PLS-MW4s	1/15/2016	15:38	16.83	75.43	<|0.05|	0
PLS-MW4s	2/22/2016	12:16	16.59	75.67	<|0.05|	0
PLS-MW4s	3/18/2016	15:54	16.86	75.40	<|0.05|	0
PLS-MW4s	4/18/2016	17:11	17.01	75.25	<|0.05|	0
PLS-MW4s	5/19/2016	15:27	16.73	75.53	0.06	0.00
PLS-MW4s	6/16/2016	13:02	16.28	75.98	<|0.05|	0
PLS-MW4s	7/21/2016	16:34	15.69	76.57	<|0.05|	0
PLS-MW4s	8/18/2016	12:48	14.85	77.41	<|0.05|	0
PLS-MW4s	9/15/2016	14:30	14.69	77.57	<|0.05|	0
PLS-MW4s	10/14/2016	16:47	15.38	76.88	<|0.05|	0
PLS-MW4s	11/21/2016	10:30	14.83	77.43	-0.19	-0.01
PLS-MW4s	12/12/2016	14:55	14.65	77.61	<|0.05|	0
PLS-MW4s	1/25/2017	15:02	14.17	78.09	<|0.05|	0
PLS-MW4s	2/1/2017		N/M			
PLS-MW4s	3/15/2017	14:23	12.86	79.40	<|0.05|	0
PLS-MW4s	4/20/2017	14:13	12.56	79.70	<|0.05|	0
PLS-MW4s	5/18/2017	12:45	11.91	80.35	<|0.05|	0
PLS-MW4s	6/24/2017	16:09	10.52	81.74	<|0.05|	0
PLS-MW4s	7/14/2017	15:54	9.34	82.92	<|0.05|	0
PLS-MW4s	8/28/2017	16:06	7.40	84.86	<|0.05|	0
PLS-MW4s	9/22/2017	15:22	8.33	83.93	<|0.05|	0
PLS-MW4s	10/19/2017	14:54	8.81	83.45	<|0.05|	0
PLS-MW4s	11/27/2017	14:35	9.36	82.90	<|0.05|	0
PLS-MW4s	12/21/2017	16:13	10.11	82.15	<|0.05|	0
PLS-MW4s	1/23/2018	15:03	10.81	81.45	<|0.05|	0
PLS-MW4s	2/22/2018	12:47	11.34	80.92	<|0.05|	0
PLS-MW4s	3/1/2018		N/M			
PLS-MW4s	4/24/2018	14:30	11.91	80.35	<|0.05|	0
PLS-MW4s	5/10/2018	12:18	11.63	80.63	<|0.05|	0
PLS-MW4s	6/13/2018	15:33	10.84	81.42	<|0.05|	0
PLS-MW4s	7/16/2018	13:13	9.89	82.37	<|0.05|	0
PLS-MW4s	8/24/2018	14:25	8.71	83.55	<|0.05|	0
PLS-MW4s	9/16/2018	17:20	9.00	83.26	<|0.05|	0
PLS-MW4s	10/25/2018	14:36	9.79	82.47	<|0.05|	0
PLS-MW4s	11/13/2018	10:29	10.20	82.06	<|0.05|	0
PLS-MW4s	12/15/2018	12:41	10.52	81.74	<|0.05|	0
PLS-MW4s	1/25/2019	15:31	10.23	82.03	<|0.05|	0
PLS-MW4s	2/21/2019	14:03	9.46	82.80	<|0.05|	0
PLS-MW4s	3/16/2019	15:55	9.75	82.51	<|0.05|	0
PLS-MW4s	4/16/2019	11:09	10.35	81.91	<|0.05|	0
PLS-MW4s	5/21/2019	12:55	9.07	83.19	<|0.05|	0
PLS-MW4s	6/20/2019	15:13	8.15	84.11	<|0.05|	0
PLS-MW4s	7/18/2019	11:11	7.46	84.80	<|0.05|	0
PLS-MW4s	8/23/2019	8:34	7.07	85.19	<|0.05|	0
PLS-MW4s	9/27/2019	11:35	8.88	83.38	<|0.05|	0
PLS-MW4s	10/28/2019	12:28	8.63	83.63	<|0.05|	0
PLS-MW4s	11/12/2019	10:01	9.22	83.04	<|0.05|	0
PLS-MW4s	12/14/2019	12:29	8.98	83.28	<|0.05|	0
PLS-MW4d	1/30/2012	12:06	9.68	82.17		
PLS-MW4d	2/8/2012	15:34	9.85	82.00		
PLS-MW4d	3/5/2012	14:07	10.53	81.32		
PLS-MW4d	4/5/2012	14:21	10.53	81.32		
PLS-MW4d	5/10/2012	19:01	10.35	81.50		
PLS-MW4d	6/18/2012	13:25	10.25	81.60		
PLS-MW4d	7/9/2012	15:09	8.89	82.96		
PLS-MW4d	8/15/2012	9:06	8.43	83.42		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
PLS-MW4d	9/20/2012	15:41	9.27	82.58		
PLS-MW4d	10/19/2012	14:50	10.26	81.59		
PLS-MW4d	12/11/2012	9:53	11.71	80.14		
PLS-MW4d	12/28/2012	13:31	11.85	80.00		
PLS-MW4d	1/16/2013	11:38	11.79	80.06		
PLS-MW4d	2/17/2013	10:10	12.09	79.76		
PLS-MW4d	3/21/2013	8:30	12.85	79.00		
PLS-MW4d	4/16/2013	14:53	13.00	78.85		
PLS-MW4d	5/29/2013	15:12	12.91	78.94		
PLS-MW4d	6/17/2013	11:41	12.90	78.95		
PLS-MW4d	7/16/2013	11:55	12.13	79.72		
PLS-MW4d	8/26/2013	8:38	10.19	81.66		
PLS-MW4d	9/9/2013	15:40	10.24	81.61		
PLS-MW4d	10/7/2013	17:04	10.60	81.25		
PLS-MW4d	11/15/2013	13:56	11.62	80.23		
PLS-MW4d	12/17/2013	16:05	13.61	78.24		
PLS-MW4d	1/13/2014	15:35	13.34	78.51		
PLS-MW4d	2/24/2014	9:27	14.80	77.05		
PLS-MW4d	3/16/2014	16:07	14.90	76.95		
PLS-MW4d	4/19/2014	15:03	15.44	76.41		
PLS-MW4d	5/22/2014	14:21	15.44	76.41		
PLS-MW4d	6/19/2014	16:06	15.74	76.11		
PLS-MW4d	7/17/2014	14:19	15.20	76.65		
PLS-MW4d	8/25/2014	18:14	13.94	77.91		
PLS-MW4d	9/22/2014	15:37	13.93	77.92		
PLS-MW4d	10/14/2014	16:34	13.97	77.88		
PLS-MW4d	11/10/2014	14:13	14.43	77.42		
PLS-MW4d	12/15/2014	11:40	14.38	77.47		
PLS-MW4d	1/12/2015	18:42	13.95	77.90		
PLS-MW4d	2/6/2015	8:07	14.25	77.60		
PLS-MW4d	3/13/2015	15:34	15.39	76.46		
PLS-MW4d	4/17/2015	14:43	16.41	75.44		
PLS-MW4d	5/14/2015	13:14	16.52	75.33		
PLS-MW4d	6/5/2015	10:23	16.44	75.41		
PLS-MW4d	7/22/2015	11:03	16.02	75.83		
PLS-MW4d	8/18/2015	14:45	15.18	76.67		
PLS-MW4d	9/14/2015	13:07	15.16	76.69		
PLS-MW4d	10/16/2015	13:06	15.32	76.53		
PLS-MW4d	11/17/2015	8:48	15.68	76.17		
PLS-MW4d	12/23/2015	14:59	16.14	75.71		
PLS-MW4d	1/15/2016	15:39	16.43	75.42		
PLS-MW4d	2/22/2016	12:17	16.17	75.68		
PLS-MW4d	3/18/2016	15:54	16.49	75.36		
PLS-MW4d	4/18/2016	17:11	16.60	75.25		
PLS-MW4d	5/19/2016	15:27	16.38	75.47		
PLS-MW4d	6/16/2016	13:03	15.84	76.01		
PLS-MW4d	7/21/2016	16:34	15.31	76.54		
PLS-MW4d	8/18/2016	12:49	14.44	77.41		
PLS-MW4d	9/15/2016	14:31	14.28	77.57		
PLS-MW4d	10/14/2016	16:47	14.96	76.89		
PLS-MW4d	11/21/2016	10:30	14.23	77.62		
PLS-MW4d	12/12/2016	14:56	14.24	77.61		
PLS-MW4d	1/25/2017	15:03	13.73	78.12		
PLS-MW4d	2/1/2017		N/M			
PLS-MW4d	3/15/2017	14:24	12.44	79.41		
PLS-MW4d	4/20/2017	14:14	12.12	79.73		
PLS-MW4d	5/18/2017	12:46	11.47	80.38		
PLS-MW4d	6/24/2017	16:10	10.09	81.76		
PLS-MW4d	7/14/2017	15:55	8.90	82.95		
PLS-MW4d	8/28/2017	16:06	6.97	84.88		
PLS-MW4d	9/22/2017	15:23	7.94	83.91		
PLS-MW4d	10/19/2017	14:55	8.41	83.44		
PLS-MW4d	11/27/2017	14:35	8.97	82.88		
PLS-MW4d	12/21/2017	15:14	9.71	82.14		
PLS-MW4d	1/23/2018	15:04	10.41	81.44		
PLS-MW4d	2/22/2018	12:48	10.95	80.90		
PLS-MW4d	3/1/2018		N/M			
PLS-MW4d	4/24/2018	14:31	11.50	80.35		
PLS-MW4d	5/10/2018	12:19	11.22	80.63		
PLS-MW4d	6/13/2018	15:34	10.42	81.43		
PLS-MW4d	7/16/2018	13:14	9.48	82.37		
PLS-MW4d	8/24/2018	14:25	8.30	83.55		
PLS-MW4d	9/16/2018	17:20	8.58	83.27		
PLS-MW4d	10/25/2018	14:37	9.38	82.47		
PLS-MW4d	11/13/2018	10:30	9.80	82.05		
PLS-MW4d	12/15/2018	12:42	10.12	81.73		
PLS-MW4d	1/25/2019	15:32	9.82	82.03		
PLS-MW4d	2/21/2019	14:04	9.06	82.79		
PLS-MW4d	3/16/2019	15:56	9.34	82.51		
PLS-MW4d	4/16/2019	11:09	9.96	81.89		
PLS-MW4d	5/21/2019	12:55	8.69	83.16		
PLS-MW4d	6/20/2019	15:14	7.71	84.14		
PLS-MW4d	7/18/2019	11:11	7.00	84.85		
PLS-MW4d	8/23/2019	8:35	6.66	85.19		
PLS-MW4d	9/27/2019	11:35	8.48	83.37		
PLS-MW4d	10/28/2019	12:29	8.22	83.63		
PLS-MW4d	11/12/2019	10:02	8.78	83.07		
PLS-MW4d	12/14/2019	12:30	8.56	83.29		
PLS-MW5s	1/30/2012	12:10	N/M			
PLS-MW5s	2/8/2012	16:02	8.93	81.80	<|0.05|	0
PLS-MW5s	3/5/2012	14:18	9.58	81.15	-0.10	-0.01
PLS-MW5s	4/5/2012	14:26	9.72	81.01	<|0.05|	0
PLS-MW5s	5/10/2012	17:25	9.39	81.34	<|0.05|	0
PLS-MW5s	6/18/2012	13:36	9.43	81.30	<|0.05|	0
PLS-MW5s	7/9/2012	15:21	8.30	82.43	-0.08	-0.01
PLS-MW5s	8/15/2012	8:50	7.67	83.06	-1.02	-0.08
PLS-MW5s	9/20/2012	15:55	8.44	82.29	-0.26	-0.02
PLS-MW5s	10/19/2012	15:04	9.43	81.30	<|0.05|	0
PLS-MW5s	12/11/2012	9:44	10.88	79.85	<|0.05|	0
PLS-MW5s	12/28/2012	13:43	11.08	79.65	<|0.05|	0
PLS-MW5s	1/16/2013	11:48	11.04	79.69	<|0.05|	0
PLS-MW5s	2/17/2013	10:21	11.24	79.49	<|0.05|	0
PLS-MW5s	3/21/2013	8:47	12.09	78.64	<|0.05|	0
PLS-MW5s	4/16/2013	15:06	12.33	78.40	<|0.05|	0
PLS-MW5s	5/29/2013	14:50	12.23	78.50	-0.08	-0.01
PLS-MW5s	6/17/2013	11:48	11.78	78.95	<|0.05|	0
PLS-MW5s	7/16/2013	12:12	11.12	79.61	<|0.05|	0
PLS-MW5s	8/26/2013	8:51	9.33	81.40	<|0.05|	0
PLS-MW5s	9/9/2013	15:50	9.29	81.44	<|0.05|	0
PLS-MW5s	10/7/2013	17:16	10.02	80.71	<|0.05|	0
PLS-MW5s	11/15/2013	14:02	10.92	79.81	<|0.05|	0
PLS-MW5s	12/17/2013	16:17	11.90	78.83	<|0.05|	0
PLS-MW5s	1/13/2014	15:46	12.80	77.93	<|0.05|	0
PLS-MW5s	2/24/2014	9:17	14.30	76.43	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
PLS-MW5s	3/16/2014	15:56	14.39	76.34	<|0.05|	0
PLS-MW5s	4/19/2014	15:15	14.82	75.91	<|0.05|	0
PLS-MW5s	5/22/2014	14:30	Dry			
PLS-MW5s	6/19/2014	15:56	14.82	75.91	<|0.05|	0
PLS-MW5s	7/17/2014	14:30	14.35	76.38	<|0.05|	0
PLS-MW5s	8/25/2014	18:02	13.18	77.55	<|0.05|	0
PLS-MW5s	9/22/2014	15:27	13.22	77.51	<|0.05|	0
PLS-MW5s	10/14/2014	16:23	13.13	77.60	<|0.05|	0
PLS-MW5s	11/10/2014	14:24	13.84	76.89	<|0.05|	0
PLS-MW5s	12/15/2014	11:47	14.04	76.69	<|0.05|	0
PLS-MW5s	1/12/2015	18:58	13.30	77.43	<|0.05|	0
PLS-MW5s	2/6/2015	8:01	13.60	77.13	<|0.05|	0
PLS-MW5s	3/13/2015	15:45	Dry			
PLS-MW5s	4/17/2015	14:55	Dry			
PLS-MW5s	5/14/2015	13:21	Dry			
PLS-MW5s	6/5/2015	10:33	Dry			
PLS-MW5s	7/22/2015	11:14	15.20	75.53	<|0.05|	0
PLS-MW5s	8/18/2015	14:50	14.50	76.23	<|0.05|	0
PLS-MW5s	9/14/2015	13:36	14.81	75.92	<|0.05|	0
PLS-MW5s	10/16/2015	13:18	14.61	76.12	<|0.05|	0
PLS-MW5s	11/17/2015	8:33	14.90	75.83	<|0.05|	0
PLS-MW5s	12/23/2015	15:07	15.32	75.41	<|0.05|	0
PLS-MW5s	1/15/2016	15:48	Dry			
PLS-MW5s	2/22/2016	12:33	Dry			
PLS-MW5s	3/18/2016	16:06	Dry			
PLS-MW5s	4/18/2016	16:58	Dry			
PLS-MW5s	5/19/2016	15:38	Dry			
PLS-MW5s	6/16/2016	13:13	Dry			
PLS-MW5s	7/21/2016	16:22	14.23	76.50	<|0.05|	0
PLS-MW5s	8/18/2016	12:57	12.91	77.82	<|0.05|	0
PLS-MW5s	9/15/2016	14:39	13.61	77.12	0.08	0.01
PLS-MW5s	10/14/2016	16:37	14.42	76.31	<|0.05|	0
PLS-MW5s	11/21/2016	10:17	13.40	77.33	<|0.05|	0
PLS-MW5s	12/12/2016	14:59	13.50	77.23	<|0.05|	0
PLS-MW5s	1/25/2017	15:16	13.18	77.55	<|0.05|	0
PLS-MW5s	2/1/2017		N/M			
PLS-MW5s	3/15/2017	14:38	11.70	79.03	<|0.05|	0
PLS-MW5s	4/20/2017	14:24	11.01	79.72	<|0.05|	0
PLS-MW5s	5/18/2017	12:48	10.16	80.57	<|0.05|	0
PLS-MW5s	6/24/2017	16:17	8.60	82.13	<|0.05|	0
PLS-MW5s	7/14/2017	16:04	7.21	83.52	<|0.05|	0
PLS-MW5s	8/28/2017	16:13	5.67	85.06	<|0.05|	0
PLS-MW5s	9/22/2017	15:33	6.93	83.80	<|0.05|	0
PLS-MW5s	10/19/2017	15:03	7.06	83.67	<|0.05|	0
PLS-MW5s	11/27/2017	14:38	7.96	82.77	<|0.05|	0
PLS-MW5s	12/21/2017	15:22	8.74	81.99	<|0.05|	0
PLS-MW5s	1/23/2018	15:13	9.60	81.13	<|0.05|	0
PLS-MW5s	2/22/2018	12:51	10.16	80.57	<|0.05|	0
PLS-MW5s	3/1/2018		N/M			
PLS-MW5s	4/24/2018	14:46	10.68	80.05	<|0.05|	0
PLS-MW5s	5/10/2018	12:36	10.22	80.51	<|0.05|	0
PLS-MW5s	6/13/2018	15:30	9.23	81.50	<|0.05|	0
PLS-MW5s	7/16/2018	13:10	8.20	82.53	<|0.05|	0
PLS-MW5s	8/24/2018	14:27	7.27	83.46	<|0.05|	0
PLS-MW5s	9/16/2018	17:16	7.72	83.01	<|0.05|	0
PLS-MW5s	10/25/2018	14:32	8.50	82.23	<|0.05|	0
PLS-MW5s	11/13/2018	10:25	8.96	81.77	<|0.05|	0
PLS-MW5s	12/15/2018	12:38	9.39	81.34	<|0.05|	0
PLS-MW5s	1/25/2019	15:28	9.25	81.48	<|0.05|	0
PLS-MW5s	2/21/2019	14:10	8.52	82.21	<|0.05|	0
PLS-MW5s	3/16/2019	15:53	8.60	82.13	<|0.05|	0
PLS-MW5s	4/16/2019	11:20	9.16	81.57	<|0.05|	0
PLS-MW5s	5/21/2019	12:45	8.25	82.48	<|0.05|	0
PLS-MW5s	6/20/2019	15:10	6.81	83.92	<|0.05|	0
PLS-MW5s	7/18/2019	11:22	6.41	84.32	<|0.05|	0
PLS-MW5s	8/23/2019	8:44	5.50	85.23	<|0.05|	0
PLS-MW5s	9/27/2019	11:23	7.65	83.08	<|0.05|	0
PLS-MW5s	10/28/2019	12:35	7.38	83.35	<|0.05|	0
PLS-MW5s	11/12/2019	9:54	7.96	82.77	<|0.05|	0
PLS-MW5s	12/14/2019	12:22	7.90	82.83	<|0.05|	0
PLS-MW5d	1/30/2012	12:12	N/M			
PLS-MW5d	2/8/2012	16:03	8.83	81.79		
PLS-MW5d	3/5/2012	14:19	9.37	81.25		
PLS-MW5d	4/5/2012	14:27	9.62	81.00		
PLS-MW5d	5/10/2012	17:26	9.23	81.39		
PLS-MW5d	6/18/2012	13:35	9.30	81.32		
PLS-MW5d	7/9/2012	15:21	8.11	82.51		
PLS-MW5d	8/15/2012	8:50	6.54	84.08		
PLS-MW5d	9/20/2012	15:55	8.07	82.55		
PLS-MW5d	10/19/2012	15:04	9.33	81.29		
PLS-MW5d	12/11/2012	9:44	10.77	79.85		
PLS-MW5d	12/28/2012	13:44	10.95	79.67		
PLS-MW5d	1/16/2013	11:49	10.93	79.69		
PLS-MW5d	2/17/2013	10:22	11.15	79.47		
PLS-MW5d	3/21/2013	8:48	11.96	78.66		
PLS-MW5d	4/16/2013	15:06	12.21	78.41		
PLS-MW5d	5/29/2013	14:50	12.04	78.58		
PLS-MW5d	6/17/2013	11:49	11.65	78.97		
PLS-MW5d	7/16/2013	12:12	11.00	79.62		
PLS-MW5d	8/26/2013	8:51	9.18	81.44		
PLS-MW5d	9/9/2013	15:50	9.19	81.43		
PLS-MW5d	10/7/2013	17:16	9.90	80.72		
PLS-MW5d	11/15/2013	14:02	10.78	79.84		
PLS-MW5d	12/17/2013	16:17	11.77	78.85		
PLS-MW5d	1/13/2014	15:46	12.69	77.93		
PLS-MW5d	2/24/2014	9:17	14.18	76.44		
PLS-MW5d	3/16/2014	15:56	14.25	76.37		
PLS-MW5d	4/19/2014	15:15	14.73	75.89		
PLS-MW5d	5/22/2014	14:30	14.51	76.11		
PLS-MW5d	6/19/2014	15:56	14.70	75.92		
PLS-MW5d	7/17/2014	14:30	14.22	76.40		
PLS-MW5d	8/25/2014	18:02	13.08	77.54		
PLS-MW5d	9/22/2014	15:27	13.13	77.49		
PLS-MW5d	10/14/2014	16:23	13.00	77.62		
PLS-MW5d	11/10/2014	14:24	13.72	76.90		
PLS-MW5d	12/15/2014	11:47	13.91	76.71		
PLS-MW5d	1/12/2015	18:58	13.19	77.43		
PLS-MW5d	2/6/2015	8:01	13.48	77.14		
PLS-MW5d	3/13/2015	15:45	14.75	75.87		
PLS-MW5d	4/17/2015	14:55	15.89	74.73		
PLS-MW5d	5/14/2015	13:21	15.70	74.92		
PLS-MW5d	6/5/2015	10:33	15.73	74.89		
PLS-MW5d	7/22/2015	11:14	15.09	75.53		
PLS-MW5d	8/18/2015	14:50	14.39	76.23		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
PLS-MW5d	9/14/2015	13:37	14.70	75.92		
PLS-MW5d	10/16/2015	13:19	14.53	76.09		
PLS-MW5d	11/17/2015	8:34	14.80	75.82		
PLS-MW5d	12/23/2015	15:08	15.22	75.40		
PLS-MW5d	1/15/2016	15:49	15.44	75.18		
PLS-MW5d	2/22/2016	12:34	15.34	75.28		
PLS-MW5d	3/18/2016	16:06	15.58	75.04		
PLS-MW5d	4/18/2016	16:58	16.03	74.59		
PLS-MW5d	5/19/2016	15:38	15.38	75.24		
PLS-MW5d	6/16/2016	13:14	14.78	75.84		
PLS-MW5d	7/21/2016	16:22	14.13	76.49		
PLS-MW5d	8/18/2016	12:56	12.80	77.82		
PLS-MW5d	9/15/2016	14:40	13.58	77.04		
PLS-MW5d	10/14/2016	16:37	14.33	76.29		
PLS-MW5d	11/21/2016	10:18	13.32	77.30		
PLS-MW5d	12/12/2016	15:00	13.38	77.24		
PLS-MW5d	1/25/2017	15:17	13.09	77.53		
PLS-MW5d	2/1/2017		N/M			
PLS-MW5d	3/15/2017	14:39	11.61	79.01		
PLS-MW5d	4/20/2017	14:23	10.92	79.70		
PLS-MW5d	5/18/2017	12:49	10.05	80.57		
PLS-MW5d	6/24/2017	16:18	8.48	82.14		
PLS-MW5d	7/14/2017	16:05	7.09	83.53		
PLS-MW5d	8/28/2017	16:13	5.57	85.05		
PLS-MW5d	9/22/2017	15:34	6.83	83.79		
PLS-MW5d	10/19/2017	15:04	6.96	83.66		
PLS-MW5d	11/27/2017	14:38	7.90	82.72		
PLS-MW5d	12/21/2017	15:23	8.65	81.97		
PLS-MW5d	1/23/2018	15:14	9.50	81.12		
PLS-MW5d	2/22/2018	12:52	10.09	80.53		
PLS-MW5d	3/1/2018		N/M			
PLS-MW5d	4/24/2018	14:46	10.59	80.03		
PLS-MW5d	5/10/2018	12:35	10.12	80.50		
PLS-MW5d	6/13/2018	15:31	9.11	81.51		
PLS-MW5d	7/16/2018	13:11	8.10	82.52		
PLS-MW5d	8/24/2018	14:27	7.18	83.44		
PLS-MW5d	9/16/2018	17:16	7.63	82.99		
PLS-MW5d	10/25/2018	14:33	8.38	82.24		
PLS-MW5d	11/13/2018	10:24	8.85	81.77		
PLS-MW5d	12/15/2018	12:39	9.27	81.35		
PLS-MW5d	1/25/2019	15:29	9.15	81.47		
PLS-MW5d	2/21/2019	14:10	8.45	82.17		
PLS-MW5d	3/16/2019	15:53	8.51	82.11		
PLS-MW5d	4/16/2019	11:20	9.06	81.56		
PLS-MW5d	5/21/2019	12:45	8.15	82.47		
PLS-MW5d	6/20/2019	15:11	6.65	83.97		
PLS-MW5d	7/18/2019	11:22	6.29	84.33		
PLS-MW5d	8/23/2019	8:43	5.37	85.25		
PLS-MW5d	9/27/2019	11:23	7.55	83.07		
PLS-MW5d	10/28/2019	12:36	7.31	83.31		
PLS-MW5d	11/12/2019	9:55	7.84	82.78		
PLS-MW5d	12/14/2019	12:23	7.81	82.81		
PLS-MW6s	1/30/2012	11:35	7.95	82.14	0.87	0.04
PLS-MW6s	2/8/2012	14:52	8.06	82.03	1.21	0.06
PLS-MW6s	3/5/2012	13:55	8.89	81.20	<|0.05|	0
PLS-MW6s	4/5/2012	13:59	8.12	81.97	1.73	0.08
PLS-MW6s	5/10/2012	18:20	8.74	81.35	0.67	0.03
PLS-MW6s	6/18/2012	13:40	8.47	81.62	1.16	0.06
PLS-MW6s	7/9/2012	15:00	5.87	84.22	1.80	0.09
PLS-MW6s	8/15/2012	9:12	5.80	84.29	2.03	0.10
PLS-MW6s	9/20/2012	15:30	6.55	83.54	0.23	0.01
PLS-MW6s	10/19/2012	15:10	7.82	82.27	1.20	0.06
PLS-MW6s	12/11/2012	10:00	9.25	80.84	1.11	0.05
PLS-MW6s	12/28/2012	13:49	8.69	81.40	1.31	0.06
PLS-MW6s	1/16/2013	11:30	8.55	81.54	1.26	0.06
PLS-MW6s	2/17/2013	10:26	9.30	80.79	1.40	0.07
PLS-MW6s	3/21/2013	8:50	10.13	79.96	2.06	0.10
PLS-MW6s	4/16/2013	14:42	9.92	80.17	2.30	0.11
PLS-MW6s	5/29/2013	15:27	9.97	80.12	1.28	0.06
PLS-MW6s	6/17/2013	11:54	10.23	79.86	1.81	0.09
PLS-MW6s	7/16/2013	11:44	8.35	81.74	1.93	0.09
PLS-MW6s	8/26/2013	8:27	6.64	83.45	1.56	0.08
PLS-MW6s	9/9/2013	15:56	6.71	83.38	1.36	0.07
PLS-MW6s	10/7/2013	16:55	7.21	82.88	1.73	0.08
PLS-MW6s	11/15/2013	14:16	8.72	81.37	1.73	0.08
PLS-MW6s	12/17/2013	15:56	10.12	79.97	1.46	0.07
PLS-MW6s	1/13/2014	15:25	10.97	79.12	1.85	0.09
PLS-MW6s	2/24/2014	9:30	11.21	78.88	1.57	0.08
PLS-MW6s	3/16/2014	16:10	11.45	78.64	1.60	0.08
PLS-MW6s	4/19/2014	15:20	12.35	77.74	1.71	0.08
PLS-MW6s	5/22/2014	14:35	12.43	77.66	1.21	0.06
PLS-MW6s	6/19/2014	16:04	12.82	77.27	2.17	0.11
PLS-MW6s	7/17/2014	14:36	11.98	78.11	1.09	0.05
PLS-MW6s	8/25/2014	18:18	10.34	79.75	1.56	0.08
PLS-MW6s	9/22/2014	15:41	10.34	79.75	1.56	0.08
PLS-MW6s	10/14/2014	16:37	11.04	79.05	0.89	0.04
PLS-MW6s	11/10/2014	14:29	11.56	78.53	1.12	0.05
PLS-MW6s	12/15/2014	12:07	10.70	79.39	1.68	0.08
PLS-MW6s	1/12/2015	19:04	10.42	79.67	0.39	0.02
PLS-MW6s	2/6/2015	8:21	11.12	78.97	1.30	0.06
PLS-MW6s	3/13/2015	15:24	12.02	78.07	1.50	0.07
PLS-MW6s	4/17/2015	15:01	13.18	76.91	1.62	0.08
PLS-MW6s	5/14/2015	13:26	13.49	76.60	1.15	0.06
PLS-MW6s	6/5/2015	10:15	13.43	76.66	1.15	0.06
PLS-MW6s	7/22/2015	10:41	13.44	76.65	0.82	0.04
PLS-MW6s	8/18/2015	14:40	12.74	77.35	2.08	0.10
PLS-MW6s	9/14/2015	13:21	11.92	78.17	2.07	0.10
PLS-MW6s	10/16/2015	12:56	12.66	77.43	0.91	0.04
PLS-MW6s	11/17/2015	9:00	13.00	77.09	1.07	0.05
PLS-MW6s	12/23/2015	15:12	13.51	76.58	1.04	0.05
PLS-MW6s	1/15/2016	15:28	13.64	76.45	1.26	0.06
PLS-MW6s	2/22/2016	12:07	13.08	77.01	1.63	0.08
PLS-MW6s	3/18/2016	16:13	13.32	76.77	1.47	0.07
PLS-MW6s	4/18/2016	17:15	13.73	76.36	1.07	0.05
PLS-MW6s	5/19/2016	15:42	13.94	76.15	0.76	0.04
PLS-MW6s	6/16/2016	12:53	13.52	76.57	0.76	0.04
PLS-MW6s	7/21/2016	16:37	13.20	76.89	0.84	0.04
PLS-MW6s	8/18/2016	12:40	11.91	78.18	1.09	0.05
PLS-MW6s	9/15/2016	14:19	10.78	79.31	1.42	0.07
PLS-MW6s	10/14/2016	16:50	11.25	78.84	1.53	0.07
PLS-MW6s	11/21/2016	10:34	11.57	78.52	0.69	0.03
PLS-MW6s	12/12/2016	14:45	11.62	78.47	0.93	0.05
PLS-MW6s	1/25/2017	14:51	9.99	80.10	1.35	0.07
PLS-MW6s	2/1/2017		N/M			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
PLS-MW6s	3/15/2017	14:14	9.21	80.88	1.54	0.08
PLS-MW6s	4/20/2017	14:29	9.83	80.26	0.30	0.01
PLS-MW6s	5/18/2017	13:00	9.39	80.70	<|0.05|	0
PLS-MW6s	6/24/2017	16:01	8.00	82.09	0.21	0.01
PLS-MW6s	7/14/2017	15:45	6.75	83.34	0.39	0.02
PLS-MW6s	8/28/2017	16:03	5.25	84.84	1.00	0.05
PLS-MW6s	9/22/2017	15:14	6.30	83.79	0.72	0.04
PLS-MW6s	10/19/2017	14:46	6.87	83.22	0.69	0.03
PLS-MW6s	11/27/2017	14:28	7.35	82.74	0.41	0.02
PLS-MW6s	12/21/2017	15:03	7.75	82.34	1.03	0.05
PLS-MW6s	1/23/2018	14:54	7.91	82.18	0.98	0.05
PLS-MW6s	2/22/2018	13:00	8.77	81.32	1.12	0.05
PLS-MW6s	3/1/2018		N/M			
PLS-MW6s	4/24/2018	14:52	8.78	81.31	1.02	0.05
PLS-MW6s	5/10/2018	12:10	9.02	81.07	0.20	0.01
PLS-MW6s	6/13/2018	15:16	7.72	82.37	0.58	0.03
PLS-MW6s	7/16/2018	12:59	6.31	83.78	1.06	0.05
PLS-MW6s	8/24/2018	14:14	5.27	84.82	1.19	0.06
PLS-MW6s	9/16/2018	17:01	6.12	83.97	0.67	0.03
PLS-MW6s	10/25/2018	14:15	7.37	82.72	0.44	0.02
PLS-MW6s	11/13/2018	10:42	7.60	82.49	0.48	0.02
PLS-MW6s	12/15/2018	12:26	7.65	82.44	0.83	0.04
PLS-MW6s	1/25/2019	15:14	6.44	83.65	1.36	0.07
PLS-MW6s	2/21/2019	14:23	5.30	84.79	1.46	0.07
PLS-MW6s	3/16/2019	15:40	6.67	83.42	1.28	0.06
PLS-MW6s	4/16/2019	10:57	7.55	82.54	0.70	0.03
PLS-MW6s	5/21/2019	12:58	4.03	86.06	2.29	0.11
PLS-MW6s	6/20/2019	14:56	6.08	84.01	0.16	0.01
PLS-MW6s	7/18/2019	11:03	5.33	84.76	0.20	0.01
PLS-MW6s	8/23/2019	9:00	4.25	85.84	1.33	0.06
PLS-MW6s	9/27/2019	11:46	6.20	83.89	1.31	0.06
PLS-MW6s	10/28/2019	12:00	6.11	83.98	0.82	0.04
PLS-MW6s	11/12/2019	10:05	6.81	83.28	0.78	0.04
PLS-MW6s	12/14/2019	12:09	5.91	84.18	1.24	0.06
PLS-MW6d	1/30/2012	11:37	8.52	81.27		
PLS-MW6d	2/8/2012	14:53	8.97	80.82		
PLS-MW6d	3/5/2012	13:56	8.63	81.16		
PLS-MW6d	4/5/2012	14:02	9.55	80.24		
PLS-MW6d	5/10/2012	18:22	9.11	80.68		
PLS-MW6d	6/18/2012	13:39	9.33	80.46		
PLS-MW6d	7/9/2012	15:00	7.37	82.42		
PLS-MW6d	8/15/2012	9:12	7.53	82.26		
PLS-MW6d	9/20/2012	15:30	6.48	83.31		
PLS-MW6d	10/19/2012	15:10	8.72	81.07		
PLS-MW6d	12/11/2012	10:00	10.06	79.73		
PLS-MW6d	12/28/2012	13:50	9.70	80.09		
PLS-MW6d	1/16/2013	11:31	9.51	80.28		
PLS-MW6d	2/17/2013	10:27	10.40	79.39		
PLS-MW6d	3/21/2013	8:52	11.89	77.90		
PLS-MW6d	4/16/2013	14:42	11.92	77.87		
PLS-MW6d	5/29/2013	15:27	10.95	78.84		
PLS-MW6d	6/17/2013	11:55	11.74	78.05		
PLS-MW6d	7/16/2013	11:44	9.98	79.81		
PLS-MW6d	8/26/2013	8:27	7.90	81.89		
PLS-MW6d	9/9/2013	15:56	7.77	82.02		
PLS-MW6d	10/7/2013	16:55	8.64	81.15		
PLS-MW6d	11/15/2013	14:16	10.15	79.64		
PLS-MW6d	12/17/2013	15:56	11.28	78.51		
PLS-MW6d	1/13/2014	15:25	12.52	77.27		
PLS-MW6d	2/24/2014	9:30	12.48	77.31		
PLS-MW6d	3/16/2014	16:10	12.75	77.04		
PLS-MW6d	4/19/2014	15:20	13.76	76.03		
PLS-MW6d	5/22/2014	14:35	13.34	76.45		
PLS-MW6d	6/19/2014	16:04	14.69	75.10		
PLS-MW6d	7/17/2014	14:36	12.77	77.02		
PLS-MW6d	8/25/2014	18:18	11.60	78.19		
PLS-MW6d	9/22/2014	15:41	11.60	78.19		
PLS-MW6d	10/14/2014	16:37	11.63	78.16		
PLS-MW6d	11/10/2014	14:29	12.38	77.41		
PLS-MW6d	12/15/2014	12:07	12.08	77.71		
PLS-MW6d	1/12/2015	19:04	10.51	79.28		
PLS-MW6d	2/6/2015	8:21	12.12	77.67		
PLS-MW6d	3/13/2015	15:24	13.22	76.57		
PLS-MW6d	4/17/2015	15:01	14.50	75.29		
PLS-MW6d	5/14/2015	13:26	14.34	75.45		
PLS-MW6d	6/5/2015	10:15	14.28	75.51		
PLS-MW6d	7/22/2015	10:41	13.96	75.83		
PLS-MW6d	8/18/2015	14:40	14.52	75.27		
PLS-MW6d	9/14/2015	13:22	13.69	76.10		
PLS-MW6d	10/16/2015	12:57	13.27	76.52		
PLS-MW6d	11/17/2015	9:01	13.77	76.02		
PLS-MW6d	12/23/2015	15:13	14.25	75.54		
PLS-MW6d	1/15/2016	15:29	14.60	75.19		
PLS-MW6d	2/22/2016	12:08	14.41	75.38		
PLS-MW6d	3/18/2016	16:13	14.49	75.30		
PLS-MW6d	4/18/2016	17:15	14.50	75.29		
PLS-MW6d	5/19/2016	15:42	14.40	75.39		
PLS-MW6d	6/16/2016	12:54	13.98	75.81		
PLS-MW6d	7/21/2016	16:37	13.74	76.05		
PLS-MW6d	8/18/2016	12:41	12.70	77.09		
PLS-MW6d	9/15/2016	14:20	11.90	77.89		
PLS-MW6d	10/14/2016	16:50	12.48	77.31		
PLS-MW6d	11/21/2016	10:35	11.96	77.83		
PLS-MW6d	12/12/2016	14:46	12.25	77.54		
PLS-MW6d	1/25/2017	14:52	11.04	78.75		
PLS-MW6d	2/1/2017		N/M			
PLS-MW6d	3/15/2017	14:15	10.45	79.34		
PLS-MW6d	4/20/2017	14:30	9.83	79.96		
PLS-MW6d	5/18/2017	13:01	9.06	80.73		
PLS-MW6d	6/24/2017	16:02	7.91	81.88		
PLS-MW6d	7/14/2017	15:46	6.84	82.95		
PLS-MW6d	8/28/2017	16:03	5.95	83.84		
PLS-MW6d	9/22/2017	15:15	6.72	83.07		
PLS-MW6d	10/19/2017	14:47	7.26	82.53		
PLS-MW6d	11/27/2017	14:28	7.46	82.33		
PLS-MW6d	12/21/2017	15:04	8.48	81.31		
PLS-MW6d	1/23/2018	14:55	8.59	81.20		
PLS-MW6d	2/22/2018	13:01	9.59	80.20		
PLS-MW6d	3/1/2018		N/M			
PLS-MW6d	4/24/2018	14:52	9.50	80.29		
PLS-MW6d	5/10/2018	12:11	8.92	80.87		
PLS-MW6d	6/13/2018	15:17	8.00	81.79		
PLS-MW6d	7/16/2018	12:59	7.07	82.72		
PLS-MW6d	8/24/2018	14:14	6.16	83.63		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
PLS-MW6d	9/16/2018	17:01	6.49	83.30		
PLS-MW6d	10/25/2018	14:16	7.51	82.28		
PLS-MW6d	11/13/2018	10:41	7.78	82.01		
PLS-MW6d	12/15/2018	12:27	8.18	81.61		
PLS-MW6d	1/25/2019	15:15	7.50	82.29		
PLS-MW6d	2/21/2019	14:24	6.46	83.33		
PLS-MW6d	3/16/2019	15:41	7.65	82.14		
PLS-MW6d	4/16/2019	10:57	7.95	81.84		
PLS-MW6d	5/21/2019	12:58	6.02	83.77		
PLS-MW6d	6/20/2019	14:57	5.94	83.85		
PLS-MW6d	7/18/2019	11:03	5.23	84.56		
PLS-MW6d	8/23/2019	9:01	5.28	84.51		
PLS-MW6d	9/27/2019	11:46	7.21	82.58		
PLS-MW6d	10/28/2019	12:01	6.63	83.16		
PLS-MW6d	11/12/2019	10:06	7.29	82.50		
PLS-MW6d	12/14/2019	12:10	6.85	82.94		
PLS-MW7s	1/30/2012	11:41	9.29	81.89	0.55	0.03
PLS-MW7s	2/8/2012	17:23	9.60	81.58	1.01	0.06
PLS-MW7s	3/5/2012	13:59	11.78	79.40	0.08	0.00
PLS-MW7s	4/5/2012	13:55	10.37	80.81	1.17	0.06
PLS-MW7s	5/10/2012	18:40	9.89	81.29	-0.34	-0.02
PLS-MW7s	6/18/2012	13:43	10.00	81.18	1.25	0.07
PLS-MW7s	7/9/2012	15:03	8.43	82.75	1.11	0.06
PLS-MW7s	8/15/2012	9:09	8.19	82.99	1.45	0.08
PLS-MW7s	9/20/2012	15:34	8.68	82.50	0.33	0.02
PLS-MW7s	10/19/2012	15:17	9.50	81.68	0.31	0.02
PLS-MW7s	12/11/2012	9:57	10.96	80.22	0.27	0.02
PLS-MW7s	12/28/2012	13:56	10.91	80.27	0.24	0.01
PLS-MW7s	1/16/2013	11:33	10.80	80.38	0.22	0.01
PLS-MW7s	2/17/2013	10:35	11.25	79.93	0.36	0.02
PLS-MW7s	3/21/2013	8:20	12.73	78.45	1.13	0.06
PLS-MW7s	4/16/2013	14:47	12.49	78.69	1.21	0.07
PLS-MW7s	5/29/2013	15:19	11.90	79.28	0.44	0.02
PLS-MW7s	6/17/2013	11:58	12.50	78.68	1.16	0.06
PLS-MW7s	7/16/2013	11:49	11.20	79.98	0.99	0.06
PLS-MW7s	8/26/2013	8:31	8.87	82.31	0.34	0.02
PLS-MW7s	9/9/2013	16:00	8.91	82.27	0.32	0.02
PLS-MW7s	10/7/2013	16:59	9.39	81.79	0.37	0.02
PLS-MW7s	11/15/2013	14:25	10.60	80.58	0.47	0.03
PLS-MW7s	12/17/2013	16:00	11.74	79.44	0.48	0.03
PLS-MW7s	1/13/2014	15:30	12.88	78.30	1.37	0.08
PLS-MW7s	2/24/2014	9:36	13.68	77.50	0.28	0.02
PLS-MW7s	3/16/2014	16:15	13.75	77.43	0.39	0.02
PLS-MW7s	4/19/2014	15:24	14.20	76.98	0.50	0.03
PLS-MW7s	5/22/2014	14:39	14.45	76.73	0.35	0.02
PLS-MW7s	6/19/2014	16:14	15.02	76.16	1.39	0.08
PLS-MW7s	7/17/2014	14:40	14.46	76.72	0.19	0.01
PLS-MW7s	8/25/2014	18:23	13.06	78.12	0.20	0.01
PLS-MW7s	9/22/2014	15:45	12.56	78.62	0.39	0.02
PLS-MW7s	10/14/2014	16:40	12.81	78.37	0.29	0.02
PLS-MW7s	11/10/2014	14:33	13.22	77.96	0.37	0.02
PLS-MW7s	12/15/2014	12:13	13.22	77.96	0.30	0.02
PLS-MW7s	1/12/2015	19:08	12.60	78.58	0.37	0.02
PLS-MW7s	2/6/2015	8:18	13.10	78.08	0.74	0.04
PLS-MW7s	3/13/2015	15:30	14.09	77.09	0.52	0.03
PLS-MW7s	4/17/2015	15:06	15.07	76.11	0.55	0.03
PLS-MW7s	5/14/2015	13:30	15.30	75.88	0.35	0.02
PLS-MW7s	6/5/2015	10:19	15.12	76.06	0.37	0.02
PLS-MW7s	7/22/2015	10:46	15.25	75.93	0.10	0.01
PLS-MW7s	8/18/2015	14:36	14.45	76.73	0.96	0.05
PLS-MW7s	9/14/2015	13:26	13.90	77.28	0.49	0.03
PLS-MW7s	10/16/2015	13:00	14.29	76.89	0.25	0.01
PLS-MW7s	11/17/2015	8:54	14.67	76.51	0.29	0.02
PLS-MW7s	12/23/2015	15:16	15.17	76.01	0.28	0.02
PLS-MW7s	1/15/2016	15:32	15.48	75.70	0.32	0.02
PLS-MW7s	2/22/2016	12:11	15.15	76.03	0.72	0.04
PLS-MW7s	3/18/2016	16:18	15.44	75.74	0.25	0.01
PLS-MW7s	4/18/2016	17:19	15.56	75.62	0.15	0.01
PLS-MW7s	5/19/2016	15:46	15.54	75.64	0.25	0.01
PLS-MW7s	6/16/2016	12:57	15.20	75.98	0.16	0.01
PLS-MW7s	7/21/2016	16:40	14.98	76.20	0.77	0.04
PLS-MW7s	8/18/2016	12:43	14.69	76.49	0.37	0.02
PLS-MW7s	9/15/2016	14:23	13.51	77.67	0.14	0.01
PLS-MW7s	10/14/2016	16:55	13.63	77.55	0.32	0.02
PLS-MW7s	11/21/2016	10:39	13.15	78.03	0.17	0.01
PLS-MW7s	12/12/2016	14:50	13.29	77.89	0.27	0.02
PLS-MW7s	1/25/2017	14:55	12.57	78.61	0.19	0.01
PLS-MW7s	2/1/2017		N/M			
PLS-MW7s	3/15/2017	14:18	11.40	79.78	0.33	0.02
PLS-MW7s	4/20/2017	14:32	11.60	79.58	<|0.05|	0
PLS-MW7s	5/18/2017	12:58	10.94	80.24	-0.08	-0.00
PLS-MW7s	6/24/2017	16:04	9.68	81.50	<|0.05|	0
PLS-MW7s	7/14/2017	15:49	9.01	82.17	-0.10	-0.01
PLS-MW7s	8/28/2017	16:00	6.84	84.34	0.56	0.03
PLS-MW7s	9/22/2017	15:17	7.41	83.77	0.18	0.01
PLS-MW7s	10/19/2017	14:50	8.08	83.10	0.13	0.01
PLS-MW7s	11/27/2017	14:29	8.48	82.70	0.15	0.01
PLS-MW7s	12/21/2017	15:08	9.24	81.94	0.27	0.02
PLS-MW7s	1/23/2018	14:58	9.72	81.46	0.13	0.01
PLS-MW7s	2/22/2018	13:06	10.28	80.90	0.26	0.01
PLS-MW7s	3/1/2018		N/M			
PLS-MW7s	4/24/2018	14:57	10.76	80.42	0.06	0.00
PLS-MW7s	5/10/2018	12:13	10.61	80.57	<|0.05|	0
PLS-MW7s	6/13/2018	15:20	9.79	81.39	<|0.05|	0
PLS-MW7s	7/16/2018	13:02	8.98	82.20	0.43	0.02
PLS-MW7s	8/24/2018	14:18	8.03	83.15	0.07	0.00
PLS-MW7s	9/16/2018	17:04	7.88	83.30	0.15	0.01
PLS-MW7s	10/25/2018	14:19	8.63	82.55	0.15	0.01
PLS-MW7s	11/13/2018	10:44	8.95	82.23	0.14	0.01
PLS-MW7s	12/15/2018	12:29	9.34	81.84	0.11	0.01
PLS-MW7s	1/25/2019	15:18	8.66	82.52	0.20	0.01
PLS-MW7s	2/21/2019	14:20	7.82	83.36	0.19	0.01
PLS-MW7s	3/16/2019	15:44	8.52	82.66	0.14	0.01
PLS-MW7s	4/16/2019	11:02	9.58	81.60	0.18	0.01
PLS-MW7s	5/21/2019	13:03	6.84	84.34	0.37	0.02
PLS-MW7s	6/20/2019	14:59	7.00	84.18	0.14	0.01
PLS-MW7s	7/18/2019	11:07	6.16	85.02	0.21	0.01
PLS-MW7s	8/23/2019	9:14	6.16	85.02	0.19	0.01
PLS-MW7s	9/27/2019	11:43	7.60	83.58	0.28	0.02
PLS-MW7s	10/28/2019	12:05	7.20	83.98	0.20	0.01
PLS-MW7s	11/12/2019	10:09	7.94	83.24	0.19	0.01
PLS-MW7s	12/14/2019	12:13	7.60	83.58	0.20	0.01
PLS-MW7d	1/30/2012	11:43	9.53	81.34		
PLS-MW7d	2/8/2012	17:24	10.30	80.57		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
PLS-MW7d	3/5/2012	14:00	11.55	79.32		
PLS-MW7d	4/5/2012	13:57	11.23	79.64		
PLS-MW7d	5/10/2012	18:41	9.24	81.63		
PLS-MW7d	6/18/2012	13:42	10.94	79.93		
PLS-MW7d	7/9/2012	15:03	9.23	81.64		
PLS-MW7d	8/15/2012	9:10	9.33	81.54		
PLS-MW7d	9/20/2012	15:34	8.70	82.17		
PLS-MW7d	10/19/2012	15:17	9.50	81.37		
PLS-MW7d	12/11/2012	9:57	10.92	79.95		
PLS-MW7d	12/28/2012	13:57	10.84	80.03		
PLS-MW7d	1/16/2013	11:34	10.71	80.16		
PLS-MW7d	2/17/2013	10:36	11.30	79.57		
PLS-MW7d	3/21/2013	8:20	13.55	77.32		
PLS-MW7d	4/16/2013	14:47	13.39	77.48		
PLS-MW7d	5/29/2013	15:19	12.03	78.84		
PLS-MW7d	6/17/2013	12:00	13.35	77.52		
PLS-MW7d	7/16/2013	11:49	11.88	78.99		
PLS-MW7d	8/26/2013	8:31	8.90	81.97		
PLS-MW7d	9/9/2013	16:00	8.92	81.95		
PLS-MW7d	10/7/2013	16:59	9.45	81.42		
PLS-MW7d	11/15/2013	14:25	10.76	80.11		
PLS-MW7d	12/17/2013	16:00	11.91	78.96		
PLS-MW7d	1/13/2014	15:30	13.94	76.93		
PLS-MW7d	2/24/2014	9:36	13.65	77.22		
PLS-MW7d	3/16/2014	16:15	13.83	77.04		
PLS-MW7d	4/19/2014	15:24	14.39	76.48		
PLS-MW7d	5/22/2014	14:39	14.49	76.38		
PLS-MW7d	6/19/2014	16:14	16.10	74.77		
PLS-MW7d	7/17/2014	14:40	14.34	76.53		
PLS-MW7d	8/25/2014	18:23	12.95	77.92		
PLS-MW7d	9/22/2014	15:45	12.64	78.23		
PLS-MW7d	10/14/2014	16:40	12.79	78.08		
PLS-MW7d	11/10/2014	14:33	13.28	77.59		
PLS-MW7d	12/15/2014	12:13	13.21	77.66		
PLS-MW7d	1/12/2015	19:08	12.66	78.21		
PLS-MW7d	2/6/2015	8:18	13.53	77.34		
PLS-MW7d	3/13/2015	15:30	14.30	76.57		
PLS-MW7d	4/17/2015	15:06	15.31	75.56		
PLS-MW7d	5/14/2015	13:30	15.34	75.53		
PLS-MW7d	6/5/2015	10:19	15.18	75.69		
PLS-MW7d	7/22/2015	10:46	15.04	75.83		
PLS-MW7d	8/18/2015	14:36	15.10	75.77		
PLS-MW7d	9/14/2015	13:27	14.08	76.79		
PLS-MW7d	10/16/2015	13:01	14.23	76.64		
PLS-MW7d	11/17/2015	8:55	14.65	76.22		
PLS-MW7d	12/23/2015	15:17	15.14	75.73		
PLS-MW7d	1/15/2016	15:33	15.49	75.38		
PLS-MW7d	2/22/2016	12:12	15.56	75.31		
PLS-MW7d	3/18/2016	16:18	15.38	75.49		
PLS-MW7d	4/18/2016	17:19	15.40	75.47		
PLS-MW7d	5/19/2016	15:46	15.48	75.39		
PLS-MW7d	6/16/2016	12:58	15.05	75.82		
PLS-MW7d	7/21/2016	16:40	15.44	75.43		
PLS-MW7d	8/18/2016	12:44	14.75	76.12		
PLS-MW7d	9/15/2016	14:24	13.34	77.53		
PLS-MW7d	10/14/2016	16:55	13.64	77.23		
PLS-MW7d	11/21/2016	10:39	13.01	77.86		
PLS-MW7d	12/12/2016	14:51	13.25	77.62		
PLS-MW7d	1/25/2017	14:56	12.45	78.42		
PLS-MW7d	2/1/2017		N/M			
PLS-MW7d	3/15/2017	14:19	11.42	79.45		
PLS-MW7d	4/20/2017	14:33	11.25	79.62		
PLS-MW7d	5/18/2017	12:59	10.55	80.32		
PLS-MW7d	6/24/2017	16:05	9.32	81.55		
PLS-MW7d	7/14/2017	15:50	8.60	82.27		
PLS-MW7d	8/28/2017	16:00	7.09	83.78		
PLS-MW7d	9/22/2017	15:18	7.28	83.59		
PLS-MW7d	10/19/2017	14:51	7.90	82.97		
PLS-MW7d	11/27/2017	14:29	8.32	82.55		
PLS-MW7d	12/21/2017	15:09	9.20	81.67		
PLS-MW7d	1/23/2018	15:00	9.54	81.33		
PLS-MW7d	2/22/2018	13:05	10.23	80.64		
PLS-MW7d	3/1/2018		N/M			
PLS-MW7d	4/24/2018	14:58	10.51	80.36		
PLS-MW7d	5/10/2018	12:14	10.28	80.59		
PLS-MW7d	6/13/2018	15:21	9.48	81.39		
PLS-MW7d	7/16/2018	13:03	9.10	81.77		
PLS-MW7d	8/24/2018	14:18	7.79	83.08		
PLS-MW7d	9/16/2018	17:04	7.72	83.15		
PLS-MW7d	10/25/2018	14:20	8.47	82.40		
PLS-MW7d	11/13/2018	10:43	8.78	82.09		
PLS-MW7d	12/15/2018	12:30	9.14	81.73		
PLS-MW7d	1/25/2019	15:19	8.55	82.32		
PLS-MW7d	2/21/2019	14:21	7.70	83.17		
PLS-MW7d	3/16/2019	15:44	8.35	82.52		
PLS-MW7d	4/16/2019	11:02	9.45	81.42		
PLS-MW7d	5/21/2019	13:03	6.90	83.97		
PLS-MW7d	6/20/2019	15:00	6.83	84.04		
PLS-MW7d	7/18/2019	11:07	6.06	84.81		
PLS-MW7d	8/23/2019	9:15	6.04	84.83		
PLS-MW7d	9/27/2019	11:43	7.57	83.30		
PLS-MW7d	10/28/2019	12:06	7.09	83.78		
PLS-MW7d	11/12/2019	10:10	7.82	83.05		
PLS-MW7d	12/14/2019	12:14	7.49	83.38		
CAE-MW1s	1/29/2012	10:33	11.48	97.29	<|0.05|	0
CAE-MW1s	2/8/2012	13:08	11.40	97.37	<|0.05|	0
CAE-MW1s	3/5/2012	14:45	12.40	96.37	<|0.05|	0
CAE-MW1s	4/5/2012	12:19	11.85	96.92	<|0.05|	0
CAE-MW1s	5/10/2012	10:40	14.16	94.61	<|0.05|	0
CAE-MW1s	6/20/2012	14:34	14.66	94.11	<|0.05|	0
CAE-MW1s	7/11/2012	9:53	15.38	93.39	<|0.05|	0
CAE-MW1s	8/14/2012	16:02	15.30	93.47	<|0.05|	0
CAE-MW1s	9/18/2012	9:29	15.26	93.51	<|0.05|	0
CAE-MW1s	10/19/2012	13:50	14.80	93.97	<|0.05|	0
CAE-MW1s	12/4/2012	14:18	13.69	95.08	<|0.05|	0
CAE-MW1s	12/28/2012	15:00	13.29	95.48	<|0.05|	0
CAE-MW1s	1/16/2013	12:52	12.99	95.78	<|0.05|	0
CAE-MW1s	2/16/2013	16:54	14.80	93.97	<|0.05|	0
CAE-MW1s	3/21/2013	14:21	14.80	93.97	<|0.05|	0
CAE-MW1s	4/16/2013	16:23	14.03	94.74	<|0.05|	0
CAE-MW1s	5/30/2013	15:57	15.10	93.67	<|0.05|	0
CAE-MW1s	6/17/2013	10:13	15.92	92.85	<|0.05|	0
CAE-MW1s	7/16/2013	11:15	16.89	91.88	<|0.05|	0
CAE-MW1s	8/23/2013	14:04	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
CAE-MW1s	9/9/2013	17:14	Dry			
CAE-MW1s	10/7/2013	18:25	Dry			
CAE-MW1s	11/15/2013	12:24	Dry			
CAE-MW1s	12/17/2013	17:13	Dry			
CAE-MW1s	1/13/2014	16:42	Dry			
CAE-MW1s	2/24/2014	16:53	Dry			
CAE-MW1s	3/16/2014	17:26	Dry			
CAE-MW1s	4/19/2014	16:23	Dry			
CAE-MW1s	5/23/2014	11:31	Dry			
CAE-MW1s	6/19/2014	17:23	Dry			
CAE-MW1s	7/17/2014	15:45	Dry			
CAE-MW1s	8/25/2014	9:21	Dry			
CAE-MW1s	9/22/2014	16:51	Dry			
CAE-MW1s	10/14/2014	17:43	Dry			
CAE-MW1s	11/11/2014	13:12	Dry			
CAE-MW1s	12/15/2014	12:55	Dry			
CAE-MW1s	1/12/2015	20:27	Dry			
CAE-MW1s	2/10/2015	12:24	Dry			
CAE-MW1s	3/13/2015	16:05	Dry			
CAE-MW1s	4/17/2015	16:10	Dry			
CAE-MW1s	5/15/2015	13:06	Dry			
CAE-MW1s	6/5/2015	11:24	Dry			
CAE-MW1s	7/13/2015	16:56	Dry			
CAE-MW1s	8/18/2015	11:04	Dry			
CAE-MW1s	9/14/2015	11:31	Dry			
CAE-MW1s	10/16/2015	11:34	Dry			
CAE-MW1s	11/11/2015	15:23	Dry			
CAE-MW1s	12/23/2015	13:47	Dry			
CAE-MW1s	1/15/2016	14:25	Dry			
CAE-MW1s	2/18/2016	14:22	Dry			
CAE-MW1s	3/18/2016	17:28	Dry			
CAE-MW1s	4/18/2016	18:27	Dry			
CAE-MW1s	5/19/2016	8:50	Dry			
CAE-MW1s	6/16/2016	11:43	Dry			
CAE-MW1s	7/21/2016	17:53	Dry			
CAE-MW1s	8/18/2016	15:14	Dry			
CAE-MW1s	9/15/2016	13:32	Dry			
CAE-MW1s	10/14/2016	17:21	Dry			
CAE-MW1s	11/21/2016	14:42	Dry			
CAE-MW1s	12/12/2016	13:42	Dry			
CAE-MW1s	1/25/2017	13:16	Dry			
CAE-MW1s	2/1/2017		N/M			
CAE-MW1s	3/14/2017	15:53	16.59	92.18	<|0.05|	0
CAE-MW1s	4/20/2017	13:10	15.86	92.91	<|0.05|	0
CAE-MW1s	5/17/2017	16:09	15.09	93.68	<|0.05|	0
CAE-MW1s	6/24/2017	17:11	15.56	93.21	<|0.05|	0
CAE-MW1s	7/14/2017	17:03	16.32	92.45	<|0.05|	0
CAE-MW1s	8/25/2017	8:49	Dry			
CAE-MW1s	9/22/2017	14:00	16.64	92.13	<|0.05|	0
CAE-MW1s	10/19/2017	13:45	15.46	93.31	<|0.05|	0
CAE-MW1s	11/27/2017	9:22	14.85	93.92	<|0.05|	0
CAE-MW1s	12/21/2017	14:05	14.79	93.98	<|0.05|	0
CAE-MW1s	1/23/2018	13:53	15.07	93.70	<|0.05|	0
CAE-MW1s	2/16/2018	14:44	16.24	92.53	<|0.05|	0
CAE-MW1s	3/1/2018		N/M			
CAE-MW1s	4/24/2018	16:04	14.55	94.22	<|0.05|	0
CAE-MW1s	5/9/2018	12:52	13.99	94.78	<|0.05|	0
CAE-MW1s	6/13/2018	14:02	14.54	94.23	<|0.05|	0
CAE-MW1s	7/16/2018	12:03	15.40	93.37	<|0.05|	0
CAE-MW1s	8/23/2018	15:53	16.05	92.72	<|0.05|	0
CAE-MW1s	9/16/2018	15:44	16.00	92.77	<|0.05|	0
CAE-MW1s	10/25/2018	13:06	14.77	94.00	<|0.05|	0
CAE-MW1s	11/12/2018	13:40	14.48	94.29	<|0.05|	0
CAE-MW1s	12/15/2018	13:34	14.22	94.55	<|0.05|	0
CAE-MW1s	1/25/2019	16:50	13.94	94.83	<|0.05|	0
CAE-MW1s	2/20/2019	16:01	13.37	95.40	<|0.05|	0
CAE-MW1s	3/16/2019	14:44	12.55	96.22	-0.06	-0.00
CAE-MW1s	4/16/2019	12:24	12.20	96.57	<|0.05|	0
CAE-MW1s	5/17/2019	12:40	11.62	97.15	<|0.05|	0
CAE-MW1s	6/20/2019	13:51	11.90	96.87	<|0.05|	0
CAE-MW1s	7/18/2019	12:43	12.19	96.58	<|0.05|	0
CAE-MW1s	8/22/2019	11:26	12.54	96.23	<|0.05|	0
CAE-MW1s	9/27/2019	12:52	13.52	95.25	<|0.05|	0
CAE-MW1s	10/28/2019	14:08	12.96	95.81	<|0.05|	0
CAE-MW1s	11/11/2019	12:41	12.96	95.81	<|0.05|	0
CAE-MW1s	12/14/2019	11:17	13.14	95.63	<|0.05|	0
CAE-MW1d	1/29/2012	10:34	11.02	97.32		
CAE-MW1d	2/8/2012	13:09	10.96	97.38		
CAE-MW1d	3/5/2012	14:47	11.94	96.40		
CAE-MW1d	4/5/2012	12:21	11.40	96.94		
CAE-MW1d	5/10/2012	10:41	13.74	94.60		
CAE-MW1d	6/20/2012	14:35	14.20	94.14		
CAE-MW1d	7/11/2012	9:53	14.92	93.42		
CAE-MW1d	8/14/2012	16:02	14.88	93.46		
CAE-MW1d	9/18/2012	9:29	14.83	93.51		
CAE-MW1d	10/19/2012	13:50	14.35	93.99		
CAE-MW1d	12/4/2012	14:18	13.26	95.08		
CAE-MW1d	12/28/2012	15:01	12.84	95.50		
CAE-MW1d	1/16/2013	12:53	12.51	95.83		
CAE-MW1d	2/16/2013	16:55	14.35	93.99		
CAE-MW1d	3/21/2013	14:22	14.34	94.00		
CAE-MW1d	4/16/2013	16:23	13.56	94.78		
CAE-MW1d	5/30/2013	15:58	14.69	93.65		
CAE-MW1d	6/17/2013	14:14	15.51	92.83		
CAE-MW1d	7/16/2013	11:15	16.50	91.84		
CAE-MW1d	8/23/2013	14:04	17.23	91.11		
CAE-MW1d	9/9/2013	17:14	17.45	90.89		
CAE-MW1d	10/7/2013	18:25	17.97	90.37		
CAE-MW1d	11/15/2013	12:24	17.16	91.18		
CAE-MW1d	12/17/2013	17:13	16.57	91.77		
CAE-MW1d	1/13/2014	16:42	17.29	91.05		
CAE-MW1d	2/24/2014	16:53	18.25	90.09		
CAE-MW1d	3/16/2014	17:26	17.55	90.79		
CAE-MW1d	4/19/2014	16:23	17.53	90.81		
CAE-MW1d	5/23/2014	11:31	20.22	88.12		
CAE-MW1d	6/19/2014	17:23	21.76	86.58		
CAE-MW1d	7/17/2014	15:45	21.20	87.14		
CAE-MW1d	8/25/2014	9:21	22.30	86.04		
CAE-MW1d	9/22/2014	16:51	22.72	85.62		
CAE-MW1d	10/14/2014	17:43	22.45	85.89		
CAE-MW1d	11/11/2014	13:12	20.83	87.51		
CAE-MW1d	12/15/2014	12:55	19.72	88.62		
CAE-MW1d	1/12/2015	20:27	19.19	89.15		
CAE-MW1d	2/10/2015	12:24	20.19	88.15		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
CAE-MW1d	3/13/2015	16:05	21.26	87.08		
CAE-MW1d	4/17/2015	16:10	20.14	88.20		
CAE-MW1d	5/15/2015	13:06	21.88	86.46		
CAE-MW1d	6/5/2015	11:24	23.20	85.14		
CAE-MW1d	7/13/2015	16:56	24.77	83.57		
CAE-MW1d	8/18/2015	11:04	25.00	83.34		
CAE-MW1d	9/14/2015	11:32	25.05	83.29		
CAE-MW1d	10/16/2015	11:35	24.71	83.63		
CAE-MW1d	11/11/2015	15:24	22.97	85.37		
CAE-MW1d	12/23/2015	13:48	21.81	86.53		
CAE-MW1d	1/15/2016	14:26	21.38	86.96		
CAE-MW1d	2/18/2016	14:23	21.99	86.35		
CAE-MW1d	3/18/2016	17:28	21.35	86.99		
CAE-MW1d	4/18/2016	18:27	20.64	87.70		
CAE-MW1d	5/19/2016	8:51	20.25	88.09		
CAE-MW1d	6/16/2016	11:42	20.74	87.60		
CAE-MW1d	7/21/2016	17:53	22.96	85.38		
CAE-MW1d	8/18/2016	15:15	23.16	85.18		
CAE-MW1d	9/15/2016	13:22	22.18	86.16		
CAE-MW1d	10/14/2016	17:21	20.79	87.55		
CAE-MW1d	11/21/2016	14:42	18.30	90.04		
CAE-MW1d	12/12/2016	13:41	18.16	90.18		
CAE-MW1d	1/25/2017	13:17	17.97	90.37		
CAE-MW1d	2/1/2017		N/M			
CAE-MW1d	3/14/2017	15:54	16.14	92.20		
CAE-MW1d	4/20/2017	13:11	15.45	92.89		
CAE-MW1d	5/17/2017	16:10	14.65	93.69		
CAE-MW1d	6/24/2017	17:12	15.13	93.21		
CAE-MW1d	7/14/2017	17:04	15.90	92.44		
CAE-MW1d	8/25/2017	8:49	16.86	91.48		
CAE-MW1d	9/22/2017	14:01	16.19	92.15		
CAE-MW1d	10/19/2017	13:46	15.07	93.27		
CAE-MW1d	11/27/2017	9:22	14.46	93.88		
CAE-MW1d	12/21/2017	14:06	14.35	93.99		
CAE-MW1d	1/23/2018	13:54	14.63	93.71		
CAE-MW1d	2/16/2018	14:45	15.81	92.53		
CAE-MW1d	3/1/2018		N/M			
CAE-MW1d	4/24/2018	16:04	14.14	94.20		
CAE-MW1d	5/9/2018	12:52	13.53	94.81		
CAE-MW1d	6/13/2018	14:03	14.09	94.25		
CAE-MW1d	7/16/2018	12:04	14.96	93.38		
CAE-MW1d	8/23/2018	15:53	15.60	92.74		
CAE-MW1d	9/16/2018	15:44	15.55	92.79		
CAE-MW1d	10/25/2018	13:07	14.32	94.02		
CAE-MW1d	11/12/2018	13:41	14.05	94.29		
CAE-MW1d	12/15/2018	13:35	13.80	94.54		
CAE-MW1d	1/25/2019	16:51	13.50	94.84		
CAE-MW1d	2/20/2019	16:02	12.93	95.41		
CAE-MW1d	3/16/2019	14:44	12.06	96.28		
CAE-MW1d	4/16/2019	12:24	11.75	96.59		
CAE-MW1d	5/17/2019	12:40	11.18	97.16		
CAE-MW1d	6/20/2019	13:52	11.45	96.89		
CAE-MW1d	7/18/2019	12:43	11.73	96.61		
CAE-MW1d	8/22/2019	11:27	12.11	96.23		
CAE-MW1d	9/27/2019	12:52	13.12	95.22		
CAE-MW1d	10/28/2019	14:09	12.52	95.82		
CAE-MW1d	11/11/2019	12:41	12.50	95.84		
CAE-MW1d	12/14/2019	11:18	12.75	95.59		
CAE-MW2s	1/29/2012	10:37	11.55	96.55	<|0.05|	0
CAE-MW2s	2/8/2012	12:29	11.53	96.57	<|0.05|	0
CAE-MW2s	3/5/2012	14:49	11.76	96.34	<|0.05|	0
CAE-MW2s	4/5/2012	12:15	12.19	95.91	<|0.05|	0
CAE-MW2s	5/10/2012	11:20	13.34	94.76	<|0.05|	0
CAE-MW2s	6/20/2012	14:26	13.90	94.20	<|0.05|	0
CAE-MW2s	7/11/2012	9:47	14.43	93.67	<|0.05|	0
CAE-MW2s	8/14/2012	16:07	14.75	93.35	<|0.05|	0
CAE-MW2s	9/18/2012	9:23	14.77	93.33	<|0.05|	0
CAE-MW2s	10/19/2012	13:45	14.57	93.53	<|0.05|	0
CAE-MW2s	12/4/2012	14:12	13.85	94.25	<|0.05|	0
CAE-MW2s	12/28/2012	14:56	13.39	94.71	<|0.05|	0
CAE-MW2s	1/16/2013	12:46	13.08	95.02	<|0.05|	0
CAE-MW2s	2/16/2013	16:43	14.10	94.00	<|0.05|	0
CAE-MW2s	3/21/2013	14:17	14.54	93.56	<|0.05|	0
CAE-MW2s	4/16/2013	16:16	14.13	93.97	<|0.05|	0
CAE-MW2s	5/30/2013	15:46	14.67	93.43	<|0.05|	0
CAE-MW2s	6/17/2013	10:00	15.23	92.87	<|0.05|	0
CAE-MW2s	7/16/2013	11:23	16.18	91.92	<|0.05|	0
CAE-MW2s	8/23/2013	13:56	17.17	90.93	<|0.05|	0
CAE-MW2s	9/9/2013	17:20	Dry			
CAE-MW2s	10/7/2013	18:15	Dry			
CAE-MW2s	11/15/2013	12:22	Dry			
CAE-MW2s	12/17/2013	17:06	Dry			
CAE-MW2s	1/13/2014	16:35	Dry			
CAE-MW2s	2/24/2014	16:46	Dry			
CAE-MW2s	3/16/2014	17:19	Dry			
CAE-MW2s	4/19/2014	16:15	Dry			
CAE-MW2s	5/23/2014	11:24	Dry			
CAE-MW2s	6/19/2014	17:15	Dry			
CAE-MW2s	7/17/2014	15:38	Dry			
CAE-MW2s	8/25/2014	9:27	Dry			
CAE-MW2s	9/22/2014	16:43	Dry			
CAE-MW2s	10/14/2014	17:37	Dry			
CAE-MW2s	11/11/2014	13:16	Dry			
CAE-MW2s	12/15/2014	12:39	Dry			
CAE-MW2s	1/12/2015	20:21	Dry			
CAE-MW2s	2/10/2015	12:15	Dry			
CAE-MW2s	3/13/2015	16:11	Dry			
CAE-MW2s	4/17/2015	16:03	Dry			
CAE-MW2s	5/15/2015	12:56	Dry			
CAE-MW2s	6/5/2015	11:38	Dry			
CAE-MW2s	7/13/2015	16:53	Dry			
CAE-MW2s	8/18/2015	11:29	Dry			
CAE-MW2s	9/14/2015	11:21	Dry			
CAE-MW2s	10/16/2015	11:26	Dry			
CAE-MW2s	11/11/2015	15:16	Dry			
CAE-MW2s	12/23/2015	13:39	Dry			
CAE-MW2s	1/15/2016	14:31	Dry			
CAE-MW2s	2/18/2016	14:17	Dry			
CAE-MW2s	3/18/2016	17:21	Dry			
CAE-MW2s	4/18/2016	18:17	Dry			
CAE-MW2s	5/19/2016	8:44	Dry			
CAE-MW2s	6/16/2016	11:49	Dry			
CAE-MW2s	7/21/2016	17:45	Dry			
CAE-MW2s	8/18/2016	15:08	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
CAE-MW2s	9/15/2016	13:25	Dry			
CAE-MW2s	10/14/2016	17:16	Dry			
CAE-MW2s	11/21/2016	14:30	Dry			
CAE-MW2s	12/12/2016	13:46	Dry			
CAE-MW2s	1/25/2017	13:22	Dry			
CAE-MW2s	2/1/2017		N/M			
CAE-MW2s	3/14/2017	15:47	16.37	91.73	<|0.05|	0
CAE-MW2s	4/20/2017	13:15	15.85	92.25	<|0.05|	0
CAE-MW2s	5/17/2017	16:04	15.48	92.62	<|0.05|	0
CAE-MW2s	6/24/2017	17:05	15.25	92.85	<|0.05|	0
CAE-MW2s	7/14/2017	16:55	15.52	92.58	<|0.05|	0
CAE-MW2s	8/25/2017	8:45	15.95	92.15	<|0.05|	0
CAE-MW2s	9/22/2017	14:07	15.75	92.35	<|0.05|	0
CAE-MW2s	10/19/2017	13:51	15.04	93.06	<|0.05|	0
CAE-MW2s	11/27/2017	9:17	14.26	93.84	<|0.05|	0
CAE-MW2s	12/21/2017	14:11	14.34	93.76	<|0.05|	0
CAE-MW2s	1/23/2018	13:59	14.31	93.79	<|0.05|	0
CAE-MW2s	2/16/2018	14:38	15.16	92.94	<|0.05|	0
CAE-MW2s	3/1/2018		N/M			
CAE-MW2s	4/24/2018	15:56	14.83	93.27	<|0.05|	0
CAE-MW2s	5/9/2018	12:49	14.31	93.79	<|0.05|	0
CAE-MW2s	6/13/2018	14:11	13.94	94.16	<|0.05|	0
CAE-MW2s	7/16/2018	12:07	14.50	93.60	<|0.05|	0
CAE-MW2s	8/23/2018	15:48	14.71	93.39	<|0.05|	0
CAE-MW2s	9/16/2018	15:50	14.74	93.36	<|0.05|	0
CAE-MW2s	10/25/2018	13:12	14.00	94.10	<|0.05|	0
CAE-MW2s	11/12/2018	13:34	14.08	94.02	<|0.05|	0
CAE-MW2s	12/15/2018	13:29	14.00	94.10	<|0.05|	0
CAE-MW2s	1/25/2019	16:42	13.59	94.51	<|0.05|	0
CAE-MW2s	2/20/2019	15:56	13.12	94.98	<|0.05|	0
CAE-MW2s	3/16/2019	14:39	12.58	95.52	<|0.05|	0
CAE-MW2s	4/16/2019	12:18	12.27	95.83	<|0.05|	0
CAE-MW2s	5/17/2019	12:30	11.68	96.42	<|0.05|	0
CAE-MW2s	6/20/2019	13:58	11.52	96.58	<|0.05|	0
CAE-MW2s	7/18/2019	12:29	11.72	96.38	<|0.05|	0
CAE-MW2s	8/22/2019	11:09	12.24	95.86	<|0.05|	0
CAE-MW2s	9/27/2019	12:38	13.22	94.88	<|0.05|	0
CAE-MW2s	10/28/2019	14:00	12.53	95.57	<|0.05|	0
CAE-MW2s	11/11/2019	12:50	12.57	95.53	<|0.05|	0
CAE-MW2s	12/14/2019	11:22	12.74	95.36	<|0.05|	0
CAE-MW2d	1/29/2012	10:38	11.30	96.60		
CAE-MW2d	2/8/2012	12:30	11.33	96.57		
CAE-MW2d	3/5/2012	14:52	11.56	96.34		
CAE-MW2d	4/5/2012	12:16	11.97	95.93		
CAE-MW2d	5/10/2012	11:21	13.15	94.75		
CAE-MW2d	6/20/2012	14:27	13.73	94.17		
CAE-MW2d	7/11/2012	9:47	14.27	93.63		
CAE-MW2d	8/14/2012	16:07	14.60	93.30		
CAE-MW2d	9/18/2012	9:23	14.57	93.33		
CAE-MW2d	10/19/2012	13:45	14.37	93.53		
CAE-MW2d	12/4/2012	14:12	13.66	94.24		
CAE-MW2d	12/28/2012	14:57	13.19	94.71		
CAE-MW2d	1/16/2013	12:47	12.88	95.02		
CAE-MW2d	2/16/2013	16:45	13.95	93.95		
CAE-MW2d	3/21/2013	14:18	14.35	93.55		
CAE-MW2d	4/16/2013	16:16	13.94	93.96		
CAE-MW2d	5/30/2013	15:47	14.43	93.47		
CAE-MW2d	6/17/2013	10:02	15.04	92.86		
CAE-MW2d	7/16/2013	11:23	15.96	91.94		
CAE-MW2d	8/23/2013	13:56	16.95	90.95		
CAE-MW2d	9/9/2013	17:20	17.13	90.77		
CAE-MW2d	10/7/2013	18:15	17.48	90.42		
CAE-MW2d	11/15/2013	12:22	17.73	90.17		
CAE-MW2d	12/17/2013	17:06	17.22	90.68		
CAE-MW2d	1/13/2014	16:35	17.63	90.27		
CAE-MW2d	2/24/2014	16:46	18.34	89.56		
CAE-MW2d	3/16/2014	17:19	17.86	90.04		
CAE-MW2d	4/19/2014	16:15	18.23	89.67		
CAE-MW2d	5/23/2014	11:24	20.02	87.88		
CAE-MW2d	6/19/2014	17:15	21.22	86.68		
CAE-MW2d	7/17/2014	15:38	21.36	86.54		
CAE-MW2d	8/25/2014	9:27	21.90	86.00		
CAE-MW2d	9/22/2014	16:43	21.78	86.12		
CAE-MW2d	10/14/2014	17:37	21.43	86.47		
CAE-MW2d	11/11/2014	13:16	20.45	87.45		
CAE-MW2d	12/15/2014	12:39	19.52	88.38		
CAE-MW2d	1/12/2015	20:21	19.03	88.87		
CAE-MW2d	2/10/2015	12:15	19.68	88.22		
CAE-MW2d	3/13/2015	16:11	20.65	87.25		
CAE-MW2d	4/17/2015	16:03	20.29	87.61		
CAE-MW2d	5/15/2015	12:56	21.28	86.62		
CAE-MW2d	6/5/2015	11:38	22.28	85.62		
CAE-MW2d	7/13/2015	16:53	23.82	84.08		
CAE-MW2d	8/18/2015	11:30	23.90	84.00		
CAE-MW2d	9/14/2015	11:22	24.01	83.89		
CAE-MW2d	10/16/2015	11:27	23.56	84.34		
CAE-MW2d	11/11/2015	15:17	22.47	85.43		
CAE-MW2d	12/23/2015	13:40	21.62	86.28		
CAE-MW2d	1/15/2016	14:32	21.18	86.72		
CAE-MW2d	2/18/2016	14:16	21.55	86.35		
CAE-MW2d	3/18/2016	17:21	21.12	86.78		
CAE-MW2d	4/18/2016	18:17	20.62	87.28		
CAE-MW2d	5/19/2016	8:45	20.31	87.59		
CAE-MW2d	6/16/2016	11:50	21.05	86.85		
CAE-MW2d	7/21/2016	17:45	22.86	85.04		
CAE-MW2d	8/18/2016	15:09	22.68	85.22		
CAE-MW2d	9/15/2016	13:26	21.90	86.00		
CAE-MW2d	10/14/2016	17:16	20.69	87.21		
CAE-MW2d	11/21/2016	14:30	18.68	89.22		
CAE-MW2d	12/12/2016	13:47	18.40	89.50		
CAE-MW2d	1/25/2017	13:23	17.87	90.03		
CAE-MW2d	2/1/2017		N/M			
CAE-MW2d	3/14/2017	15:48	16.21	91.69		
CAE-MW2d	4/20/2017	13:16	15.65	92.25		
CAE-MW2d	5/17/2017	16:05	15.26	92.64		
CAE-MW2d	6/24/2017	17:06	15.05	92.85		
CAE-MW2d	7/14/2017	16:56	15.33	92.57		
CAE-MW2d	8/25/2017	8:45	15.74	92.16		
CAE-MW2d	9/22/2017	14:08	15.55	92.35		
CAE-MW2d	10/19/2017	13:52	14.82	93.08		
CAE-MW2d	11/27/2017	9:17	14.08	93.82		
CAE-MW2d	12/21/2017	14:12	14.13	93.77		
CAE-MW2d	1/23/2018	14:00	14.11	93.79		
CAE-MW2d	2/16/2018	14:39	14.98	92.92		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
CAE-MW2d	3/1/2018		N/M			
CAE-MW2d	4/24/2018	15:56	14.60	93.30		
CAE-MW2d	5/9/2018	12:49	14.08	93.82		
CAE-MW2d	6/13/2018	14:12	13.75	94.15		
CAE-MW2d	7/16/2018	12:08	14.30	93.60		
CAE-MW2d	8/23/2018	15:48	14.53	93.37		
CAE-MW2d	9/16/2018	15:50	14.55	93.35		
CAE-MW2d	10/25/2018	13:13	13.78	94.12		
CAE-MW2d	11/12/2018	13:35	13.86	94.04		
CAE-MW2d	12/15/2018	13:30	13.82	94.08		
CAE-MW2d	1/25/2019	16:43	13.39	94.51		
CAE-MW2d	2/20/2019	15:57	12.91	94.99		
CAE-MW2d	3/16/2019	14:39	12.36	95.54		
CAE-MW2d	4/16/2019	12:18	12.06	95.84		
CAE-MW2d	5/17/2019	12:30	11.48	96.42		
CAE-MW2d	6/20/2019	13:59	11.30	96.60		
CAE-MW2d	7/18/2019	12:29	11.52	96.38		
CAE-MW2d	8/22/2019	11:10	12.06	95.84		
CAE-MW2d	9/27/2019	12:38	13.02	94.88		
CAE-MW2d	10/28/2019	14:01	12.33	95.57		
CAE-MW2d	11/11/2019	12:50	12.35	95.55		
CAE-MW2d	12/14/2019	11:23	12.51	95.39		
CAE-MW3s	1/29/2012	10:44	11.22	96.14	<|0.05|	0
CAE-MW3s	2/8/2012	12:46	11.20	96.16	<|0.05|	0
CAE-MW3s	3/5/2012	14:53	11.71	95.65	<|0.05|	0
CAE-MW3s	4/5/2012	12:10	11.70	95.66	<|0.05|	0
CAE-MW3s	5/10/2012	11:40	13.61	93.75	<|0.05|	0
CAE-MW3s	6/20/2012	14:23	14.53	92.83	<|0.05|	0
CAE-MW3s	7/11/2012	9:45	15.50	91.86	0.98	0.08
CAE-MW3s	8/14/2012	16:04	15.75	91.61	<|0.05|	0
CAE-MW3s	9/18/2012	9:20	15.42	91.94	<|0.05|	0
CAE-MW3s	10/19/2012	13:40	14.99	92.37	<|0.05|	0
CAE-MW3s	12/4/2012	14:15	13.53	93.83	<|0.05|	0
CAE-MW3s	12/28/2012	14:50	12.99	94.37	<|0.05|	0
CAE-MW3s	1/16/2013	12:43	12.62	94.74	<|0.05|	0
CAE-MW3s	2/16/2013	16:41	14.33	93.03	<|0.05|	0
CAE-MW3s	3/21/2013	14:10	14.64	92.72	<|0.05|	0
CAE-MW3s	4/16/2013	16:13	14.10	93.26	<|0.05|	0
CAE-MW3s	5/30/2013	15:43	15.08	92.28	<|0.05|	0
CAE-MW3s	6/17/2013	10:04	16.05	91.31	<|0.05|	0
CAE-MW3s	7/16/2013	11:26	Dry			
CAE-MW3s	8/23/2013	13:54	Dry			
CAE-MW3s	9/9/2013	17:17	Dry			
CAE-MW3s	10/7/2013	18:12	Dry			
CAE-MW3s	11/15/2013	12:20	Dry			
CAE-MW3s	12/17/2013	17:04	Dry			
CAE-MW3s	1/13/2014	16:32	Dry			
CAE-MW3s	2/24/2014	16:44	Dry			
CAE-MW3s	3/16/2014	17:17	Dry			
CAE-MW3s	4/19/2014	16:11	Dry			
CAE-MW3s	5/23/2014	11:21	Dry			
CAE-MW3s	6/19/2014	17:12	Dry			
CAE-MW3s	7/17/2014	15:36	Dry			
CAE-MW3s	8/25/2014	9:31	Dry			
CAE-MW3s	9/22/2014	16:40	Dry			
CAE-MW3s	10/14/2014	17:35	Dry			
CAE-MW3s	11/11/2014	13:19	Dry			
CAE-MW3s	12/15/2014	12:36	Dry			
CAE-MW3s	1/12/2015	20:19	Dry			
CAE-MW3s	2/10/2015	12:12	Dry			
CAE-MW3s	3/13/2015	16:08	Dry			
CAE-MW3s	4/17/2015	16:01	Dry			
CAE-MW3s	5/15/2015	12:54	Dry			
CAE-MW3s	6/5/2015	11:42	Dry			
CAE-MW3s	7/13/2015	16:50	Dry			
CAE-MW3s	8/18/2015	11:35	Dry			
CAE-MW3s	9/14/2015	11:16	Dry			
CAE-MW3s	10/16/2015	11:22	Dry			
CAE-MW3s	11/11/2015	15:02	Dry			
CAE-MW3s	12/23/2015	13:36	Dry			
CAE-MW3s	1/15/2016	14:34	Dry			
CAE-MW3s	2/18/2016	14:20	Dry			
CAE-MW3s	3/18/2016	17:18	Dry			
CAE-MW3s	4/18/2016	18:15	Dry			
CAE-MW3s	5/19/2016	8:47	Dry			
CAE-MW3s	6/16/2016	11:46	Dry			
CAE-MW3s	7/21/2016	17:43	Dry			
CAE-MW3s	8/18/2016	15:05	Dry			
CAE-MW3s	9/15/2016	13:27	Dry			
CAE-MW3s	10/14/2016	17:11	Dry			
CAE-MW3s	11/21/2016	14:33	Dry			
CAE-MW3s	12/12/2016	13:45	Dry			
CAE-MW3s	1/25/2017	13:20	Dry			
CAE-MW3s	2/1/2017		N/M			
CAE-MW3s	3/14/2017	15:49	15.74	91.62	<|0.05|	0
CAE-MW3s	4/20/2017	13:14	15.08	92.28	<|0.05|	0
CAE-MW3s	5/17/2017	16:06	14.48	92.88	<|0.05|	0
CAE-MW3s	6/24/2017	17:03	14.49	92.87	<|0.05|	0
CAE-MW3s	7/14/2017	16:53	15.04	92.32	<|0.05|	0
CAE-MW3s	8/25/2017	8:43	15.86	91.50	<|0.05|	0
CAE-MW3s	9/22/2017	14:04	15.43	91.93	<|0.05|	0
CAE-MW3s	10/19/2017	13:48	14.36	93.00	<|0.05|	0
CAE-MW3s	11/27/2017	9:19	13.57	93.79	<|0.05|	0
CAE-MW3s	12/21/2017	14:13	13.65	93.71	<|0.05|	0
CAE-MW3s	1/23/2018	14:02	13.87	93.49	<|0.05|	0
CAE-MW3s	2/16/2018	14:40	15.02	92.34	<|0.05|	0
CAE-MW3s	3/1/2018		N/M			
CAE-MW3s	4/24/2018	15:53	13.96	93.40	<|0.05|	0
CAE-MW3s	5/9/2018	12:50	13.32	94.04	<|0.05|	0
CAE-MW3s	6/13/2018	14:13	13.37	93.99	<|0.05|	0
CAE-MW3s	7/16/2018	12:09	14.10	93.26	<|0.05|	0
CAE-MW3s	8/23/2018	15:50	14.46	92.90	<|0.05|	0
CAE-MW3s	9/16/2018	15:52	14.40	92.96	<|0.05|	0
CAE-MW3s	10/25/2018	13:14	13.50	93.86	<|0.05|	0
CAE-MW3s	11/12/2018	13:36	13.36	94.00	<|0.05|	0
CAE-MW3s	12/15/2018	13:27	13.25	94.11	<|0.05|	0
CAE-MW3s	1/25/2019	16:40	12.80	94.56	<|0.05|	0
CAE-MW3s	2/20/2019	15:58	12.30	95.06	<|0.05|	0
CAE-MW3s	3/16/2019	14:40	11.64	95.72	<|0.05|	0
CAE-MW3s	4/16/2019	12:15	11.12	96.24	<|0.05|	0
CAE-MW3s	5/17/2019	12:27	10.68	96.68	<|0.05|	0
CAE-MW3s	6/20/2019	13:55	10.95	96.41	<|0.05|	0
CAE-MW3s	7/18/2019	12:25	11.30	96.06	<|0.05|	0
CAE-MW3s	8/22/2019	11:12	11.91	95.45	0.06	0.00

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
CAE-MW3s	9/27/2019	12:35	12.87	94.49	<|0.05|	0
CAE-MW3s	10/28/2019	13:57	12.26	95.10	<|0.05|	0
CAE-MW3s	11/11/2019	12:47	12.14	95.22	<|0.05|	0
CAE-MW3s	12/14/2019	11:20	12.25	95.11	<|0.05|	0
CAE-MW3d	1/29/2012	10:45	11.12	96.14		
CAE-MW3d	2/8/2012	12:47	11.07	96.19		
CAE-MW3d	3/5/2012	14:57	11.61	95.65		
CAE-MW3d	4/5/2012	12:12	11.57	95.69		
CAE-MW3d	5/10/2012	11:41	13.55	93.71		
CAE-MW3d	6/20/2012	14:24	14.46	92.80		
CAE-MW3d	7/11/2012	9:45	16.38	90.88		
CAE-MW3d	8/14/2012	16:05	15.62	91.64		
CAE-MW3d	9/18/2012	9:20	15.31	91.95		
CAE-MW3d	10/19/2012	13:40	14.88	92.38		
CAE-MW3d	12/4/2012	14:15	13.41	93.85		
CAE-MW3d	12/28/2012	14:51	12.87	94.39		
CAE-MW3d	1/16/2013	12:44	12.51	94.75		
CAE-MW3d	2/16/2013	16:42	14.25	93.01		
CAE-MW3d	3/21/2013	14:11	14.55	92.71		
CAE-MW3d	4/16/2013	16:13	13.99	93.27		
CAE-MW3d	5/30/2013	15:44	14.98	92.28		
CAE-MW3d	6/17/2013	10:05	15.94	91.32		
CAE-MW3d	7/16/2013	11:26	17.39	89.87		
CAE-MW3d	8/23/2013	13:54	18.21	89.05		
CAE-MW3d	9/9/2013	17:17	18.20	89.06		
CAE-MW3d	10/7/2013	18:12	18.48	88.78		
CAE-MW3d	11/15/2013	12:20	17.90	89.36		
CAE-MW3d	12/17/2013	17:04	17.16	90.10		
CAE-MW3d	1/13/2014	16:32	17.75	89.51		
CAE-MW3d	2/24/2014	16:44	18.60	88.66		
CAE-MW3d	3/16/2014	17:17	17.80	89.46		
CAE-MW3d	4/19/2014	16:11	18.25	89.01		
CAE-MW3d	5/23/2014	11:21	21.12	86.14		
CAE-MW3d	6/19/2014	17:12	22.81	84.45		
CAE-MW3d	7/17/2014	15:36	22.63	84.63		
CAE-MW3d	8/25/2014	9:31	23.49	83.77		
CAE-MW3d	9/22/2014	16:40	23.16	84.10		
CAE-MW3d	10/14/2014	17:35	22.64	84.62		
CAE-MW3d	11/11/2014	13:19	20.96	86.30		
CAE-MW3d	12/15/2014	12:36	19.44	87.82		
CAE-MW3d	1/12/2015	20:19	18.93	88.33		
CAE-MW3d	2/10/2015	12:12	20.14	87.12		
CAE-MW3d	3/13/2015	16:08	21.31	85.95		
CAE-MW3d	4/17/2015	16:01	20.24	87.02		
CAE-MW3d	5/15/2015	12:54	22.09	85.17		
CAE-MW3d	6/5/2015	11:42	23.33	83.93		
CAE-MW3d	7/13/2015	16:50	24.93	82.33		
CAE-MW3d	8/18/2015	11:36	25.03	82.23		
CAE-MW3d	9/14/2015	11:17	24.58	82.68		
CAE-MW3d	10/16/2015	11:23	24.02	83.24		
CAE-MW3d	11/11/2015	15:03	22.43	84.83		
CAE-MW3d	12/23/2015	13:37	21.27	85.99		
CAE-MW3d	1/15/2016	14:35	20.80	86.46		
CAE-MW3d	2/18/2016	14:19	21.43	85.83		
CAE-MW3d	3/18/2016	17:18	20.93	86.33		
CAE-MW3d	4/18/2016	18:15	20.23	87.03		
CAE-MW3d	5/19/2016	8:48	19.85	87.41		
CAE-MW3d	6/16/2016	11:47	21.27	85.99		
CAE-MW3d	7/21/2016	17:43	23.40	83.86		
CAE-MW3d	8/18/2016	15:06	23.15	84.11		
CAE-MW3d	9/15/2016	13:28	22.20	85.06		
CAE-MW3d	10/14/2016	17:11	20.46	86.80		
CAE-MW3d	11/21/2016	14:33	18.23	89.03		
CAE-MW3d	12/12/2016	13:44	17.87	89.39		
CAE-MW3d	1/25/2017	13:21	17.34	89.92		
CAE-MW3d	2/1/2017		N/M			
CAE-MW3d	3/14/2017	15:50	15.66	91.60		
CAE-MW3d	4/20/2017	13:15	14.98	92.28		
CAE-MW3d	5/17/2017	16:07	14.35	92.91		
CAE-MW3d	6/24/2017	17:04	14.38	92.88		
CAE-MW3d	7/14/2017	16:54	14.94	92.32		
CAE-MW3d	8/25/2017	8:43	15.77	91.49		
CAE-MW3d	9/22/2017	14:05	15.33	91.93		
CAE-MW3d	10/19/2017	13:49	14.23	93.03		
CAE-MW3d	11/27/2017	9:19	13.49	93.77		
CAE-MW3d	12/21/2017	14:14	13.54	93.72		
CAE-MW3d	1/23/2018	14:03	13.80	93.46		
CAE-MW3d	2/16/2018	14:41	14.91	92.35		
CAE-MW3d	3/1/2018		N/M			
CAE-MW3d	4/24/2018	15:53	13.83	93.43		
CAE-MW3d	5/9/2018	12:50	13.21	94.05		
CAE-MW3d	6/13/2018	14:14	13.28	93.98		
CAE-MW3d	7/16/2018	12:10	14.02	93.24		
CAE-MW3d	8/23/2018	15:50	14.36	92.90		
CAE-MW3d	9/16/2018	15:52	14.31	92.95		
CAE-MW3d	10/25/2018	13:15	13.40	93.86		
CAE-MW3d	11/12/2018	13:37	13.25	94.01		
CAE-MW3d	12/15/2018	13:28	13.14	94.12		
CAE-MW3d	1/25/2019	16:41	12.69	94.57		
CAE-MW3d	2/20/2019	15:59	12.19	95.07		
CAE-MW3d	3/16/2019	14:40	11.50	95.76		
CAE-MW3d	4/16/2019	12:15	11.02	96.24		
CAE-MW3d	5/17/2019	12:27	10.55	96.71		
CAE-MW3d	6/20/2019	13:56	10.86	96.40		
CAE-MW3d	7/18/2019	12:25	11.20	96.06		
CAE-MW3d	8/22/2019	11:12	11.87	95.39		
CAE-MW3d	9/27/2019	12:35	12.78	94.48		
CAE-MW3d	10/28/2019	13:58	12.19	95.07		
CAE-MW3d	11/11/2019	12:47	12.06	95.20		
CAE-MW3d	12/14/2019	11:21	12.18	95.08		
CAE-MW4s	1/29/2012	10:47	12.12	97.29	<|0.05|	0
CAE-MW4s	2/8/2012	13:35	12.14	97.27	<|0.05|	0
CAE-MW4s	3/5/2012	14:58	12.37	97.04	<|0.05|	0
CAE-MW4s	4/5/2012	12:25	12.78	96.63	<|0.05|	0
CAE-MW4s	5/10/2012	10:55	13.67	95.74	<|0.05|	0
CAE-MW4s	6/20/2012	14:31	14.00	95.41	<|0.05|	0
CAE-MW4s	7/11/2012	9:50	14.45	94.96	<|0.05|	0
CAE-MW4s	8/14/2012	16:00	14.59	94.82	-0.08	-0.00
CAE-MW4s	9/18/2012	9:26	14.79	94.62	<|0.05|	0
CAE-MW4s	10/19/2012	13:56	14.76	94.65	<|0.05|	0
CAE-MW4s	12/4/2012	14:09	14.39	95.02	<|0.05|	0
CAE-MW4s	12/28/2012	15:07	13.97	95.44	<|0.05|	0
CAE-MW4s	1/16/2013	12:50	13.75	95.66	<|0.05|	0
CAE-MW4s	2/16/2013	16:51	14.64	94.77	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
CAE-MW4s	3/21/2013	14:18	15.02	94.39	<|0.05|	0
CAE-MW4s	4/16/2013	16:19	14.59	94.82	<|0.05|	0
CAE-MW4s	5/30/2013	15:53	14.86	94.55	<|0.05|	0
CAE-MW4s	6/17/2013	10:10	15.22	94.19	<|0.05|	0
CAE-MW4s	7/16/2013	11:10	15.83	93.58	<|0.05|	0
CAE-MW4s	8/23/2013	14:01	16.64	92.77	0.23	0.01
CAE-MW4s	9/9/2013	17:11	17.10	92.31	0.06	0.00
CAE-MW4s	10/7/2013	18:20	17.58	91.83	<|0.05|	0
CAE-MW4s	11/15/2013	12:26	18.08	91.33	<|0.05|	0
CAE-MW4s	12/17/2013	17:10	17.64	91.77	<|0.05|	0
CAE-MW4s	1/13/2014	16:38	17.98	91.43	<|0.05|	0
CAE-MW4s	2/24/2014	16:50	18.93	90.48	<|0.05|	0
CAE-MW4s	3/16/2014	17:23	18.55	90.86	<|0.05|	0
CAE-MW4s	4/19/2014	16:20	18.74	90.67	<|0.05|	0
CAE-MW4s	5/23/2014	11:28	20.16	89.25	<|0.05|	0
CAE-MW4s	6/19/2014	17:19	21.14	88.27	0.08	0.00
CAE-MW4s	7/17/2014	15:42	21.25	88.16	<|0.05|	0
CAE-MW4s	8/25/2014	9:17	21.78	87.63	<|0.05|	0
CAE-MW4s	9/22/2014	16:47	22.01	87.40	<|0.05|	0
CAE-MW4s	10/14/2014	17:41	21.80	87.61	<|0.05|	0
CAE-MW4s	11/11/2014	13:09	21.21	88.20	<|0.05|	0
CAE-MW4s	12/15/2014	12:47	20.52	88.89	<|0.05|	0
CAE-MW4s	1/12/2015	20:25	19.96	89.45	<|0.05|	0
CAE-MW4s	2/10/2015	12:19	20.51	88.90	0.07	0.00
CAE-MW4s	3/13/2015	16:03	21.32	88.09	<|0.05|	0
CAE-MW4s	4/17/2015	16:07	21.11	88.30	<|0.05|	0
CAE-MW4s	5/15/2015	13:00	21.81	87.60	0.11	0.01
CAE-MW4s	6/5/2015	11:29	Dry			
CAE-MW4s	7/13/2015	16:59	Dry			
CAE-MW4s	8/18/2015	11:01	Dry			
CAE-MW4s	9/14/2015	11:26	Dry			
CAE-MW4s	10/16/2015	11:30	Dry			
CAE-MW4s	11/11/2015	15:20	Dry			
CAE-MW4s	12/23/2015	13:44	22.79	86.62	<|0.05|	0
CAE-MW4s	1/15/2016	14:22	Dry			
CAE-MW4s	2/18/2016	14:24	Dry			
CAE-MW4s	3/18/2016	17:25	Dry			
CAE-MW4s	4/18/2016	18:23	21.80	87.61	<|0.05|	0
CAE-MW4s	5/19/2016	8:54	21.36	88.05	<|0.05|	0
CAE-MW4s	6/16/2016	11:39	21.68	87.73	<|0.05|	0
CAE-MW4s	7/21/2016	17:50	Dry			
CAE-MW4s	8/18/2016	15:11	Dry			
CAE-MW4s	9/15/2016	13:17	Dry			
CAE-MW4s	10/14/2016	17:26	21.70	87.71	<|0.05|	0
CAE-MW4s	11/21/2016	14:38	19.66	89.75	<|0.05|	0
CAE-MW4s	12/12/2016	13:37	19.45	89.96	<|0.05|	0
CAE-MW4s	1/25/2017	13:13	19.10	90.31	<|0.05|	0
CAE-MW4s	2/1/2017		N/M			
CAE-MW4s	3/14/2017	15:57	17.51	91.90	<|0.05|	0
CAE-MW4s	4/20/2017	13:07	16.90	92.51	<|0.05|	0
CAE-MW4s	5/17/2017	16:12	16.50	92.91	<|0.05|	0
CAE-MW4s	6/24/2017	17:08	16.41	93.00	<|0.05|	0
CAE-MW4s	7/14/2017	17:00	16.63	92.78	<|0.05|	0
CAE-MW4s	8/25/2017	8:45	17.05	92.36	<|0.05|	0
CAE-MW4s	9/22/2017	13:55	16.92	92.49	-0.05	-0.00
CAE-MW4s	10/19/2017	13:42	16.25	93.16	-0.06	-0.00
CAE-MW4s	11/27/2017	9:24	15.47	93.94	<|0.05|	0
CAE-MW4s	12/21/2017	14:02	15.50	93.91	<|0.05|	0
CAE-MW4s	1/23/2018	13:56	15.44	93.97	<|0.05|	0
CAE-MW4s	2/16/2018	14:47	16.19	93.22	<|0.05|	0
CAE-MW4s	3/1/2018		N/M			
CAE-MW4s	4/24/2018	16:01	15.73	93.68	<|0.05|	0
CAE-MW4s	5/9/2018	12:55	15.38	94.03	-0.06	-0.00
CAE-MW4s	6/13/2018	13:59	15.14	94.27	<|0.05|	0
CAE-MW4s	7/16/2018	12:00	15.55	93.86	<|0.05|	0
CAE-MW4s	8/23/2018	15:55	15.92	93.49	<|0.05|	0
CAE-MW4s	9/16/2018	15:46	15.98	93.43	<|0.05|	0
CAE-MW4s	10/25/2018	13:03	15.32	94.09	<|0.05|	0
CAE-MW4s	11/12/2018	13:42	15.17	94.24	<|0.05|	0
CAE-MW4s	12/15/2018	13:32	15.13	94.28	-0.06	-0.00
CAE-MW4s	1/25/2019	16:46	14.75	94.66	<|0.05|	0
CAE-MW4s	2/20/2019	16:03	14.32	95.09	<|0.05|	0
CAE-MW4s	3/16/2019	14:47	13.77	95.64	<|0.05|	0
CAE-MW4s	4/16/2019	12:21	13.40	96.01	<|0.05|	0
CAE-MW4s	5/17/2019	12:35	12.80	96.61	<|0.05|	0
CAE-MW4s	6/20/2019	13:46	12.64	96.77	<|0.05|	0
CAE-MW4s	7/18/2019	12:39	12.67	96.74	<|0.05|	0
CAE-MW4s	8/22/2019	11:20	13.07	96.34	<|0.05|	0
CAE-MW4s	9/27/2019	12:49	14.00	95.41	<|0.05|	0
CAE-MW4s	10/28/2019	14:04	13.40	96.01	<|0.05|	0
CAE-MW4s	11/11/2019	12:35	13.52	95.89	<|0.05|	0
CAE-MW4s	12/14/2019	11:13	13.72	95.69	<|0.05|	0
CAE-MW4d	1/29/2012	10:47	11.90	97.29		
CAE-MW4d	2/8/2012	13:36	11.91	97.28		
CAE-MW4d	3/5/2012	14:59	12.14	97.05		
CAE-MW4d	4/5/2012	12:27	12.57	96.62		
CAE-MW4d	5/10/2012	10:55	13.50	95.69		
CAE-MW4d	6/20/2012	14:32	13.79	95.40		
CAE-MW4d	7/11/2012	9:50	14.28	94.91		
CAE-MW4d	8/14/2012	16:00	14.29	94.90		
CAE-MW4d	9/18/2012	9:26	14.60	94.59		
CAE-MW4d	10/19/2012	13:56	14.54	94.65		
CAE-MW4d	12/4/2012	14:09	14.17	95.02		
CAE-MW4d	12/28/2012	15:08	13.76	95.43		
CAE-MW4d	1/16/2013	12:51	13.53	95.66		
CAE-MW4d	2/16/2013	16:52	14.44	94.75		
CAE-MW4d	3/21/2013	14:19	14.80	94.39		
CAE-MW4d	4/16/2013	16:19	14.35	94.84		
CAE-MW4d	5/30/2013	15:54	14.67	94.52		
CAE-MW4d	6/17/2013	10:11	15.02	94.17		
CAE-MW4d	7/16/2013	11:10	15.66	93.53		
CAE-MW4d	8/23/2013	14:01	16.65	92.54		
CAE-MW4d	9/9/2013	17:11	16.94	92.25		
CAE-MW4d	10/7/2013	18:20	17.39	91.80		
CAE-MW4d	11/15/2013	12:26	17.85	91.34		
CAE-MW4d	12/17/2013	17:10	17.39	91.80		
CAE-MW4d	1/13/2014	16:38	17.77	91.42		
CAE-MW4d	2/24/2014	16:50	18.72	90.47		
CAE-MW4d	3/16/2014	17:23	18.36	90.83		
CAE-MW4d	4/19/2014	16:20	18.53	90.66		
CAE-MW4d	5/23/2014	11:28	19.96	89.23		
CAE-MW4d	6/19/2014	17:19	21.00	88.19		
CAE-MW4d	7/17/2014	15:42	21.07	88.12		
CAE-MW4d	8/25/2014	9:17	21.60	87.59		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
CAE-MW4d	9/22/2014	16:47	21.80	87.39		
CAE-MW4d	10/14/2014	17:41	21.61	87.58		
CAE-MW4d	11/11/2014	13:09	21.00	88.19		
CAE-MW4d	12/15/2014	12:47	20.30	88.89		
CAE-MW4d	1/12/2015	20:25	19.76	89.43		
CAE-MW4d	2/10/2015	12:19	20.36	88.83		
CAE-MW4d	3/13/2015	16:03	21.08	88.11		
CAE-MW4d	4/17/2015	16:07	20.88	88.31		
CAE-MW4d	5/15/2015	13:00	21.70	87.49		
CAE-MW4d	6/5/2015	11:29	22.72	86.47		
CAE-MW4d	7/13/2015	16:59	24.12	85.07		
CAE-MW4d	8/18/2015	11:01	24.35	84.84		
CAE-MW4d	9/14/2015	11:27	24.66	84.53		
CAE-MW4d	10/16/2015	11:31	24.25	84.94		
CAE-MW4d	11/11/2015	15:21	23.30	85.89		
CAE-MW4d	12/23/2015	13:44	22.54	86.65		
CAE-MW4d	1/15/2016	14:23	22.14	87.05		
CAE-MW4d	2/18/2016	14:25	22.42	86.77		
CAE-MW4d	3/18/2016	17:25	22.10	87.09		
CAE-MW4d	4/18/2016	18:23	21.58	87.61		
CAE-MW4d	5/19/2016	8:55	21.18	88.01		
CAE-MW4d	6/16/2016	11:40	21.43	87.76		
CAE-MW4d	7/21/2016	17:50	23.11	86.08		
CAE-MW4d	8/18/2016	15:12	23.10	86.09		
CAE-MW4d	9/15/2016	13:18	22.32	86.87		
CAE-MW4d	10/14/2016	17:26	21.45	87.74		
CAE-MW4d	11/21/2016	14:38	19.45	89.74		
CAE-MW4d	12/12/2016	13:38	19.21	89.98		
CAE-MW4d	1/25/2017	13:14	18.90	90.29		
CAE-MW4d	2/1/2017		N/M			
CAE-MW4d	3/14/2017	15:58	17.27	91.92		
CAE-MW4d	4/20/2017	13:08	16.67	92.52		
CAE-MW4d	5/17/2017	16:13	16.24	92.95		
CAE-MW4d	6/24/2017	17:09	16.17	93.02		
CAE-MW4d	7/14/2017	17:01	16.45	92.74		
CAE-MW4d	8/25/2017	8:45	16.86	92.33		
CAE-MW4d	9/22/2017	13:56	16.65	92.54		
CAE-MW4d	10/19/2017	13:43	15.97	93.22		
CAE-MW4d	11/27/2017	9:24	15.26	93.93		
CAE-MW4d	12/21/2017	14:03	15.27	93.92		
CAE-MW4d	1/23/2018	13:57	15.22	93.97		
CAE-MW4d	2/16/2018	14:48	16.00	93.19		
CAE-MW4d	3/1/2018		N/M			
CAE-MW4d	4/24/2018	16:01	15.50	93.69		
CAE-MW4d	5/9/2018	12:55	15.10	94.09		
CAE-MW4d	6/13/2018	14:00	14.89	94.30		
CAE-MW4d	7/16/2018	12:01	15.35	93.84		
CAE-MW4d	8/23/2018	15:55	15.71	93.48		
CAE-MW4d	9/16/2018	15:46	15.79	93.40		
CAE-MW4d	10/25/2018	13:04	15.06	94.13		
CAE-MW4d	11/12/2018	13:43	14.94	94.25		
CAE-MW4d	12/15/2018	13:33	14.85	94.34		
CAE-MW4d	1/25/2019	16:47	14.50	94.69		
CAE-MW4d	2/20/2019	16:04	14.08	95.11		
CAE-MW4d	3/16/2019	14:48	13.52	95.67		
CAE-MW4d	4/16/2019	12:21	13.18	96.01		
CAE-MW4d	5/17/2019	12:35	12.55	96.64		
CAE-MW4d	6/20/2019	13:47	12.41	96.78		
CAE-MW4d	7/18/2019	12:39	12.47	96.72		
CAE-MW4d	8/22/2019	11:21	12.87	96.32		
CAE-MW4d	9/27/2019	12:49	13.78	95.41		
CAE-MW4d	10/28/2019	14:05	13.19	96.00		
CAE-MW4d	11/11/2019	12:35	13.32	95.87		
CAE-MW4d	12/14/2019	11:14	13.52	95.67		
CAE-MW5s	1/29/2012	10:49	8.73	99.77	<|0.05|	0
CAE-MW5s	2/8/2012	13:58	8.83	99.67	<|0.05|	0
CAE-MW5s	3/5/2012	15:03	8.90	99.60	<|0.05|	0
CAE-MW5s	4/5/2012	12:30	9.55	98.95	<|0.05|	0
CAE-MW5s	5/10/2012	10:18	9.50	99.00	<|0.05|	0
CAE-MW5s	6/20/2012	14:41	8.26	100.24	-0.58	-0.03
CAE-MW5s	7/11/2012	9:58	8.22	100.28	<|0.05|	0
CAE-MW5s	8/14/2012	16:10	8.20	100.30	<|0.05|	0
CAE-MW5s	9/18/2012	9:34	9.14	99.36	<|0.05|	0
CAE-MW5s	10/19/2012	14:00	9.71	98.79	<|0.05|	0
CAE-MW5s	12/4/2012	14:24	10.56	97.94	<|0.05|	0
CAE-MW5s	12/28/2012	15:13	10.30	98.20	<|0.05|	0
CAE-MW5s	1/16/2013	12:55	10.40	98.10	<|0.05|	0
CAE-MW5s	2/16/2013	16:59	10.80	97.70	<|0.05|	0
CAE-MW5s	3/21/2013	14:23	10.57	97.93	0.05	0.00
CAE-MW5s	4/16/2013	16:28	10.53	97.97	<|0.05|	0
CAE-MW5s	5/30/2013	16:07	9.52	98.98	0.08	0.00
CAE-MW5s	6/17/2013	10:18	9.30	99.20	<|0.05|	0
CAE-MW5s	7/16/2013	11:05	9.19	99.31	<|0.05|	0
CAE-MW5s	8/23/2013	14:11	10.48	98.02	<|0.05|	0
CAE-MW5s	9/9/2013	17:26	10.86	97.64	0.08	0.00
CAE-MW5s	10/7/2013	18:33	11.18	97.32	<|0.05|	0
CAE-MW5s	11/15/2013	12:28	12.83	95.67	<|0.05|	0
CAE-MW5s	12/17/2013	17:18	13.10	95.40	<|0.05|	0
CAE-MW5s	1/13/2014	16:48	13.54	94.96	-0.08	-0.00
CAE-MW5s	2/24/2014	16:57	14.43	94.07	<|0.05|	0
CAE-MW5s	3/16/2014	17:30	14.61	93.89	<|0.05|	0
CAE-MW5s	4/19/2014	16:27	14.43	94.07	<|0.05|	0
CAE-MW5s	5/23/2014	11:36	14.80	93.70	<|0.05|	0
CAE-MW5s	6/19/2014	17:27	14.54	93.96	0.08	0.00
CAE-MW5s	7/17/2014	15:50	14.83	93.67	0.06	0.00
CAE-MW5s	8/25/2014	9:14	15.15	93.35	<|0.05|	0
CAE-MW5s	9/22/2014	16:56	15.91	92.59	<|0.05|	0
CAE-MW5s	10/14/2014	17:47	16.02	92.48	<|0.05|	0
CAE-MW5s	11/11/2014	13:06	16.65	91.85	<|0.05|	0
CAE-MW5s	12/15/2014	13:00	17.00	91.50	<|0.05|	0
CAE-MW5s	1/12/2015	20:34	16.58	91.92	<|0.05|	0
CAE-MW5s	2/10/2015	12:28	16.70	91.80	<|0.05|	0
CAE-MW5s	3/13/2015	16:13	17.04	91.46	0.14	0.01
CAE-MW5s	4/17/2015	16:14	17.49	91.01	0.09	0.00
CAE-MW5s	5/15/2015	13:10	17.53	90.97	0.08	0.00
CAE-MW5s	6/5/2015	11:35	18.13	90.37	0.11	0.01
CAE-MW5s	7/13/2015	17:02	18.49	90.01	0.06	0.00
CAE-MW5s	8/18/2015	11:10	18.79	89.71	0.08	0.00
CAE-MW5s	9/14/2015	11:37	19.55	88.95	<|0.05|	0
CAE-MW5s	10/16/2015	11:39	19.71	88.79	<|0.05|	0
CAE-MW5s	11/11/2015	15:29	19.78	88.72	<|0.05|	0
CAE-MW5s	12/23/2015	13:53	19.78	88.72	<|0.05|	0
CAE-MW5s	1/15/2016	14:14	19.74	88.76	<|0.05|	0
CAE-MW5s	2/18/2016	14:29	19.70	88.80	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
CAE-MW5s	3/18/2016	17:33	19.63	88.87	<|0.05|	0
CAE-MW5s	4/18/2016	18:31	19.18	89.32	<|0.05|	0
CAE-MW5s	5/19/2016	8:57	18.74	89.76	<|0.05|	0
CAE-MW5s	6/16/2016	11:36	17.68	90.82	<|0.05|	0
CAE-MW5s	7/21/2016	17:59	17.95	90.55	0.06	0.00
CAE-MW5s	8/18/2016	15:19	17.69	90.81	<|0.05|	0
CAE-MW5s	9/15/2016	13:14	17.85	90.65	0.05	0.00
CAE-MW5s	10/14/2016	17:31	18.39	90.11	<|0.05|	0
CAE-MW5s	11/21/2016	14:20	16.61	91.89	<|0.05|	0
CAE-MW5s	12/12/2016	13:30	16.84	91.66	<|0.05|	0
CAE-MW5s	1/25/2017	13:09	16.79	91.71	<|0.05|	0
CAE-MW5s	2/1/2017		N/M			
CAE-MW5s	3/14/2017	16:05	15.25	93.25	<|0.05|	0
CAE-MW5s	4/20/2017	13:04	14.95	93.55	<|0.05|	0
CAE-MW5s	5/17/2017	16:16	14.53	93.97	<|0.05|	0
CAE-MW5s	6/24/2017	17:15	13.88	94.62	<|0.05|	0
CAE-MW5s	7/14/2017	17:07	13.78	94.72	<|0.05|	0
CAE-MW5s	8/25/2017	8:52	14.22	94.28	<|0.05|	0
CAE-MW5s	9/22/2017	13:51	14.50	94.00	<|0.05|	0
CAE-MW5s	10/19/2017	13:39	14.12	94.38	<|0.05|	0
CAE-MW5s	11/27/2017	9:26	13.76	94.74	<|0.05|	0
CAE-MW5s	12/21/2017	13:55	13.84	94.66	<|0.05|	0
CAE-MW5s	1/23/2018	13:44	13.63	94.87	<|0.05|	0
CAE-MW5s	2/16/2018	14:51	14.04	94.46	<|0.05|	0
CAE-MW5s	3/1/2018		N/M			
CAE-MW5s	4/24/2018	16:09	13.61	94.89	<|0.05|	0
CAE-MW5s	5/9/2018	12:58	13.16	95.34	<|0.05|	0
CAE-MW5s	6/13/2018	13:56	12.70	95.80	<|0.05|	0
CAE-MW5s	7/16/2018	11:57	12.84	95.66	<|0.05|	0
CAE-MW5s	8/23/2018	15:59	12.96	95.54	0.82	0.05
CAE-MW5s	9/16/2018	15:36	13.59	94.91	<|0.05|	0
CAE-MW5s	10/25/2018	13:00	13.39	95.11	<|0.05|	0
CAE-MW5s	11/12/2018	13:46	13.20	95.30	<|0.05|	0
CAE-MW5s	12/15/2018	13:39	13.27	95.23	<|0.05|	0
CAE-MW5s	1/25/2019	16:55	13.03	95.47	<|0.05|	0
CAE-MW5s	2/20/2019	16:06	12.37	96.13	<|0.05|	0
CAE-MW5s	3/16/2019	14:50	12.04	96.46	<|0.05|	0
CAE-MW5s	4/16/2019	12:29	11.97	96.53	<|0.05|	0
CAE-MW5s	5/17/2019	12:50	10.82	97.68	<|0.05|	0
CAE-MW5s	6/20/2019	13:40	10.27	98.23	<|0.05|	0
CAE-MW5s	7/18/2019	12:33	10.26	98.24	<|0.05|	0
CAE-MW5s	8/22/2019	11:34	10.63	97.87	<|0.05|	0
CAE-MW5s	9/27/2019	12:46	11.80	96.70	<|0.05|	0
CAE-MW5s	10/28/2019	14:14	11.06	97.44	<|0.05|	0
CAE-MW5s	11/11/2019	13:00	11.32	97.18	<|0.05|	0
CAE-MW5s	12/14/2019	11:08	11.48	97.02	<|0.05|	0
CAE-MW5d	1/29/2012	10:50	8.32	99.77		
CAE-MW5d	2/8/2012	13:59	8.42	99.67		
CAE-MW5d	3/5/2012	15:05	8.52	99.57		
CAE-MW5d	4/5/2012	12:31	9.13	98.96		
CAE-MW5d	5/10/2012	10:20	9.13	98.96		
CAE-MW5d	6/20/2012	14:42	7.27	100.82		
CAE-MW5d	7/11/2012	9:58	7.85	100.24		
CAE-MW5d	8/14/2012	16:11	7.83	100.26		
CAE-MW5d	9/18/2012	9:34	8.78	99.31		
CAE-MW5d	10/19/2012	14:00	9.31	98.78		
CAE-MW5d	12/4/2012	14:24	10.19	97.90		
CAE-MW5d	12/28/2012	15:14	9.90	98.19		
CAE-MW5d	1/16/2013	12:56	10.01	98.08		
CAE-MW5d	2/16/2013	17:00	10.40	97.69		
CAE-MW5d	3/21/2013	14:24	10.21	97.88		
CAE-MW5d	4/16/2013	16:28	10.16	97.93		
CAE-MW5d	5/30/2013	16:08	9.19	98.90		
CAE-MW5d	6/17/2013	10:20	8.90	99.19		
CAE-MW5d	7/16/2013	11:05	8.80	99.29		
CAE-MW5d	8/23/2013	14:11	10.12	97.97		
CAE-MW5d	9/9/2013	17:26	10.53	97.56		
CAE-MW5d	10/7/2013	18:33	10.82	97.27		
CAE-MW5d	11/15/2013	12:28	12.42	95.67		
CAE-MW5d	12/17/2013	17:18	12.68	95.41		
CAE-MW5d	1/13/2014	16:48	13.05	95.04		
CAE-MW5d	2/24/2014	16:57	14.05	94.04		
CAE-MW5d	3/16/2014	17:30	14.20	93.89		
CAE-MW5d	4/19/2014	16:27	14.03	94.06		
CAE-MW5d	5/23/2014	11:36	14.43	93.66		
CAE-MW5d	6/19/2014	17:27	14.21	93.88		
CAE-MW5d	7/17/2014	15:50	14.48	93.61		
CAE-MW5d	8/25/2014	9:14	14.78	93.31		
CAE-MW5d	9/22/2014	16:56	15.53	92.56		
CAE-MW5d	10/14/2014	17:47	15.63	92.46		
CAE-MW5d	11/11/2014	13:06	16.28	91.81		
CAE-MW5d	12/15/2014	13:00	16.62	91.47		
CAE-MW5d	1/12/2015	20:34	16.15	91.94		
CAE-MW5d	2/10/2015	12:28	16.34	91.75		
CAE-MW5d	3/13/2015	16:13	16.77	91.32		
CAE-MW5d	4/17/2015	16:14	17.17	90.92		
CAE-MW5d	5/15/2015	13:10	17.20	90.89		
CAE-MW5d	6/5/2015	11:35	17.83	90.26		
CAE-MW5d	7/13/2015	17:03	18.14	89.95		
CAE-MW5d	8/18/2015	11:10	18.46	89.63		
CAE-MW5d	9/14/2015	11:38	19.19	88.90		
CAE-MW5d	10/16/2015	11:40	19.33	88.76		
CAE-MW5d	11/11/2015	15:30	19.40	88.69		
CAE-MW5d	12/23/2015	13:54	19.38	88.71		
CAE-MW5d	1/15/2016	14:15	19.34	88.75		
CAE-MW5d	2/18/2016	14:28	19.31	88.78		
CAE-MW5d	3/18/2016	17:33	19.22	88.87		
CAE-MW5d	4/18/2016	18:31	18.73	89.36		
CAE-MW5d	5/19/2016	8:58	18.28	89.81		
CAE-MW5d	6/16/2016	11:35	17.30	90.79		
CAE-MW5d	7/21/2016	17:59	17.60	90.49		
CAE-MW5d	8/18/2016	15:18	17.30	90.79		
CAE-MW5d	9/15/2016	13:15	17.49	90.60		
CAE-MW5d	10/14/2016	17:31	18.00	90.09		
CAE-MW5d	11/21/2016	14:20	16.25	91.84		
CAE-MW5d	12/12/2016	13:31	16.48	91.61		
CAE-MW5d	1/25/2017	13:10	16.37	91.72		
CAE-MW5d	2/1/2017		N/M			
CAE-MW5d	3/14/2017	16:05	14.89	93.20		
CAE-MW5d	4/20/2017	13:05	14.53	93.56		
CAE-MW5d	5/17/2017	16:17	14.11	93.98		
CAE-MW5d	6/24/2017	17:16	13.47	94.62		
CAE-MW5d	7/14/2017	17:08	13.35	94.74		
CAE-MW5d	8/25/2017	8:52	13.83	94.26		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
CAE-MW5d	9/22/2017	13:52	14.13	93.96		
CAE-MW5d	10/19/2017	13:38	13.72	94.37		
CAE-MW5d	11/27/2017	9:26	13.35	94.74		
CAE-MW5d	12/21/2017	13:56	13.45	94.64		
CAE-MW5d	1/23/2018	13:45	13.22	94.87		
CAE-MW5d	2/16/2018	14:52	13.64	94.45		
CAE-MW5d	3/1/2018		N/M			
CAE-MW5d	4/24/2018	16:09	13.22	94.87		
CAE-MW5d	5/9/2018	12:58	12.74	95.35		
CAE-MW5d	6/13/2018	13:57	12.30	95.79		
CAE-MW5d	7/16/2018	11:58	12.43	95.66		
CAE-MW5d	8/23/2018	15:59	13.37	94.72		
CAE-MW5d	9/16/2018	15:36	13.18	94.91		
CAE-MW5d	10/25/2018	13:01	12.97	95.12		
CAE-MW5d	11/12/2018	13:47	12.77	95.32		
CAE-MW5d	12/15/2018	13:40	12.85	95.24		
CAE-MW5d	1/25/2019	16:56	12.61	95.48		
CAE-MW5d	2/20/2019	16:07	11.96	96.13		
CAE-MW5d	3/16/2019	14:51	11.63	96.46		
CAE-MW5d	4/16/2019	12:29	11.57	96.52		
CAE-MW5d	5/17/2019	12:50	10.38	97.71		
CAE-MW5d	6/20/2019	13:41	9.86	98.23		
CAE-MW5d	7/18/2019	12:33	9.85	98.24		
CAE-MW5d	8/22/2019	11:35	10.25	97.84		
CAE-MW5d	9/27/2019	12:46	11.40	96.69		
CAE-MW5d	10/28/2019	14:15	10.65	97.44		
CAE-MW5d	11/11/2019	13:00	10.92	97.17		
CAE-MW5d	12/14/2019	11:09	11.08	97.01		
CAE-MW6s	1/29/2012	10:53	11.00	100.55	<|0.05|	0
CAE-MW6s	2/9/2012	9:50	11.15	100.40	<|0.05|	0
CAE-MW6s	3/5/2012	15:08	11.47	100.08	<|0.05|	0
CAE-MW6s	4/5/2012	12:36	11.82	99.73	<|0.05|	0
CAE-MW6s	5/10/2012	10:00	11.64	99.91	<|0.05|	0
CAE-MW6s	6/20/2012	14:44	9.83	101.72	<|0.05|	0
CAE-MW6s	7/11/2012	10:00	9.85	101.70	<|0.05|	0
CAE-MW6s	8/14/2012	16:13	10.04	101.51	<|0.05|	0
CAE-MW6s	9/18/2012	9:37	10.98	100.57	<|0.05|	0
CAE-MW6s	10/19/2012	14:05	11.55	100.00	<|0.05|	0
CAE-MW6s	12/4/2012	14:21	12.74	98.81	<|0.05|	0
CAE-MW6s	12/28/2012	15:18	12.55	99.00	<|0.05|	0
CAE-MW6s	1/16/2013	13:00	12.73	98.82	<|0.05|	0
CAE-MW6s	2/16/2013	17:02	13.11	98.44	<|0.05|	0
CAE-MW6s	3/21/2013	14:30	12.61	98.94	<|0.05|	0
CAE-MW6s	4/16/2013	16:32	12.83	98.72	<|0.05|	0
CAE-MW6s	5/30/2013	16:12	11.79	99.76	<|0.05|	0
CAE-MW6s	6/17/2013	10:21	11.35	100.20	<|0.05|	0
CAE-MW6s	7/16/2013	11:03	11.12	100.43	<|0.05|	0
CAE-MW6s	8/23/2013	14:14	12.32	99.23	<|0.05|	0
CAE-MW6s	9/9/2013	17:30	12.77	98.78	<|0.05|	0
CAE-MW6s	10/7/2013	18:37	13.04	98.51	0.10	0.01
CAE-MW6s	11/15/2013	12:30	14.71	96.84	<|0.05|	0
CAE-MW6s	12/17/2013	17:21	15.11	96.44	<|0.05|	0
CAE-MW6s	1/13/2014	16:50	15.64	95.91	<|0.05|	0
CAE-MW6s	2/24/2014	17:00	16.53	95.02	<|0.05|	0
CAE-MW6s	3/16/2014	17:33	16.75	94.80	<|0.05|	0
CAE-MW6s	4/19/2014	16:30	16.63	94.92	<|0.05|	0
CAE-MW6s	5/23/2014	11:40	16.84	94.71	0.07	0.00
CAE-MW6s	6/19/2014	17:31	16.72	94.83	<|0.05|	0
CAE-MW6s	7/17/2014	15:52	17.03	94.52	<|0.05|	0
CAE-MW6s	8/25/2014	9:11	17.32	94.23	<|0.05|	0
CAE-MW6s	9/22/2014	17:01	18.03	93.52	<|0.05|	0
CAE-MW6s	10/14/2014	17:51	18.30	93.25	<|0.05|	0
CAE-MW6s	11/11/2014	13:04	18.85	92.70	0.07	0.00
CAE-MW6s	12/15/2014	13:04	19.39	92.16	<|0.05|	0
CAE-MW6s	1/12/2015	20:38	19.02	92.53	<|0.05|	0
CAE-MW6s	2/10/2015	12:32	19.18	92.37	<|0.05|	0
CAE-MW6s	3/13/2015	16:16	19.57	91.98	<|0.05|	0
CAE-MW6s	4/17/2015	16:18	20.02	91.53	<|0.05|	0
CAE-MW6s	5/15/2015	13:13	20.10	91.45	<|0.05|	0
CAE-MW6s	6/5/2015	11:32	20.53	91.02	<|0.05|	0
CAE-MW6s	7/13/2015	17:05	20.70	90.85	<|0.05|	0
CAE-MW6s	8/18/2015	11:22	21.06	90.49	<|0.05|	0
CAE-MW6s	9/14/2015	11:42	Dry			
CAE-MW6s	10/16/2015	11:43	22.00	89.55	<|0.05|	0
CAE-MW6s	11/11/2015	15:31	Dry			
CAE-MW6s	12/23/2015	13:56	22.36	89.19	<|0.05|	0
CAE-MW6s	1/15/2016	14:17	Dry			
CAE-MW6s	2/18/2016	14:30	Dry			
CAE-MW6s	3/18/2016	17:37	Dry			
CAE-MW6s	4/18/2016	18:35	21.83	89.72	<|0.05|	0
CAE-MW6s	5/19/2016	8:59	21.47	90.08	<|0.05|	0
CAE-MW6s	6/16/2016	11:33	20.46	91.09	<|0.05|	0
CAE-MW6s	7/21/2016	18:02	20.53	91.02	<|0.05|	0
CAE-MW6s	8/18/2016	15:22	20.37	91.18	<|0.05|	0
CAE-MW6s	9/15/2016	13:11	20.45	91.10	<|0.05|	0
CAE-MW6s	10/14/2016	17:35	21.02	90.53	<|0.05|	0
CAE-MW6s	11/21/2016	14:23	19.45	92.10	<|0.05|	0
CAE-MW6s	12/12/2016	13:33	19.68	91.87	<|0.05|	0
CAE-MW6s	1/25/2017	13:05	19.67	91.88	<|0.05|	0
CAE-MW6s	2/1/2017		N/M			
CAE-MW6s	3/14/2017	16:07	18.09	93.46	<|0.05|	0
CAE-MW6s	4/20/2017	13:01	17.76	93.79	<|0.05|	0
CAE-MW6s	5/17/2017	16:18	17.44	94.11	<|0.05|	0
CAE-MW6s	6/24/2017	17:18	16.86	94.69	<|0.05|	0
CAE-MW6s	7/14/2017	17:10	16.73	94.82	<|0.05|	0
CAE-MW6s	8/25/2017	8:55	16.97	94.58	<|0.05|	0
CAE-MW6s	9/22/2017	13:49	17.28	94.27	<|0.05|	0
CAE-MW6s	10/19/2017	13:36	16.96	94.59	<|0.05|	0
CAE-MW6s	11/27/2017	9:28	16.65	94.90	<|0.05|	0
CAE-MW6s	12/21/2017	13:58	16.81	94.74	<|0.05|	0
CAE-MW6s	1/23/2018	13:47	16.65	94.90	<|0.05|	0
CAE-MW6s	2/16/2018	14:57	16.95	94.60	<|0.05|	0
CAE-MW6s	3/1/2018		N/M			
CAE-MW6s	4/24/2018	16:12	16.51	95.04	<|0.05|	0
CAE-MW6s	5/9/2018	13:00	16.06	95.49	<|0.05|	0
CAE-MW6s	6/13/2018	13:53	15.60	95.95	<|0.05|	0
CAE-MW6s	7/16/2018	11:55	15.61	95.94	0.23	0.01
CAE-MW6s	8/23/2018	16:00	16.23	95.32	<|0.05|	0
CAE-MW6s	9/16/2018	15:33	16.40	95.15	<|0.05|	0
CAE-MW6s	10/25/2018	12:57	16.19	95.36	<|0.05|	0
CAE-MW6s	11/12/2018	13:48	15.95	95.60	0.06	0.00
CAE-MW6s	12/15/2018	13:41	16.14	95.41	<|0.05|	0
CAE-MW6s	1/25/2019	16:58	15.99	95.56	<|0.05|	0
CAE-MW6s	2/20/2019	16:08	15.34	96.21	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
CAE-MW6s	3/16/2019	14:52	15.02	96.53	<|0.05|	0
CAE-MW6s	4/16/2019	12:40	14.95	96.60	<|0.05|	0
CAE-MW6s	5/17/2019	12:46	13.89	97.66	<|0.05|	0
CAE-MW6s	6/20/2019	13:43	13.48	98.07	<|0.05|	0
CAE-MW6s	7/18/2019	12:37	13.60	97.95	<|0.05|	0
CAE-MW6s	8/22/2019	11:38	13.80	97.75	<|0.05|	0
CAE-MW6s	9/27/2019	12:41	14.83	96.72	<|0.05|	0
CAE-MW6s	10/28/2019	14:18	14.10	97.45	<|0.05|	0
CAE-MW6s	11/11/2019	12:55	14.25	97.30	<|0.05|	0
CAE-MW6s	12/14/2019	11:10	14.40	97.15	<|0.05|	0
CAE-MW6d	1/29/2012	10:53	10.85	100.57		
CAE-MW6d	2/9/2012	9:51	11.03	100.39		
CAE-MW6d	3/5/2012	15:10	11.37	100.05		
CAE-MW6d	4/5/2012	12:37	11.70	99.72		
CAE-MW6d	5/10/2012	10:00	11.53	99.89		
CAE-MW6d	6/20/2012	14:45	9.73	101.69		
CAE-MW6d	7/11/2012	10:00	9.74	101.68		
CAE-MW6d	8/14/2012	16:14	9.92	101.50		
CAE-MW6d	9/18/2012	9:37	10.88	100.54		
CAE-MW6d	10/19/2012	14:05	11.42	100.00		
CAE-MW6d	12/4/2012	14:21	12.61	98.81		
CAE-MW6d	12/28/2012	15:19	12.44	98.98		
CAE-MW6d	1/16/2013	13:01	12.62	98.80		
CAE-MW6d	2/16/2013	17:03	13.00	98.42		
CAE-MW6d	3/21/2013	14:31	12.50	98.92		
CAE-MW6d	4/16/2013	16:32	12.72	98.70		
CAE-MW6d	5/30/2013	16:13	11.67	99.75		
CAE-MW6d	6/17/2013	10:22	11.23	100.19		
CAE-MW6d	7/16/2013	11:03	11.00	100.42		
CAE-MW6d	8/23/2013	14:14	12.19	99.23		
CAE-MW6d	9/9/2013	17:30	12.67	98.75		
CAE-MW6d	10/7/2013	18:37	13.01	98.41		
CAE-MW6d	11/15/2013	12:30	14.58	96.84		
CAE-MW6d	12/17/2013	17:21	14.99	96.43		
CAE-MW6d	1/13/2014	16:50	15.53	95.89		
CAE-MW6d	2/24/2014	17:00	16.41	95.01		
CAE-MW6d	3/16/2014	17:33	16.64	94.78		
CAE-MW6d	4/19/2014	16:30	16.50	94.92		
CAE-MW6d	5/23/2014	11:40	16.78	94.64		
CAE-MW6d	6/19/2014	17:31	16.60	94.82		
CAE-MW6d	7/17/2014	15:52	16.90	94.52		
CAE-MW6d	8/25/2014	9:11	17.20	94.22		
CAE-MW6d	9/22/2014	17:01	17.90	93.52		
CAE-MW6d	10/14/2014	17:51	18.16	93.26		
CAE-MW6d	11/11/2014	13:04	18.79	92.63		
CAE-MW6d	12/15/2014	13:04	19.26	92.16		
CAE-MW6d	1/12/2015	20:38	18.93	92.49		
CAE-MW6d	2/10/2015	12:32	19.01	92.41		
CAE-MW6d	3/13/2015	16:16	19.45	91.97		
CAE-MW6d	4/17/2015	16:18	19.89	91.53		
CAE-MW6d	5/15/2015	13:13	20.00	91.42		
CAE-MW6d	6/5/2015	11:32	20.40	91.02		
CAE-MW6d	7/13/2015	17:06	20.58	90.84		
CAE-MW6d	8/18/2015	11:23	20.95	90.47		
CAE-MW6d	9/14/2015	11:43	21.65	89.77		
CAE-MW6d	10/16/2015	11:44	21.89	89.53		
CAE-MW6d	11/11/2015	15:32	22.09	89.33		
CAE-MW6d	12/23/2015	13:57	22.26	89.16		
CAE-MW6d	1/15/2016	14:18	22.30	89.12		
CAE-MW6d	2/18/2016	14:31	22.29	89.13		
CAE-MW6d	3/18/2016	17:37	22.18	89.24		
CAE-MW6d	4/18/2016	18:35	21.73	89.69		
CAE-MW6d	5/19/2016	9:00	21.35	90.07		
CAE-MW6d	6/16/2016	11:34	20.34	91.08		
CAE-MW6d	7/21/2016	18:02	20.40	91.02		
CAE-MW6d	8/18/2016	15:21	20.25	91.17		
CAE-MW6d	9/15/2016	13:12	20.33	91.09		
CAE-MW6d	10/14/2016	17:35	20.90	90.52		
CAE-MW6d	11/21/2016	14:23	19.33	92.09		
CAE-MW6d	12/12/2016	13:34	19.58	91.84		
CAE-MW6d	1/25/2017	13:06	19.55	91.87		
CAE-MW6d	2/1/2017		N/M			
CAE-MW6d	3/14/2017	16:08	17.95	93.47		
CAE-MW6d	4/20/2017	13:02	17.62	93.80		
CAE-MW6d	5/17/2017	16:19	17.32	94.10		
CAE-MW6d	6/24/2017	17:19	16.73	94.69		
CAE-MW6d	7/14/2017	17:11	16.60	94.82		
CAE-MW6d	8/25/2017	8:55	16.85	94.57		
CAE-MW6d	9/22/2017	13:50	17.15	94.27		
CAE-MW6d	10/19/2017	13:37	16.84	94.58		
CAE-MW6d	11/27/2017	9:28	16.52	94.90		
CAE-MW6d	12/21/2017	13:59	16.67	94.75		
CAE-MW6d	1/23/2018	13:48	16.54	94.88		
CAE-MW6d	2/16/2018	14:58	16.82	94.60		
CAE-MW6d	3/1/2018		N/M			
CAE-MW6d	4/24/2018	16:12	16.38	95.04		
CAE-MW6d	5/9/2018	13:01	15.93	95.49		
CAE-MW6d	6/13/2018	13:54	15.49	95.93		
CAE-MW6d	7/16/2018	11:56	15.71	95.71		
CAE-MW6d	8/23/2018	16:00	16.15	95.27		
CAE-MW6d	9/16/2018	15:33	16.30	95.12		
CAE-MW6d	10/25/2018	12:58	16.07	95.35		
CAE-MW6d	11/12/2018	13:49	15.88	95.54		
CAE-MW6d	12/15/2018	13:42	16.00	95.42		
CAE-MW6d	1/25/2019	16:59	15.88	95.54		
CAE-MW6d	2/20/2019	16:09	15.25	96.17		
CAE-MW6d	3/16/2019	14:52	14.90	96.52		
CAE-MW6d	4/16/2019	12:40	14.85	96.57		
CAE-MW6d	5/17/2019	12:46	13.75	97.67		
CAE-MW6d	6/20/2019	13:44	13.37	98.05		
CAE-MW6d	7/18/2019	12:37	13.47	97.95		
CAE-MW6d	8/22/2019	11:39	13.68	97.74		
CAE-MW6d	9/27/2019	12:41	14.70	96.72		
CAE-MW6d	10/28/2019	14:19	14.01	97.41		
CAE-MW6d	11/11/2019	12:55	14.13	97.29		
CAE-MW6d	12/14/2019	11:11	14.25	97.17		
ROB-MW1s	1/29/2012	11:32	11.86	62.03	<|0.05|	0
ROB-MW1s	2/7/2012	13:38	11.30	62.59	<|0.05|	0
ROB-MW1s	3/5/2012	16:11	11.00	62.89	0.17	0.01
ROB-MW1s	4/5/2012	12:40	Dry			
ROB-MW1s	5/8/2012	12:33	12.19	61.70	<|0.05|	0
ROB-MW1s	6/18/2012	9:12	11.83	62.06	<|0.05|	0
ROB-MW1s	7/9/2012	9:29	Dry			
ROB-MW1s	8/13/2012	10:32	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ROB-MW1s	9/17/2012	10:43	Dry			
ROB-MW1s	10/19/2012	10:15	17.97	55.92	<|0.05|	0
ROB-MW1s	12/4/2012	11:55	15.20	58.69	<|0.05|	0
ROB-MW1s	12/28/2012	9:20	14.98	58.91	0.71	0.05
ROB-MW1s	1/15/2013	13:15	12.95	60.94	<|0.05|	0
ROB-MW1s	2/16/2013	13:56	15.50	58.39	<|0.05|	0
ROB-MW1s	3/18/2013	13:26	Dry			
ROB-MW1s	4/16/2013	9:43	17.43	56.46	<|0.05|	0
ROB-MW1s	5/28/2013	10:10	17.19	56.70	<|0.05|	0
ROB-MW1s	6/17/2013	17:13	Dry			
ROB-MW1s	7/15/2013	14:34	Dry			
ROB-MW1s	8/22/2013	8:32	Dry			
ROB-MW1s	9/9/2013	12:19	18.20	55.69	<|0.05|	0
ROB-MW1s	10/7/2013	12:35	Dry			
ROB-MW1s	11/12/2013	15:52	16.18	57.71	<|0.05|	0
ROB-MW1s	12/17/2013	12:04	15.99	57.90	<|0.05|	0
ROB-MW1s	1/13/2014	11:45	Dry			
ROB-MW1s	2/18/2014	8:55	Dry			
ROB-MW1s	3/16/2014	11:51	Dry			
ROB-MW1s	4/20/2014	10:11	Dry			
ROB-MW1s	5/20/2014	9:08	Dry			
ROB-MW1s	6/19/2014	11:05	Dry			
ROB-MW1s	7/17/2014	18:11	Dry			
ROB-MW1s	8/19/2014	15:51	Dry			
ROB-MW1s	9/19/2014	18:03	Dry			
ROB-MW1s	10/14/2014	12:30	Dry			
ROB-MW1s	11/5/2014	13:40	Dry			
ROB-MW1s	12/14/2014	13:10	Dry			
ROB-MW1s	1/12/2015	14:22	Dry			
ROB-MW1s	2/5/2015	10:19	Dry			
ROB-MW1s	3/13/2015	12:15	Dry			
ROB-MW1s	4/17/2015	10:17	Dry			
ROB-MW1s	5/12/2015	7:57	Dry			
ROB-MW1s	6/5/2015	9:12	Dry			
ROB-MW1s	7/13/2015	14:00	Dry			
ROB-MW1s	8/20/2015	14:27	Dry			
ROB-MW1s	9/14/2015	9:52	Dry			
ROB-MW1s	10/16/2015	10:00	Dry			
ROB-MW1s	11/11/2015	11:12	Dry			
ROB-MW1s	12/23/2015	12:27	Dry			
ROB-MW1s	1/15/2016	12:36	Dry			
ROB-MW1s	2/17/2016	13:09	Dry			
ROB-MW1s	3/18/2016	11:39	Dry			
ROB-MW1s	4/18/2016	12:11	Dry			
ROB-MW1s	5/17/2016	12:43	Dry			
ROB-MW1s	6/17/2016	15:20	Dry			
ROB-MW1s	7/21/2016	11:42	Dry			
ROB-MW1s	8/16/2016	12:19	Dry			
ROB-MW1s	9/15/2016	11:40	Dry			
ROB-MW1s	10/14/2016	11:53	Dry			
ROB-MW1s	11/29/2016	9:43	Dry			
ROB-MW1s	12/12/2016	12:10	Dry			
ROB-MW1s	1/25/2017	11:12	Dry			
ROB-MW1s	2/1/2017		N/M			
ROB-MW1s	3/14/2017	8:38	Dry			
ROB-MW1s	4/20/2017	11:30	Dry			
ROB-MW1s	5/17/2017	9:05	Dry			
ROB-MW1s	6/24/2017	11:03	Dry			
ROB-MW1s	7/14/2017	11:15	Dry			
ROB-MW1s	8/25/2017	9:36	13.83	60.06	-0.20	-0.02
ROB-MW1s	9/22/2017	12:10	13.65	60.24	<|0.05|	0
ROB-MW1s	10/19/2017	11:50	Dry			
ROB-MW1s	11/17/2017	12:47	12.86	61.03	<|0.05|	0
ROB-MW1s	12/21/2017	12:21	15.57	58.32	<|0.05|	0
ROB-MW1s	1/23/2018	11:48	13.46	60.43	<|0.05|	0
ROB-MW1s	2/20/2018	9:14	14.30	59.59	<|0.05|	0
ROB-MW1s	3/1/2018		N/M			
ROB-MW1s	4/24/2018	10:16	13.44	60.45	<|0.05|	0
ROB-MW1s	5/8/2018	13:30	13.22	60.67	<|0.05|	0
ROB-MW1s	6/13/2018	12:13	12.45	61.44	<|0.05|	0
ROB-MW1s	7/16/2018	10:24	12.68	61.21	<|0.05|	0
ROB-MW1s	8/20/2018	8:49	14.19	59.70	<|0.05|	0
ROB-MW1s	9/16/2018	13:29	13.15	60.74	<|0.05|	0
ROB-MW1s	10/25/2018	11:25	14.31	59.58	<|0.05|	0
ROB-MW1s	11/13/2018	9:04	13.79	60.10	<|0.05|	0
ROB-MW1s	12/15/2018	9:57	13.18	60.71	<|0.05|	0
ROB-MW1s	1/25/2019	11:12	12.69	61.20	<|0.05|	0
ROB-MW1s	2/20/2019	9:16	11.84	62.05	<|0.05|	0
ROB-MW1s	3/16/2019	13:07	11.53	62.36	<|0.05|	0
ROB-MW1s	4/16/2019	14:01	11.81	62.08	<|0.05|	0
ROB-MW1s	5/21/2019	8:43	12.06	61.83	<|0.05|	0
ROB-MW1s	6/20/2019	12:04	10.13	63.76	<|0.05|	0
ROB-MW1s	7/17/2019	12:44	13.18	60.71	<|0.05|	0
ROB-MW1s	8/14/2019	8:34	11.34	62.55	<|0.05|	0
ROB-MW1s	9/27/2019	14:38	9.83	64.06	<|0.05|	0
ROB-MW1s	10/28/2019	16:11	11.55	62.34	<|0.05|	0
ROB-MW1s	11/12/2019	9:05	10.63	63.26	<|0.05|	0
ROB-MW1s	12/14/2019	9:41	9.12	64.77	<|0.05|	0
ROB-MW1d	1/29/2012	11:32	11.54	62.05		
ROB-MW1d	2/7/2012	13:39	10.98	62.61		
ROB-MW1d	3/5/2012	16:12	10.87	62.72		
ROB-MW1d	4/5/2012	12:41	18.44	55.15		
ROB-MW1d	5/8/2012	12:34	11.89	61.70		
ROB-MW1d	6/18/2012	9:11	11.51	62.08		
ROB-MW1d	7/9/2012	9:28	19.10	54.49		
ROB-MW1d	8/13/2012	10:33	25.24	48.35		
ROB-MW1d	9/17/2012	10:43	18.98	54.61		
ROB-MW1d	10/19/2012	10:15	17.68	55.91		
ROB-MW1d	12/4/2012	11:55	14.91	58.68		
ROB-MW1d	12/28/2012	9:21	15.39	58.20		
ROB-MW1d	1/15/2013	13:16	12.66	60.93		
ROB-MW1d	2/16/2013	13:56	15.19	58.40		
ROB-MW1d	3/18/2013	13:27	24.48	49.11		
ROB-MW1d	4/16/2013	9:43	17.16	56.43		
ROB-MW1d	5/28/2013	10:10	16.88	56.71		
ROB-MW1d	6/17/2013	17:13	24.79	48.80		
ROB-MW1d	7/15/2013	14:34	27.55	46.04		
ROB-MW1d	8/22/2013	8:32	22.75	50.84		
ROB-MW1d	9/9/2013	12:19	17.89	55.70		
ROB-MW1d	10/7/2013	12:35	20.74	52.85		
ROB-MW1d	11/12/2013	15:52	15.90	57.69		
ROB-MW1d	12/17/2013	12:04	15.68	57.91		
ROB-MW1d	1/13/2014	11:45	25.53	48.06		
ROB-MW1d	2/18/2014	8:55	20.78	52.81		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ROB-MW1d	3/16/2014	11:51	22.19	51.40		
ROB-MW1d	4/20/2014	10:11	20.93	52.66		
ROB-MW1d	5/20/2014	9:08	26.05	47.54		
ROB-MW1d	6/19/2014	11:05	Dry			
ROB-MW1d	7/17/2014	18:11	Dry			
ROB-MW1d	8/19/2014	15:51	Dry			
ROB-MW1d	9/19/2014	18:03	25.06	48.53		
ROB-MW1d	10/14/2014	12:30	27.47	46.12		
ROB-MW1d	11/5/2014	13:40	23.30	50.29		
ROB-MW1d	12/14/2014	13:10	21.14	52.45		
ROB-MW1d	1/12/2015	14:22	18.99	54.60		
ROB-MW1d	2/5/2015	10:19	18.29	55.30		
ROB-MW1d	3/13/2015	12:15	19.60	53.99		
ROB-MW1d	4/17/2015	10:17	24.10	49.49		
ROB-MW1d	5/12/2015	7:57	27.98	45.61		
ROB-MW1d	6/5/2015	9:12	Dry			
ROB-MW1d	7/13/2015	14:00	Dry			
ROB-MW1d	8/20/2015	14:27	Dry			
ROB-MW1d	9/14/2015	9:53	28.13	45.46		
ROB-MW1d	10/16/2015	10:01	Dry			
ROB-MW1d	11/11/2015	11:12	27.37	46.22		
ROB-MW1d	12/23/2015	12:28	24.25	49.34		
ROB-MW1d	1/15/2016	12:37	23.46	50.13		
ROB-MW1d	2/17/2016	13:10	22.62	50.97		
ROB-MW1d	3/18/2016	11:39	22.23	51.36		
ROB-MW1d	4/18/2016	12:11	22.50	51.09		
ROB-MW1d	5/17/2016	12:43	25.61	47.98		
ROB-MW1d	6/17/2016	15:21	28.10	45.49		
ROB-MW1d	7/21/2016	11:42	Dry			
ROB-MW1d	8/16/2016	12:19	Dry			
ROB-MW1d	9/15/2016	11:41	Dry			
ROB-MW1d	10/14/2016	11:53	Dry			
ROB-MW1d	11/29/2016	9:43	26.83	46.76		
ROB-MW1d	12/12/2016	12:11	25.81	47.78		
ROB-MW1d	1/25/2017	11:13	23.43	50.16		
ROB-MW1d	2/1/2017		N/M			
ROB-MW1d	3/14/2017	8:38	21.86	51.73		
ROB-MW1d	4/20/2017	11:31	20.22	53.37		
ROB-MW1d	5/17/2017	9:05	19.40	54.19		
ROB-MW1d	6/24/2017	11:04	21.97	51.62		
ROB-MW1d	7/14/2017	11:16	22.86	50.73		
ROB-MW1d	8/25/2017	9:36	13.33	60.26		
ROB-MW1d	9/22/2017	12:11	13.35	60.24		
ROB-MW1d	10/19/2017	11:51	18.67	54.92		
ROB-MW1d	11/17/2017	12:47	12.60	60.99		
ROB-MW1d	12/21/2017	12:20	15.28	58.31		
ROB-MW1d	1/23/2018	11:49	13.17	60.42		
ROB-MW1d	2/20/2018	9:15	14.00	59.59		
ROB-MW1d	3/1/2018		N/M			
ROB-MW1d	4/24/2018	10:16	13.13	60.46		
ROB-MW1d	5/8/2018	13:31	12.92	60.67		
ROB-MW1d	6/13/2018	12:14	12.15	61.44		
ROB-MW1d	7/16/2018	10:25	12.36	61.23		
ROB-MW1d	8/20/2018	8:49	13.90	59.69		
ROB-MW1d	9/16/2018	13:29	12.87	60.72		
ROB-MW1d	10/25/2018	11:26	14.00	59.59		
ROB-MW1d	11/13/2018	9:04	13.50	60.09		
ROB-MW1d	12/15/2018	9:58	12.90	60.69		
ROB-MW1d	1/25/2019	11:13	12.40	61.19		
ROB-MW1d	2/20/2019	9:17	11.57	62.02		
ROB-MW1d	3/16/2019	13:07	11.24	62.35		
ROB-MW1d	4/16/2019	14:01	11.51	62.08		
ROB-MW1d	5/21/2019	8:43	11.73	61.86		
ROB-MW1d	6/20/2019	12:05	9.83	63.76		
ROB-MW1d	7/17/2019	12:44	12.83	60.76		
ROB-MW1d	8/14/2019	8:34	11.04	62.55		
ROB-MW1d	9/27/2019	14:38	9.53	64.06		
ROB-MW1d	10/28/2019	16:12	11.28	62.31		
ROB-MW1d	11/12/2019	9:05	10.35	63.24		
ROB-MW1d	12/14/2019	9:42	8.84	64.75		
ROB-MW2s	1/29/2012	11:36	12.47	61.69	-0.06	-0.00
ROB-MW2s	2/7/2012	13:17	11.70	62.46	<|0.05|	0
ROB-MW2s	3/5/2012	16:15	12.65	61.51	0.14	0.01
ROB-MW2s	4/5/2012	12:35	14.14	60.02	0.52	0.04
ROB-MW2s	5/8/2012	12:52	12.47	61.69	<|0.05|	0
ROB-MW2s	6/18/2012	9:10	12.32	61.84	<|0.05|	0
ROB-MW2s	7/9/2012	9:26	14.93	59.23	0.18	0.01
ROB-MW2s	8/13/2012	10:35	Dry			
ROB-MW2s	9/17/2012	10:41	Dry			
ROB-MW2s	10/19/2012	10:12	Dry			
ROB-MW2s	12/4/2012	11:57	15.79	58.37	<|0.05|	0
ROB-MW2s	12/28/2012	9:56	15.79	58.37	<|0.05|	0
ROB-MW2s	1/15/2013	13:18	13.79	60.37	<|0.05|	0
ROB-MW2s	2/16/2013	13:49	15.30	58.86	<|0.05|	0
ROB-MW2s	3/18/2013	13:23	Dry			
ROB-MW2s	4/16/2013	9:40	Dry			
ROB-MW2s	5/28/2013	10:14	17.70	56.46	<|0.05|	0
ROB-MW2s	6/17/2013	17:16	Dry			
ROB-MW2s	7/15/2013	14:31	Dry			
ROB-MW2s	8/22/2013	8:30	Dry			
ROB-MW2s	9/9/2013	12:17	Dry			
ROB-MW2s	10/7/2013	12:37	Dry			
ROB-MW2s	11/12/2013	15:54	16.94	57.22	<|0.05|	0
ROB-MW2s	12/17/2013	12:07	16.52	57.64	<|0.05|	0
ROB-MW2s	1/13/2014	11:47	Dry			
ROB-MW2s	2/18/2014	8:52	Dry			
ROB-MW2s	3/16/2014	11:53	Dry			
ROB-MW2s	4/20/2014	10:14	Dry			
ROB-MW2s	5/20/2014	9:11	Dry			
ROB-MW2s	6/19/2014	11:08	Dry			
ROB-MW2s	7/17/2014	18:14	Dry			
ROB-MW2s	8/19/2014	15:53	Dry			
ROB-MW2s	9/19/2014	18:05	Dry			
ROB-MW2s	10/14/2014	12:32	Dry			
ROB-MW2s	11/5/2014	13:42	Dry			
ROB-MW2s	12/14/2014	13:13	Dry			
ROB-MW2s	1/12/2015	14:24	Dry			
ROB-MW2s	2/5/2015	10:21	Dry			
ROB-MW2s	3/13/2015	12:19	Dry			
ROB-MW2s	4/17/2015	10:20	Dry			
ROB-MW2s	5/12/2015	7:59	Dry			
ROB-MW2s	6/5/2015	9:06	Dry			
ROB-MW2s	7/13/2015	13:58	Dry			
ROB-MW2s	8/20/2015	14:25	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ROB-MW2s	9/14/2015	9:49	Dry			
ROB-MW2s	10/16/2015	9:58	Dry			
ROB-MW2s	11/11/2015	11:05	Dry			
ROB-MW2s	12/23/2015	12:25	Dry			
ROB-MW2s	1/15/2016	12:39	Dry			
ROB-MW2s	2/17/2016	13:07	Dry			
ROB-MW2s	3/18/2016	11:41	Dry			
ROB-MW2s	4/18/2016	12:09	Dry			
ROB-MW2s	5/17/2016	12:45	Dry			
ROB-MW2s	6/17/2016	15:23	Dry			
ROB-MW2s	7/21/2016	11:45	Dry			
ROB-MW2s	8/16/2016	12:23	Dry			
ROB-MW2s	9/15/2016	11:38	Dry			
ROB-MW2s	10/14/2016	11:56	Dry			
ROB-MW2s	11/29/2016	9:39	Dry			
ROB-MW2s	12/12/2016	12:07	Dry			
ROB-MW2s	1/25/2017	11:09	Dry			
ROB-MW2s	2/1/2017		N/M			
ROB-MW2s	3/14/2017	8:37	Dry			
ROB-MW2s	4/20/2017	11:28	Dry			
ROB-MW2s	5/17/2017	9:04	Dry			
ROB-MW2s	6/24/2017	11:00	Dry			
ROB-MW2s	7/14/2017	11:17	Dry			
ROB-MW2s	8/25/2017	9:39	14.28	59.88	<|0.05|	0
ROB-MW2s	9/22/2017	12:08	13.98	60.18	<|0.05|	0
ROB-MW2s	10/19/2017	11:47	16.03	58.13	0.15	0.01
ROB-MW2s	11/17/2017	12:50	13.36	60.80	<|0.05|	0
ROB-MW2s	12/21/2017	12:18	15.40	58.76	<|0.05|	0
ROB-MW2s	1/23/2018	11:46	13.89	60.27	<|0.05|	0
ROB-MW2s	2/20/2018	9:16	14.48	59.68	<|0.05|	0
ROB-MW2s	3/1/2018		N/M			
ROB-MW2s	4/24/2018	10:19	13.65	60.51	<|0.05|	0
ROB-MW2s	5/8/2018	13:28	13.54	60.62	<|0.05|	0
ROB-MW2s	6/13/2018	12:10	12.97	61.19	<|0.05|	0
ROB-MW2s	7/16/2018	10:22	13.24	60.92	<|0.05|	0
ROB-MW2s	8/20/2018	8:46	14.43	59.73	<|0.05|	0
ROB-MW2s	9/16/2018	13:27	13.60	60.56	<|0.05|	0
ROB-MW2s	10/25/2018	11:22	14.79	59.37	<|0.05|	0
ROB-MW2s	11/13/2018	9:01	14.20	59.96	<|0.05|	0
ROB-MW2s	12/15/2018	9:55	13.63	60.53	<|0.05|	0
ROB-MW2s	1/25/2019	11:09	13.13	61.03	<|0.05|	0
ROB-MW2s	2/20/2019	9:14	12.41	61.75	<|0.05|	0
ROB-MW2s	3/16/2019	13:04	11.97	62.19	-0.16	-0.01
ROB-MW2s	4/16/2019	13:58	12.17	61.99	<|0.05|	0
ROB-MW2s	5/21/2019	8:40	12.45	61.71	<|0.05|	0
ROB-MW2s	6/20/2019	12:01	10.81	63.35	<|0.05|	0
ROB-MW2s	7/17/2019	12:48	11.64	62.52	0.07	0.01
ROB-MW2s	8/14/2019	8:30	11.52	62.64	<|0.05|	0
ROB-MW2s	9/27/2019	14:35	10.33	63.83	<|0.05|	0
ROB-MW2s	10/28/2019	16:14	11.95	62.21	<|0.05|	0
ROB-MW2s	11/12/2019	9:08	11.09	63.07	<|0.05|	0
ROB-MW2s	12/14/2019	9:38	9.72	64.44	<|0.05|	0
ROB-MW2d	1/29/2012	11:37	12.25	61.75		
ROB-MW2d	2/7/2012	13:18	11.54	62.46		
ROB-MW2d	3/5/2012	16:16	12.63	61.37		
ROB-MW2d	4/5/2012	12:36	14.50	59.50		
ROB-MW2d	5/8/2012	12:53	12.31	61.69		
ROB-MW2d	6/18/2012	9:09	12.17	61.83		
ROB-MW2d	7/9/2012	9:25	14.95	59.05		
ROB-MW2d	8/13/2012	10:36	21.41	52.59		
ROB-MW2d	9/17/2012	10:41	19.52	54.48		
ROB-MW2d	10/19/2012	10:12	18.61	55.39		
ROB-MW2d	12/4/2012	11:57	15.66	58.34		
ROB-MW2d	12/28/2012	9:57	15.61	58.39		
ROB-MW2d	1/15/2013	13:19	13.60	60.40		
ROB-MW2d	2/16/2013	13:49	15.13	58.87		
ROB-MW2d	3/18/2013	13:24	20.48	53.52		
ROB-MW2d	4/16/2013	9:40	17.95	56.05		
ROB-MW2d	5/28/2013	10:14	17.51	56.49		
ROB-MW2d	6/17/2013	17:16	21.64	52.36		
ROB-MW2d	7/15/2013	14:31	23.73	50.27		
ROB-MW2d	8/22/2013	8:30	22.12	51.88		
ROB-MW2d	9/9/2013	12:17	18.93	55.07		
ROB-MW2d	10/7/2013	12:37	19.22	54.78		
ROB-MW2d	11/12/2013	15:54	16.75	57.25		
ROB-MW2d	12/17/2013	12:07	16.33	57.67		
ROB-MW2d	1/13/2014	11:47	21.97	52.03		
ROB-MW2d	2/18/2014	8:52	20.88	53.12		
ROB-MW2d	3/16/2014	11:53	21.05	52.95		
ROB-MW2d	4/20/2014	10:14	20.65	53.35		
ROB-MW2d	5/20/2014	9:11	23.73	50.27		
ROB-MW2d	6/19/2014	11:08	27.09	46.91		
ROB-MW2d	7/17/2014	18:14	29.19	44.81		
ROB-MW2d	8/19/2014	15:53	29.39	44.61		
ROB-MW2d	9/19/2014	18:05	25.57	48.43		
ROB-MW2d	10/14/2014	12:32	26.70	47.30		
ROB-MW2d	11/5/2014	13:42	23.89	50.11		
ROB-MW2d	12/14/2014	13:13	21.29	52.71		
ROB-MW2d	1/12/2015	14:24	19.77	54.23		
ROB-MW2d	2/5/2015	10:21	19.03	54.97		
ROB-MW2d	3/13/2015	12:19	19.81	54.19		
ROB-MW2d	4/17/2015	10:20	23.81	50.19		
ROB-MW2d	5/12/2015	7:59	27.23	46.77		
ROB-MW2d	6/5/2015	9:08	Dry			
ROB-MW2d	7/13/2015	13:58	Dry			
ROB-MW2d	8/20/2015	14:25	Dry			
ROB-MW2d	9/14/2015	9:50	29.45	44.55		
ROB-MW2d	10/16/2015	9:59	Dry			
ROB-MW2d	11/11/2015	11:05	28.06	45.94		
ROB-MW2d	12/23/2015	12:26	24.79	49.21		
ROB-MW2d	1/15/2016	12:40	23.97	50.03		
ROB-MW2d	2/17/2016	13:08	23.56	50.44		
ROB-MW2d	3/18/2016	11:41	22.42	51.58		
ROB-MW2d	4/18/2016	12:09	22.42	51.58		
ROB-MW2d	5/17/2016	12:45	25.20	48.80		
ROB-MW2d	6/17/2016	15:24	27.23	46.77		
ROB-MW2d	7/21/2016	11:45	Dry			
ROB-MW2d	8/16/2016	12:23	Dry			
ROB-MW2d	9/15/2016	11:39	Dry			
ROB-MW2d	10/14/2016	11:56	Dry			
ROB-MW2d	11/29/2016	9:39	27.74	46.26		
ROB-MW2d	12/12/2016	12:08	26.55	47.45		
ROB-MW2d	1/25/2017	11:10	23.84	50.16		
ROB-MW2d	2/1/2017		N/M			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ROB-MW2d	3/14/2017	8:37	22.95	51.05		
ROB-MW2d	4/20/2017	11:29	20.64	53.36		
ROB-MW2d	5/17/2017	9:04	19.78	54.22		
ROB-MW2d	6/24/2017	11:01	20.72	53.28		
ROB-MW2d	7/14/2017	11:18	21.16	52.84		
ROB-MW2d	8/25/2017	9:39	14.13	59.87		
ROB-MW2d	9/22/2017	12:09	13.85	60.15		
ROB-MW2d	10/19/2017	11:48	16.02	57.98		
ROB-MW2d	11/17/2017	12:50	13.20	60.80		
ROB-MW2d	12/21/2017	12:19	15.27	58.73		
ROB-MW2d	1/23/2018	11:47	13.72	60.28		
ROB-MW2d	2/20/2018	9:17	14.34	59.66		
ROB-MW2d	3/1/2018		N/M			
ROB-MW2d	4/24/2018	10:19	13.51	60.49		
ROB-MW2d	5/8/2018	13:28	13.37	60.63		
ROB-MW2d	6/13/2018	12:11	12.78	61.22		
ROB-MW2d	7/16/2018	10:23	13.06	60.94		
ROB-MW2d	8/20/2018	8:46	14.24	59.76		
ROB-MW2d	9/16/2018	13:27	13.46	60.54		
ROB-MW2d	10/25/2018	11:23	14.61	59.39		
ROB-MW2d	11/13/2018	9:01	14.02	59.98		
ROB-MW2d	12/15/2018	9:56	13.46	60.54		
ROB-MW2d	1/25/2019	11:10	12.96	61.04		
ROB-MW2d	2/20/2019	9:15	12.24	61.76		
ROB-MW2d	3/16/2019	13:05	11.65	62.35		
ROB-MW2d	4/16/2019	13:58	12.00	62.00		
ROB-MW2d	5/21/2019	8:40	12.29	61.71		
ROB-MW2d	6/20/2019	12:02	10.66	63.34		
ROB-MW2d	7/17/2019	12:48	11.55	62.45		
ROB-MW2d	8/14/2019	8:30	11.31	62.69		
ROB-MW2d	9/27/2019	14:35	10.15	63.85		
ROB-MW2d	10/28/2019	16:15	11.74	62.26		
ROB-MW2d	11/12/2019	9:08	10.93	63.07		
ROB-MW2d	12/14/2019	9:39	9.55	64.45		
ROB-MW3s	1/29/2012	11:40	10.65	62.77	<|0.05|	0
ROB-MW3s	2/7/2012	13:00	10.65	62.77	<|0.05|	0
ROB-MW3s	3/5/2012	16:19	11.20	62.22	1.62	0.12
ROB-MW3s	4/5/2012	12:25	10.77	62.65	<|0.05|	0
ROB-MW3s	5/8/2012	13:19	11.13	62.29	<|0.05|	0
ROB-MW3s	6/18/2012	9:17	12.09	61.33	<|0.05|	0
ROB-MW3s	7/9/2012	9:34	12.36	61.06	<|0.05|	0
ROB-MW3s	8/13/2012	10:39	14.93	58.49	<|0.05|	0
ROB-MW3s	9/17/2012	10:48	17.49	55.93	<|0.05|	0
ROB-MW3s	10/19/2012	9:57	18.18	55.24	<|0.05|	0
ROB-MW3s	12/4/2012	12:00	16.52	56.90	<|0.05|	0
ROB-MW3s	12/28/2012	9:50	14.92	58.50	-0.29	-0.02
ROB-MW3s	1/15/2013	13:40	14.84	58.58	<|0.05|	0
ROB-MW3s	2/16/2013	13:36	13.88	59.54	<|0.05|	0
ROB-MW3s	3/18/2013	13:20	Dry			
ROB-MW3s	4/16/2013	9:36	16.09	57.33	<|0.05|	0
ROB-MW3s	5/28/2013	10:18	17.45	55.97	<|0.05|	0
ROB-MW3s	6/17/2013	17:20	18.05	55.37	<|0.05|	0
ROB-MW3s	7/15/2013	14:27	18.64	54.78	<|0.05|	0
ROB-MW3s	8/22/2013	8:25	Dry			
ROB-MW3s	9/9/2013	12:12	Dry			
ROB-MW3s	10/7/2013	12:43	Dry			
ROB-MW3s	11/12/2013	15:59	Dry			
ROB-MW3s	12/17/2013	12:10	17.18	56.24	<|0.05|	0
ROB-MW3s	1/13/2014	11:51	17.62	55.80	<|0.05|	0
ROB-MW3s	2/18/2014	8:45	Dry			
ROB-MW3s	3/16/2014	11:57	Dry			
ROB-MW3s	4/20/2014	10:18	Dry			
ROB-MW3s	5/20/2014	9:03	Dry			
ROB-MW3s	6/19/2014	11:12	Dry			
ROB-MW3s	7/17/2014	18:17	Dry			
ROB-MW3s	8/19/2014	15:57	Dry			
ROB-MW3s	9/19/2014	18:09	Dry			
ROB-MW3s	10/14/2014	12:36	Dry			
ROB-MW3s	11/5/2014	13:46	Dry			
ROB-MW3s	12/14/2014	13:20	Dry			
ROB-MW3s	1/12/2015	14:28	Dry			
ROB-MW3s	2/5/2015	10:25	Dry			
ROB-MW3s	3/13/2015	12:24	Dry			
ROB-MW3s	4/17/2015	10:24	Dry			
ROB-MW3s	5/12/2015	7:51	Dry			
ROB-MW3s	6/5/2015	9:19	Dry			
ROB-MW3s	7/13/2015	13:56	Dry			
ROB-MW3s	8/20/2015	14:22	Dry			
ROB-MW3s	9/14/2015	9:20	Dry			
ROB-MW3s	10/16/2015	9:47	Dry			
ROB-MW3s	11/11/2015	10:52	Dry			
ROB-MW3s	12/23/2015	12:22	Dry			
ROB-MW3s	1/15/2016	12:32	Dry			
ROB-MW3s	2/17/2016	13:03	Dry			
ROB-MW3s	3/18/2016	11:44	Dry			
ROB-MW3s	4/18/2016	12:15	Dry			
ROB-MW3s	5/17/2016	12:49	Dry			
ROB-MW3s	6/17/2016	15:26	Dry			
ROB-MW3s	7/21/2016	11:50	Dry			
ROB-MW3s	8/16/2016	12:30	Dry			
ROB-MW3s	9/15/2016	11:35	Dry			
ROB-MW3s	10/14/2016	12:00	Dry			
ROB-MW3s	11/29/2016	9:34	Dry			
ROB-MW3s	12/12/2016	12:04	Dry			
ROB-MW3s	1/25/2017	11:16	Dry			
ROB-MW3s	2/1/2017		N/M			
ROB-MW3s	3/14/2017	8:34	Dry			
ROB-MW3s	4/20/2017	11:34	Dry			
ROB-MW3s	5/17/2017	8:57	Dry			
ROB-MW3s	6/24/2017	11:08	17.39	56.03	<|0.05|	0
ROB-MW3s	7/14/2017	11:20	16.48	56.94	<|0.05|	0
ROB-MW3s	8/25/2017	9:43	14.29	59.13	<|0.05|	0
ROB-MW3s	9/22/2017	12:15	13.36	60.06	<|0.05|	0
ROB-MW3s	10/19/2017	11:55	13.43	59.99	<|0.05|	0
ROB-MW3s	11/17/2017	12:54	13.01	60.41	<|0.05|	0
ROB-MW3s	12/21/2017	12:27	13.22	60.20	<|0.05|	0
ROB-MW3s	1/23/2018	11:53	12.98	60.44	<|0.05|	0
ROB-MW3s	2/20/2018	9:21	13.26	60.16	<|0.05|	0
ROB-MW3s	3/1/2018		N/M			
ROB-MW3s	4/24/2018	10:22	12.58	60.84	<|0.05|	0
ROB-MW3s	5/8/2018	13:24	12.30	61.12	<|0.05|	0
ROB-MW3s	6/13/2018	12:18	11.86	61.56	<|0.05|	0
ROB-MW3s	7/16/2018	10:27	11.96	61.46	<|0.05|	0
ROB-MW3s	8/20/2018	8:43	12.80	60.62	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ROB-MW3s	9/16/2018	13:36	12.31	61.11	<|0.05|	0
ROB-MW3s	10/25/2018	11:30	13.29	60.13	<|0.05|	0
ROB-MW3s	11/13/2018	8:57	13.66	59.76	<|0.05|	0
ROB-MW3s	12/15/2018	10:01	13.55	59.87	<|0.05|	0
ROB-MW3s	1/25/2019	11:18	13.02	60.40	<|0.05|	0
ROB-MW3s	2/20/2019	9:10	12.39	61.03	<|0.05|	0
ROB-MW3s	3/16/2019	13:11	11.84	61.58	<|0.05|	0
ROB-MW3s	4/16/2019	13:54	11.54	61.88	<|0.05|	0
ROB-MW3s	5/21/2019	8:35	11.28	62.14	<|0.05|	0
ROB-MW3s	6/20/2019	12:09	10.68	62.74	<|0.05|	0
ROB-MW3s	7/17/2019	12:50	10.06	63.36	<|0.05|	0
ROB-MW3s	8/14/2019	8:25	9.72	63.70	<|0.05|	0
ROB-MW3s	9/27/2019	14:28	9.87	63.55	<|0.05|	0
ROB-MW3s	10/28/2019	16:18	10.07	63.35	<|0.05|	0
ROB-MW3s	11/12/2019	9:12	10.09	63.33	<|0.05|	0
ROB-MW3s	12/14/2019	9:45	9.51	63.91	<|0.05|	0
ROB-MW3d	1/29/2012	11:41	10.55	62.75		
ROB-MW3d	2/7/2012	13:01	10.52	62.78		
ROB-MW3d	3/5/2012	16:20	12.70	60.60		
ROB-MW3d	4/5/2012	12:26	10.63	62.67		
ROB-MW3d	5/8/2012	13:19	11.03	62.27		
ROB-MW3d	6/18/2012	9:16	11.93	61.37		
ROB-MW3d	7/9/2012	9:33	12.25	61.05		
ROB-MW3d	8/13/2012	10:40	14.82	58.48		
ROB-MW3d	9/17/2012	10:48	17.33	55.97		
ROB-MW3d	10/19/2012	9:57	18.09	55.21		
ROB-MW3d	12/4/2012	12:00	16.41	56.89		
ROB-MW3d	12/28/2012	9:51	14.51	58.79		
ROB-MW3d	1/15/2013	13:41	14.69	58.61		
ROB-MW3d	2/16/2013	13:36	13.74	59.56		
ROB-MW3d	3/18/2013	13:21	14.93	58.37		
ROB-MW3d	4/16/2013	9:36	15.96	57.34		
ROB-MW3d	5/28/2013	10:18	17.31	55.99		
ROB-MW3d	6/17/2013	17:20	17.93	55.37		
ROB-MW3d	7/15/2013	14:27	18.53	54.77		
ROB-MW3d	8/22/2013	8:25	19.26	54.04		
ROB-MW3d	9/9/2013	12:12	19.12	54.18		
ROB-MW3d	10/7/2013	12:43	19.26	54.04		
ROB-MW3d	11/12/2013	15:59	18.34	54.96		
ROB-MW3d	12/17/2013	12:10	17.02	56.28		
ROB-MW3d	1/13/2014	11:51	17.51	55.79		
ROB-MW3d	2/18/2014	8:45	18.80	54.50		
ROB-MW3d	3/16/2014	11:57	18.69	54.61		
ROB-MW3d	4/20/2014	10:18	19.28	54.02		
ROB-MW3d	5/20/2014	9:03	19.74	53.56		
ROB-MW3d	6/19/2014	11:12	20.74	52.56		
ROB-MW3d	7/17/2014	18:17	22.09	51.21		
ROB-MW3d	8/19/2014	15:57	23.45	49.85		
ROB-MW3d	9/19/2014	18:09	23.70	49.60		
ROB-MW3d	10/14/2014	12:36	24.12	49.18		
ROB-MW3d	11/5/2014	13:46	23.63	49.67		
ROB-MW3d	12/14/2014	13:20	22.41	50.89		
ROB-MW3d	1/12/2015	14:28	21.22	52.08		
ROB-MW3d	2/5/2015	10:25	20.20	53.10		
ROB-MW3d	3/13/2015	12:24	19.45	53.85		
ROB-MW3d	4/17/2015	10:24	20.63	52.67		
ROB-MW3d	5/12/2015	7:51	21.36	51.94		
ROB-MW3d	6/5/2015	9:19	22.38	50.92		
ROB-MW3d	7/13/2015	13:56	24.81	48.49		
ROB-MW3d	8/20/2015	14:21	27.70	45.60		
ROB-MW3d	9/14/2015	9:21	27.63	45.67		
ROB-MW3d	10/16/2015	9:47	28.02	45.28		
ROB-MW3d	11/11/2015	10:52	27.07	46.23		
ROB-MW3d	12/23/2015	12:22	25.36	47.94		
ROB-MW3d	1/15/2016	12:33	24.68	48.62		
ROB-MW3d	2/17/2016	13:04	23.69	49.61		
ROB-MW3d	3/18/2016	11:45	22.94	50.36		
ROB-MW3d	4/18/2016	12:15	21.42	51.88		
ROB-MW3d	5/17/2016	12:49	22.82	50.48		
ROB-MW3d	6/17/2016	15:27	23.79	49.51		
ROB-MW3d	7/21/2016	11:50	25.95	47.35		
ROB-MW3d	8/16/2016	12:30	28.39	44.91		
ROB-MW3d	9/15/2016	11:36	29.06	44.24		
ROB-MW3d	10/14/2016	12:00	28.90	44.40		
ROB-MW3d	11/29/2016	9:34	27.28	46.02		
ROB-MW3d	12/12/2016	12:05	26.54	46.76		
ROB-MW3d	1/25/2017	11:17	24.79	48.51		
ROB-MW3d	2/1/2017		N/M			
ROB-MW3d	3/14/2017	8:34	22.74	50.56		
ROB-MW3d	4/20/2017	11:35	21.00	52.30		
ROB-MW3d	5/17/2017	8:57	19.66	53.64		
ROB-MW3d	6/24/2017	11:09	17.24	56.06		
ROB-MW3d	7/14/2017	11:21	16.37	56.93		
ROB-MW3d	8/25/2017	9:43	14.15	59.15		
ROB-MW3d	9/22/2017	12:16	13.21	60.09		
ROB-MW3d	10/19/2017	11:54	13.32	59.98		
ROB-MW3d	11/17/2017	12:54	12.90	60.40		
ROB-MW3d	12/21/2017	12:28	13.09	60.21		
ROB-MW3d	1/23/2018	11:54	12.85	60.45		
ROB-MW3d	2/20/2018	9:22	13.13	60.17		
ROB-MW3d	3/1/2018		N/M			
ROB-MW3d	4/24/2018	10:22	12.47	60.83		
ROB-MW3d	5/8/2018	13:24	12.19	61.11		
ROB-MW3d	6/13/2018	12:19	11.72	61.58		
ROB-MW3d	7/16/2018	10:28	11.86	61.44		
ROB-MW3d	8/20/2018	8:43	12.64	60.66		
ROB-MW3d	9/16/2018	13:36	12.18	61.12		
ROB-MW3d	10/25/2018	11:31	13.17	60.13		
ROB-MW3d	11/13/2018	8:57	13.54	59.76		
ROB-MW3d	12/15/2018	10:02	13.45	59.85		
ROB-MW3d	1/25/2019	11:19	12.90	60.40		
ROB-MW3d	2/20/2019	9:11	12.26	61.04		
ROB-MW3d	3/16/2019	13:12	11.71	61.59		
ROB-MW3d	4/16/2019	13:54	11.42	61.88		
ROB-MW3d	5/21/2019	8:35	11.15	62.15		
ROB-MW3d	6/20/2019	12:10	10.54	62.76		
ROB-MW3d	7/17/2019	12:50	9.94	63.36		
ROB-MW3d	8/14/2019	8:25	9.60	63.70		
ROB-MW3d	9/27/2019	14:28	9.73	63.57		
ROB-MW3d	10/28/2019	16:19	9.94	63.36		
ROB-MW3d	11/12/2019	9:12	9.96	63.34		
ROB-MW3d	12/14/2019	9:46	9.38	63.92		
ROB-MW4s	1/29/2012	11:22	10.12	62.71	0.05	0.00
ROB-MW4s	2/7/2012	12:47	10.70	62.13	-0.70	-0.05

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ROB-MW4s	3/5/2012	16:23	11.62	61.21	0.74	0.06
ROB-MW4s	4/5/2012	12:20	9.87	62.96	<|0.05|	0
ROB-MW4s	5/8/2012	13:37	10.29	62.54	<|0.05|	0
ROB-MW4s	6/18/2012	9:21	11.50	61.33	<|0.05|	0
ROB-MW4s	7/9/2012	9:37	11.26	61.57	<|0.05|	0
ROB-MW4s	8/13/2012	10:42	14.03	58.80	<|0.05|	0
ROB-MW4s	9/17/2012	10:51	16.58	56.25	<|0.05|	0
ROB-MW4s	10/19/2012	9:53	17.59	55.24	<|0.05|	0
ROB-MW4s	12/4/2012	12:02	16.10	56.73	<|0.05|	0
ROB-MW4s	12/28/2012	9:46	14.71	58.12	-0.07	-0.01
ROB-MW4s	1/15/2013	13:34	14.26	58.57	0.11	0.01
ROB-MW4s	2/16/2013	13:34	13.34	59.49	<|0.05|	0
ROB-MW4s	3/18/2013	13:16	Dry			
ROB-MW4s	4/16/2013	9:30	15.32	57.51	<|0.05|	0
ROB-MW4s	5/28/2013	10:22	16.80	56.03	-0.28	-0.02
ROB-MW4s	6/17/2013	17:23	17.26	55.57	<|0.05|	0
ROB-MW4s	7/15/2013	14:24	17.49	55.34	<|0.05|	0
ROB-MW4s	8/22/2013	8:20	Dry			
ROB-MW4s	9/9/2013	12:09	Dry			
ROB-MW4s	10/7/2013	12:47	Dry			
ROB-MW4s	11/12/2013	16:01	Dry			
ROB-MW4s	12/17/2013	12:13	16.73	56.10	<|0.05|	0
ROB-MW4s	1/13/2014	11:53	17.00	55.83	<|0.05|	0
ROB-MW4s	2/18/2014	8:42	Dry			
ROB-MW4s	3/16/2014	11:59	Dry			
ROB-MW4s	4/20/2014	10:20	Dry			
ROB-MW4s	5/20/2014	9:00	Dry			
ROB-MW4s	6/19/2014	11:15	Dry			
ROB-MW4s	7/17/2014	18:20	Dry			
ROB-MW4s	8/19/2014	16:00	Dry			
ROB-MW4s	9/19/2014	18:12	Dry			
ROB-MW4s	10/14/2014	12:39	Dry			
ROB-MW4s	11/5/2014	13:49	Dry			
ROB-MW4s	12/14/2014	13:23	Dry			
ROB-MW4s	1/12/2015	14:32	Dry			
ROB-MW4s	2/5/2015	10:27	Dry			
ROB-MW4s	3/13/2015	12:27	Dry			
ROB-MW4s	4/17/2015	10:26	Dry			
ROB-MW4s	5/12/2015	7:48	Dry			
ROB-MW4s	6/5/2015	9:23	Dry			
ROB-MW4s	7/13/2015	13:53	Dry			
ROB-MW4s	8/20/2015	14:17	Dry			
ROB-MW4s	9/14/2015	9:24	Dry			
ROB-MW4s	10/16/2015	9:44	Dry			
ROB-MW4s	11/11/2015	10:49	Dry			
ROB-MW4s	12/23/2015	12:19	Dry			
ROB-MW4s	1/15/2016	12:28	Dry			
ROB-MW4s	2/17/2016	13:01	Dry			
ROB-MW4s	3/18/2016	11:47	Dry			
ROB-MW4s	4/18/2016	12:19	Dry			
ROB-MW4s	5/17/2016	12:51	Dry			
ROB-MW4s	6/17/2016	15:09	Dry			
ROB-MW4s	7/21/2016	11:53	Dry			
ROB-MW4s	8/16/2016	12:33	Dry			
ROB-MW4s	9/15/2016	11:33	Dry			
ROB-MW4s	10/14/2016	12:04	Dry			
ROB-MW4s	11/29/2016	9:31	Dry			
ROB-MW4s	12/12/2016	12:01	Dry			
ROB-MW4s	1/25/2017	11:18	Dry			
ROB-MW4s	2/1/2017		N/M			
ROB-MW4s	3/14/2017	8:32	Dry			
ROB-MW4s	4/20/2017	11:36	Dry			
ROB-MW4s	5/17/2017	8:56	Dry			
ROB-MW4s	6/24/2017	11:11	15.96	56.87	<|0.05|	0
ROB-MW4s	7/14/2017	11:23	14.41	58.42	0.51	0.04
ROB-MW4s	8/25/2017	9:45	12.93	59.90	<|0.05|	0
ROB-MW4s	9/22/2017	12:17	12.28	60.55	<|0.05|	0
ROB-MW4s	10/19/2017	11:57	12.56	60.27	<|0.05|	0
ROB-MW4s	11/17/2017	12:58	12.30	60.53	<|0.05|	0
ROB-MW4s	12/21/2017	12:21	12.51	60.32	<|0.05|	0
ROB-MW4s	1/23/2018	11:55	12.20	60.63	<|0.05|	0
ROB-MW4s	2/20/2018	9:26	12.54	60.29	<|0.05|	0
ROB-MW4s	3/1/2018		N/M			
ROB-MW4s	4/24/2018	10:25	11.39	61.44	<|0.05|	0
ROB-MW4s	5/8/2018	13:25	11.25	61.58	<|0.05|	0
ROB-MW4s	6/13/2018	12:21	10.81	62.02	<|0.05|	0
ROB-MW4s	7/16/2018	10:30	10.76	62.07	<|0.05|	0
ROB-MW4s	8/20/2018	8:40	11.76	61.07	<|0.05|	0
ROB-MW4s	9/16/2018	13:37	10.93	61.90	<|0.05|	0
ROB-MW4s	10/25/2018	11:33	12.38	60.45	<|0.05|	0
ROB-MW4s	11/13/2018	8:54	13.00	59.83	<|0.05|	0
ROB-MW4s	12/15/2018	10:03	12.97	59.86	<|0.05|	0
ROB-MW4s	1/25/2019	11:20	12.40	60.43	<|0.05|	0
ROB-MW4s	2/20/2019	9:05	11.71	61.12	<|0.05|	0
ROB-MW4s	3/16/2019	13:13	11.00	61.83	<|0.05|	0
ROB-MW4s	4/16/2019	13:46	10.53	62.30	<|0.05|	0
ROB-MW4s	5/21/2019	8:31	10.51	62.32	<|0.05|	0
ROB-MW4s	6/20/2019	12:12	9.83	63.00	<|0.05|	0
ROB-MW4s	7/17/2019	12:53	8.59	64.24	<|0.05|	0
ROB-MW4s	8/14/2019	8:21	7.58	65.25	<|0.05|	0
ROB-MW4s	9/27/2019	14:20	9.19	63.64	<|0.05|	0
ROB-MW4s	10/28/2019	16:21	8.97	63.86	<|0.05|	0
ROB-MW4s	11/12/2019	9:16	9.35	63.48	<|0.05|	0
ROB-MW4s	12/14/2019	9:47	8.66	64.17	<|0.05|	0
ROB-MW4d	1/29/2012	11:23	9.98	62.66		
ROB-MW4d	2/7/2012	12:48	9.81	62.83		
ROB-MW4d	3/5/2012	16:24	12.17	60.47		
ROB-MW4d	4/5/2012	12:22	9.65	62.99		
ROB-MW4d	5/8/2012	13:38	10.10	62.54		
ROB-MW4d	6/18/2012	9:20	11.28	61.36		
ROB-MW4d	7/9/2012	9:36	11.11	61.53		
ROB-MW4d	8/13/2012	10:43	13.85	58.79		
ROB-MW4d	9/17/2012	10:51	16.42	56.22		
ROB-MW4d	10/19/2012	9:53	17.40	55.24		
ROB-MW4d	12/4/2012	12:02	15.93	56.71		
ROB-MW4d	12/28/2012	9:47	14.45	58.19		
ROB-MW4d	1/15/2013	13:35	14.18	58.46		
ROB-MW4d	2/16/2013	13:34	13.13	59.51		
ROB-MW4d	3/18/2013	13:17	14.11	58.53		
ROB-MW4d	4/16/2013	9:30	15.14	57.50		
ROB-MW4d	5/28/2013	10:22	16.33	56.31		
ROB-MW4d	6/17/2013	17:23	17.07	55.57		
ROB-MW4d	7/15/2013	14:24	17.30	55.34		
ROB-MW4d	8/22/2013	8:20	18.01	54.63		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ROB-MW4d	9/9/2013	12:09	18.28	54.36		
ROB-MW4d	10/7/2013	12:47	18.51	54.13		
ROB-MW4d	11/12/2013	16:01	17.84	54.80		
ROB-MW4d	12/17/2013	12:13	16.52	56.12		
ROB-MW4d	1/13/2014	11:53	16.82	55.82		
ROB-MW4d	2/18/2014	8:42	18.02	54.62		
ROB-MW4d	3/16/2014	11:59	17.88	54.76		
ROB-MW4d	4/20/2014	10:20	18.45	54.19		
ROB-MW4d	5/20/2014	9:00	18.82	53.82		
ROB-MW4d	6/19/2014	11:15	19.51	53.13		
ROB-MW4d	7/17/2014	18:20	20.66	51.98		
ROB-MW4d	8/19/2014	16:00	22.11	50.53		
ROB-MW4d	9/19/2014	18:12	22.80	49.84		
ROB-MW4d	10/14/2014	12:39	23.30	49.34		
ROB-MW4d	11/5/2014	13:49	22.91	49.73		
ROB-MW4d	12/14/2014	13:23	21.74	50.90		
ROB-MW4d	1/12/2015	14:32	20.44	52.20		
ROB-MW4d	2/5/2015	10:27	19.49	53.15		
ROB-MW4d	3/13/2015	12:27	18.42	54.22		
ROB-MW4d	4/17/2015	10:26	19.63	53.01		
ROB-MW4d	5/12/2015	7:48	20.10	52.54		
ROB-MW4d	6/5/2015	9:23	21.18	51.46		
ROB-MW4d	7/13/2015	13:53	23.03	49.61		
ROB-MW4d	8/20/2015	14:15	25.24	47.40		
ROB-MW4d	9/14/2015	9:25	26.05	46.59		
ROB-MW4d	10/16/2015	9:45	26.63	46.01		
ROB-MW4d	11/11/2015	10:49	26.25	46.39		
ROB-MW4d	12/23/2015	12:20	24.86	47.78		
ROB-MW4d	1/15/2016	12:29	24.15	48.49		
ROB-MW4d	2/17/2016	13:02	23.09	49.55		
ROB-MW4d	3/18/2016	11:47	22.28	50.36		
ROB-MW4d	4/18/2016	12:19	21.52	51.12		
ROB-MW4d	5/17/2016	12:51	21.55	51.09		
ROB-MW4d	6/17/2016	15:10	22.58	50.06		
ROB-MW4d	7/21/2016	11:53	24.09	48.55		
ROB-MW4d	8/16/2016	12:33	25.67	46.97		
ROB-MW4d	9/15/2016	11:34	26.73	45.91		
ROB-MW4d	10/14/2016	12:04	27.33	45.31		
ROB-MW4d	11/29/2016	9:31	26.87	45.77		
ROB-MW4d	12/12/2016	12:02	26.22	46.42		
ROB-MW4d	1/25/2017	11:19	24.41	48.23		
ROB-MW4d	2/1/2017		N/M			
ROB-MW4d	3/14/2017	8:32	21.94	50.70		
ROB-MW4d	4/20/2017	11:37	20.00	52.64		
ROB-MW4d	5/17/2017	8:56	18.63	54.01		
ROB-MW4d	6/24/2017	11:10	15.81	56.83		
ROB-MW4d	7/14/2017	11:24	14.73	57.91		
ROB-MW4d	8/25/2017	9:45	12.71	59.93		
ROB-MW4d	9/22/2017	12:18	12.08	60.56		
ROB-MW4d	10/19/2017	11:58	12.37	60.27		
ROB-MW4d	11/17/2017	12:58	12.11	60.53		
ROB-MW4d	12/21/2017	12:22	12.32	60.32		
ROB-MW4d	1/23/2018	11:56	12.02	60.62		
ROB-MW4d	2/20/2018	9:27	12.34	60.30		
ROB-MW4d	3/1/2018		N/M			
ROB-MW4d	4/24/2018	10:25	11.19	61.45		
ROB-MW4d	5/8/2018	13:26	11.03	61.61		
ROB-MW4d	6/13/2018	12:22	10.59	62.05		
ROB-MW4d	7/16/2018	10:30	10.57	62.07		
ROB-MW4d	8/20/2018	8:40	11.57	61.07		
ROB-MW4d	9/16/2018	13:37	10.74	61.90		
ROB-MW4d	10/25/2018	11:34	12.21	60.43		
ROB-MW4d	11/13/2018	8:54	12.80	59.84		
ROB-MW4d	12/15/2018	10:04	12.78	59.86		
ROB-MW4d	1/25/2019	11:21	12.22	60.42		
ROB-MW4d	2/20/2019	9:06	11.51	61.13		
ROB-MW4d	3/16/2019	13:13	10.81	61.83		
ROB-MW4d	4/16/2019	13:46	10.32	62.32		
ROB-MW4d	5/21/2019	8:31	10.33	62.31		
ROB-MW4d	6/20/2019	12:13	9.61	63.03		
ROB-MW4d	7/17/2019	12:53	8.40	64.24		
ROB-MW4d	8/14/2019	8:21	7.37	65.27		
ROB-MW4d	9/27/2019	14:20	8.95	63.69		
ROB-MW4d	10/28/2019	16:22	8.78	63.86		
ROB-MW4d	11/12/2019	9:16	9.15	63.49		
ROB-MW4d	12/14/2019	9:48	8.46	64.18		
ROB-MW5s	1/29/2012	11:28	10.61	63.43	<|0.05|	0
ROB-MW5s	2/7/2012	12:23	10.52	63.52	<|0.05|	0
ROB-MW5s	3/5/2012	16:29	Dry			
ROB-MW5s	4/5/2012	12:54	10.99	63.05	<|0.05|	0
ROB-MW5s	5/8/2012	14:01	11.40	62.64	<|0.05|	0
ROB-MW5s	6/18/2012	9:27	12.23	61.81	<|0.05|	0
ROB-MW5s	7/9/2012	9:40	12.42	61.62	<|0.05|	0
ROB-MW5s	8/13/2012	10:50	Dry			
ROB-MW5s	9/17/2012	10:56	Dry			
ROB-MW5s	10/19/2012	10:08	Dry			
ROB-MW5s	12/4/2012	12:05	Dry			
ROB-MW5s	12/28/2012	9:27	14.19	59.85	-0.19	-0.01
ROB-MW5s	1/15/2013	13:25	14.48	59.56	<|0.05|	0
ROB-MW5s	2/16/2013	13:32	13.63	60.41	<|0.05|	0
ROB-MW5s	3/18/2013	13:12	Dry			
ROB-MW5s	4/16/2013	9:25	Dry			
ROB-MW5s	5/28/2013	10:27	Dry			
ROB-MW5s	6/17/2013	17:29	Dry			
ROB-MW5s	7/15/2013	14:19	Dry			
ROB-MW5s	8/22/2013	8:16	Dry			
ROB-MW5s	9/9/2013	12:04	Dry			
ROB-MW5s	10/7/2013	12:53	Dry			
ROB-MW5s	11/12/2013	16:06	Dry			
ROB-MW5s	12/17/2013	12:17	Dry			
ROB-MW5s	1/13/2014	11:58	Dry			
ROB-MW5s	2/18/2014	8:37	Dry			
ROB-MW5s	3/16/2014	12:04	Dry			
ROB-MW5s	4/20/2014	10:25	Dry			
ROB-MW5s	5/20/2014	8:54	Dry			
ROB-MW5s	6/19/2014	11:19	Dry			
ROB-MW5s	7/17/2014	18:25	Dry			
ROB-MW5s	8/19/2014	16:05	Dry			
ROB-MW5s	9/19/2014	18:18	Dry			
ROB-MW5s	10/14/2014	12:43	Dry			
ROB-MW5s	11/5/2014	13:54	Dry			
ROB-MW5s	12/14/2014	13:28	Dry			
ROB-MW5s	1/12/2015	14:39	Dry			
ROB-MW5s	2/5/2015	10:32	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ROB-MW5s	3/13/2015	12:33	Dry			
ROB-MW5s	4/17/2015	10:31	Dry			
ROB-MW5s	5/12/2015	7:42	Dry			
ROB-MW5s	6/5/2015	9:28	Dry			
ROB-MW5s	7/13/2015	13:50	Dry			
ROB-MW5s	8/20/2015	14:30	Dry			
ROB-MW5s	9/14/2015	9:42	Dry			
ROB-MW5s	10/16/2015	9:52	Dry			
ROB-MW5s	11/11/2015	10:59	Dry			
ROB-MW5s	12/23/2015	12:53	Dry			
ROB-MW5s	1/15/2016	12:44	Dry			
ROB-MW5s	2/17/2016	13:14	Dry			
ROB-MW5s	3/18/2016	11:52	Dry			
ROB-MW5s	4/18/2016	12:23	Dry			
ROB-MW5s	5/17/2016	12:56	Dry			
ROB-MW5s	6/17/2016	15:14	Dry			
ROB-MW5s	7/21/2016	11:57	Dry			
ROB-MW5s	8/16/2016	12:38	Dry			
ROB-MW5s	9/15/2016	11:47	Dry			
ROB-MW5s	10/14/2016	12:09	Dry			
ROB-MW5s	11/29/2016	9:25	Dry			
ROB-MW5s	12/12/2016	12:16	Dry			
ROB-MW5s	1/25/2017	11:03	Dry			
ROB-MW5s	2/1/2017		N/M			
ROB-MW5s	3/14/2017	8:45	Dry			
ROB-MW5s	4/20/2017	11:24	Dry			
ROB-MW5s	5/17/2017	9:03	Dry			
ROB-MW5s	6/24/2017	10:55	Dry			
ROB-MW5s	7/14/2017	11:09	Dry			
ROB-MW5s	8/25/2017	9:50	14.58	59.46	<|0.05|	0
ROB-MW5s	9/22/2017	11:56	13.61	60.43	<|0.05|	0
ROB-MW5s	10/19/2017	11:42	14.40	59.64	-1.00	-0.08
ROB-MW5s	11/17/2017	13:04	Dry			
ROB-MW5s	12/21/2017	12:13	13.20	60.84	<|0.05|	0
ROB-MW5s	1/23/2018	11:40	13.05	60.99	<|0.05|	0
ROB-MW5s	2/20/2018	9:08	13.43	60.61	<|0.05|	0
ROB-MW5s	3/1/2018		N/M			
ROB-MW5s	4/24/2018	10:28	12.96	61.08	<|0.05|	0
ROB-MW5s	5/8/2018	12:34	12.60	61.44	<|0.05|	0
ROB-MW5s	6/13/2018	12:06	11.93	62.11	<|0.05|	0
ROB-MW5s	7/16/2018	10:17	12.06	61.98	<|0.05|	0
ROB-MW5s	8/20/2018	8:33	13.18	60.86	<|0.05|	0
ROB-MW5s	9/16/2018	13:22	13.00	61.04	<|0.05|	0
ROB-MW5s	10/25/2018	11:18	13.39	60.65	<|0.05|	0
ROB-MW5s	11/13/2018	8:49	13.89	60.15	<|0.05|	0
ROB-MW5s	12/15/2018	9:49	13.64	60.40	<|0.05|	0
ROB-MW5s	1/25/2019	11:04	13.10	60.94	<|0.05|	0
ROB-MW5s	2/20/2019	9:34	12.42	61.62	<|0.05|	0
ROB-MW5s	3/16/2019	13:00	11.85	62.19	<|0.05|	0
ROB-MW5s	4/16/2019	13:50	11.67	62.37	<|0.05|	0
ROB-MW5s	5/21/2019	8:26	11.50	62.54	<|0.05|	0
ROB-MW5s	6/20/2019	11:54	10.72	63.32	<|0.05|	0
ROB-MW5s	7/17/2019	12:57	9.97	64.07	<|0.05|	0
ROB-MW5s	8/14/2019	8:16	10.35	63.69	<|0.05|	0
ROB-MW5s	9/27/2019	14:24	9.93	64.11	<|0.05|	0
ROB-MW5s	10/28/2019	16:35	10.20	63.84	<|0.05|	0
ROB-MW5s	11/12/2019	9:20	10.09	63.95	<|0.05|	0
ROB-MW5s	12/14/2019	9:33	9.78	64.26	<|0.05|	0
ROB-MW5d	1/29/2012	11:28	10.48	63.45		
ROB-MW5d	2/7/2012	12:24	10.42	63.51		
ROB-MW5d	3/5/2012	16:30	19.16	54.77		
ROB-MW5d	4/5/2012	12:55	10.87	63.06		
ROB-MW5d	5/8/2012	14:02	11.27	62.66		
ROB-MW5d	6/18/2012	9:26	12.10	61.83		
ROB-MW5d	7/9/2012	9:39	12.28	61.65		
ROB-MW5d	8/13/2012	10:51	15.31	58.62		
ROB-MW5d	9/17/2012	10:55	16.16	57.77		
ROB-MW5d	10/19/2012	10:08	18.29	55.64		
ROB-MW5d	12/4/2012	12:05	16.44	57.49		
ROB-MW5d	12/28/2012	9:28	13.89	60.04		
ROB-MW5d	1/15/2013	13:26	14.34	59.59		
ROB-MW5d	2/16/2013	13:32	13.49	60.44		
ROB-MW5d	3/18/2013	13:13	14.92	59.01		
ROB-MW5d	4/16/2013	9:25	16.56	57.37		
ROB-MW5d	5/28/2013	10:27	17.56	56.37		
ROB-MW5d	6/17/2013	17:29	17.89	56.04		
ROB-MW5d	7/15/2013	14:19	18.41	55.52		
ROB-MW5d	8/22/2013	8:16	19.24	54.69		
ROB-MW5d	9/9/2013	12:04	19.23	54.70		
ROB-MW5d	10/7/2013	12:53	19.23	54.70		
ROB-MW5d	11/12/2013	16:06	18.04	55.89		
ROB-MW5d	12/17/2013	12:17	16.84	57.09		
ROB-MW5d	1/13/2014	11:58	17.32	56.61		
ROB-MW5d	2/18/2014	8:37	18.93	55.00		
ROB-MW5d	3/16/2014	12:04	18.79	55.14		
ROB-MW5d	4/20/2014	10:25	19.50	54.43		
ROB-MW5d	5/20/2014	8:54	19.96	53.97		
ROB-MW5d	6/19/2014	11:19	20.96	52.97		
ROB-MW5d	7/17/2014	18:25	22.38	51.55		
ROB-MW5d	8/19/2014	16:05	23.70	50.23		
ROB-MW5d	9/19/2014	18:18	23.65	50.28		
ROB-MW5d	10/14/2014	12:43	24.11	49.82		
ROB-MW5d	11/5/2014	13:54	23.13	50.80		
ROB-MW5d	12/14/2014	13:28	21.81	52.12		
ROB-MW5d	1/12/2015	14:39	20.62	53.31		
ROB-MW5d	2/5/2015	10:32	19.52	54.41		
ROB-MW5d	3/13/2015	12:33	18.90	55.03		
ROB-MW5d	4/17/2015	10:31	20.68	53.25		
ROB-MW5d	5/12/2015	7:42	21.70	52.23		
ROB-MW5d	6/5/2015	9:28	23.08	50.85		
ROB-MW5d	7/13/2015	13:50	25.72	48.21		
ROB-MW5d	8/20/2015	14:30	Dry			
ROB-MW5d	9/14/2015	9:43	Dry			
ROB-MW5d	10/16/2015	9:53	Dry			
ROB-MW5d	11/11/2015	10:59	27.39	46.54		
ROB-MW5d	12/23/2015	12:54	25.09	48.84		
ROB-MW5d	1/15/2016	12:45	24.24	49.69		
ROB-MW5d	2/17/2016	13:15	23.01	50.92		
ROB-MW5d	3/18/2016	11:52	22.43	51.50		
ROB-MW5d	4/18/2016	12:23	22.10	51.83		
ROB-MW5d	5/17/2016	12:56	22.97	50.96		
ROB-MW5d	6/17/2016	15:15	25.35	48.58		
ROB-MW5d	7/21/2016	11:57	26.45	47.48		
ROB-MW5d	8/16/2016	12:38	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ROB-MW5d	9/15/2016	11:48	Dry			
ROB-MW5d	10/14/2016	12:09	Dry			
ROB-MW5d	11/29/2016	9:25	Dry			
ROB-MW5d	12/12/2016	12:17	26.90	47.03		
ROB-MW5d	1/25/2017	11:04	24.52	49.41		
ROB-MW5d	2/1/2017		N/M			
ROB-MW5d	3/14/2017	8:46	21.91	52.02		
ROB-MW5d	4/20/2017	11:25	20.60	53.33		
ROB-MW5d	5/17/2017	9:02	19.44	54.49		
ROB-MW5d	6/24/2017	10:54	17.38	56.55		
ROB-MW5d	7/14/2017	11:10	16.19	57.74		
ROB-MW5d	8/25/2017	9:50	14.42	59.51		
ROB-MW5d	9/22/2017	11:57	13.50	60.43		
ROB-MW5d	10/19/2017	11:43	13.29	60.64		
ROB-MW5d	11/17/2017	13:04	12.20	61.73		
ROB-MW5d	12/21/2017	12:14	13.09	60.84		
ROB-MW5d	1/23/2018	11:41	12.93	61.00		
ROB-MW5d	2/20/2018	9:09	13.31	60.62		
ROB-MW5d	3/1/2018		N/M			
ROB-MW5d	4/24/2018	10:29	12.84	61.09		
ROB-MW5d	5/8/2018	12:35	12.52	61.41		
ROB-MW5d	6/13/2018	12:07	11.85	62.08		
ROB-MW5d	7/16/2018	10:18	11.96	61.97		
ROB-MW5d	8/20/2018	8:33	13.10	60.83		
ROB-MW5d	9/16/2018	13:22	12.91	61.02		
ROB-MW5d	10/25/2018	11:19	13.29	60.64		
ROB-MW5d	11/13/2018	8:49	13.75	60.18		
ROB-MW5d	12/15/2018	9:50	13.52	60.41		
ROB-MW5d	1/25/2019	11:05	13.00	60.93		
ROB-MW5d	2/20/2019	9:35	12.30	61.63		
ROB-MW5d	3/16/2019	13:01	11.72	62.21		
ROB-MW5d	4/16/2019	13:50	11.55	62.38		
ROB-MW5d	5/21/2019	8:26	11.38	62.55		
ROB-MW5d	6/20/2019	11:55	10.62	63.31		
ROB-MW5d	7/17/2019	12:57	9.85	64.08		
ROB-MW5d	8/14/2019	8:16	10.24	63.69		
ROB-MW5d	9/27/2019	14:24	9.80	64.13		
ROB-MW5d	10/28/2019	16:36	10.06	63.87		
ROB-MW5d	11/12/2019	9:20	9.98	63.95		
ROB-MW5d	12/14/2019	9:34	9.66	64.27		
ROB-MW6s	1/29/2012	11:45	12.05	61.06	<|0.05|	0
ROB-MW6s	2/7/2012	14:48	12.01	61.10	0.07	0.00
ROB-MW6s	3/5/2012	16:36	14.56	58.55	0.21	0.01
ROB-MW6s	4/5/2012	12:03	12.38	60.73	<|0.05|	0
ROB-MW6s	5/8/2012	11:38	13.61	59.50	0.09	0.00
ROB-MW6s	6/18/2012	9:37	15.00	58.11	0.07	0.00
ROB-MW6s	7/9/2012	9:50	14.50	58.61	0.09	0.00
ROB-MW6s	8/13/2012	10:20	16.25	56.86	0.19	0.01
ROB-MW6s	9/17/2012	11:03	17.33	55.78	0.11	0.01
ROB-MW6s	10/19/2012	10:26	18.77	54.34	<|0.05|	0
ROB-MW6s	12/4/2012	11:47	16.54	56.57	<|0.05|	0
ROB-MW6s	12/28/2012	9:30	14.88	58.23	<|0.05|	0
ROB-MW6s	1/15/2013	13:55	14.97	58.14	<|0.05|	0
ROB-MW6s	2/16/2013	14:14	14.13	58.98	0.20	0.01
ROB-MW6s	3/18/2013	13:32	14.50	58.61	0.87	0.04
ROB-MW6s	4/16/2013	9:56	15.81	57.30	<|0.05|	0
ROB-MW6s	5/28/2013	9:55	17.11	56.00	0.06	0.00
ROB-MW6s	6/17/2013	16:58	16.30	56.81	0.10	0.00
ROB-MW6s	7/15/2013	14:50	16.78	56.33	0.14	0.01
ROB-MW6s	8/22/2013	8:47	17.18	55.93	0.10	0.00
ROB-MW6s	9/9/2013	12:32	18.87	54.24	<|0.05|	0
ROB-MW6s	10/7/2013	12:19	18.94	54.17	0.06	0.00
ROB-MW6s	11/12/2013	15:27	18.15	54.96	<|0.05|	0
ROB-MW6s	12/17/2013	11:50	17.64	55.47	<|0.05|	0
ROB-MW6s	1/13/2014	11:31	18.42	54.69	<|0.05|	0
ROB-MW6s	2/18/2014	9:11	19.99	53.12	0.31	0.02
ROB-MW6s	3/16/2014	11:40	19.63	53.48	<|0.05|	0
ROB-MW6s	4/20/2014	9:59	20.18	52.93	<|0.05|	0
ROB-MW6s	5/20/2014	9:23	20.52	52.59	0.05	0.00
ROB-MW6s	6/19/2014	10:51	21.99	51.12	0.13	0.01
ROB-MW6s	7/17/2014	17:58	22.98	50.13	-0.58	-0.03
ROB-MW6s	8/19/2014	15:35	23.80	49.31	0.17	0.01
ROB-MW6s	9/19/2014	17:48	24.42	48.69	0.08	0.00
ROB-MW6s	10/14/2014	12:18	24.95	48.16	<|0.05|	0
ROB-MW6s	11/5/2014	13:28	24.53	48.58	<|0.05|	0
ROB-MW6s	12/14/2014	12:57	23.45	49.66	<|0.05|	0
ROB-MW6s	1/12/2015	14:11	21.74	51.37	<|0.05|	0
ROB-MW6s	2/5/2015	10:06	20.83	52.28	<|0.05|	0
ROB-MW6s	3/13/2015	12:03	21.14	51.97	0.14	0.01
ROB-MW6s	4/17/2015	10:00	23.23	49.88	<|0.05|	0
ROB-MW6s	5/12/2015	8:13	23.60	49.51	0.07	0.00
ROB-MW6s	6/5/2015	9:40	24.23	48.88	0.15	0.01
ROB-MW6s	7/13/2015	14:10	25.32	47.79	0.17	0.01
ROB-MW6s	8/20/2015	14:32	Dry			
ROB-MW6s	9/14/2015	9:07	26.55	46.56	<|0.05|	0
ROB-MW6s	10/16/2015	9:38	27.13	45.98	0.07	0.00
ROB-MW6s	11/11/2015	11:19	26.75	46.36	<|0.05|	0
ROB-MW6s	12/23/2015	12:43	25.60	47.51	<|0.05|	0
ROB-MW6s	1/15/2016	12:58	24.99	48.12	<|0.05|	0
ROB-MW6s	2/17/2016	12:53	23.92	49.19	<|0.05|	0
ROB-MW6s	3/18/2016	11:25	23.03	50.08	<|0.05|	0
ROB-MW6s	4/18/2016	11:53	22.10	51.01	0.06	0.00
ROB-MW6s	5/17/2016	12:29	22.93	50.18	0.10	0.00
ROB-MW6s	6/17/2016	14:50	23.94	49.17	0.13	0.01
ROB-MW6s	7/21/2016	11:25	25.38	47.73	0.18	0.01
ROB-MW6s	8/16/2016	12:04	26.03	47.08	0.39	0.02
ROB-MW6s	9/15/2016	11:20	Dry			
ROB-MW6s	10/14/2016	11:36	Dry			
ROB-MW6s	11/29/2016	9:59	Dry			
ROB-MW6s	12/12/2016	11:50	26.60	46.51	0.07	0.00
ROB-MW6s	1/25/2017	11:33	24.50	48.61	<|0.05|	0
ROB-MW6s	2/1/2017		N/M			
ROB-MW6s	3/14/2017	8:20	22.24	50.87	<|0.05|	0
ROB-MW6s	4/20/2017	11:49	20.41	52.70	<|0.05|	0
ROB-MW6s	5/17/2017	8:45	18.14	54.97	<|0.05|	0
ROB-MW6s	6/24/2017	11:24	16.60	56.51	<|0.05|	0
ROB-MW6s	7/14/2017	11:35	16.41	56.70	<|0.05|	0
ROB-MW6s	8/25/2017	9:24	14.10	59.01	<|0.05|	0
ROB-MW6s	9/22/2017	12:28	14.55	58.56	<|0.05|	0
ROB-MW6s	10/19/2017	12:06	13.75	59.36	<|0.05|	0
ROB-MW6s	11/17/2017	12:31	14.34	58.77	<|0.05|	0
ROB-MW6s	12/21/2017	12:43	14.57	58.54	<|0.05|	0
ROB-MW6s	1/23/2018	12:09	14.38	58.73	<|0.05|	0
ROB-MW6s	2/20/2018	9:38	14.71	58.40	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ROB-MW6s	3/1/2018		N/M			
ROB-MW6s	4/24/2018	10:00	14.36	58.75	<|0.05|	0
ROB-MW6s	5/8/2018	13:13	14.12	58.99	<|0.05|	0
ROB-MW6s	6/13/2018	12:34	13.87	59.24	0.05	0.00
ROB-MW6s	7/16/2018	10:41	14.98	58.13	<|0.05|	0
ROB-MW6s	8/20/2018	9:03	14.85	58.26	-0.12	-0.01
ROB-MW6s	9/16/2018	13:51	15.46	57.65	<|0.05|	0
ROB-MW6s	10/25/2018	11:47	16.52	56.59	0.05	0.00
ROB-MW6s	11/13/2018	9:19	16.87	56.24	<|0.05|	0
ROB-MW6s	12/15/2018	10:18	15.18	57.93	<|0.05|	0
ROB-MW6s	1/25/2019	11:32	14.17	58.94	<|0.05|	0
ROB-MW6s	2/20/2019	8:54	13.38	59.73	<|0.05|	0
ROB-MW6s	3/16/2019	13:24	12.85	60.26	-0.06	-0.00
ROB-MW6s	4/16/2019	14:11	12.73	60.38	<|0.05|	0
ROB-MW6s	5/21/2019	9:02	12.70	60.41	<|0.05|	0
ROB-MW6s	6/20/2019	12:24	10.99	62.12	<|0.05|	0
ROB-MW6s	7/17/2019	12:32	10.78	62.33	<|0.05|	0
ROB-MW6s	8/14/2019	8:51	10.82	62.29	<|0.05|	0
ROB-MW6s	9/27/2019	14:10	12.20	60.91	<|0.05|	0
ROB-MW6s	10/28/2019	16:03	11.60	61.51	<|0.05|	0
ROB-MW6s	11/12/2019	8:51	12.05	61.06	<|0.05|	0
ROB-MW6s	12/14/2019	9:59	10.02	63.09	<|0.05|	0
ROB-MW6d	1/29/2012	11:47	11.92	61.02		
ROB-MW6d	2/7/2012	14:49	11.91	61.03		
ROB-MW6d	3/5/2012	16:38	14.60	58.34		
ROB-MW6d	4/5/2012	12:03	12.25	60.69		
ROB-MW6d	5/8/2012	11:39	13.53	59.41		
ROB-MW6d	6/18/2012	9:36	14.90	58.04		
ROB-MW6d	7/9/2012	9:49	14.42	58.52		
ROB-MW6d	8/13/2012	10:21	16.27	56.67		
ROB-MW6d	9/17/2012	11:03	17.27	55.67		
ROB-MW6d	10/19/2012	10:26	18.62	54.32		
ROB-MW6d	12/4/2012	11:47	16.37	56.57		
ROB-MW6d	12/28/2012	9:31	14.70	58.24		
ROB-MW6d	1/15/2013	13:56	14.78	58.16		
ROB-MW6d	2/16/2013	14:14	14.16	58.78		
ROB-MW6d	3/18/2013	13:33	15.20	57.74		
ROB-MW6d	4/16/2013	9:56	15.69	57.25		
ROB-MW6d	5/28/2013	9:55	17.00	55.94		
ROB-MW6d	6/17/2013	16:58	16.23	56.71		
ROB-MW6d	7/15/2013	14:50	16.75	56.19		
ROB-MW6d	8/22/2013	8:47	17.11	55.83		
ROB-MW6d	9/9/2013	12:32	18.74	54.20		
ROB-MW6d	10/7/2013	12:19	18.83	54.11		
ROB-MW6d	11/12/2013	15:27	18.00	54.94		
ROB-MW6d	12/17/2013	11:50	17.43	55.51		
ROB-MW6d	1/13/2014	11:31	18.29	54.65		
ROB-MW6d	2/18/2014	9:11	20.13	52.81		
ROB-MW6d	3/16/2014	11:40	19.50	53.44		
ROB-MW6d	4/20/2014	9:59	20.04	52.90		
ROB-MW6d	5/20/2014	9:23	20.40	52.54		
ROB-MW6d	6/19/2014	10:51	21.95	50.99		
ROB-MW6d	7/17/2014	17:58	22.23	50.71		
ROB-MW6d	8/19/2014	15:35	23.80	49.14		
ROB-MW6d	9/19/2014	17:48	24.33	48.61		
ROB-MW6d	10/14/2014	12:18	24.78	48.16		
ROB-MW6d	11/5/2014	13:28	24.35	48.59		
ROB-MW6d	12/14/2014	12:57	23.24	49.70		
ROB-MW6d	1/12/2015	14:11	21.53	51.41		
ROB-MW6d	2/5/2015	10:06	20.66	52.28		
ROB-MW6d	3/13/2015	12:03	21.11	51.83		
ROB-MW6d	4/17/2015	10:00	23.08	49.86		
ROB-MW6d	5/12/2015	8:13	23.50	49.44		
ROB-MW6d	6/5/2015	9:40	24.21	48.73		
ROB-MW6d	7/13/2015	14:10	25.32	47.62		
ROB-MW6d	8/20/2015	14:32	26.02	46.92		
ROB-MW6d	9/14/2015	9:08	26.41	46.53		
ROB-MW6d	10/16/2015	9:39	27.03	45.91		
ROB-MW6d	11/11/2015	11:19	26.62	46.32		
ROB-MW6d	12/23/2015	12:44	25.41	47.53		
ROB-MW6d	1/15/2016	12:59	24.81	48.13		
ROB-MW6d	2/17/2016	12:54	23.77	49.17		
ROB-MW6d	3/18/2016	11:26	22.84	50.10		
ROB-MW6d	4/18/2016	11:53	21.99	50.95		
ROB-MW6d	5/17/2016	12:29	22.86	50.08		
ROB-MW6d	6/17/2016	14:51	23.90	49.04		
ROB-MW6d	7/21/2016	11:25	25.39	47.55		
ROB-MW6d	8/16/2016	12:04	26.25	46.69		
ROB-MW6d	9/15/2016	11:21	27.33	45.61		
ROB-MW6d	10/14/2016	11:36	28.10	44.84		
ROB-MW6d	11/29/2016	9:59	27.04	45.90		
ROB-MW6d	12/12/2016	11:51	26.50	46.44		
ROB-MW6d	1/25/2017	11:34	24.31	48.63		
ROB-MW6d	2/1/2017		N/M			
ROB-MW6d	3/14/2017	8:19	22.12	50.82		
ROB-MW6d	4/20/2017	11:50	20.22	52.72		
ROB-MW6d	5/17/2017	8:44	17.96	54.98		
ROB-MW6d	6/24/2017	11:23	16.42	56.52		
ROB-MW6d	7/14/2017	11:36	16.26	56.68		
ROB-MW6d	8/25/2017	9:24	13.93	59.01		
ROB-MW6d	9/22/2017	12:29	14.40	58.54		
ROB-MW6d	10/19/2017	12:07	13.58	59.36		
ROB-MW6d	11/17/2017	12:31	14.18	58.76		
ROB-MW6d	12/21/2017	12:44	14.45	58.49		
ROB-MW6d	1/23/2018	12:10	14.20	58.74		
ROB-MW6d	2/20/2018	9:38	14.55	58.39		
ROB-MW6d	3/1/2018		N/M			
ROB-MW6d	4/24/2018	10:01	14.22	58.72		
ROB-MW6d	5/8/2018	13:14	13.97	58.97		
ROB-MW6d	6/13/2018	12:35	13.75	59.19		
ROB-MW6d	7/16/2018	10:42	14.84	58.10		
ROB-MW6d	8/20/2018	9:03	14.56	58.38		
ROB-MW6d	9/16/2018	13:51	15.31	57.63		
ROB-MW6d	10/25/2018	11:48	16.40	56.54		
ROB-MW6d	11/13/2018	9:19	16.74	56.20		
ROB-MW6d	12/15/2018	10:19	15.00	57.94		
ROB-MW6d	1/25/2019	11:33	13.98	58.96		
ROB-MW6d	2/20/2019	8:55	13.20	59.74		
ROB-MW6d	3/16/2019	13:24	12.62	60.32		
ROB-MW6d	4/16/2019	14:11	12.55	60.39		
ROB-MW6d	5/21/2019	9:02	12.55	60.39		
ROB-MW6d	6/20/2019	12:25	10.81	62.13		
ROB-MW6d	7/17/2019	12:32	10.63	62.31		
ROB-MW6d	8/14/2019	8:51	10.69	62.25		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ROB-MW6d	9/27/2019	14:10	12.03	60.91		
ROB-MW6d	10/28/2019	16:04	11.45	61.49		
ROB-MW6d	11/12/2019	8:51	11.88	61.06		
ROB-MW6d	12/14/2019	10:00	9.87	63.07		
ROB-MW7s	1/29/2012	11:50	10.75	61.42	0.39	0.02
ROB-MW7s	2/7/2012	14:25	10.73	61.44	0.29	0.01
ROB-MW7s	3/5/2012	16:41	11.08	61.09	0.16	0.01
ROB-MW7s	4/5/2012	11:55	10.20	61.97	1.22	0.06
ROB-MW7s	5/8/2012	10:56	11.07	61.10	1.77	0.09
ROB-MW7s	6/18/2012	9:34	12.93	59.24	0.93	0.05
ROB-MW7s	7/9/2012	9:45	13.20	58.97	1.18	0.06
ROB-MW7s	8/13/2012	10:15	15.85	56.32	2.73	0.13
ROB-MW7s	9/17/2012	11:00	17.32	54.85	0.64	0.03
ROB-MW7s	10/19/2012	10:20	17.49	54.68	0.24	0.01
ROB-MW7s	12/4/2012	11:50	15.84	56.33	-0.09	-0.00
ROB-MW7s	12/28/2012	9:41	15.64	56.53	0.16	0.01
ROB-MW7s	1/15/2013	13:51	14.16	58.01	-0.18	-0.01
ROB-MW7s	2/16/2013	14:03	13.65	58.52	0.44	0.02
ROB-MW7s	3/18/2013	13:40	14.88	57.29	1.43	0.07
ROB-MW7s	4/16/2013	9:51	15.37	56.80	0.57	0.03
ROB-MW7s	5/28/2013	10:02	17.09	55.08	0.54	0.03
ROB-MW7s	6/17/2013	17:04	17.15	55.02	1.01	0.05
ROB-MW7s	7/15/2013	14:44	18.10	54.07	2.13	0.10
ROB-MW7s	8/22/2013	8:42	19.09	53.08	1.94	0.09
ROB-MW7s	9/9/2013	12:27	18.85	53.32	0.36	0.02
ROB-MW7s	10/7/2013	12:25	19.12	53.05	1.31	0.06
ROB-MW7s	11/12/2013	15:42	17.50	54.67	-0.06	-0.00
ROB-MW7s	12/17/2013	11:56	16.54	55.63	<|0.05|	0
ROB-MW7s	1/13/2014	11:37	17.43	54.74	0.61	0.03
ROB-MW7s	2/18/2014	9:06	18.70	53.47	<|0.05|	0
ROB-MW7s	3/16/2014	11:44	18.36	53.81	0.54	0.03
ROB-MW7s	4/20/2014	10:03	18.48	53.69	0.47	0.02
ROB-MW7s	5/20/2014	9:18	19.19	52.98	0.96	0.05
ROB-MW7s	6/19/2014	10:56	21.24	50.93	2.71	0.13
ROB-MW7s	7/17/2014	18:05	22.79	49.38	2.48	0.12
ROB-MW7s	8/19/2014	15:42	24.12	48.05	1.91	0.09
ROB-MW7s	9/19/2014	17:53	23.45	48.72	0.68	0.03
ROB-MW7s	10/14/2014	12:22	24.00	48.17	0.22	0.01
ROB-MW7s	11/5/2014	13:33	23.10	49.07	-0.37	-0.02
ROB-MW7s	12/14/2014	13:03	21.80	50.37	-0.39	-0.02
ROB-MW7s	1/12/2015	14:16	20.29	51.88	-0.63	-0.03
ROB-MW7s	2/5/2015	10:12	19.35	52.82	-0.32	-0.02
ROB-MW7s	3/13/2015	12:08	19.91	52.26	-0.09	-0.00
ROB-MW7s	4/17/2015	10:11	21.30	50.87	0.33	0.02
ROB-MW7s	5/12/2015	8:07	21.80	50.37	1.49	0.07
ROB-MW7s	6/5/2015	9:32	22.98	49.19	1.78	0.09
ROB-MW7s	7/13/2015	14:07	25.75	46.42	2.53	0.12
ROB-MW7s	8/20/2015	14:35	27.83	44.34	1.99	0.10
ROB-MW7s	9/14/2015	9:13	26.67	45.50	0.18	0.01
ROB-MW7s	10/16/2015	9:31	27.32	44.85	0.32	0.02
ROB-MW7s	11/11/2015	10:38	25.68	46.49	-0.30	-0.01
ROB-MW7s	12/23/2015	12:37	24.09	48.08	-0.43	-0.02
ROB-MW7s	1/15/2016	12:53	23.48	48.69	-0.42	-0.02
ROB-MW7s	2/17/2016	12:58	22.56	49.61	-0.18	-0.01
ROB-MW7s	3/18/2016	11:31	20.86	51.31	-0.37	-0.02
ROB-MW7s	4/18/2016	12:00	21.52	50.65	0.84	0.04
ROB-MW7s	5/17/2016	12:34	22.58	49.59	0.80	0.04
ROB-MW7s	6/17/2016	15:01	24.21	47.96	1.59	0.08
ROB-MW7s	7/21/2016	11:32	26.90	45.27	2.43	0.12
ROB-MW7s	8/16/2016	12:11	Dry			
ROB-MW7s	9/15/2016	11:24	Dry			
ROB-MW7s	10/14/2016	11:44	Dry			
ROB-MW7s	11/29/2016	9:52	25.60	46.57	-0.54	-0.03
ROB-MW7s	12/12/2016	11:53	24.81	47.36	-0.43	-0.02
ROB-MW7s	1/25/2017	11:26	23.31	48.86	-0.58	-0.03
ROB-MW7s	2/1/2017		N/M			
ROB-MW7s	3/14/2017	8:24	20.80	51.37	0.08	0.00
ROB-MW7s	4/20/2017	11:43	18.60	53.57	-0.21	-0.01
ROB-MW7s	5/17/2017	8:52	17.37	54.80	<|0.05|	0
ROB-MW7s	6/24/2017	11:19	15.69	56.48	0.33	0.02
ROB-MW7s	7/14/2017	11:30	15.30	56.87	2.46	0.12
ROB-MW7s	8/25/2017	9:28	13.18	58.99	<|0.05|	0
ROB-MW7s	9/22/2017	12:24	12.75	59.42	0.13	0.01
ROB-MW7s	10/19/2017	12:03	13.04	59.13	1.12	0.05
ROB-MW7s	11/17/2017	12:37	12.76	59.41	<|0.05|	0
ROB-MW7s	12/21/2017	12:38	13.11	59.06	1.14	0.06
ROB-MW7s	1/23/2018	12:02	12.74	59.43	0.11	0.01
ROB-MW7s	2/20/2018	9:35	13.18	58.99	0.66	0.03
ROB-MW7s	3/1/2018		N/M			
ROB-MW7s	4/24/2018	10:06	12.37	59.80	0.61	0.03
ROB-MW7s	5/8/2018	13:18	12.27	59.90	0.69	0.03
ROB-MW7s	6/13/2018	12:29	11.87	60.30	1.09	0.05
ROB-MW7s	7/16/2018	10:36	12.61	59.56	0.73	0.04
ROB-MW7s	8/20/2018	8:57	13.00	59.17	0.88	0.04
ROB-MW7s	9/16/2018	13:45	12.74	59.43	0.56	0.03
ROB-MW7s	10/25/2018	11:41	13.97	58.20	1.92	0.09
ROB-MW7s	11/13/2018	9:13	14.30	57.87	0.36	0.02
ROB-MW7s	12/15/2018	10:14	13.66	58.51	0.07	0.00
ROB-MW7s	1/25/2019	11:28	12.80	59.37	<|0.05|	0
ROB-MW7s	2/20/2019	8:56	11.55	60.62	0.09	0.00
ROB-MW7s	3/16/2019	13:19	11.10	61.07	0.18	0.01
ROB-MW7s	4/16/2019	14:07	11.00	61.17	0.40	0.02
ROB-MW7s	5/21/2019	8:54	10.77	61.40	0.53	0.03
ROB-MW7s	6/20/2019	12:20	10.48	61.69	0.28	0.01
ROB-MW7s	7/17/2019	12:38	9.33	62.84	0.85	0.04
ROB-MW7s	8/14/2019	8:45	9.87	62.30	1.10	0.05
ROB-MW7s	9/27/2019	14:15	10.42	61.75	0.39	0.02
ROB-MW7s	10/28/2019	15:57	10.53	61.64	0.29	0.01
ROB-MW7s	11/12/2019	8:56	10.46	61.71	0.14	0.01
ROB-MW7s	12/14/2019	9:54	9.08	63.09	0.10	0.00
ROB-MW7d	1/29/2012	11:51	10.86	61.03		
ROB-MW7d	2/7/2012	14:26	10.74	61.15		
ROB-MW7d	3/5/2012	16:43	10.96	60.93		
ROB-MW7d	4/5/2012	11:57	11.14	60.75		
ROB-MW7d	5/8/2012	10:56	12.56	59.33		
ROB-MW7d	6/18/2012	9:33	13.58	58.31		
ROB-MW7d	7/9/2012	9:44	14.10	57.79		
ROB-MW7d	8/13/2012	10:16	18.30	53.59		
ROB-MW7d	9/17/2012	11:00	17.68	54.21		
ROB-MW7d	10/19/2012	10:20	17.45	54.44		
ROB-MW7d	12/4/2012	11:50	15.47	56.42		
ROB-MW7d	12/28/2012	9:42	15.52	56.37		
ROB-MW7d	1/15/2013	13:52	13.70	58.19		
ROB-MW7d	2/16/2013	14:03	13.81	58.08		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ROB-MW7d	3/18/2013	13:41	16.03	55.86		
ROB-MW7d	4/16/2013	9:51	15.66	56.23		
ROB-MW7d	5/28/2013	10:02	17.35	54.54		
ROB-MW7d	6/17/2013	17:04	17.88	54.01		
ROB-MW7d	7/15/2013	14:44	19.95	51.94		
ROB-MW7d	8/22/2013	8:42	20.75	51.14		
ROB-MW7d	9/9/2013	12:27	18.93	52.96		
ROB-MW7d	10/7/2013	12:25	20.15	51.74		
ROB-MW7d	11/12/2013	15:42	17.16	54.73		
ROB-MW7d	12/17/2013	11:56	16.23	55.66		
ROB-MW7d	1/13/2014	11:37	17.76	54.13		
ROB-MW7d	2/18/2014	9:06	18.46	53.43		
ROB-MW7d	3/16/2014	11:44	18.62	53.27		
ROB-MW7d	4/20/2014	10:03	18.67	53.22		
ROB-MW7d	5/20/2014	9:18	19.87	52.02		
ROB-MW7d	6/19/2014	10:56	23.67	48.22		
ROB-MW7d	7/17/2014	18:05	24.99	46.90		
ROB-MW7d	8/19/2014	15:42	25.75	46.14		
ROB-MW7d	9/19/2014	17:53	23.85	48.04		
ROB-MW7d	10/14/2014	12:22	23.94	47.95		
ROB-MW7d	11/5/2014	13:33	22.45	49.44		
ROB-MW7d	12/14/2014	13:03	21.13	50.76		
ROB-MW7d	1/12/2015	14:16	19.38	52.51		
ROB-MW7d	2/5/2015	10:12	18.75	53.14		
ROB-MW7d	3/13/2015	12:08	19.54	52.35		
ROB-MW7d	4/17/2015	10:11	21.35	50.54		
ROB-MW7d	5/12/2015	8:07	23.01	48.88		
ROB-MW7d	6/5/2015	9:32	24.48	47.41		
ROB-MW7d	7/13/2015	14:07	28.00	43.89		
ROB-MW7d	8/20/2015	14:36	29.54	42.35		
ROB-MW7d	9/14/2015	9:14	26.57	45.32		
ROB-MW7d	10/16/2015	9:32	27.36	44.53		
ROB-MW7d	11/11/2015	10:38	25.10	46.79		
ROB-MW7d	12/23/2015	12:38	23.38	48.51		
ROB-MW7d	1/15/2016	12:54	22.78	49.11		
ROB-MW7d	2/17/2016	12:59	22.10	49.79		
ROB-MW7d	3/18/2016	11:32	20.21	51.68		
ROB-MW7d	4/18/2016	12:00	22.08	49.81		
ROB-MW7d	5/17/2016	12:34	23.10	48.79		
ROB-MW7d	6/17/2016	15:02	25.52	46.37		
ROB-MW7d	7/21/2016	11:32	29.05	42.84		
ROB-MW7d	8/16/2016	12:11	30.40	41.49		
ROB-MW7d	9/15/2016	11:25	29.02	42.87		
ROB-MW7d	10/14/2016	11:44	29.44	42.45		
ROB-MW7d	11/29/2016	9:52	24.78	47.11		
ROB-MW7d	12/12/2016	11:54	24.10	47.79		
ROB-MW7d	1/25/2017	11:27	22.45	49.44		
ROB-MW7d	2/1/2017		N/M			
ROB-MW7d	3/14/2017	8:23	20.60	51.29		
ROB-MW7d	4/20/2017	11:44	18.11	53.78		
ROB-MW7d	5/17/2017	8:51	17.05	54.84		
ROB-MW7d	6/24/2017	11:18	15.74	56.15		
ROB-MW7d	7/14/2017	11:31	17.48	54.41		
ROB-MW7d	8/25/2017	9:28	12.91	58.98		
ROB-MW7d	9/22/2017	12:25	12.60	59.29		
ROB-MW7d	10/19/2017	12:04	13.88	58.01		
ROB-MW7d	11/17/2017	12:37	12.44	59.45		
ROB-MW7d	12/21/2017	12:37	13.97	57.92		
ROB-MW7d	1/23/2018	12:03	12.57	59.32		
ROB-MW7d	2/20/2018	9:35	13.56	58.33		
ROB-MW7d	3/1/2018		N/M			
ROB-MW7d	4/24/2018	10:07	12.70	59.19		
ROB-MW7d	5/8/2018	13:19	12.68	59.21		
ROB-MW7d	6/13/2018	12:30	12.68	59.21		
ROB-MW7d	7/16/2018	10:37	13.06	58.83		
ROB-MW7d	8/20/2018	8:57	13.60	58.29		
ROB-MW7d	9/16/2018	13:45	13.02	58.87		
ROB-MW7d	10/25/2018	11:42	15.61	56.28		
ROB-MW7d	11/13/2018	9:13	14.38	57.51		
ROB-MW7d	12/15/2018	10:15	13.45	58.44		
ROB-MW7d	1/25/2019	11:29	12.55	59.34		
ROB-MW7d	2/20/2019	8:57	11.36	60.53		
ROB-MW7d	3/16/2019	13:20	11.00	60.89		
ROB-MW7d	4/16/2019	14:07	11.12	60.77		
ROB-MW7d	5/21/2019	8:54	11.02	60.87		
ROB-MW7d	6/20/2019	12:21	10.48	61.41		
ROB-MW7d	7/17/2019	12:38	9.90	61.99		
ROB-MW7d	8/14/2019	8:45	10.69	61.20		
ROB-MW7d	9/27/2019	14:15	10.53	61.36		
ROB-MW7d	10/28/2019	15:58	10.54	61.35		
ROB-MW7d	11/12/2019	8:56	10.32	61.57		
ROB-MW7d	12/14/2019	9:55	8.90	62.99		
ROB-MW8s	1/29/2012	11:54	10.47	61.92	0.16	0.01
ROB-MW8s	2/7/2012	14:00	10.34	62.05	0.52	0.03
ROB-MW8s	3/5/2012	16:55	10.48	61.91	-0.14	-0.01
ROB-MW8s	4/5/2012	12:11	11.02	61.37	0.44	0.02
ROB-MW8s	5/8/2012	12:06	11.33	61.06	0.46	0.02
ROB-MW8s	6/18/2012	9:04	12.57	59.82	0.17	0.01
ROB-MW8s	7/9/2012	9:21	13.33	59.06	0.47	0.02
ROB-MW8s	8/13/2012	10:27	17.05	55.34	0.90	0.04
ROB-MW8s	9/17/2012	10:36	18.09	54.30	0.08	0.00
ROB-MW8s	10/19/2012	9:48	17.90	54.49	<|0.05|	0
ROB-MW8s	12/4/2012	11:52	15.60	56.79	-0.15	-0.01
ROB-MW8s	12/28/2012	9:37	15.14	57.25	-0.09	-0.00
ROB-MW8s	1/15/2013	13:45	13.79	58.60	-0.21	-0.01
ROB-MW8s	2/16/2013	14:01	13.34	59.05	0.09	0.00
ROB-MW8s	3/18/2013	13:08	15.75	56.64	0.54	0.03
ROB-MW8s	4/16/2013	9:48	15.59	56.80	0.14	0.01
ROB-MW8s	5/28/2013	10:07	16.53	55.86	0.18	0.01
ROB-MW8s	6/17/2013	17:09	17.87	54.52	0.23	0.01
ROB-MW8s	7/15/2013	14:39	19.38	53.01	0.59	0.03
ROB-MW8s	8/22/2013	8:37	19.88	52.51	0.18	0.01
ROB-MW8s	9/9/2013	12:23	18.79	53.60	-0.08	-0.00
ROB-MW8s	10/7/2013	12:31	18.86	53.53	0.19	0.01
ROB-MW8s	11/12/2013	15:47	17.22	55.17	-0.20	-0.01
ROB-MW8s	12/17/2013	12:01	16.26	56.13	<|0.05|	0
ROB-MW8s	1/13/2014	11:40	17.82	54.57	0.44	0.02
ROB-MW8s	2/18/2014	9:00	19.16	53.23	<|0.05|	0
ROB-MW8s	3/16/2014	11:47	18.94	53.45	0.10	0.00
ROB-MW8s	4/20/2014	10:08	19.23	53.16	<|0.05|	0
ROB-MW8s	5/20/2014	9:15	20.32	52.07	0.28	0.01
ROB-MW8s	6/19/2014	11:00	23.43	48.96	1.47	0.07
ROB-MW8s	7/17/2014	18:08	26.30	46.09	1.12	0.05
ROB-MW8s	8/19/2014	15:47	27.29	45.10	0.28	0.01

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ROB-MW8s	9/19/2014	17:57	25.20	47.19	0.10	0.00
ROB-MW8s	10/14/2014	12:26	25.36	47.03	-0.09	-0.00
ROB-MW8s	11/5/2014	13:37	23.54	48.85	-0.27	-0.01
ROB-MW8s	12/14/2014	13:07	22.05	50.34	-0.29	-0.01
ROB-MW8s	1/12/2015	14:19	20.63	51.76	-0.49	-0.02
ROB-MW8s	2/5/2015	10:16	19.67	52.72	-0.40	-0.02
ROB-MW8s	3/13/2015	12:12	20.61	51.78	0.44	0.02
ROB-MW8s	4/17/2015	10:14	21.88	50.51	0.21	0.01
ROB-MW8s	5/12/2015	8:03	23.82	48.57	0.35	0.02
ROB-MW8s	6/5/2015	8:58	26.22	46.17	1.20	0.06
ROB-MW8s	7/13/2015	14:04	Dry			
ROB-MW8s	8/20/2015	14:40	27.70	44.69	4.27	0.21
ROB-MW8s	9/14/2015	8:58	27.70	44.69	-0.05	-0.00
ROB-MW8s	10/16/2015	9:28	Dry			
ROB-MW8s	11/11/2015	10:44	26.92	45.47	-0.57	-0.03
ROB-MW8s	12/23/2015	12:33	24.46	47.93	-0.40	-0.02
ROB-MW8s	1/15/2016	12:24	23.69	48.70	-0.35	-0.02
ROB-MW8s	2/17/2016	13:23	22.71	49.68	0.16	0.01
ROB-MW8s	3/18/2016	11:35	22.04	50.35	-0.27	-0.01
ROB-MW8s	4/18/2016	12:05	21.80	50.59	-0.19	-0.01
ROB-MW8s	5/17/2016	12:39	24.04	48.35	0.11	0.01
ROB-MW8s	6/17/2016	15:06	26.52	45.87	0.39	0.02
ROB-MW8s	7/21/2016	11:38	Dry			
ROB-MW8s	8/16/2016	12:15	Dry			
ROB-MW8s	9/15/2016	11:29	Dry			
ROB-MW8s	10/14/2016	11:49	Dry			
ROB-MW8s	11/29/2016	9:47	Dry			
ROB-MW8s	12/12/2016	11:58	25.83	46.56	-0.57	-0.03
ROB-MW8s	1/25/2017	11:22	23.66	48.73	-0.43	-0.02
ROB-MW8s	2/1/2017		N/M			
ROB-MW8s	3/14/2017	8:27	21.47	50.92	0.24	0.01
ROB-MW8s	4/20/2017	11:40	19.84	52.55	-0.40	-0.02
ROB-MW8s	5/17/2017	8:55	18.69	53.70	-0.35	-0.02
ROB-MW8s	6/24/2017	11:15	17.31	55.08	0.14	0.01
ROB-MW8s	7/14/2017	11:27	17.70	54.69	0.42	0.02
ROB-MW8s	8/25/2017	9:31	14.09	58.30	-0.29	-0.01
ROB-MW8s	9/22/2017	12:21	13.45	58.94	-0.11	-0.01
ROB-MW8s	10/19/2017	12:00	13.85	58.54	0.18	0.01
ROB-MW8s	11/17/2017	12:42	12.95	59.44	-0.11	-0.01
ROB-MW8s	12/21/2017	12:35	14.09	58.30	0.34	0.02
ROB-MW8s	1/23/2018	11:59	13.09	59.30	-0.06	-0.00
ROB-MW8s	2/20/2018	9:32	13.69	58.70	0.06	0.00
ROB-MW8s	3/1/2018		N/M			
ROB-MW8s	4/24/2018	10:11	12.98	59.41	<|0.05|	0
ROB-MW8s	5/8/2018	13:21	12.81	59.58	0.10	0.00
ROB-MW8s	6/13/2018	12:25	12.60	59.79	0.16	0.01
ROB-MW8s	7/16/2018	10:33	13.27	59.12	<|0.05|	0
ROB-MW8s	8/20/2018	8:53	13.85	58.54	<|0.05|	0
ROB-MW8s	9/16/2018	13:41	13.33	59.06	<|0.05|	0
ROB-MW8s	10/25/2018	11:38	14.52	57.87	0.24	0.01
ROB-MW8s	11/13/2018	9:08	14.38	58.01	0.07	0.00
ROB-MW8s	12/15/2018	10:07	13.19	59.20	<|0.05|	0
ROB-MW8s	1/25/2019	11:24	12.41	59.98	<|0.05|	0
ROB-MW8s	2/20/2019	9:00	11.51	60.88	<|0.05|	0
ROB-MW8s	3/16/2019	13:16	11.02	61.37	<|0.05|	0
ROB-MW8s	4/16/2019	14:04	11.27	61.12	<|0.05|	0
ROB-MW8s	5/21/2019	8:49	10.97	61.42	0.09	0.00
ROB-MW8s	6/20/2019	12:16	10.34	62.05	-0.11	-0.01
ROB-MW8s	7/17/2019	12:41	10.35	62.04	0.16	0.01
ROB-MW8s	8/14/2019	8:39	10.69	61.70	<|0.05|	0
ROB-MW8s	9/27/2019	14:40	10.35	62.04	-0.06	-0.00
ROB-MW8s	10/28/2019	16:08	10.47	61.92	<|0.05|	0
ROB-MW8s	11/12/2019	9:00	10.38	62.01	-0.06	-0.00
ROB-MW8s	12/14/2019	9:50	9.08	63.31	-0.09	-0.00
ROB-MW8d	1/29/2012	11:54	10.56	61.76		
ROB-MW8d	2/7/2012	14:01	10.79	61.53		
ROB-MW8d	3/5/2012	16:59	10.27	62.05		
ROB-MW8d	4/5/2012	12:12	11.39	60.93		
ROB-MW8d	5/8/2012	12:07	11.72	60.60		
ROB-MW8d	6/18/2012	9:05	12.67	59.65		
ROB-MW8d	7/9/2012	9:20	13.73	58.59		
ROB-MW8d	8/13/2012	10:28	17.88	54.44		
ROB-MW8d	9/17/2012	10:36	18.10	54.22		
ROB-MW8d	10/19/2012	9:48	17.78	54.54		
ROB-MW8d	12/4/2012	11:52	15.38	56.94		
ROB-MW8d	12/28/2012	9:38	14.98	57.34		
ROB-MW8d	1/15/2013	13:46	13.51	58.81		
ROB-MW8d	2/16/2013	14:01	13.36	58.96		
ROB-MW8d	3/18/2013	13:09	16.22	56.10		
ROB-MW8d	4/16/2013	9:48	15.66	56.66		
ROB-MW8d	5/28/2013	10:07	16.64	55.68		
ROB-MW8d	6/17/2013	17:09	18.03	54.29		
ROB-MW8d	7/15/2013	14:39	19.90	52.42		
ROB-MW8d	8/22/2013	8:37	19.99	52.33		
ROB-MW8d	9/9/2013	12:23	18.64	53.68		
ROB-MW8d	10/7/2013	12:31	18.98	53.34		
ROB-MW8d	11/12/2013	15:47	16.95	55.37		
ROB-MW8d	12/17/2013	12:01	16.17	56.15		
ROB-MW8d	1/13/2014	11:40	18.19	54.13		
ROB-MW8d	2/18/2014	9:00	19.10	53.22		
ROB-MW8d	3/16/2014	11:47	18.97	53.35		
ROB-MW8d	4/20/2014	10:08	19.20	53.12		
ROB-MW8d	5/20/2014	9:15	20.53	51.79		
ROB-MW8d	6/19/2014	11:00	24.83	47.49		
ROB-MW8d	7/17/2014	18:08	27.35	44.97		
ROB-MW8d	8/19/2014	15:47	27.50	44.82		
ROB-MW8d	9/19/2014	17:57	25.23	47.09		
ROB-MW8d	10/14/2014	12:26	25.20	47.12		
ROB-MW8d	11/5/2014	13:37	23.20	49.12		
ROB-MW8d	12/14/2014	13:07	21.69	50.63		
ROB-MW8d	1/12/2015	14:19	20.07	52.25		
ROB-MW8d	2/5/2015	10:16	19.20	53.12		
ROB-MW8d	3/13/2015	12:12	20.98	51.34		
ROB-MW8d	4/17/2015	10:14	22.02	50.30		
ROB-MW8d	5/12/2015	8:03	24.10	48.22		
ROB-MW8d	6/5/2015	8:58	27.35	44.97		
ROB-MW8d	7/13/2015	14:04	32.32	40.00		
ROB-MW8d	8/20/2015	14:40	31.90	40.42		
ROB-MW8d	9/14/2015	8:59	27.58	44.74		
ROB-MW8d	10/16/2015	9:29	28.80	43.52		
ROB-MW8d	11/11/2015	10:44	26.28	46.04		
ROB-MW8d	12/23/2015	12:34	23.99	48.33		
ROB-MW8d	1/15/2016	12:25	23.27	49.05		
ROB-MW8d	2/17/2016	13:24	22.80	49.52		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ROB-MW8d	3/18/2016	11:35	21.70	50.62		
ROB-MW8d	4/18/2016	12:05	21.54	50.78		
ROB-MW8d	5/17/2016	12:39	24.08	48.24		
ROB-MW8d	6/17/2016	15:07	26.84	45.48		
ROB-MW8d	7/21/2016	11:38	31.61	40.71		
ROB-MW8d	8/16/2016	12:15	33.58	38.74		
ROB-MW8d	9/15/2016	11:30	30.39	41.93		
ROB-MW8d	10/14/2016	11:49	30.40	41.92		
ROB-MW8d	11/29/2016	9:47	26.05	46.27		
ROB-MW8d	12/12/2016	11:59	25.19	47.13		
ROB-MW8d	1/25/2017	11:23	23.16	49.16		
ROB-MW8d	2/1/2017		N/M			
ROB-MW8d	3/14/2017	8:28	21.64	50.68		
ROB-MW8d	4/20/2017	11:41	19.37	52.95		
ROB-MW8d	5/17/2017	8:54	18.27	54.05		
ROB-MW8d	6/24/2017	11:16	17.38	54.94		
ROB-MW8d	7/14/2017	11:28	18.05	54.27		
ROB-MW8d	8/25/2017	9:31	13.73	58.59		
ROB-MW8d	9/22/2017	12:22	13.27	59.05		
ROB-MW8d	10/19/2017	12:01	13.96	58.36		
ROB-MW8d	11/17/2017	12:42	12.77	59.55		
ROB-MW8d	12/21/2017	12:36	14.36	57.96		
ROB-MW8d	1/23/2018	12:00	12.96	59.36		
ROB-MW8d	2/20/2018	9:32	13.68	58.64		
ROB-MW8d	3/1/2018		N/M			
ROB-MW8d	4/24/2018	10:12	12.96	59.36		
ROB-MW8d	5/8/2018	13:22	12.84	59.48		
ROB-MW8d	6/13/2018	12:26	12.69	59.63		
ROB-MW8d	7/16/2018	10:34	13.25	59.07		
ROB-MW8d	8/20/2018	8:53	13.82	58.50		
ROB-MW8d	9/16/2018	13:41	13.26	59.06		
ROB-MW8d	10/25/2018	11:39	14.69	57.63		
ROB-MW8d	11/13/2018	9:08	14.38	57.94		
ROB-MW8d	12/15/2018	10:08	13.10	59.22		
ROB-MW8d	1/25/2019	11:25	12.35	59.97		
ROB-MW8d	2/20/2019	9:01	11.40	60.92		
ROB-MW8d	3/16/2019	13:17	10.95	61.37		
ROB-MW8d	4/16/2019	14:04	11.22	61.10		
ROB-MW8d	5/21/2019	8:49	10.99	61.33		
ROB-MW8d	6/20/2019	12:17	10.16	62.16		
ROB-MW8d	7/17/2019	12:41	10.44	61.88		
ROB-MW8d	8/14/2019	8:39	10.65	61.67		
ROB-MW8d	9/27/2019	14:40	10.22	62.10		
ROB-MW8d	10/28/2019	16:09	10.43	61.89		
ROB-MW8d	11/12/2019	9:00	10.25	62.07		
ROB-MW8d	12/14/2019	9:51	8.92	63.40		
WOO-MW1	1/16/2013	9:45	44.94	-17.67		
WOO-MW1	2/17/2013	11:30	44.05	-16.78		
WOO-MW1	3/21/2013	13:50	43.78	-16.51		
WOO-MW1	4/18/2013	10:17	43.60	-16.33		
WOO-MW1	5/28/2013	14:36	45.22	-17.95		
WOO-MW1	6/17/2013	12:58	45.92	-18.65		
WOO-MW1	7/15/2013	9:44	47.44	-20.17		
WOO-MW1	8/20/2013	9:52	49.08	-21.81		
WOO-MW1	9/9/2013	8:27	49.61	-22.34		
WOO-MW1	10/7/2013	9:13	47.97	-20.70		
WOO-MW1	11/11/2013	8:57	46.94	-19.67		
WOO-MW1	12/17/2013	8:43	45.83	-18.56		
WOO-MW1	1/13/2014	8:09	45.44	-18.17		
WOO-MW1	2/17/2014	10:06	45.14	-17.87		
WOO-MW1	3/16/2014	8:39	44.57	-17.30		
WOO-MW1	4/20/2014	7:06	44.63	-17.36		
WOO-MW1	5/27/2014	13:10	47.40	-20.13		
WOO-MW1	6/18/2014	8:31	47.93	-20.66		
WOO-MW1	7/18/2014	9:28	49.67	-22.40		
WOO-MW1	8/18/2014	9:01	50.43	-23.16		
WOO-MW1	9/22/2014	9:29	49.98	-22.71		
WOO-MW1	10/14/2014	8:04	50.58	-23.31		
WOO-MW1	11/4/2014	8:47	48.81	-21.54		
WOO-MW1	12/14/2014	9:09	47.29	-20.02		
WOO-MW1	1/12/2015	10:20	46.44	-19.17		
WOO-MW1	2/3/2015	16:06	45.75	-18.48		
WOO-MW1	3/13/2015	8:34	45.09	-17.82		
WOO-MW1	4/17/2015	6:57	45.38	-18.11		
WOO-MW1	5/28/2015	14:10	47.16	-19.89		
WOO-MW1	6/4/2015	6:11	45.96	-18.69		
WOO-MW1	7/28/2015	18:46	50.32	-23.05		
WOO-MW1	8/13/2015	11:35	50.42	-23.15		
WOO-MW1	9/18/2015	16:33	50.23	-22.96		
WOO-MW1	10/22/2015	12:40	49.07	-21.80		
WOO-MW1	11/19/2015	14:15	47.90	-20.63		
WOO-MW1	12/23/2015	15:10	46.91	-19.64		
WOO-MW1	1/24/2016	16:52	46.22	-18.95		
WOO-MW1	2/17/2016	13:24	45.61	-18.34		
WOO-MW1	3/18/2016	8:19	45.13	-17.86		
WOO-MW1	4/18/2016	8:24	42.03	-14.76		
WOO-MW1	5/16/2016	8:26	45.36	-18.09		
WOO-MW1	6/16/2016	7:55	47.34	-20.07		
WOO-MW1	7/21/2016	7:36	49.73	-22.46		
WOO-MW1	8/15/2016	8:32	50.53	-23.26		
WOO-MW1	9/15/2016	6:29	49.69	-22.42		
WOO-MW1	10/14/2016	7:35	49.04	-21.77		
WOO-MW1	11/16/2016	12:20	47.43	-20.16		
WOO-MW1	12/21/2016	8:03	46.29	-19.02		
WOO-MW1	1/17/2017	13:28	45.50	-18.23		
WOO-MW1	2/1/2017		N/M			
WOO-MW1	3/13/2017	15:45	42.09	-14.82		
WOO-MW1	4/20/2017	15:51	39.99	-12.72		
WOO-MW1	5/31/2017	16:00	40.16	-12.89		
WOO-MW1	6/23/2017	12:05	40.45	-13.18		
WOO-MW1	7/17/2017	17:30	41.77	-14.50		
WOO-MW1	8/23/2017	11:45	42.91	-15.64		
WOO-MW1	9/21/2017	15:35	42.64	-15.37		
WOO-MW1	10/23/2017	9:32	42.04	-14.77		
WOO-MW1	11/13/2017	9:27	41.22	-13.95		
WOO-MW1	12/16/2017	17:09	40.02	-12.75		
WOO-MW1	1/24/2018	12:27	38.90	-11.63		
WOO-MW1	2/28/2018	10:10	38.38	-11.11		
WOO-MW1	3/1/2018		N/M			
WOO-MW1	4/24/2018	17:36	37.38	-10.11		
WOO-MW1	5/13/2018	14:01	38.62	-11.35		
WOO-MW1	6/21/2018	17:00	40.34	-13.07		
WOO-MW1	7/25/2018	12:46	42.32	-15.05		
WOO-MW1	8/15/2018	11:20	43.08	-15.81		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
WOO-MW1	9/15/2018	9:29	41.72	-14.45		
WOO-MW1	10/26/2018	14:39	40.77	-13.50		
WOO-MW1	11/8/2018	13:40	42.23	-14.96		
WOO-MW1	12/19/2018	17:29	40.94	-13.67		
WOO-MW1	1/22/2019	12:20	39.98	-12.71		
WOO-MW1	2/25/2019	12:45	39.04	-11.77		
WOO-MW1	3/18/2019	18:10	38.35	-11.08		
WOO-MW1	4/15/2019	18:40	37.40	-10.13		
WOO-MW1	5/29/2019	9:05	37.63	-10.36		
WOO-MW1	6/19/2019	9:33	38.70	-11.43		
WOO-MW1	7/18/2019	7:50	40.10	-12.83		
WOO-MW1	8/14/2019	12:25	41.32	-14.05		
WOO-MW1	9/30/2019	12:00	40.95	-13.68		
WOO-MW1	10/30/2019	13:19	40.74	-13.47		
WOO-MW1	11/14/2019	9:49	40.37	-13.10		
WOO-MW1	12/10/2019	9:45	39.20	-11.93		
WOO-MW2	1/16/2013	10:00	43.04	-19.53		
WOO-MW2	2/17/2013	11:20	42.02	-18.51		
WOO-MW2	3/21/2013	14:00	41.99	-18.48		
WOO-MW2	4/18/2013	10:25	41.53	-18.02		
WOO-MW2	5/28/2013	14:40	43.10	-19.59		
WOO-MW2	6/17/2013	13:20	43.59	-20.08		
WOO-MW2	7/15/2013	10:01	45.07	-21.56		
WOO-MW2	8/20/2013	9:29	47.11	-23.60		
WOO-MW2	9/9/2013	8:45	46.93	-23.42		
WOO-MW2	10/7/2013	9:02	46.39	-22.88		
WOO-MW2	11/11/2013	8:40	45.20	-21.69		
WOO-MW2	12/17/2013	9:01	44.08	-20.57		
WOO-MW2	1/13/2014	8:27	43.80	-20.29		
WOO-MW2	2/17/2014	9:52	43.58	-20.07		
WOO-MW2	3/16/2014	8:57	42.80	-19.29		
WOO-MW2	4/20/2014	6:52	42.64	-19.13		
WOO-MW2	5/27/2014	13:00	44.32	-20.81		
WOO-MW2	6/18/2014	8:49	44.98	-21.47		
WOO-MW2	7/18/2014	9:07	46.99	-23.48		
WOO-MW2	8/18/2014	8:35	47.73	-24.22		
WOO-MW2	9/22/2014	9:13	47.73	-24.22		
WOO-MW2	10/14/2014	7:46	47.39	-23.88		
WOO-MW2	11/4/2014	8:32	46.61	-23.10		
WOO-MW2	12/14/2014	9:23	45.26	-21.75		
WOO-MW2	1/12/2015	10:05	44.38	-20.87		
WOO-MW2	2/3/2015	15:50	43.74	-20.23		
WOO-MW2	3/13/2015	8:15	43.03	-19.52		
WOO-MW2	4/17/2015	6:40	43.23	-19.72		
WOO-MW2	5/28/2015	14:23	44.67	-21.16		
WOO-MW2	6/4/2015	6:19	44.11	-20.60		
WOO-MW2	7/28/2015	18:55	47.12	-23.61		
WOO-MW2	8/13/2015	11:15	47.92	-24.41		
WOO-MW2	9/18/2015	16:25	48.14	-24.63		
WOO-MW2	10/22/2015	12:44	46.90	-23.39		
WOO-MW2	11/19/2015	14:10	45.90	-22.39		
WOO-MW2	12/23/2015	15:00	44.94	-21.43		
WOO-MW2	1/24/2016	16:39	44.20	-20.69		
WOO-MW2	2/17/2016	13:09	43.69	-20.18		
WOO-MW2	3/18/2016	8:04	43.07	-19.56		
WOO-MW2	4/18/2016	8:42	42.62	-19.11		
WOO-MW2	5/16/2016	8:11	43.13	-19.62		
WOO-MW2	6/16/2016	7:40	44.42	-20.91		
WOO-MW2	7/21/2016	7:21	46.20	-22.69		
WOO-MW2	8/15/2016	8:14	47.41	-23.90		
WOO-MW2	9/15/2016	6:13	47.31	-23.80		
WOO-MW2	10/14/2016	7:20	47.00	-23.49		
WOO-MW2	11/16/2016	12:10	45.43	-21.92		
WOO-MW2	12/21/2016	7:44	44.46	-20.95		
WOO-MW2	1/17/2017	13:21	42.58	-19.07		
WOO-MW2	2/1/2017		N/M			
WOO-MW2	3/13/2017	15:50	39.18	-15.67		
WOO-MW2	4/20/2017	15:55	37.23	-13.72		
WOO-MW2	5/31/2017	15:53	36.46	-12.95		
WOO-MW2	6/23/2017	11:59	37.67	-14.16		
WOO-MW2	7/17/2017	17:38	39.08	-15.57		
WOO-MW2	8/23/2017	11:42	40.42	-16.91		
WOO-MW2	9/21/2017	15:40	40.47	-16.96		
WOO-MW2	10/23/2017	9:38	39.90	-16.39		
WOO-MW2	11/13/2017	9:33	39.04	-15.53		
WOO-MW2	12/16/2017	17:13	37.78	-14.27		
WOO-MW2	1/24/2018	12:22	36.74	-13.23		
WOO-MW2	2/28/2018	10:06	36.29	-12.78		
WOO-MW2	3/1/2018		N/M			
WOO-MW2	4/24/2018	17:32	35.29	-11.78		
WOO-MW2	5/13/2018	13:54	38.50	-14.99		
WOO-MW2	6/21/2018	16:51	38.47	-14.96		
WOO-MW2	7/25/2018	13:06	40.44	-16.93		
WOO-MW2	8/15/2018	11:16	40.99	-17.48		
WOO-MW2	9/15/2018	9:25	43.74	-20.23		
WOO-MW2	10/26/2018	14:30	42.68	-19.17		
WOO-MW2	11/8/2018	13:37	40.46	-16.95		
WOO-MW2	12/19/2018	17:33	38.89	-15.38		
WOO-MW2	1/22/2019	12:25	37.86	-14.35		
WOO-MW2	2/25/2019	12:52	36.43	-12.92		
WOO-MW2	3/18/2019	18:18	35.94	-12.43		
WOO-MW2	4/15/2019	19:00	34.95	-11.44		
WOO-MW2	5/29/2019	9:00	34.98	-11.47		
WOO-MW2	6/19/2019	9:55	36.18	-12.67		
WOO-MW2	7/18/2019	8:00	37.32	-13.81		
WOO-MW2	8/14/2019	12:20	38.22	-14.71		
WOO-MW2	9/30/2019	12:10	39.10	-15.59		
WOO-MW2	10/30/2019	13:09	38.46	-14.95		
WOO-MW2	11/14/2019	9:44	38.23	-14.72		
WOO-MW2	12/10/2019	9:56	37.03	-13.52		
WOO-MW3	1/16/2013	9:30	43.55	-17.56		
WOO-MW3	2/17/2013	11:26	42.42	-16.43		
WOO-MW3	3/21/2013	13:42	42.59	-16.60		
WOO-MW3	4/18/2013	10:07	41.63	-15.64		
WOO-MW3	5/28/2013	14:30	44.18	-18.19		
WOO-MW3	6/17/2013	13:11	44.78	-18.79		
WOO-MW3	7/15/2013	9:55	46.46	-20.47		
WOO-MW3	8/20/2013	9:45	48.63	-22.64		
WOO-MW3	9/9/2013	8:38	49.09	-23.10		
WOO-MW3	10/7/2013	9:26	46.97	-20.98		
WOO-MW3	11/11/2013	8:48	45.69	-19.70		
WOO-MW3	12/17/2013	8:55	44.59	-18.60		
WOO-MW3	1/13/2014	8:19	43.92	-17.93		
WOO-MW3	2/17/2014	9:59	44.02	-18.03		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
WOO-MW3	3/16/2014	8:50	43.28	-17.29		
WOO-MW3	4/20/2014	6:59	42.85	-16.86		
WOO-MW3	5/27/2014	12:50	45.58	-19.59		
WOO-MW3	6/18/2014	8:40	45.95	-19.96		
WOO-MW3	7/18/2014	9:18	48.35	-22.36		
WOO-MW3	8/18/2014	8:48	49.39	-23.40		
WOO-MW3	9/22/2014	9:21	48.61	-22.62		
WOO-MW3	10/14/2014	7:55	48.62	-22.63		
WOO-MW3	11/4/2014	8:38	47.46	-21.47		
WOO-MW3	12/14/2014	9:16	45.93	-19.94		
WOO-MW3	1/12/2015	10:12	45.02	-19.03		
WOO-MW3	2/3/2015	15:57	44.34	-18.35		
WOO-MW3	3/13/2015	8:26	43.53	-17.54		
WOO-MW3	4/17/2015	6:50	43.89	-17.90		
WOO-MW3	5/28/2015	14:30	45.65	-19.66		
WOO-MW3	6/4/2015	6:24	44.03	-18.04		
WOO-MW3	7/28/2015	19:00	49.11	-23.12		
WOO-MW3	8/13/2015	11:00	49.78	-23.79		
WOO-MW3	9/18/2015	16:20	49.32	-23.33		
WOO-MW3	10/22/2015	12:50	47.70	-21.71		
WOO-MW3	11/19/2015	14:06	46.59	-20.60		
WOO-MW3	12/23/2015	15:15	45.60	-19.61		
WOO-MW3	1/24/2016	16:35	44.82	-18.83		
WOO-MW3	2/17/2016	13:17	44.20	-18.21		
WOO-MW3	3/18/2016	8:10	43.64	-17.65		
WOO-MW3	4/18/2016	8:35	43.29	-17.30		
WOO-MW3	5/16/2016	8:18	43.84	-17.85		
WOO-MW3	6/16/2016	7:47	45.53	-19.54		
WOO-MW3	7/21/2016	7:29	47.46	-21.47		
WOO-MW3	8/15/2016	8:23	48.94	-22.95		
WOO-MW3	9/15/2016	6:22	47.88	-21.89		
WOO-MW3	10/14/2016	7:28	47.34	-21.35		
WOO-MW3	11/16/2016	12:00	46.02	-20.03		
WOO-MW3	12/21/2016	7:53	45.01	-19.02		
WOO-MW3	1/17/2017	13:16	44.09	-18.10		
WOO-MW3	2/1/2017		N/M			
WOO-MW3	3/13/2017	15:54	39.64	-13.65		
WOO-MW3	4/20/2017	16:00	37.45	-11.46		
WOO-MW3	5/31/2017	15:42	38.40	-12.41		
WOO-MW3	6/23/2017	12:14	38.38	-12.39		
WOO-MW3	7/17/2017	17:47	39.78	-13.79		
WOO-MW3	8/23/2017	11:40	40.95	-14.96		
WOO-MW3	9/21/2017	15:27	41.22	-15.23		
WOO-MW3	10/23/2017	9:24	40.57	-14.58		
WOO-MW3	11/13/2017	9:40	39.81	-13.82		
WOO-MW3	12/16/2017	17:20	38.58	-12.59		
WOO-MW3	1/24/2018	12:36	37.43	-11.44		
WOO-MW3	2/28/2018	10:15	36.84	-10.85		
WOO-MW3	3/1/2018		N/M			
WOO-MW3	4/24/2018	17:51	35.93	-9.94		
WOO-MW3	5/13/2018	13:46	37.55	-11.56		
WOO-MW3	6/21/2018	17:10	39.48	-13.49		
WOO-MW3	7/25/2018	12:58	41.25	-15.26		
WOO-MW3	8/15/2018	11:28	42.26	-16.27		
WOO-MW3	9/15/2018	9:20	42.94	-16.95		
WOO-MW3	10/26/2018	14:22	41.51	-15.52		
WOO-MW3	11/8/2018	13:30	41.08	-15.09		
WOO-MW3	12/19/2018	17:45	39.84	-13.85		
WOO-MW3	1/22/2019	12:33	38.77	-12.78		
WOO-MW3	2/25/2019	13:00	37.53	-11.54		
WOO-MW3	3/18/2019	18:25	36.68	-10.69		
WOO-MW3	4/15/2019	18:52	35.64	-9.65		
WOO-MW3	5/29/2019	8:48	36.89	-10.90		
WOO-MW3	6/19/2019	10:11	37.10	-11.11		
WOO-MW3	7/18/2019	8:04	38.94	-12.95		
WOO-MW3	8/14/2019	12:40	39.47	-13.48		
WOO-MW3	9/30/2019	11:46	39.77	-13.78		
WOO-MW3	10/30/2019	13:24	39.50	-13.51		
WOO-MW3	11/14/2019	9:55	38.88	-12.89		
WOO-MW3	12/10/2019	9:33	37.88	-11.89		
ANT-MW1s	1/30/2012	10:45	20.38	69.51	<|0.05|	0
ANT-MW1s	2/9/2012	15:56	20.70	69.19	<|0.05|	0
ANT-MW1s	3/5/2012	10:08	16.68	73.21	<|0.05|	0
ANT-MW1s	4/9/2012	10:12	17.84	72.05	<|0.05|	0
ANT-MW1s	5/10/2012	11:05	20.13	69.76	<|0.05|	0
ANT-MW1s	6/18/2012	11:19	19.63	70.26	<|0.05|	0
ANT-MW1s	7/9/2012	11:38	13.35	76.54	<|0.05|	0
ANT-MW1s	8/15/2012	9:58	13.89	76.00	<|0.05|	0
ANT-MW1s	9/17/2012	12:31	14.88	75.01	<|0.05|	0
ANT-MW1s	10/19/2012	13:30	Q/M			
ANT-MW1s	12/10/2012	13:24	Dry			
ANT-MW1s	12/31/2012	8:19	Dry			
ANT-MW1s	1/15/2013	13:06	Dry			
ANT-MW1s	2/16/2013	15:55	Dry			
ANT-MW1s	3/22/2013	12:04	17.88	72.01	0.05	0.00
ANT-MW1s	4/16/2013	11:54	20.55	69.34	<|0.05|	0
ANT-MW1s	5/30/2013	19:47	19.78	70.11	<|0.05|	0
ANT-MW1s	6/18/2013	9:35	20.84	69.05	<|0.05|	0
ANT-MW1s	7/15/2013	17:21	15.89	74.00	<|0.05|	0
ANT-MW1s	8/27/2013	8:37	14.68	75.21	-0.09	-0.01
ANT-MW1s	9/9/2013	13:06	17.02	72.87	<|0.05|	0
ANT-MW1s	10/7/2013	14:47	Dry			
ANT-MW1s	11/14/2013	13:30	Dry			
ANT-MW1s	12/17/2013	14:10	Dry			
ANT-MW1s	1/13/2014	13:29	Dry			
ANT-MW1s	2/19/2014	13:43	Dry			
ANT-MW1s	3/16/2014	13:46	Dry			
ANT-MW1s	4/19/2014	18:33	Dry			
ANT-MW1s	5/20/2014	17:10	Dry			
ANT-MW1s	6/19/2014	13:27	Dry			
ANT-MW1s	7/17/2014	12:17	Dry			
ANT-MW1s	8/21/2014	12:35	Dry			
ANT-MW1s	9/19/2014	15:32	Dry			
ANT-MW1s	10/14/2014	14:21	Dry			
ANT-MW1s	11/7/2014	8:11	Dry			
ANT-MW1s	12/14/2014	15:21	Dry			
ANT-MW1s	1/12/2015	16:33	Dry			
ANT-MW1s	2/6/2015	8:30	Dry			
ANT-MW1s	3/13/2015	14:20	Dry			
ANT-MW1s	4/17/2015	12:21	Dry			
ANT-MW1s	5/13/2015	12:00	Dry			
ANT-MW1s	6/4/2015	16:41	Dry			
ANT-MW1s	7/20/2015	15:52	Dry			
ANT-MW1s	8/19/2015	12:04	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ANT-MW1s	9/14/2015	12:45	Dry			
ANT-MW1s	10/16/2015	12:52	Dry			
ANT-MW1s	11/19/2015	9:31	Dry			
ANT-MW1s	12/26/2015	13:03	Dry			
ANT-MW1s	1/16/2016	10:22	Dry			
ANT-MW1s	2/24/2016	15:30	Dry			
ANT-MW1s	3/18/2016	14:02	Dry			
ANT-MW1s	4/18/2016	14:46	Dry			
ANT-MW1s	5/18/2016	12:24	Dry			
ANT-MW1s	6/17/2016	13:17	Dry			
ANT-MW1s	7/21/2016	14:01	Dry			
ANT-MW1s	8/17/2016	14:16	Dry			
ANT-MW1s	9/15/2016	16:40	Dry			
ANT-MW1s	10/14/2016	14:15	Dry			
ANT-MW1s	11/29/2016	12:45	Dry			
ANT-MW1s	12/13/2016	10:40	Dry			
ANT-MW1s	1/26/2017	9:37	Dry			
ANT-MW1s	2/1/2017		N/M			
ANT-MW1s	3/16/2017	13:56	Dry			
ANT-MW1s	4/21/2017	15:04	Dry			
ANT-MW1s	5/18/2017	12:31	Dry			
ANT-MW1s	6/23/2017	11:33	Dry			
ANT-MW1s	7/14/2017	13:13	Dry			
ANT-MW1s	8/29/2017	12:56	Dry			
ANT-MW1s	9/23/2017	15:30	Dry			
ANT-MW1s	10/20/2017	11:01	Dry			
ANT-MW1s	11/21/2017	9:20	Dry			
ANT-MW1s	12/31/2017	9:36	Dry			
ANT-MW1s	1/22/2018	16:17	Dry			
ANT-MW1s	2/21/2018	12:10	Dry			
ANT-MW1s	3/1/2018		N/M			
ANT-MW1s	4/24/2018	12:37	Dry			
ANT-MW1s	5/15/2018	13:15	Dry			
ANT-MW1s	6/14/2018	15:03	Dry			
ANT-MW1s	7/17/2018	10:26	Dry			
ANT-MW1s	8/20/2018	11:40	Dry			
ANT-MW1s	9/16/2018	19:02	Dry			
ANT-MW1s	10/25/2018	14:09	Dry			
ANT-MW1s	11/14/2018	15:20	Dry			
ANT-MW1s	12/14/2018	16:08	Dry			
ANT-MW1s	1/25/2019	13:30	Dry			
ANT-MW1s	2/26/2019	13:11	Dry			
ANT-MW1s	3/17/2019	16:17	Dry			
ANT-MW1s	4/16/2019	9:19	Dry			
ANT-MW1s	5/23/2019	8:27	Dry			
ANT-MW1s	6/20/2019	17:37	Dry			
ANT-MW1s	7/18/2019	9:46	Dry			
ANT-MW1s	8/15/2019	13:46	Dry			
ANT-MW1s	9/26/2019	13:01	Dry			
ANT-MW1s	10/28/2019	9:57	Dry			
ANT-MW1s	11/14/2019	7:56	Dry			
ANT-MW1s	12/14/2019	14:38	Dry			
ANT-MW1d	1/30/2012	10:47	20.29	69.49		
ANT-MW1d	2/9/2012	15:57	20.62	69.16		
ANT-MW1d	3/5/2012	10:09	16.58	73.20		
ANT-MW1d	4/9/2012	10:11	17.75	72.03		
ANT-MW1d	5/10/2012	11:06	20.03	69.75		
ANT-MW1d	6/18/2012	11:18	19.53	70.25		
ANT-MW1d	7/9/2012	11:37	13.20	76.58		
ANT-MW1d	8/15/2012	9:59	13.80	75.98		
ANT-MW1d	9/17/2012	12:31	14.81	74.97		
ANT-MW1d	10/19/2012	13:30	24.42	65.36		
ANT-MW1d	12/10/2012	13:24	21.57	68.21		
ANT-MW1d	12/31/2012	8:20	23.16	66.62		
ANT-MW1d	1/15/2013	13:06	23.78	66.00		
ANT-MW1d	2/16/2013	15:55	24.86	64.92		
ANT-MW1d	3/22/2013	12:04	17.82	71.96		
ANT-MW1d	4/16/2013	11:54	20.48	69.30		
ANT-MW1d	5/30/2013	19:47	19.70	70.08		
ANT-MW1d	6/18/2013	9:36	20.75	69.03		
ANT-MW1d	7/15/2013	17:21	15.78	74.00		
ANT-MW1d	8/27/2013	8:37	14.48	75.30		
ANT-MW1d	9/9/2013	13:06	16.95	72.83		
ANT-MW1d	10/7/2013	14:47	22.33	67.45		
ANT-MW1d	11/14/2013	13:30	23.14	66.64		
ANT-MW1d	12/17/2013	14:10	26.78	63.00		
ANT-MW1d	1/13/2014	13:29	28.75	61.03		
ANT-MW1d	2/19/2014	13:43	29.45	60.33		
ANT-MW1d	3/16/2014	13:46	30.86	58.92		
ANT-MW1d	4/19/2014	18:33	32.73	57.05		
ANT-MW1d	5/20/2014	17:10	33.60	56.18		
ANT-MW1d	6/19/2014	13:27	33.14	56.64		
ANT-MW1d	7/17/2014	12:17	32.27	57.51		
ANT-MW1d	8/21/2014	12:35	30.04	59.74		
ANT-MW1d	9/19/2014	15:32	30.88	58.90		
ANT-MW1d	10/14/2014	14:21	33.03	56.75		
ANT-MW1d	11/7/2014	8:11	30.92	58.86		
ANT-MW1d	12/14/2014	15:21	33.06	56.72		
ANT-MW1d	1/12/2015	16:33	33.80	55.98		
ANT-MW1d	2/6/2015	8:30	Dry			
ANT-MW1d	3/13/2015	14:20	Dry			
ANT-MW1d	4/17/2015	12:21	Dry			
ANT-MW1d	5/13/2015	12:00	Dry			
ANT-MW1d	6/4/2015	16:41	Dry			
ANT-MW1d	7/20/2015	15:52	32.83	56.95		
ANT-MW1d	8/19/2015	12:04	Dry			
ANT-MW1d	9/14/2015	12:45	Dry			
ANT-MW1d	10/16/2015	12:52	Dry			
ANT-MW1d	11/19/2015	9:31	Dry			
ANT-MW1d	12/26/2015	13:04	Dry			
ANT-MW1d	1/16/2016	10:23	Dry			
ANT-MW1d	2/24/2016	15:32	Dry			
ANT-MW1d	3/18/2016	14:02	Dry			
ANT-MW1d	4/18/2016	14:46	Dry			
ANT-MW1d	5/18/2016	12:24	Dry			
ANT-MW1d	6/17/2016	13:18	Dry			
ANT-MW1d	7/21/2016	14:01	32.38	57.40		
ANT-MW1d	8/17/2016	14:16	29.00	60.78		
ANT-MW1d	9/15/2016	16:41	31.98	57.80		
ANT-MW1d	10/14/2016	14:15	34.59	55.19		
ANT-MW1d	11/29/2016	12:45	Dry			
ANT-MW1d	12/13/2016	10:39	Dry			
ANT-MW1d	1/26/2017	9:38	Dry			
ANT-MW1d	2/1/2017		N/M			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ANT-MW1d	3/16/2017	13:56	Dry			
ANT-MW1d	4/21/2017	15:05	30.71	59.07		
ANT-MW1d	5/18/2017	12:31	29.97	59.81		
ANT-MW1d	6/23/2017	11:33	27.05	62.73		
ANT-MW1d	7/14/2017	13:12	25.41	64.37		
ANT-MW1d	8/29/2017	12:56	23.23	66.55		
ANT-MW1d	9/23/2017	15:31	24.44	65.34		
ANT-MW1d	10/20/2017	11:02	25.92	63.86		
ANT-MW1d	11/21/2017	9:20	25.30	64.48		
ANT-MW1d	12/31/2017	9:36	26.00	63.78		
ANT-MW1d	1/22/2018	16:16	26.70	63.08		
ANT-MW1d	2/21/2018	12:11	27.60	62.18		
ANT-MW1d	3/1/2018		N/M			
ANT-MW1d	4/24/2018	12:38	28.69	61.09		
ANT-MW1d	5/15/2018	13:15	28.95	60.83		
ANT-MW1d	6/14/2018	15:03	28.32	61.46		
ANT-MW1d	7/17/2018	10:26	25.22	64.56		
ANT-MW1d	8/20/2018	11:40	23.90	65.88		
ANT-MW1d	9/16/2018	19:02	23.15	66.63		
ANT-MW1d	10/25/2018	14:09	25.52	64.26		
ANT-MW1d	11/14/2018	15:21	25.97	63.81		
ANT-MW1d	12/14/2018	16:09	26.74	63.04		
ANT-MW1d	1/25/2019	13:31	27.55	62.23		
ANT-MW1d	2/26/2019	13:11	27.31	62.47		
ANT-MW1d	3/17/2019	16:18	27.04	62.74		
ANT-MW1d	4/16/2019	9:19	26.93	62.85		
ANT-MW1d	5/23/2019	8:27	26.51	63.27		
ANT-MW1d	6/20/2019	17:38	25.65	64.13		
ANT-MW1d	7/18/2019	9:46	24.68	65.10		
ANT-MW1d	8/15/2019	13:46	22.43	67.35		
ANT-MW1d	9/26/2019	13:01	20.77	69.01		
ANT-MW1d	10/28/2019	9:58	22.78	67.00		
ANT-MW1d	11/14/2019	7:56	23.13	66.65		
ANT-MW1d	12/14/2019	14:39	23.39	66.39		
ANT-MW2s	1/30/2012	10:11	20.68	68.41	<|0.05|	0
ANT-MW2s	2/9/2012	16:23	21.92	67.17	-0.88	-0.05
ANT-MW2s	3/5/2012	9:56	18.85	70.24	<|0.05|	0
ANT-MW2s	4/9/2012	9:43	19.95	69.14	<|0.05|	0
ANT-MW2s	5/10/2012	9:10	21.17	67.92	<|0.05|	0
ANT-MW2s	6/18/2012	10:59	22.10	66.99	<|0.05|	0
ANT-MW2s	7/9/2012	11:21	19.33	69.76	<|0.05|	0
ANT-MW2s	8/15/2012	9:29	19.20	69.89	<|0.05|	0
ANT-MW2s	9/17/2012	12:15	22.00	67.09	<|0.05|	0
ANT-MW2s	10/19/2012	13:10	24.52	64.57	<|0.05|	0
ANT-MW2s	12/10/2012	13:40	25.16	63.93	<|0.05|	0
ANT-MW2s	12/31/2012	8:03	25.94	63.15	<|0.05|	0
ANT-MW2s	1/15/2013	13:03	26.21	62.88	<|0.05|	0
ANT-MW2s	2/16/2013	15:50	26.63	62.46	<|0.05|	0
ANT-MW2s	3/22/2013	11:51	22.08	67.01	<|0.05|	0
ANT-MW2s	4/16/2013	11:42	23.34	65.75	7.00	0.39
ANT-MW2s	5/30/2013	19:19	23.45	65.64	<|0.05|	0
ANT-MW2s	6/18/2013	9:20	23.78	65.31	0.37	0.02
ANT-MW2s	7/15/2013	17:36	22.45	66.64	<|0.05|	0
ANT-MW2s	8/27/2013	8:21	23.72	65.37	<|0.05|	0
ANT-MW2s	9/9/2013	12:40	24.10	64.99	<|0.05|	0
ANT-MW2s	10/7/2013	14:37	26.90	62.19	<|0.05|	0
ANT-MW2s	11/14/2013	13:14	28.31	60.78	<|0.05|	0
ANT-MW2s	12/17/2013	13:51	29.04	60.05	1.10	0.06
ANT-MW2s	1/13/2014	13:39	30.24	58.85	0.98	0.05
ANT-MW2s	2/19/2014	13:53	30.82	58.27	<|0.05|	0
ANT-MW2s	3/16/2014	13:54	31.93	57.16	<|0.05|	0
ANT-MW2s	4/19/2014	18:42	Dry			
ANT-MW2s	5/20/2014	17:19	Dry			
ANT-MW2s	6/19/2014	13:38	33.15	55.94	<|0.05|	0
ANT-MW2s	7/17/2014	12:27	32.51	56.58	<|0.05|	0
ANT-MW2s	8/21/2014	12:45	32.95	56.14	<|0.05|	0
ANT-MW2s	9/19/2014	15:42	Dry			
ANT-MW2s	10/14/2014	14:29	Dry			
ANT-MW2s	11/7/2014	8:21	Dry			
ANT-MW2s	12/14/2014	15:51	Dry			
ANT-MW2s	1/12/2015	16:43	Dry			
ANT-MW2s	2/6/2015	8:29	Dry			
ANT-MW2s	3/13/2015	14:36	Dry			
ANT-MW2s	4/17/2015	12:32	Dry			
ANT-MW2s	5/13/2015	12:09	Dry			
ANT-MW2s	6/4/2015	16:27	Dry			
ANT-MW2s	7/20/2015	16:27	Dry			
ANT-MW2s	8/19/2015	11:49	Dry			
ANT-MW2s	9/14/2015	12:31	Dry			
ANT-MW2s	10/16/2015	12:47	Dry			
ANT-MW2s	11/19/2015	9:25	Dry			
ANT-MW2s	12/26/2015	12:27	Dry			
ANT-MW2s	1/16/2016	10:00	Dry			
ANT-MW2s	2/24/2016	15:35	Dry			
ANT-MW2s	3/18/2016	14:08	Dry			
ANT-MW2s	4/18/2016	15:03	Dry			
ANT-MW2s	5/18/2016	12:35	Dry			
ANT-MW2s	6/17/2016	12:57	Dry			
ANT-MW2s	7/21/2016	14:13	Dry			
ANT-MW2s	8/17/2016	14:27	Dry			
ANT-MW2s	9/15/2016	16:53	Dry			
ANT-MW2s	10/14/2016	14:26	Dry			
ANT-MW2s	11/29/2016	13:10	Dry			
ANT-MW2s	12/13/2016	9:49	Dry			
ANT-MW2s	1/26/2017	9:15	Dry			
ANT-MW2s	2/1/2017		N/M			
ANT-MW2s	3/16/2017	13:40	Dry			
ANT-MW2s	4/21/2017	14:48	Dry			
ANT-MW2s	5/18/2017	12:20	31.94	57.15	<|0.05|	0
ANT-MW2s	6/23/2017	11:53	29.60	59.49	<|0.05|	0
ANT-MW2s	7/14/2017	12:54	28.36	60.73	<|0.05|	0
ANT-MW2s	8/29/2017	12:42	27.00	62.09	<|0.05|	0
ANT-MW2s	9/23/2017	15:13	28.00	61.09	<|0.05|	0
ANT-MW2s	10/20/2017	10:42	28.74	60.35	<|0.05|	0
ANT-MW2s	11/21/2017	9:58	27.97	61.12	<|0.05|	0
ANT-MW2s	12/31/2017	9:41	27.94	61.15	<|0.05|	0
ANT-MW2s	1/22/2018	15:55	27.92	61.17	0.79	0.04
ANT-MW2s	2/21/2018	12:14	28.41	60.68	0.77	0.04
ANT-MW2s	3/1/2018		N/M			
ANT-MW2s	4/24/2018	12:33	29.19	59.90	<|0.05|	0
ANT-MW2s	5/15/2018	13:17	29.04	60.05	<|0.05|	0
ANT-MW2s	6/14/2018	15:16	28.66	60.43	<|0.05|	0
ANT-MW2s	7/17/2018	10:03	27.70	61.39	<|0.05|	0
ANT-MW2s	8/20/2018	11:36	26.26	62.83	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ANT-MW2s	9/16/2018	18:45	26.95	62.14	<|0.05|	0
ANT-MW2s	10/25/2018	14:24	28.40	60.69	-0.07	-0.00
ANT-MW2s	11/14/2018	15:24	28.53	60.56	<|0.05|	0
ANT-MW2s	12/14/2018	15:46	28.81	60.28	<|0.05|	0
ANT-MW2s	1/25/2019	13:08	28.92	60.17	<|0.05|	0
ANT-MW2s	2/26/2019	13:24	28.40	60.69	<|0.05|	0
ANT-MW2s	3/17/2019	15:57	28.00	61.09	<|0.05|	0
ANT-MW2s	4/16/2019	9:35	27.78	61.31	<|0.05|	0
ANT-MW2s	5/23/2019	8:37	27.12	61.97	0.11	0.01
ANT-MW2s	6/20/2019	17:16	26.17	62.92	<|0.05|	0
ANT-MW2s	7/18/2019	9:31	26.09	63.00	-0.13	-0.01
ANT-MW2s	8/15/2019	13:57	24.88	64.21	<|0.05|	0
ANT-MW2s	9/26/2019	12:46	24.42	64.67	<|0.05|	0
ANT-MW2s	10/28/2019	9:50	25.65	63.44	<|0.05|	0
ANT-MW2s	11/14/2019	8:07	25.74	63.35	<|0.05|	0
ANT-MW2s	12/14/2019	14:25	24.85	64.24	<|0.05|	0
ANT-MW2d	1/30/2012	10:14	20.28	68.41		
ANT-MW2d	2/9/2012	16:24	20.64	68.05		
ANT-MW2d	3/5/2012	9:57	18.48	70.21		
ANT-MW2d	4/9/2012	9:44	19.57	69.12		
ANT-MW2d	5/10/2012	9:11	20.75	67.94		
ANT-MW2d	6/18/2012	10:58	21.75	66.94		
ANT-MW2d	7/9/2012	11:20	18.90	69.79		
ANT-MW2d	8/15/2012	9:30	18.75	69.94		
ANT-MW2d	9/17/2012	12:15	21.61	67.08		
ANT-MW2d	10/19/2012	13:10	24.13	64.56		
ANT-MW2d	12/10/2012	13:40	24.74	63.95		
ANT-MW2d	12/31/2012	8:06	25.51	63.18		
ANT-MW2d	1/15/2013	13:03	25.80	62.89		
ANT-MW2d	2/16/2013	15:50	26.18	62.51		
ANT-MW2d	3/22/2013	11:51	21.68	67.01		
ANT-MW2d	4/16/2013	11:42	29.94	58.75		
ANT-MW2d	5/30/2013	19:19	23.04	65.65		
ANT-MW2d	6/18/2013	9:21	23.75	64.94		
ANT-MW2d	7/15/2013	17:36	22.03	66.66		
ANT-MW2d	8/27/2013	8:21	23.29	65.40		
ANT-MW2d	9/9/2013	12:40	23.73	64.96		
ANT-MW2d	10/7/2013	14:37	26.48	62.21		
ANT-MW2d	11/14/2013	13:14	27.86	60.83		
ANT-MW2d	12/17/2013	13:51	29.74	58.95		
ANT-MW2d	1/13/2014	13:39	30.82	57.87		
ANT-MW2d	2/19/2014	13:53	30.40	58.29		
ANT-MW2d	3/16/2014	13:54	31.52	57.17		
ANT-MW2d	4/19/2014	18:42	32.71	55.98		
ANT-MW2d	5/20/2014	17:19	33.09	55.60		
ANT-MW2d	6/19/2014	13:38	32.74	55.95		
ANT-MW2d	7/17/2014	12:27	32.07	56.62		
ANT-MW2d	8/21/2014	12:45	32.53	56.16		
ANT-MW2d	9/19/2014	15:42	33.54	55.15		
ANT-MW2d	10/14/2014	14:29	34.98	53.71		
ANT-MW2d	11/7/2014	8:21	34.02	54.67		
ANT-MW2d	12/14/2014	15:51	35.15	53.54		
ANT-MW2d	1/12/2015	16:43	35.24	53.45		
ANT-MW2d	2/6/2015	8:29	35.64	53.05		
ANT-MW2d	3/13/2015	14:36	36.22	52.47		
ANT-MW2d	4/17/2015	12:32	36.52	52.17		
ANT-MW2d	5/13/2015	12:09	36.32	52.37		
ANT-MW2d	6/4/2015	16:27	36.15	52.54		
ANT-MW2d	7/20/2015	16:27	35.72	52.97		
ANT-MW2d	8/19/2015	11:49	37.02	51.67		
ANT-MW2d	9/14/2015	12:31	38.51	50.18		
ANT-MW2d	10/16/2015	12:47	39.57	49.12		
ANT-MW2d	11/19/2015	9:25	40.13	48.56		
ANT-MW2d	12/26/2015	12:28	40.56	48.13		
ANT-MW2d	1/16/2016	10:01	40.78	47.91		
ANT-MW2d	2/24/2016	15:36	40.95	47.74		
ANT-MW2d	3/18/2016	14:08	41.00	47.69		
ANT-MW2d	4/18/2016	15:03	41.10	47.59		
ANT-MW2d	5/18/2016	12:35	40.14	48.55		
ANT-MW2d	6/17/2016	12:58	38.00	50.69		
ANT-MW2d	7/21/2016	14:13	34.25	54.44		
ANT-MW2d	8/17/2016	14:27	34.28	54.41		
ANT-MW2d	9/15/2016	16:54	35.36	53.33		
ANT-MW2d	10/14/2016	14:26	36.53	52.16		
ANT-MW2d	11/29/2016	13:10	37.19	51.50		
ANT-MW2d	12/13/2016	9:50	37.25	51.44		
ANT-MW2d	1/26/2017	9:16	37.25	51.44		
ANT-MW2d	2/1/2017		N/M			
ANT-MW2d	3/16/2017	13:40	35.32	53.37		
ANT-MW2d	4/21/2017	14:47	33.03	55.66		
ANT-MW2d	5/18/2017	12:20	31.53	57.16		
ANT-MW2d	6/23/2017	11:53	29.21	59.48		
ANT-MW2d	7/14/2017	12:55	27.94	60.75		
ANT-MW2d	8/29/2017	12:42	26.62	62.07		
ANT-MW2d	9/23/2017	15:14	27.57	61.12		
ANT-MW2d	10/20/2017	10:43	28.33	60.36		
ANT-MW2d	11/21/2017	9:58	27.58	61.11		
ANT-MW2d	12/31/2017	9:41	27.57	61.12		
ANT-MW2d	1/22/2018	15:56	28.31	60.38		
ANT-MW2d	2/21/2018	12:15	28.78	59.91		
ANT-MW2d	3/1/2018		N/M			
ANT-MW2d	4/24/2018	12:33	28.78	59.91		
ANT-MW2d	5/15/2018	13:16	28.62	60.07		
ANT-MW2d	6/14/2018	15:16	28.24	60.45		
ANT-MW2d	7/17/2018	10:04	27.32	61.37		
ANT-MW2d	8/20/2018	11:36	25.84	62.85		
ANT-MW2d	9/16/2018	18:45	26.50	62.19		
ANT-MW2d	10/25/2018	14:24	27.93	60.76		
ANT-MW2d	11/14/2018	15:25	28.10	60.59		
ANT-MW2d	12/14/2018	15:47	28.38	60.31		
ANT-MW2d	1/25/2019	13:09	28.48	60.21		
ANT-MW2d	2/26/2019	13:24	28.00	60.69		
ANT-MW2d	3/17/2019	15:58	27.60	61.09		
ANT-MW2d	4/16/2019	9:35	27.40	61.29		
ANT-MW2d	5/23/2019	8:37	26.83	61.86		
ANT-MW2d	6/20/2019	17:17	25.74	62.95		
ANT-MW2d	7/18/2019	9:31	25.56	63.13		
ANT-MW2d	8/15/2019	13:57	24.47	64.22		
ANT-MW2d	9/26/2019	12:46	24.00	64.69		
ANT-MW2d	10/28/2019	9:51	25.25	63.44		
ANT-MW2d	11/14/2019	8:07	25.34	63.35		
ANT-MW2d	12/14/2019	14:26	24.43	64.26		
ANT-MW3s	1/30/2012	10:33	20.73	69.59	0.23	0.01
ANT-MW3s	2/9/2012	17:02	21.02	69.30	0.26	0.01

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ANT-MW3s	3/5/2012	10:04	17.28	73.04	-0.28	-0.02
ANT-MW3s	4/9/2012	9:53	18.22	72.10	0.67	0.04
ANT-MW3s	5/10/2012	9:56	20.38	69.94	0.52	0.03
ANT-MW3s	6/18/2012	11:05	19.14	71.18	0.66	0.04
ANT-MW3s	7/9/2012	11:27	16.69	73.63	0.16	0.01
ANT-MW3s	8/15/2012	9:41	15.01	75.31	1.21	0.07
ANT-MW3s	9/17/2012	12:20	18.91	71.41	1.00	0.06
ANT-MW3s	10/19/2012	13:14	22.61	67.71	0.50	0.03
ANT-MW3s	12/10/2012	13:37	22.87	67.45	0.45	0.02
ANT-MW3s	12/31/2012	8:10	24.53	65.79	0.21	0.01
ANT-MW3s	1/15/2013	13:26	25.22	65.10	0.18	0.01
ANT-MW3s	2/16/2013	16:02	26.32	64.00	<|0.05|	0
ANT-MW3s	3/22/2013	11:59	20.12	70.20	0.37	0.02
ANT-MW3s	4/16/2013	11:49	20.93	69.39	0.68	0.04
ANT-MW3s	5/30/2013	19:31	20.87	69.45	0.67	0.04
ANT-MW3s	6/18/2013	9:30	20.52	69.80	0.43	0.02
ANT-MW3s	7/15/2013	17:30	17.56	72.76	0.59	0.03
ANT-MW3s	8/27/2013	8:29	18.88	71.44	0.61	0.03
ANT-MW3s	9/9/2013	12:56	18.94	71.38	1.25	0.07
ANT-MW3s	10/7/2013	14:44	24.06	66.26	0.53	0.03
ANT-MW3s	11/14/2013	13:21	25.75	64.57	0.26	0.01
ANT-MW3s	12/17/2013	14:06	28.90	61.42	0.12	0.01
ANT-MW3s	1/13/2014	13:31	30.39	59.93	0.06	0.00
ANT-MW3s	2/19/2014	13:47	29.33	60.99	0.19	0.01
ANT-MW3s	3/16/2014	13:49	32.53	57.79	-0.98	-0.05
ANT-MW3s	4/19/2014	18:36	Q/M			
ANT-MW3s	5/20/2014	17:14	Dry			
ANT-MW3s	6/19/2014	13:31	32.50	57.82	<|0.05|	0
ANT-MW3s	7/17/2014	12:21	30.63	59.69	<|0.05|	0
ANT-MW3s	8/21/2014	12:38	31.45	58.87	0.07	0.00
ANT-MW3s	9/19/2014	15:35	Dry			
ANT-MW3s	10/14/2014	14:24	Dry			
ANT-MW3s	11/7/2014	8:14	31.98	58.34	<|0.05|	0
ANT-MW3s	12/14/2014	15:41	Dry			
ANT-MW3s	1/12/2015	16:36	Dry			
ANT-MW3s	2/6/2015	8:24	Dry			
ANT-MW3s	3/13/2015	14:20	Dry			
ANT-MW3s	4/17/2015	12:25	Dry			
ANT-MW3s	5/13/2015	12:03	Dry			
ANT-MW3s	6/4/2015	16:34	Dry			
ANT-MW3s	7/20/2015	16:16	32.37	57.95	<|0.05|	0
ANT-MW3s	8/19/2015	11:58	Dry			
ANT-MW3s	9/14/2015	12:40	Dry			
ANT-MW3s	10/16/2015	13:00	Dry			
ANT-MW3s	11/19/2015	9:35	Dry			
ANT-MW3s	12/26/2015	12:36	Dry			
ANT-MW3s	1/16/2016	10:09	Dry			
ANT-MW3s	2/24/2016	15:40	Dry			
ANT-MW3s	3/18/2016	14:17	Dry			
ANT-MW3s	4/18/2016	14:51	Dry			
ANT-MW3s	5/18/2016	12:28	Dry			
ANT-MW3s	6/17/2016	13:04	Dry			
ANT-MW3s	7/21/2016	14:09	Dry			
ANT-MW3s	8/17/2016	14:19	32.33	57.99	<|0.05|	0
ANT-MW3s	9/15/2016	16:45	Dry			
ANT-MW3s	10/14/2016	14:19	Dry			
ANT-MW3s	11/29/2016	13:03	Dry			
ANT-MW3s	12/13/2016	10:20	Dry			
ANT-MW3s	1/26/2017	9:28	Dry			
ANT-MW3s	2/1/2017		N/M			
ANT-MW3s	3/16/2017	13:44	Dry			
ANT-MW3s	4/21/2017	14:53	32.02	58.30	<|0.05|	0
ANT-MW3s	5/18/2017	12:23	30.57	59.75	<|0.05|	0
ANT-MW3s	6/23/2017	11:46	28.22	62.10	<|0.05|	0
ANT-MW3s	7/14/2017	12:59	26.78	63.54	<|0.05|	0
ANT-MW3s	8/29/2017	12:48	25.47	64.85	<|0.05|	0
ANT-MW3s	9/23/2017	15:19	26.74	63.58	<|0.05|	0
ANT-MW3s	10/20/2017	10:49	27.90	62.42	<|0.05|	0
ANT-MW3s	11/21/2017	9:25	26.49	63.83	<|0.05|	0
ANT-MW3s	12/31/2017	9:27	27.55	62.77	<|0.05|	0
ANT-MW3s	1/22/2018	16:01	28.12	62.20	<|0.05|	0
ANT-MW3s	2/21/2018	12:20	28.80	61.52	<|0.05|	0
ANT-MW3s	3/1/2018		N/M			
ANT-MW3s	4/24/2018	12:25	29.52	60.80	<|0.05|	0
ANT-MW3s	5/15/2018	13:13	29.75	60.57	<|0.05|	0
ANT-MW3s	6/14/2018	15:08	28.90	61.42	<|0.05|	0
ANT-MW3s	7/17/2018	10:11	27.18	63.14	<|0.05|	0
ANT-MW3s	8/20/2018	11:38	25.44	64.88	<|0.05|	0
ANT-MW3s	9/16/2018	18:51	25.97	64.35	<|0.05|	0
ANT-MW3s	10/25/2018	14:14	27.69	62.63	<|0.05|	0
ANT-MW3s	11/14/2018	15:30	27.98	62.34	<|0.05|	0
ANT-MW3s	12/14/2018	15:55	28.44	61.88	<|0.05|	0
ANT-MW3s	1/25/2019	13:15	28.84	61.48	<|0.05|	0
ANT-MW3s	2/26/2019	13:15	28.44	61.88	0.21	0.01
ANT-MW3s	3/17/2019	16:03	28.15	62.17	<|0.05|	0
ANT-MW3s	4/16/2019	9:44	27.61	62.71	0.06	0.00
ANT-MW3s	5/23/2019	8:30	27.40	62.92	<|0.05|	0
ANT-MW3s	6/20/2019	17:22	26.42	63.90	<|0.05|	0
ANT-MW3s	7/18/2019	9:39	25.92	64.40	<|0.05|	0
ANT-MW3s	8/15/2019	13:50	24.32	66.00	<|0.05|	0
ANT-MW3s	9/26/2019	12:54	23.78	66.54	<|0.05|	0
ANT-MW3s	10/28/2019	10:04	25.06	65.26	<|0.05|	0
ANT-MW3s	11/14/2019	7:59	25.38	64.94	<|0.05|	0
ANT-MW3s	12/14/2019	14:31	24.30	66.02	<|0.05|	0
ANT-MW3d	1/30/2012	10:36	20.74	69.36		
ANT-MW3d	2/9/2012	17:03	21.06	69.04		
ANT-MW3d	3/5/2012	14:05	16.78	73.32		
ANT-MW3d	4/9/2012	9:52	18.67	71.43		
ANT-MW3d	5/10/2012	9:57	20.68	69.42		
ANT-MW3d	6/18/2012	11:04	19.58	70.52		
ANT-MW3d	7/9/2012	11:27	16.63	73.47		
ANT-MW3d	8/15/2012	9:42	16.00	74.10		
ANT-MW3d	9/17/2012	12:20	19.69	70.41		
ANT-MW3d	10/19/2012	13:14	22.89	67.21		
ANT-MW3d	12/10/2012	13:37	23.10	67.00		
ANT-MW3d	12/31/2012	8:11	24.52	65.58		
ANT-MW3d	1/15/2013	13:26	25.18	64.92		
ANT-MW3d	2/16/2013	16:02	26.15	63.95		
ANT-MW3d	3/22/2013	11:57	20.27	69.83		
ANT-MW3d	4/16/2013	11:49	21.39	68.71		
ANT-MW3d	5/30/2013	19:31	21.32	68.78		
ANT-MW3d	6/18/2013	9:31	20.73	69.37		
ANT-MW3d	7/15/2013	17:30	17.93	72.17		
ANT-MW3d	8/27/2013	8:29	19.27	70.83		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ANT-MW3d	9/9/2013	12:56	19.97	70.13		
ANT-MW3d	10/7/2013	14:44	24.37	65.73		
ANT-MW3d	11/14/2013	13:21	25.79	64.31		
ANT-MW3d	12/17/2013	14:06	28.80	61.30		
ANT-MW3d	1/13/2014	13:31	30.23	59.87		
ANT-MW3d	2/19/2014	13:47	29.30	60.80		
ANT-MW3d	3/16/2014	13:49	31.33	58.77		
ANT-MW3d	4/19/2014	18:36	32.70	57.40		
ANT-MW3d	5/20/2014	17:14	33.23	56.87		
ANT-MW3d	6/19/2014	13:31	32.33	57.77		
ANT-MW3d	7/17/2014	12:21	30.45	59.65		
ANT-MW3d	8/21/2014	12:38	31.30	58.80		
ANT-MW3d	9/19/2014	15:35	32.40	57.70		
ANT-MW3d	10/14/2014	14:24	34.00	56.10		
ANT-MW3d	11/7/2014	8:14	31.73	58.37		
ANT-MW3d	12/14/2014	15:41	33.80	56.30		
ANT-MW3d	1/12/2015	16:36	34.18	55.92		
ANT-MW3d	2/6/2015	8:24	34.96	55.14		
ANT-MW3d	3/13/2015	14:20	36.14	53.96		
ANT-MW3d	4/17/2015	12:25	36.73	53.37		
ANT-MW3d	5/13/2015	12:03	35.65	54.45		
ANT-MW3d	6/4/2015	16:34	34.38	55.72		
ANT-MW3d	7/20/2015	16:16	32.16	57.94		
ANT-MW3d	8/19/2015	11:58	35.39	54.71		
ANT-MW3d	9/14/2015	12:40	37.83	52.27		
ANT-MW3d	10/16/2015	13:00	38.93	51.17		
ANT-MW3d	11/19/2015	9:35	39.52	50.58		
ANT-MW3d	12/26/2015	12:37	40.44	49.66		
ANT-MW3d	1/16/2016	10:10	40.80	49.30		
ANT-MW3d	2/24/2016	15:41	41.17	48.93		
ANT-MW3d	3/18/2016	14:17	41.35	48.75		
ANT-MW3d	4/18/2016	14:51	41.48	48.62		
ANT-MW3d	5/18/2016	12:28	39.10	51.00		
ANT-MW3d	6/17/2016	13:05	34.87	55.23		
ANT-MW3d	7/21/2016	14:09	34.76	55.34		
ANT-MW3d	8/17/2016	14:19	32.12	57.98		
ANT-MW3d	9/15/2016	16:46	33.48	56.62		
ANT-MW3d	10/14/2016	14:19	35.15	54.95		
ANT-MW3d	11/29/2016	13:03	36.23	53.87		
ANT-MW3d	12/13/2016	10:21	36.53	53.57		
ANT-MW3d	1/26/2017	9:27	37.07	53.03		
ANT-MW3d	2/1/2017		N/M			
ANT-MW3d	3/16/2017	13:44	34.50	55.60		
ANT-MW3d	4/21/2017	14:54	31.82	58.28		
ANT-MW3d	5/18/2017	12:23	30.33	59.77		
ANT-MW3d	6/23/2017	11:46	28.00	62.10		
ANT-MW3d	7/14/2017	13:00	26.58	63.52		
ANT-MW3d	8/29/2017	12:48	25.30	64.80		
ANT-MW3d	9/23/2017	15:20	26.57	63.53		
ANT-MW3d	10/20/2017	10:50	27.70	62.40		
ANT-MW3d	11/21/2017	9:25	26.31	63.79		
ANT-MW3d	12/31/2017	9:27	27.34	62.76		
ANT-MW3d	1/22/2018	16:02	27.91	62.19		
ANT-MW3d	2/21/2018	12:21	28.60	61.50		
ANT-MW3d	3/1/2018		N/M			
ANT-MW3d	4/24/2018	12:25	29.33	60.77		
ANT-MW3d	5/15/2018	13:13	29.55	60.55		
ANT-MW3d	6/14/2018	15:09	28.70	61.40		
ANT-MW3d	7/17/2018	10:11	26.94	63.16		
ANT-MW3d	8/20/2018	11:38	25.22	64.88		
ANT-MW3d	9/16/2018	18:51	25.76	64.34		
ANT-MW3d	10/25/2018	14:14	27.44	62.66		
ANT-MW3d	11/14/2018	15:31	27.74	62.36		
ANT-MW3d	12/14/2018	15:56	28.23	61.87		
ANT-MW3d	1/25/2019	13:16	28.62	61.48		
ANT-MW3d	2/26/2019	13:15	28.43	61.67		
ANT-MW3d	3/17/2019	16:04	27.92	62.18		
ANT-MW3d	4/16/2019	9:44	27.45	62.65		
ANT-MW3d	5/23/2019	8:30	27.19	62.91		
ANT-MW3d	6/20/2019	17:23	26.20	63.90		
ANT-MW3d	7/18/2019	9:39	25.68	64.42		
ANT-MW3d	8/15/2019	13:50	24.08	66.02		
ANT-MW3d	9/26/2019	12:54	23.58	66.52		
ANT-MW3d	10/28/2019	10:05	24.86	65.24		
ANT-MW3d	11/14/2019	7:59	25.15	64.95		
ANT-MW3d	12/14/2019	14:32	24.10	66.00		
ANT-MW4s	1/30/2012	10:22	20.77	68.64	<|0.05|	0
ANT-MW4s	2/9/2012	16:41	21.12	68.29	<|0.05|	0
ANT-MW4s	3/5/2012	10:00	18.70	70.71	0.06	0.00
ANT-MW4s	4/9/2012	9:50	19.68	69.73	<|0.05|	0
ANT-MW4s	5/10/2012	9:34	21.09	68.32	<|0.05|	0
ANT-MW4s	6/18/2012	11:02	20.68	68.73	<|0.05|	0
ANT-MW4s	7/9/2012	11:25	19.11	70.30	<|0.05|	0
ANT-MW4s	8/15/2012	9:37	18.37	71.04	0.20	0.01
ANT-MW4s	9/17/2012	12:17	21.50	67.91	0.18	0.01
ANT-MW4s	10/19/2012	13:12	24.22	65.19	<|0.05|	0
ANT-MW4s	12/10/2012	13:33	24.76	64.65	<|0.05|	0
ANT-MW4s	12/31/2012	8:13	25.65	63.76	<|0.05|	0
ANT-MW4s	1/15/2013	13:30	26.00	63.41	<|0.05|	0
ANT-MW4s	2/16/2013	16:05	26.59	62.82	<|0.05|	0
ANT-MW4s	3/22/2013	11:54	21.85	67.56	<|0.05|	0
ANT-MW4s	4/16/2013	11:47	23.05	66.36	<|0.05|	0
ANT-MW4s	5/30/2013	19:26	23.11	66.30	<|0.05|	0
ANT-MW4s	6/18/2013	9:27	22.83	66.58	<|0.05|	0
ANT-MW4s	7/15/2013	17:33	21.51	67.90	<|0.05|	0
ANT-MW4s	8/27/2013	8:26	23.12	66.29	-0.06	-0.00
ANT-MW4s	9/9/2013	12:50	23.42	65.99	0.08	0.00
ANT-MW4s	10/7/2013	14:41	26.39	63.02	0.06	0.00
ANT-MW4s	11/14/2013	13:18	27.84	61.57	<|0.05|	0
ANT-MW4s	12/17/2013	14:03	29.92	59.49	<|0.05|	0
ANT-MW4s	1/13/2014	13:35	31.05	58.36	0.06	0.00
ANT-MW4s	2/19/2014	13:49	30.39	59.02	0.06	0.00
ANT-MW4s	3/16/2014	13:51	31.80	57.61	<|0.05|	0
ANT-MW4s	4/19/2014	18:39	33.00	56.41	<|0.05|	0
ANT-MW4s	5/20/2014	17:16	Dry			
ANT-MW4s	6/19/2014	13:34	32.89	56.52	<|0.05|	0
ANT-MW4s	7/17/2014	12:23	31.68	57.73	<|0.05|	0
ANT-MW4s	8/21/2014	12:41	33.72	55.69	-0.96	-0.05
ANT-MW4s	9/19/2014	15:38	Dry			
ANT-MW4s	10/14/2014	14:26	Dry			
ANT-MW4s	11/7/2014	8:17	Dry			
ANT-MW4s	12/14/2014	15:44	Dry			
ANT-MW4s	1/12/2015	16:39	Dry			
ANT-MW4s	2/6/2015	8:26	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ANT-MW4s	3/13/2015	14:32	Dry			
ANT-MW4s	4/17/2015	12:29	Dry			
ANT-MW4s	5/13/2015	12:06	Dry			
ANT-MW4s	6/4/2015	16:31	Dry			
ANT-MW4s	7/20/2015	16:20	Dry			
ANT-MW4s	8/19/2015	11:55	Dry			
ANT-MW4s	9/14/2015	12:36	Dry			
ANT-MW4s	10/16/2015	13:04	Dry			
ANT-MW4s	11/19/2015	9:38	Dry			
ANT-MW4s	12/26/2015	12:33	Dry			
ANT-MW4s	1/16/2016	10:06	Dry			
ANT-MW4s	2/24/2016	15:38	Dry			
ANT-MW4s	3/18/2016	14:14	Dry			
ANT-MW4s	4/18/2016	14:55	Dry			
ANT-MW4s	5/18/2016	12:30	Dry			
ANT-MW4s	6/17/2016	13:01	Dry			
ANT-MW4s	7/21/2016	14:06	32.82	56.59	-0.08	-0.00
ANT-MW4s	8/17/2016	14:23	Dry			
ANT-MW4s	9/15/2016	16:49	Dry			
ANT-MW4s	10/14/2016	14:22	Dry			
ANT-MW4s	11/29/2016	13:07	Dry			
ANT-MW4s	12/13/2016	9:53	Dry			
ANT-MW4s	1/26/2017	9:25	Dry			
ANT-MW4s	2/1/2017		N/M			
ANT-MW4s	3/16/2017	13:42	Dry			
ANT-MW4s	4/21/2017	14:51	33.25	56.16	<|0.05|	0
ANT-MW4s	5/18/2017	12:25	31.68	57.73	<|0.05|	0
ANT-MW4s	6/23/2017	11:50	29.38	60.03	<|0.05|	0
ANT-MW4s	7/14/2017	12:57	28.03	61.38	<|0.05|	0
ANT-MW4s	8/29/2017	12:45	26.85	62.56	<|0.05|	0
ANT-MW4s	9/23/2017	15:16	27.84	61.57	<|0.05|	0
ANT-MW4s	10/20/2017	10:46	28.70	60.71	<|0.05|	0
ANT-MW4s	11/21/2017	9:26	27.62	61.79	<|0.05|	0
ANT-MW4s	12/31/2017	9:30	28.94	60.47	-1.08	-0.06
ANT-MW4s	1/22/2018	16:00	28.35	61.06	<|0.05|	0
ANT-MW4s	2/21/2018	12:18	28.90	60.51	<|0.05|	0
ANT-MW4s	3/1/2018		N/M			
ANT-MW4s	4/24/2018	12:28	29.34	60.07	<|0.05|	0
ANT-MW4s	5/15/2018	13:14	29.34	60.07	<|0.05|	0
ANT-MW4s	6/14/2018	15:12	28.74	60.67	<|0.05|	0
ANT-MW4s	7/17/2018	10:07	27.70	61.71	<|0.05|	0
ANT-MW4s	8/20/2018	11:37	26.32	63.09	<|0.05|	0
ANT-MW4s	9/16/2018	18:49	26.93	62.48	<|0.05|	0
ANT-MW4s	10/25/2018	14:18	28.36	61.05	<|0.05|	0
ANT-MW4s	11/14/2018	15:27	28.59	60.82	<|0.05|	0
ANT-MW4s	12/14/2018	15:49	28.82	60.59	<|0.05|	0
ANT-MW4s	1/25/2019	13:13	28.98	60.43	<|0.05|	0
ANT-MW4s	2/26/2019	13:18	28.48	60.93	<|0.05|	0
ANT-MW4s	3/17/2019	16:00	28.10	61.31	<|0.05|	0
ANT-MW4s	4/16/2019	9:40	27.96	61.45	-0.11	-0.01
ANT-MW4s	5/23/2019	8:33	27.34	62.07	<|0.05|	0
ANT-MW4s	6/20/2019	17:19	26.33	63.08	<|0.05|	0
ANT-MW4s	7/18/2019	9:36	26.10	63.31	<|0.05|	0
ANT-MW4s	8/15/2019	13:53	24.86	64.55	<|0.05|	0
ANT-MW4s	9/26/2019	12:52	24.54	64.87	<|0.05|	0
ANT-MW4s	10/28/2019	10:07	25.68	63.73	<|0.05|	0
ANT-MW4s	11/14/2019	8:02	25.83	63.58	<|0.05|	0
ANT-MW4s	12/14/2019	14:29	24.72	64.69	<|0.05|	0
ANT-MW4d	1/30/2012	10:25	20.65	68.63		
ANT-MW4d	2/9/2012	16:42	21.02	68.26		
ANT-MW4d	3/5/2012	10:01	18.63	70.65		
ANT-MW4d	4/9/2012	9:49	19.58	69.70		
ANT-MW4d	5/10/2012	9:35	21.00	68.28		
ANT-MW4d	6/18/2012	11:01	20.58	68.70		
ANT-MW4d	7/9/2012	11:24	18.98	70.30		
ANT-MW4d	8/15/2012	9:38	18.44	70.84		
ANT-MW4d	9/17/2012	12:17	21.55	67.73		
ANT-MW4d	10/19/2012	13:12	24.10	65.18		
ANT-MW4d	12/10/2012	13:33	24.66	64.62		
ANT-MW4d	12/31/2012	8:14	25.53	63.75		
ANT-MW4d	1/15/2013	13:30	25.88	63.40		
ANT-MW4d	2/16/2013	16:05	26.44	62.84		
ANT-MW4d	3/22/2013	11:54	21.72	67.56		
ANT-MW4d	4/16/2013	11:47	22.94	66.34		
ANT-MW4d	5/30/2013	19:26	23.00	66.28		
ANT-MW4d	6/18/2013	9:28	22.70	66.58		
ANT-MW4d	7/15/2013	17:33	21.33	67.95		
ANT-MW4d	8/27/2013	8:26	22.93	66.35		
ANT-MW4d	9/9/2013	12:50	23.37	65.91		
ANT-MW4d	10/7/2013	14:41	26.32	62.96		
ANT-MW4d	11/14/2013	13:18	27.70	61.58		
ANT-MW4d	12/17/2013	14:03	29.80	59.48		
ANT-MW4d	1/13/2014	13:35	30.98	58.30		
ANT-MW4d	2/19/2014	13:49	30.32	58.96		
ANT-MW4d	3/16/2014	13:51	31.70	57.58		
ANT-MW4d	4/19/2014	18:39	32.90	56.38		
ANT-MW4d	5/20/2014	17:16	33.28	56.00		
ANT-MW4d	6/19/2014	13:34	32.78	56.50		
ANT-MW4d	7/17/2014	12:23	31.55	57.73		
ANT-MW4d	8/21/2014	12:41	32.63	56.65		
ANT-MW4d	9/19/2014	15:38	33.67	55.61		
ANT-MW4d	10/14/2014	14:26	35.12	54.16		
ANT-MW4d	11/7/2014	8:17	33.84	55.44		
ANT-MW4d	12/14/2014	15:44	35.14	54.14		
ANT-MW4d	1/12/2015	16:39	35.30	53.98		
ANT-MW4d	2/6/2015	8:26	35.77	53.51		
ANT-MW4d	3/13/2015	14:32	36.43	52.85		
ANT-MW4d	4/17/2015	12:29	36.82	52.46		
ANT-MW4d	5/13/2015	12:06	36.42	52.86		
ANT-MW4d	6/4/2015	16:31	35.85	53.43		
ANT-MW4d	7/20/2015	16:20	35.01	54.27		
ANT-MW4d	8/19/2015	11:55	36.97	52.31		
ANT-MW4d	9/14/2015	12:36	38.64	50.64		
ANT-MW4d	10/16/2015	13:04	39.69	49.59		
ANT-MW4d	11/19/2015	9:38	40.25	49.03		
ANT-MW4d	12/26/2015	12:34	40.83	48.45		
ANT-MW4d	1/16/2016	10:07	41.07	48.21		
ANT-MW4d	2/24/2016	15:39	41.26	48.02		
ANT-MW4d	3/18/2016	14:14	Dry			
ANT-MW4d	4/18/2016	14:55	41.46	47.82		
ANT-MW4d	5/18/2016	12:30	40.13	49.15		
ANT-MW4d	6/17/2016	13:02	37.63	51.65		
ANT-MW4d	7/21/2016	14:06	32.61	56.67		
ANT-MW4d	8/17/2016	14:23	34.34	54.94		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ANT-MW4d	9/15/2016	16:50	35.49	53.79		
ANT-MW4d	10/14/2016	14:22	36.72	52.56		
ANT-MW4d	11/29/2016	13:07	37.40	51.88		
ANT-MW4d	12/13/2016	9:54	37.45	51.83		
ANT-MW4d	1/26/2017	9:24	37.45	51.83		
ANT-MW4d	2/1/2017		N/M			
ANT-MW4d	3/16/2017	13:42	35.39	53.89		
ANT-MW4d	4/21/2017	14:52	33.15	56.13		
ANT-MW4d	5/18/2017	12:25	31.55	57.73		
ANT-MW4d	6/23/2017	11:50	29.28	60.00		
ANT-MW4d	7/14/2017	12:58	27.91	61.37		
ANT-MW4d	8/29/2017	12:45	26.72	62.56		
ANT-MW4d	9/23/2017	15:17	27.70	61.58		
ANT-MW4d	10/20/2017	10:47	28.57	60.71		
ANT-MW4d	11/21/2017	9:26	27.49	61.79		
ANT-MW4d	12/31/2017	9:30	27.73	61.55		
ANT-MW4d	1/22/2018	16:01	28.22	61.06		
ANT-MW4d	2/21/2018	12:19	28.76	60.52		
ANT-MW4d	3/1/2018		N/M			
ANT-MW4d	4/24/2018	12:29	29.21	60.07		
ANT-MW4d	5/15/2018	13:14	29.20	60.08		
ANT-MW4d	6/14/2018	15:12	28.63	60.65		
ANT-MW4d	7/17/2018	10:07	27.57	61.71		
ANT-MW4d	8/20/2018	11:37	26.15	63.13		
ANT-MW4d	9/16/2018	18:49	26.77	62.51		
ANT-MW4d	10/25/2018	14:18	28.20	61.08		
ANT-MW4d	11/14/2018	15:28	28.46	60.82		
ANT-MW4d	12/14/2018	15:50	28.70	60.58		
ANT-MW4d	1/25/2019	13:14	28.85	60.43		
ANT-MW4d	2/26/2019	13:18	28.34	60.94		
ANT-MW4d	3/17/2019	16:01	27.95	61.33		
ANT-MW4d	4/16/2019	9:40	27.72	61.56		
ANT-MW4d	5/23/2019	8:33	27.21	62.07		
ANT-MW4d	6/20/2019	17:20	26.20	63.08		
ANT-MW4d	7/18/2019	9:36	25.98	63.30		
ANT-MW4d	8/15/2019	13:53	24.70	64.58		
ANT-MW4d	9/26/2019	12:52	24.45	64.83		
ANT-MW4d	10/28/2019	10:08	25.57	63.71		
ANT-MW4d	11/14/2019	8:02	25.73	63.55		
ANT-MW4d	12/14/2019	14:30	24.58	64.70		
ANT-MW5s	1/30/2012	10:52	23.83	69.10	0.35	0.02
ANT-MW5s	2/9/2012	15:36	24.02	68.91	0.39	0.02
ANT-MW5s	3/5/2012	10:14	22.10	70.83	0.28	0.01
ANT-MW5s	4/9/2012	10:06	21.74	71.19	1.21	0.05
ANT-MW5s	5/10/2012	11:33	23.52	69.41	1.09	0.05
ANT-MW5s	6/18/2012	11:15	22.95	69.98	1.24	0.05
ANT-MW5s	7/9/2012	11:43	14.34	78.59	2.90	0.13
ANT-MW5s	8/15/2012	9:59	17.71	75.22	2.41	0.10
ANT-MW5s	9/17/2012	12:27	21.45	71.48	1.21	0.05
ANT-MW5s	10/19/2012	13:22	24.25	68.68	1.38	0.06
ANT-MW5s	12/10/2012	13:27	25.62	67.31	-0.29	-0.01
ANT-MW5s	12/31/2012	8:47	26.44	66.49	0.34	0.01
ANT-MW5s	1/15/2013	13:12	26.68	66.25	0.26	0.01
ANT-MW5s	2/16/2013	15:58	28.10	64.83	<|0.05|	0
ANT-MW5s	3/22/2013	12:08	22.62	70.31	<|0.05|	0
ANT-MW5s	4/16/2013	12:14	24.00	68.93	0.07	0.00
ANT-MW5s	5/30/2013	19:54	23.09	69.84	-0.82	-0.04
ANT-MW5s	6/18/2013	9:51	23.96	68.97	0.07	0.00
ANT-MW5s	7/15/2013	17:14	19.49	73.44	0.08	0.00
ANT-MW5s	8/27/2013	8:42	15.71	77.22	0.09	0.00
ANT-MW5s	9/9/2013	13:10	21.14	71.79	0.09	0.00
ANT-MW5s	10/7/2013	14:54	25.77	67.16	0.07	0.00
ANT-MW5s	11/14/2013	15:49	26.61	66.32	0.07	0.00
ANT-MW5s	12/17/2013	13:56	29.34	63.59	0.05	0.00
ANT-MW5s	1/13/2014	13:44	30.85	62.08	<|0.05|	0
ANT-MW5s	2/19/2014	13:59	31.90	61.03	<|0.05|	0
ANT-MW5s	3/16/2014	14:00	32.68	60.25	<|0.05|	0
ANT-MW5s	4/19/2014	18:47	Dry			
ANT-MW5s	5/20/2014	17:25	Dry			
ANT-MW5s	6/19/2014	13:44	Dry			
ANT-MW5s	7/17/2014	12:32	Dry			
ANT-MW5s	8/21/2014	12:51	33.63	59.30	0.10	0.00
ANT-MW5s	9/19/2014	15:47	31.04	61.89	0.09	0.00
ANT-MW5s	10/14/2014	14:34	33.05	59.88	0.05	0.00
ANT-MW5s	11/7/2014	8:28	30.59	62.34	0.08	0.00
ANT-MW5s	12/14/2014	15:34	33.01	59.92	<|0.05|	0
ANT-MW5s	1/12/2015	16:48	33.28	59.65	<|0.05|	0
ANT-MW5s	2/6/2015	8:34	Dry			
ANT-MW5s	3/13/2015	14:43	Dry			
ANT-MW5s	4/17/2015	12:37	Dry			
ANT-MW5s	5/13/2015	12:14	Dry			
ANT-MW5s	6/4/2015	16:48	Dry			
ANT-MW5s	7/20/2015	15:58	30.68	62.25	0.09	0.00
ANT-MW5s	8/19/2015	12:22	Dry			
ANT-MW5s	9/14/2015	12:52	Dry			
ANT-MW5s	10/16/2015	12:39	Dry			
ANT-MW5s	11/19/2015	9:52	Dry			
ANT-MW5s	12/26/2015	12:44	Dry			
ANT-MW5s	1/16/2016	10:29	Dry			
ANT-MW5s	2/24/2016	15:26	Dry			
ANT-MW5s	3/18/2016		N/M			
ANT-MW5s	4/18/2016	15:00	N/M			
ANT-MW5s	5/18/2016	14:12	Dry			
ANT-MW5s	6/17/2016	13:14	Dry			
ANT-MW5s	7/21/2016	14:20	13.25	79.68	0.13	0.01
ANT-MW5s	8/17/2016	14:36	29.81	63.12	0.18	0.01
ANT-MW5s	9/15/2016	16:37	30.27	62.66	<|0.05|	0
ANT-MW5s	10/14/2016	14:31	32.69	60.24	0.05	0.00
ANT-MW5s	11/29/2016	12:56	Dry			
ANT-MW5s	12/13/2016	10:31	Dry			
ANT-MW5s	1/26/2017	9:40	Dry			
ANT-MW5s	2/1/2017		N/M			
ANT-MW5s	3/16/2017	14:01	28.88	64.05	0.24	0.01
ANT-MW5s	4/21/2017	15:02	30.53	62.40	0.06	0.00
ANT-MW5s	5/18/2017	12:37	30.38	62.55	<|0.05|	0
ANT-MW5s	6/23/2017	11:29	28.00	64.93	0.09	0.00
ANT-MW5s	7/14/2017	13:09	27.24	65.69	<|0.05|	0
ANT-MW5s	8/29/2017	13:00	25.32	67.61	0.06	0.00
ANT-MW5s	9/23/2017	15:27	26.59	66.34	<|0.05|	0
ANT-MW5s	10/20/2017	10:58	28.66	64.27	-0.96	-0.04
ANT-MW5s	11/21/2017	9:15	27.32	65.61	<|0.05|	0
ANT-MW5s	12/31/2017	9:50	28.44	64.49	<|0.05|	0
ANT-MW5s	1/22/2018	16:13	29.04	63.89	<|0.05|	0
ANT-MW5s	2/21/2018	12:30	29.85	63.08	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ANT-MW5s	3/1/2018		N/M			
ANT-MW5s	4/24/2018	12:43	31.05	61.88	<|0.05|	0
ANT-MW5s	5/15/2018	13:10	31.40	61.53	<|0.05|	0
ANT-MW5s	6/14/2018	15:22	30.46	62.47	<|0.05|	0
ANT-MW5s	7/17/2018	10:22	27.50	65.43	0.05	0.00
ANT-MW5s	8/20/2018	11:43	25.65	67.28	0.06	0.00
ANT-MW5s	9/16/2018	18:59	25.67	67.26	0.06	0.00
ANT-MW5s	10/25/2018	14:39	27.51	65.42	0.06	0.00
ANT-MW5s	11/14/2018	15:43	27.84	65.09	<|0.05|	0
ANT-MW5s	12/14/2018	16:05	28.85	64.08	0.06	0.00
ANT-MW5s	1/25/2019	13:27	29.92	63.01	<|0.05|	0
ANT-MW5s	2/26/2019	13:27	N/M			
ANT-MW5s	3/17/2019	16:13	29.85	63.08	<|0.05|	0
ANT-MW5s	4/16/2019	9:24	29.72	63.21	<|0.05|	0
ANT-MW5s	5/23/2019	8:42	29.25	63.68	<|0.05|	0
ANT-MW5s	6/20/2019	17:33	28.04	64.89	<|0.05|	0
ANT-MW5s	7/18/2019	9:50	24.79	68.14	-0.16	-0.01
ANT-MW5s	8/15/2019	14:03	25.09	67.84	<|0.05|	0
ANT-MW5s	9/26/2019	13:10	23.48	69.45	<|0.05|	0
ANT-MW5s	10/28/2019	10:21	25.74	67.19	<|0.05|	0
ANT-MW5s	11/14/2019	8:12	24.92	68.01	0.08	0.00
ANT-MW5s	12/14/2019	14:42	26.55	66.38	<|0.05|	0
ANT-MW5d	1/30/2012	10:54	23.99	68.75		
ANT-MW5d	2/9/2012	15:37	24.22	68.52		
ANT-MW5d	3/5/2012	10:15	22.19	70.55		
ANT-MW5d	4/9/2012	10:05	22.76	69.98		
ANT-MW5d	5/10/2012	11:34	24.42	68.32		
ANT-MW5d	6/18/2012	11:14	24.00	68.74		
ANT-MW5d	7/9/2012	11:42	17.05	75.69		
ANT-MW5d	8/15/2012	10:00	19.93	72.81		
ANT-MW5d	9/17/2012	12:27	22.47	70.27		
ANT-MW5d	10/19/2012	13:22	25.44	67.30		
ANT-MW5d	12/10/2012	13:27	25.14	67.60		
ANT-MW5d	12/31/2012	8:48	26.59	66.15		
ANT-MW5d	1/15/2013	13:12	26.75	65.99		
ANT-MW5d	2/16/2013	15:58	27.92	64.82		
ANT-MW5d	3/22/2013	12:08	22.48	70.26		
ANT-MW5d	4/16/2013	12:14	23.88	68.86		
ANT-MW5d	5/30/2013	19:54	22.08	70.66		
ANT-MW5d	6/18/2013	9:52	23.84	68.90		
ANT-MW5d	7/15/2013	17:14	19.38	73.36		
ANT-MW5d	8/27/2013	8:42	15.61	77.13		
ANT-MW5d	9/9/2013	13:10	21.04	71.70		
ANT-MW5d	10/7/2013	14:54	25.65	67.09		
ANT-MW5d	11/14/2013	15:49	26.49	66.25		
ANT-MW5d	12/17/2013	13:56	29.20	63.54		
ANT-MW5d	1/13/2014	13:44	30.69	62.05		
ANT-MW5d	2/19/2014	13:59	31.74	61.00		
ANT-MW5d	3/16/2014	14:00	32.54	60.20		
ANT-MW5d	4/19/2014	18:47	34.00	58.74		
ANT-MW5d	5/20/2014	17:25	34.74	58.00		
ANT-MW5d	6/19/2014	13:44	34.60	58.14		
ANT-MW5d	7/17/2014	12:32	33.92	58.82		
ANT-MW5d	8/21/2014	12:51	33.54	59.20		
ANT-MW5d	9/19/2014	15:47	30.94	61.80		
ANT-MW5d	10/14/2014	14:34	32.91	59.83		
ANT-MW5d	11/7/2014	8:28	30.48	62.26		
ANT-MW5d	12/14/2014	15:34	32.86	59.88		
ANT-MW5d	1/12/2015	16:48	33.07	59.67		
ANT-MW5d	2/6/2015	8:34	34.85	57.89		
ANT-MW5d	3/13/2015	14:43	35.91	56.83		
ANT-MW5d	4/17/2015	12:37	37.21	55.53		
ANT-MW5d	5/13/2015	12:14	33.72	59.02		
ANT-MW5d	6/4/2015	16:48	31.13	61.61		
ANT-MW5d	7/20/2015	15:58	30.58	62.16		
ANT-MW5d	8/19/2015	12:22	33.38	59.36		
ANT-MW5d	9/14/2015	12:52	36.21	56.53		
ANT-MW5d	10/16/2015	12:39	38.15	54.59		
ANT-MW5d	11/19/2015	9:52	36.66	56.08		
ANT-MW5d	12/26/2015	12:45	42.26	50.48		
ANT-MW5d	1/16/2016	10:30	43.80	48.94		
ANT-MW5d	2/24/2016	15:27	44.14	48.60		
ANT-MW5d	3/18/2016		N/M			
ANT-MW5d	4/18/2016	15:00	N/M			
ANT-MW5d	5/18/2016	14:12	36.74	56.00		
ANT-MW5d	6/17/2016	13:15	33.03	59.71		
ANT-MW5d	7/21/2016	14:20	13.19	79.55		
ANT-MW5d	8/17/2016	14:36	29.80	62.94		
ANT-MW5d	9/15/2016	16:38	30.13	62.61		
ANT-MW5d	10/14/2016	14:31	32.55	60.19		
ANT-MW5d	11/29/2016	12:56	34.41	58.33		
ANT-MW5d	12/13/2016	10:32	35.06	57.68		
ANT-MW5d	1/26/2017	9:41	36.77	55.97		
ANT-MW5d	2/1/2017		N/M			
ANT-MW5d	3/16/2017	14:01	28.93	63.81		
ANT-MW5d	4/21/2017	15:03	30.40	62.34		
ANT-MW5d	5/18/2017	12:37	30.23	62.51		
ANT-MW5d	6/23/2017	11:29	27.90	64.84		
ANT-MW5d	7/14/2017	13:10	27.08	65.66		
ANT-MW5d	8/29/2017	13:00	25.19	67.55		
ANT-MW5d	9/23/2017	15:28	26.44	66.30		
ANT-MW5d	10/20/2017	10:59	27.51	65.23		
ANT-MW5d	11/21/2017	9:15	27.18	65.56		
ANT-MW5d	12/31/2017	9:50	28.28	64.46		
ANT-MW5d	1/22/2018	16:12	28.90	63.84		
ANT-MW5d	2/21/2018	12:31	29.71	63.03		
ANT-MW5d	3/1/2018		N/M			
ANT-MW5d	4/24/2018	12:43	30.89	61.85		
ANT-MW5d	5/15/2018	13:10	31.25	61.49		
ANT-MW5d	6/14/2018	15:22	30.30	62.44		
ANT-MW5d	7/17/2018	10:23	27.36	65.38		
ANT-MW5d	8/20/2018	11:43	25.52	67.22		
ANT-MW5d	9/16/2018	18:59	25.54	67.20		
ANT-MW5d	10/25/2018	14:39	27.38	65.36		
ANT-MW5d	11/14/2018	15:42	27.69	65.05		
ANT-MW5d	12/14/2018	16:06	28.72	64.02		
ANT-MW5d	1/25/2019	13:28	29.78	62.96		
ANT-MW5d	2/26/2019	13:27	N/M			
ANT-MW5d	3/17/2019	16:14	29.67	63.07		
ANT-MW5d	4/16/2019	9:24	29.54	63.20		
ANT-MW5d	5/23/2019	8:42	29.10	63.64		
ANT-MW5d	6/20/2019	17:34	27.90	64.84		
ANT-MW5d	7/18/2019	9:50	24.44	68.30		
ANT-MW5d	8/15/2019	14:03	24.94	67.80		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ANT-MW5d	9/26/2019	13:10	23.33	69.41		
ANT-MW5d	10/28/2019	10:22	25.57	67.17		
ANT-MW5d	11/14/2019	8:12	24.81	67.93		
ANT-MW5d	12/14/2019	14:43	26.38	66.36		
ANT-MW6s	1/30/2012	10:58	18.45	69.62	0.40	0.02
ANT-MW6s	2/9/2012	17:19	18.62	69.45	0.49	0.02
ANT-MW6s	3/5/2012	10:21	15.02	73.05	-0.28	-0.01
ANT-MW6s	4/9/2012	9:59	15.72	72.35	0.93	0.04
ANT-MW6s	5/10/2012	10:39	18.03	70.04	0.74	0.03
ANT-MW6s	6/18/2012	11:10	16.30	71.77	0.67	0.03
ANT-MW6s	7/9/2012	11:33	8.81	79.26	2.57	0.11
ANT-MW6s	8/15/2012	9:46	10.85	77.22	2.42	0.11
ANT-MW6s	9/17/2012	12:23	15.71	72.36	1.55	0.07
ANT-MW6s	10/19/2012	13:17	19.62	68.45	0.39	0.02
ANT-MW6s	12/10/2012	13:30	18.78	69.29	1.34	0.06
ANT-MW6s	12/31/2012	8:52	20.22	67.85	1.15	0.05
ANT-MW6s	1/15/2013	13:38	20.74	67.33	0.08	0.00
ANT-MW6s	2/16/2013	16:09	21.91	66.16	1.06	0.05
ANT-MW6s	3/22/2013	12:00	15.60	72.47	1.16	0.05
ANT-MW6s	4/16/2013	12:00	17.52	70.55	1.26	0.05
ANT-MW6s	5/30/2013	19:38	16.89	71.18	1.61	0.07
ANT-MW6s	6/18/2013	10:05	16.18	71.89	1.02	0.04
ANT-MW6s	7/15/2013	17:25	10.55	77.52	2.81	0.12
ANT-MW6s	8/27/2013	8:32	11.26	76.81	2.70	0.12
ANT-MW6s	9/9/2013	13:02	14.32	73.75	2.58	0.11
ANT-MW6s	10/7/2013	15:01	19.59	68.48	1.77	0.08
ANT-MW6s	11/14/2013	13:24	19.63	68.44	2.05	0.09
ANT-MW6s	12/17/2013	14:15	22.91	65.16	1.77	0.08
ANT-MW6s	1/13/2014	13:23	24.56	63.51	1.64	0.07
ANT-MW6s	2/19/2014	13:36	25.00	63.07	0.87	0.04
ANT-MW6s	3/16/2014	13:41	26.25	61.82	1.33	0.06
ANT-MW6s	4/19/2014	18:28	27.80	60.27	1.06	0.05
ANT-MW6s	5/20/2014	17:05	28.25	59.82	1.19	0.05
ANT-MW6s	6/19/2014	13:23	27.11	60.96	1.37	0.06
ANT-MW6s	7/17/2014	12:12	23.72	64.35	1.96	0.09
ANT-MW6s	8/21/2014	12:30	23.87	64.20	2.43	0.11
ANT-MW6s	9/19/2014	15:24	24.69	63.38	2.69	0.12
ANT-MW6s	10/14/2014	14:15	26.68	61.39	2.35	0.10
ANT-MW6s	11/7/2014	8:03	24.39	63.68	1.21	0.05
ANT-MW6s	12/14/2014	15:18	26.50	61.57	2.04	0.09
ANT-MW6s	1/12/2015	16:22	27.72	60.35	1.00	0.04
ANT-MW6s	2/6/2015	8:21	28.31	59.76	1.90	0.08
ANT-MW6s	3/13/2015	14:13	29.57	58.50	2.28	0.10
ANT-MW6s	4/17/2015	12:16	30.60	57.47	1.87	0.08
ANT-MW6s	5/13/2015	11:55	28.55	59.52	1.68	0.07
ANT-MW6s	6/4/2015	16:37	24.87	63.20	1.75	0.08
ANT-MW6s	7/20/2015	16:11	22.13	65.94	2.57	0.11
ANT-MW6s	8/19/2015	12:11	25.67	62.40	3.53	0.15
ANT-MW6s	9/14/2015	13:04	28.64	59.43	3.68	0.16
ANT-MW6s	10/16/2015	12:56	32.90	55.17	0.82	0.04
ANT-MW6s	11/19/2015	9:45	Dry			
ANT-MW6s	12/26/2015	12:54	Dry			
ANT-MW6s	1/16/2016	10:16	Dry			
ANT-MW6s	2/24/2016	15:43	Dry			
ANT-MW6s	3/18/2016	13:56	Dry			
ANT-MW6s	4/18/2016	14:39	Dry			
ANT-MW6s	5/18/2016	12:17	Dry			
ANT-MW6s	6/17/2016	13:09	27.38	60.69	0.98	0.04
ANT-MW6s	7/21/2016	13:54	25.10	62.97	2.02	0.09
ANT-MW6s	8/17/2016	14:10	24.28	63.79	2.36	0.10
ANT-MW6s	9/15/2016	16:30	25.09	62.98	2.72	0.12
ANT-MW6s	10/14/2016	14:09	27.07	61.00	0.40	0.02
ANT-MW6s	11/29/2016	13:00	28.46	59.61	2.32	0.10
ANT-MW6s	12/13/2016	10:25	28.91	59.16	2.37	0.10
ANT-MW6s	1/26/2017	9:30	Dry			
ANT-MW6s	2/1/2017		N/M			
ANT-MW6s	3/16/2017	13:50	30.01	58.06	0.07	0.00
ANT-MW6s	4/21/2017	14:56	25.20	62.87	1.48	0.06
ANT-MW6s	5/18/2017	12:28	24.58	63.49	0.80	0.03
ANT-MW6s	6/23/2017	11:42	22.80	65.27	0.46	0.02
ANT-MW6s	7/14/2017	13:02	21.06	67.01	0.86	0.04
ANT-MW6s	8/29/2017	12:51	19.89	68.18	0.19	0.01
ANT-MW6s	9/23/2017	15:22	20.90	67.17	1.38	0.06
ANT-MW6s	10/20/2017	10:52	22.03	66.04	1.44	0.06
ANT-MW6s	11/21/2017	9:18	21.59	66.48	0.68	0.03
ANT-MW6s	12/31/2017	9:23	22.85	65.22	0.95	0.04
ANT-MW6s	1/22/2018	16:05	23.50	64.57	0.92	0.04
ANT-MW6s	2/21/2018	12:23	24.31	63.76	0.93	0.04
ANT-MW6s	3/1/2018		N/M			
ANT-MW6s	4/24/2018	12:19	25.71	62.36	0.57	0.02
ANT-MW6s	5/15/2018	13:12	26.05	62.02	0.72	0.03
ANT-MW6s	6/14/2018	14:56	25.20	62.87	0.27	0.01
ANT-MW6s	7/17/2018	10:14	22.24	65.83	0.87	0.04
ANT-MW6s	8/20/2018	11:48	20.36	67.71	0.85	0.04
ANT-MW6s	9/16/2018	18:54	20.18	67.89	1.40	0.06
ANT-MW6s	10/25/2018	14:01	21.90	66.17	1.43	0.06
ANT-MW6s	11/14/2018	15:33	22.48	65.59	1.35	0.06
ANT-MW6s	12/14/2018	15:58	23.35	64.72	1.14	0.05
ANT-MW6s	1/25/2019	13:19	24.38	63.69	0.88	0.04
ANT-MW6s	2/26/2019	13:07	24.40	63.67	0.63	0.03
ANT-MW6s	3/17/2019	16:06	24.18	63.89	0.62	0.03
ANT-MW6s	4/16/2019	9:48	24.12	63.95	0.51	0.02
ANT-MW6s	5/23/2019	8:23	24.02	64.05	0.30	0.01
ANT-MW6s	6/20/2019	17:26	23.05	65.02	0.24	0.01
ANT-MW6s	7/18/2019	9:42	21.68	66.39	0.61	0.03
ANT-MW6s	8/15/2019	13:41	19.54	68.53	0.69	0.03
ANT-MW6s	9/26/2019	12:40	18.45	69.62	1.35	0.06
ANT-MW6s	10/28/2019	10:14	20.08	67.99	1.15	0.05
ANT-MW6s	11/14/2019	7:51	20.45	67.62	1.22	0.05
ANT-MW6s	12/14/2019	14:34	20.52	67.55	0.54	0.02
ANT-MW6d	1/30/2012	11:01	18.47	69.22		
ANT-MW6d	2/9/2012	17:20	18.73	68.96		
ANT-MW6d	3/5/2012	10:22	14.36	73.33		
ANT-MW6d	4/9/2012	9:58	16.27	71.42		
ANT-MW6d	5/10/2012	10:40	18.39	69.30		
ANT-MW6d	6/18/2012	11:09	16.59	71.10		
ANT-MW6d	7/9/2012	11:33	11.00	76.69		
ANT-MW6d	8/15/2012	9:47	12.89	74.80		
ANT-MW6d	9/17/2012	12:23	16.88	70.81		
ANT-MW6d	10/19/2012	13:17	19.63	68.06		
ANT-MW6d	12/10/2012	13:30	19.74	67.95		
ANT-MW6d	12/31/2012	8:53	20.99	66.70		
ANT-MW6d	1/15/2013	13:38	20.44	67.25		
ANT-MW6d	2/16/2013	16:09	22.59	65.10		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ANT-MW6d	3/22/2013	12:00	16.38	71.31		
ANT-MW6d	4/16/2013	12:00	18.40	69.29		
ANT-MW6d	5/30/2013	19:38	18.12	69.57		
ANT-MW6d	6/18/2013	10:06	16.82	70.87		
ANT-MW6d	7/15/2013	17:25	12.98	74.71		
ANT-MW6d	8/27/2013	8:32	13.58	74.11		
ANT-MW6d	9/9/2013	13:02	16.52	71.17		
ANT-MW6d	10/7/2013	15:01	20.98	66.71		
ANT-MW6d	11/14/2013	13:24	21.30	66.39		
ANT-MW6d	12/17/2013	14:15	24.30	63.39		
ANT-MW6d	1/13/2014	13:23	25.82	61.87		
ANT-MW6d	2/19/2014	13:36	25.49	62.20		
ANT-MW6d	3/16/2014	13:41	27.20	60.49		
ANT-MW6d	4/19/2014	18:28	28.48	59.21		
ANT-MW6d	5/20/2014	17:05	29.06	58.63		
ANT-MW6d	6/19/2014	13:23	28.10	59.59		
ANT-MW6d	7/17/2014	12:12	25.30	62.39		
ANT-MW6d	8/21/2014	12:30	25.92	61.77		
ANT-MW6d	9/19/2014	15:24	27.00	60.69		
ANT-MW6d	10/14/2014	14:15	28.65	59.04		
ANT-MW6d	11/7/2014	8:03	25.22	62.47		
ANT-MW6d	12/14/2014	15:18	28.16	59.53		
ANT-MW6d	1/12/2015	16:22	28.34	59.35		
ANT-MW6d	2/6/2015	8:21	29.83	57.86		
ANT-MW6d	3/13/2015	14:13	31.47	56.22		
ANT-MW6d	4/17/2015	12:16	32.09	55.60		
ANT-MW6d	5/13/2015	11:55	29.85	57.84		
ANT-MW6d	6/4/2015	16:37	26.24	61.45		
ANT-MW6d	7/20/2015	16:11	24.32	63.37		
ANT-MW6d	8/19/2015	12:11	28.82	58.87		
ANT-MW6d	9/14/2015	13:04	31.94	55.75		
ANT-MW6d	10/16/2015	12:56	33.34	54.35		
ANT-MW6d	11/19/2015	9:45	34.24	53.45		
ANT-MW6d	12/26/2015	12:55	35.90	51.79		
ANT-MW6d	1/16/2016	10:17	36.51	51.18		
ANT-MW6d	2/24/2016	15:44	37.15	50.54		
ANT-MW6d	3/18/2016	13:56	37.33	50.36		
ANT-MW6d	4/18/2016	14:39	37.54	50.15		
ANT-MW6d	5/18/2016	12:17	33.24	54.45		
ANT-MW6d	6/17/2016	13:10	27.98	59.71		
ANT-MW6d	7/21/2016	13:54	26.74	60.95		
ANT-MW6d	8/17/2016	14:10	26.26	61.43		
ANT-MW6d	9/15/2016	16:31	27.43	60.26		
ANT-MW6d	10/14/2016	14:09	27.09	60.60		
ANT-MW6d	11/29/2016	13:00	30.40	57.29		
ANT-MW6d	12/13/2016	10:26	30.90	56.79		
ANT-MW6d	1/26/2017	9:31	32.35	55.34		
ANT-MW6d	2/1/2017		N/M			
ANT-MW6d	3/16/2017	13:50	29.70	57.99		
ANT-MW6d	4/21/2017	14:57	26.30	61.39		
ANT-MW6d	5/18/2017	12:28	25.00	62.69		
ANT-MW6d	6/23/2017	11:42	22.88	64.81		
ANT-MW6d	7/14/2017	13:03	21.54	66.15		
ANT-MW6d	8/29/2017	12:51	19.70	67.99		
ANT-MW6d	9/23/2017	15:23	21.90	65.79		
ANT-MW6d	10/20/2017	10:53	23.09	64.60		
ANT-MW6d	11/21/2017	9:18	21.89	65.80		
ANT-MW6d	12/31/2017	9:23	23.42	64.27		
ANT-MW6d	1/22/2018	16:06	24.04	63.65		
ANT-MW6d	2/21/2018	12:24	24.86	62.83		
ANT-MW6d	3/1/2018		N/M			
ANT-MW6d	4/24/2018	12:20	25.90	61.79		
ANT-MW6d	5/15/2018	13:12	26.39	61.30		
ANT-MW6d	6/14/2018	14:56	25.09	62.60		
ANT-MW6d	7/17/2018	10:15	22.73	64.96		
ANT-MW6d	8/20/2018	11:49	20.83	66.86		
ANT-MW6d	9/16/2018	18:54	21.20	66.49		
ANT-MW6d	10/25/2018	14:01	22.95	64.74		
ANT-MW6d	11/14/2018	15:34	23.45	64.24		
ANT-MW6d	12/14/2018	15:59	24.11	63.58		
ANT-MW6d	1/25/2019	13:20	24.88	62.81		
ANT-MW6d	2/26/2019	13:07	24.65	63.04		
ANT-MW6d	3/17/2019	16:07	24.42	63.27		
ANT-MW6d	4/16/2019	9:48	24.25	63.44		
ANT-MW6d	5/23/2019	8:23	23.94	63.75		
ANT-MW6d	6/20/2019	17:27	22.91	64.78		
ANT-MW6d	7/18/2019	9:42	21.91	65.78		
ANT-MW6d	8/15/2019	13:41	19.85	67.84		
ANT-MW6d	9/26/2019	12:40	19.42	68.27		
ANT-MW6d	10/28/2019	10:15	20.85	66.84		
ANT-MW6d	11/14/2019	7:51	21.29	66.40		
ANT-MW6d	12/14/2019	14:35	20.68	67.01		
COR-MW1s	1/30/2012	16:10	6.65	103.01	<|0.05|	0
COR-MW1s	2/10/2012	10:23	6.82	102.84	<|0.05|	0
COR-MW1s	3/5/2012	10:40	6.51	103.15	<|0.05|	0
COR-MW1s	4/9/2012	11:22	6.20	103.46	<|0.05|	0
COR-MW1s	5/11/2012	15:00	7.52	102.14	<|0.05|	0
COR-MW1s	6/20/2012	11:16	7.47	102.19	<|0.05|	0
COR-MW1s	7/11/2012	15:30	8.77	100.89	<|0.05|	0
COR-MW1s	8/17/2012	8:40	7.82	101.84	<|0.05|	0
COR-MW1s	9/18/2012	10:28	8.18	101.48	<|0.05|	0
COR-MW1s	10/19/2012	9:39	9.00	100.66	<|0.05|	0
COR-MW1s	12/7/2012	13:37	7.84	101.82	<|0.05|	0
COR-MW1s	12/31/2012	10:48	7.02	102.64	<|0.05|	0
COR-MW1s	1/15/2013	9:45	6.90	102.76	<|0.05|	0
COR-MW1s	2/16/2013	16:54	6.97	102.69	<|0.05|	0
COR-MW1s	3/18/2013	10:33	7.08	102.58	<|0.05|	0
COR-MW1s	4/17/2013	13:49	7.04	102.62	<|0.05|	0
COR-MW1s	5/29/2013	8:53	7.50	102.16	<|0.05|	0
COR-MW1s	6/18/2013	12:05	8.20	101.46	<|0.05|	0
COR-MW1s	7/15/2013	14:01	8.76	100.90	<|0.05|	0
COR-MW1s	8/22/2013	9:23	8.27	101.39	<|0.05|	0
COR-MW1s	9/9/2013	10:24	8.02	101.64	<|0.05|	0
COR-MW1s	10/7/2013	13:19	8.40	101.26	<|0.05|	0
COR-MW1s	11/12/2013	13:40	9.08	100.58	<|0.05|	0
COR-MW1s	12/17/2013	12:41	8.63	101.03	<|0.05|	0
COR-MW1s	1/13/2014	11:45	8.72	100.94	<|0.05|	0
COR-MW1s	2/18/2014	14:09	8.39	101.27	<|0.05|	0
COR-MW1s	3/17/2014	11:27	8.40	101.26	<|0.05|	0
COR-MW1s	4/19/2014	10:40	8.04	101.62	<|0.05|	0
COR-MW1s	5/22/2014	15:05	9.55	100.11	<|0.05|	0
COR-MW1s	6/20/2014	13:46	10.24	99.42	<|0.05|	0
COR-MW1s	7/16/2014	17:51	10.24	99.42	<|0.05|	0
COR-MW1s	8/28/2014	12:35	10.66	99.00	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
COR-MW1s	9/19/2014	12:58	10.36	99.30	<|0.05|	0
COR-MW1s	10/14/2014	9:43	10.60	99.06	<|0.05|	0
COR-MW1s	11/11/2014	13:40	10.63	99.03	<|0.05|	0
COR-MW1s	12/15/2014	12:20	8.39	101.27	<|0.05|	0
COR-MW1s	1/13/2015	12:04	7.59	102.07	<|0.05|	0
COR-MW1s	2/10/2015	8:30	7.92	101.74	<|0.05|	0
COR-MW1s	3/13/2015	10:05	8.04	101.62	<|0.05|	0
COR-MW1s	4/17/2015	9:05	8.74	100.92	<|0.05|	0
COR-MW1s	5/12/2015	11:13	8.37	101.29	<|0.05|	0
COR-MW1s	6/4/2015	9:47	9.90	99.76	<|0.05|	0
COR-MW1s	7/20/2015	13:06	11.16	98.50	<|0.05|	0
COR-MW1s	8/14/2015	13:36	11.60	98.06	-0.09	-0.01
COR-MW1s	9/14/2015	15:28	12.32	97.34	<|0.05|	0
COR-MW1s	10/16/2015	15:06	12.50	97.16	<|0.05|	0
COR-MW1s	11/13/2015	12:40	12.79	96.87	<|0.05|	0
COR-MW1s	12/31/2015	11:04	12.47	97.19	<|0.05|	0
COR-MW1s	1/16/2016	15:51	12.30	97.36	<|0.05|	0
COR-MW1s	2/26/2016	8:40	11.19	98.47	<|0.05|	0
COR-MW1s	3/19/2016	9:29	10.75	98.91	<|0.05|	0
COR-MW1s	4/18/2016	13:56	11.00	98.66	<|0.05|	0
COR-MW1s	5/17/2016	9:41	10.38	99.28	<|0.05|	0
COR-MW1s	6/17/2016	10:59	10.79	98.87	<|0.05|	0
COR-MW1s	7/22/2016	9:42	9.43	100.23	<|0.05|	0
COR-MW1s	8/16/2016	17:05	9.27	100.39	<|0.05|	0
COR-MW1s	9/16/2016	13:43	8.34	101.32	<|0.05|	0
COR-MW1s	10/14/2016	14:26	9.44	100.22	<|0.05|	0
COR-MW1s	11/29/2016	9:29	8.63	101.03	<|0.05|	0
COR-MW1s	12/13/2016	15:30	7.63	102.03	<|0.05|	0
COR-MW1s	1/26/2017	11:46	5.01	104.65	<|0.05|	0
COR-MW1s	2/1/2017		N/M			
COR-MW1s	3/14/2017	16:10	5.81	103.85	<|0.05|	0
COR-MW1s	4/21/2017	13:01	5.99	103.67	<|0.05|	0
COR-MW1s	5/17/2017	11:11	6.15	103.51	<|0.05|	0
COR-MW1s	6/23/2017	9:24	7.11	102.55	<|0.05|	0
COR-MW1s	7/14/2017	9:30	7.48	102.18	<|0.05|	0
COR-MW1s	8/23/2017	7:50	7.35	102.31	<|0.05|	0
COR-MW1s	9/23/2017	13:26	7.84	101.82	<|0.05|	0
COR-MW1s	10/20/2017	12:46	8.09	101.57	<|0.05|	0
COR-MW1s	11/16/2017	10:01	7.66	102.00	<|0.05|	0
COR-MW1s	12/31/2017	9:48	7.12	102.54	<|0.05|	0
COR-MW1s	1/22/2018	13:49	6.32	103.34	<|0.05|	0
COR-MW1s	2/27/2018	9:25	6.60	103.06	<|0.05|	0
COR-MW1s	3/1/2018		N/M			
COR-MW1s	4/25/2018	12:10	6.72	102.94	<|0.05|	0
COR-MW1s	5/16/2018	11:16	6.51	103.15	<|0.05|	0
COR-MW1s	6/14/2018	12:01	7.46	102.20	<|0.05|	0
COR-MW1s	7/17/2018	12:38	7.87	101.79	<|0.05|	0
COR-MW1s	8/17/2018	16:02	7.44	102.22	<|0.05|	0
COR-MW1s	9/12/2018	10:38	6.67	102.99	<|0.05|	0
COR-MW1s	10/25/2018	14:11	8.18	101.48	<|0.05|	0
COR-MW1s	11/13/2018	9:56	7.82	101.84	<|0.05|	0
COR-MW1s	12/14/2018	14:13	7.30	102.36	<|0.05|	0
COR-MW1s	1/24/2019	14:50	6.22	103.44	<|0.05|	0
COR-MW1s	3/1/2019	10:33	5.72	103.94	<|0.05|	0
COR-MW1s	3/17/2019	14:18	5.85	103.81	<|0.05|	0
COR-MW1s	4/15/2019	10:23	6.42	103.24	<|0.05|	0
COR-MW1s	5/22/2019	8:15	7.25	102.41	<|0.05|	0
COR-MW1s	6/20/2019	10:57	7.58	102.08	<|0.05|	0
COR-MW1s	7/17/2019	9:17	7.29	102.37	<|0.05|	0
COR-MW1s	8/21/2019	9:40	6.97	102.69	<|0.05|	0
COR-MW1s	9/26/2019	10:39	7.30	102.36	<|0.05|	0
COR-MW1s	10/24/2019	13:43	7.36	102.30	<|0.05|	0
COR-MW1s	11/14/2019	11:26	7.65	102.01	<|0.05|	0
COR-MW1s	12/13/2019	11:05	5.57	104.09	<|0.05|	0
COR-MW1d	1/30/2012	16:10	6.51	103.03		
COR-MW1d	2/10/2012	10:24	6.70	102.84		
COR-MW1d	3/5/2012	10:41	6.39	103.15		
COR-MW1d	4/9/2012	11:23	6.07	103.47		
COR-MW1d	5/11/2012	15:01	7.40	102.14		
COR-MW1d	6/20/2012	11:17	7.34	102.20		
COR-MW1d	7/11/2012	15:29	8.63	100.91		
COR-MW1d	8/17/2012	8:40	7.69	101.85		
COR-MW1d	9/18/2012	10:28	8.08	101.46		
COR-MW1d	10/19/2012	9:39	8.88	100.66		
COR-MW1d	12/7/2012	13:37	7.75	101.79		
COR-MW1d	12/31/2012	10:49	6.89	102.65		
COR-MW1d	1/15/2013	9:45	6.75	102.79		
COR-MW1d	2/16/2013	16:54	6.84	102.70		
COR-MW1d	3/18/2013	10:33	7.00	102.54		
COR-MW1d	4/17/2013	13:49	6.91	102.63		
COR-MW1d	5/29/2013	8:53	7.37	102.17		
COR-MW1d	6/18/2013	12:06	8.07	101.47		
COR-MW1d	7/15/2013	14:01	8.63	100.91		
COR-MW1d	8/22/2013	9:23	8.15	101.39		
COR-MW1d	9/9/2013	10:24	7.89	101.65		
COR-MW1d	10/7/2013	13:19	8.30	101.24		
COR-MW1d	11/12/2013	13:40	8.93	100.61		
COR-MW1d	12/17/2013	12:41	8.55	100.99		
COR-MW1d	1/13/2014	11:45	8.62	100.92		
COR-MW1d	2/18/2014	14:09	8.31	101.23		
COR-MW1d	3/17/2014	11:27	8.30	101.24		
COR-MW1d	4/19/2014	10:40	7.95	101.59		
COR-MW1d	5/22/2014	15:05	9.42	100.12		
COR-MW1d	6/20/2014	13:46	10.10	99.44		
COR-MW1d	7/16/2014	17:51	10.10	99.44		
COR-MW1d	8/28/2014	12:35	10.54	99.00		
COR-MW1d	9/19/2014	12:58	10.27	99.27		
COR-MW1d	10/14/2014	9:43	10.47	99.07		
COR-MW1d	11/11/2014	13:40	10.52	99.02		
COR-MW1d	12/15/2014	12:20	8.25	101.29		
COR-MW1d	1/13/2015	12:04	7.50	102.04		
COR-MW1d	2/10/2015	8:30	7.79	101.75		
COR-MW1d	3/13/2015	10:05	7.93	101.61		
COR-MW1d	4/17/2015	9:05	8.65	100.89		
COR-MW1d	5/12/2015	11:13	8.25	101.29		
COR-MW1d	6/4/2015	9:47	9.82	99.72		
COR-MW1d	7/20/2015	13:06	11.01	98.53		
COR-MW1d	8/14/2015	13:36	11.39	98.15		
COR-MW1d	9/14/2015	15:28	12.21	97.33		
COR-MW1d	10/16/2015	15:06	12.43	97.11		
COR-MW1d	11/13/2015	12:40	12.68	96.86		
COR-MW1d	12/31/2015	11:05	12.35	97.19		
COR-MW1d	1/16/2016	15:52	12.22	97.32		
COR-MW1d	2/26/2016	8:39	11.07	98.47		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
COR-MW1d	3/19/2016	9:29	10.61	98.93		
COR-MW1d	4/18/2016	13:57	10.89	98.65		
COR-MW1d	5/17/2016	9:42	10.27	99.27		
COR-MW1d	6/17/2016	11:00	10.66	98.88		
COR-MW1d	7/22/2016	9:42	9.29	100.25		
COR-MW1d	8/16/2016	17:06	9.16	100.38		
COR-MW1d	9/16/2016	13:42	8.22	101.32		
COR-MW1d	10/14/2016	14:27	9.33	100.21		
COR-MW1d	11/29/2016	9:29	8.51	101.03		
COR-MW1d	12/13/2016	15:31	7.52	102.02		
COR-MW1d	1/26/2017	11:47	4.88	104.66		
COR-MW1d	2/1/2017		N/M			
COR-MW1d	3/14/2017	16:10	5.71	103.83		
COR-MW1d	4/21/2017	13:02	5.89	103.65		
COR-MW1d	5/17/2017	11:11	6.03	103.51		
COR-MW1d	6/23/2017	9:24	6.99	102.55		
COR-MW1d	7/14/2017	9:30	7.36	102.18		
COR-MW1d	8/23/2017	7:50	7.23	102.31		
COR-MW1d	9/23/2017	13:27	7.71	101.83		
COR-MW1d	10/20/2017	12:47	8.00	101.54		
COR-MW1d	11/16/2017	10:00	7.59	101.95		
COR-MW1d	12/31/2017	9:50	7.00	102.54		
COR-MW1d	1/22/2018	13:50	6.20	103.34		
COR-MW1d	2/27/2018	9:26	6.45	103.09		
COR-MW1d	3/1/2018		N/M			
COR-MW1d	4/25/2018	12:10	6.57	102.97		
COR-MW1d	5/16/2018	11:16	6.39	103.15		
COR-MW1d	6/14/2018	12:01	7.38	102.16		
COR-MW1d	7/17/2018	12:39	7.73	101.81		
COR-MW1d	8/17/2018	16:02	7.35	102.19		
COR-MW1d	9/12/2018	10:38	6.54	103.00		
COR-MW1d	10/25/2018	14:11	8.08	101.46		
COR-MW1d	11/13/2018	9:57	7.69	101.85		
COR-MW1d	12/14/2018	14:14	7.15	102.39		
COR-MW1d	1/24/2019	14:51	6.12	103.42		
COR-MW1d	3/1/2019	10:33	5.60	103.94		
COR-MW1d	3/17/2019	14:19	5.72	103.82		
COR-MW1d	4/15/2019	10:23	6.29	103.25		
COR-MW1d	5/22/2019	8:15	7.13	102.41		
COR-MW1d	6/20/2019	10:57	7.48	102.06		
COR-MW1d	7/17/2019	9:17	7.18	102.36		
COR-MW1d	8/21/2019	9:40	6.83	102.71		
COR-MW1d	9/26/2019	10:39	7.20	102.34		
COR-MW1d	10/24/2019	13:43	7.23	102.31		
COR-MW1d	11/14/2019	11:26	7.55	101.99		
COR-MW1d	12/13/2019	11:05	5.43	104.11		
COR-MW2s	1/30/2012	16:15	6.10	105.82	<|0.05|	0
COR-MW2s	2/10/2012	8:59	4.93	106.99	<|0.05|	0
COR-MW2s	3/5/2012	10:43	5.67	106.25	<|0.05|	0
COR-MW2s	4/9/2012	11:28	5.85	106.07	<|0.05|	0
COR-MW2s	5/11/2012	14:45	7.79	104.13	<|0.05|	0
COR-MW2s	6/20/2012	11:22	6.89	105.03	<|0.05|	0
COR-MW2s	7/11/2012	15:06	7.94	103.98	0.10	0.01
COR-MW2s	8/17/2012	8:44	8.50	103.42	<|0.05|	0
COR-MW2s	9/18/2012	10:23	7.25	104.67	<|0.05|	0
COR-MW2s	10/19/2012	9:35	8.81	103.11	<|0.05|	0
COR-MW2s	12/7/2012	13:33	7.27	104.65	<|0.05|	0
COR-MW2s	12/31/2012	10:35	6.80	105.12	<|0.05|	0
COR-MW2s	1/15/2013	9:42	6.59	105.33	<|0.05|	0
COR-MW2s	2/16/2013	16:50	6.07	105.85	<|0.05|	0
COR-MW2s	3/18/2013	10:30	6.15	105.77	<|0.05|	0
COR-MW2s	4/17/2013	13:39	5.30	106.62	<|0.05|	0
COR-MW2s	5/29/2013	9:04	7.57	104.35	<|0.05|	0
COR-MW2s	6/18/2013	12:02	8.43	103.49	<|0.05|	0
COR-MW2s	7/15/2013	14:06	9.00	102.92	<|0.05|	0
COR-MW2s	8/22/2013	9:34	8.80	103.12	<|0.05|	0
COR-MW2s	9/9/2013	10:30	8.88	103.04	<|0.05|	0
COR-MW2s	10/7/2013	13:27	8.87	103.05	<|0.05|	0
COR-MW2s	11/12/2013	13:33	8.65	103.27	<|0.05|	0
COR-MW2s	12/17/2013	12:47	8.50	103.42	<|0.05|	0
COR-MW2s	1/13/2014	11:55	8.68	103.24	-0.18	-0.01
COR-MW2s	2/18/2014	13:58	8.21	103.71	<|0.05|	0
COR-MW2s	3/17/2014	11:13	8.02	103.90	<|0.05|	0
COR-MW2s	4/19/2014	10:35	7.25	104.67	<|0.05|	0
COR-MW2s	5/22/2014	15:00	9.72	102.20	<|0.05|	0
COR-MW2s	6/20/2014	13:32	10.74	101.18	<|0.05|	0
COR-MW2s	7/16/2014	17:34	11.42	100.50	<|0.05|	0
COR-MW2s	8/28/2014	12:20	11.52	100.40	<|0.05|	0
COR-MW2s	9/19/2014	12:46	11.52	100.40	<|0.05|	0
COR-MW2s	10/14/2014	9:53	10.52	101.40	<|0.05|	0
COR-MW2s	11/11/2014	13:47	10.01	101.91	<|0.05|	0
COR-MW2s	12/15/2014	12:00	7.83	104.09	<|0.05|	0
COR-MW2s	1/13/2015	11:49	7.02	104.90	<|0.05|	0
COR-MW2s	2/10/2015	8:35	7.61	104.31	<|0.05|	0
COR-MW2s	3/13/2015	10:11	7.88	104.04	<|0.05|	0
COR-MW2s	4/17/2015	9:11	8.81	103.11	<|0.05|	0
COR-MW2s	5/12/2015	11:10	9.59	102.33	0.07	0.01
COR-MW2s	6/4/2015	9:54	10.23	101.69	<|0.05|	0
COR-MW2s	7/20/2015	13:13	11.67	100.25	<|0.05|	0
COR-MW2s	8/14/2015	13:20	11.38	100.54	<|0.05|	0
COR-MW2s	9/14/2015	15:33	11.83	100.09	<|0.05|	0
COR-MW2s	10/16/2015	15:11	12.92	99.00	<|0.05|	0
COR-MW2s	11/13/2015	12:25	12.42	99.50	<|0.05|	0
COR-MW2s	12/31/2015	10:50	11.68	100.24	<|0.05|	0
COR-MW2s	1/16/2016	15:56	11.62	100.30	<|0.05|	0
COR-MW2s	2/26/2016	8:43	11.15	100.77	<|0.05|	0
COR-MW2s	3/19/2016	9:15	10.50	101.42	0.06	0.00
COR-MW2s	4/18/2016	13:52	10.25	101.67	<|0.05|	0
COR-MW2s	5/17/2016	9:37	8.92	103.00	<|0.05|	0
COR-MW2s	6/17/2016	11:04	9.75	102.17	<|0.05|	0
COR-MW2s	7/22/2016	9:27	8.68	103.24	<|0.05|	0
COR-MW2s	8/16/2016	17:00	8.09	103.83	<|0.05|	0
COR-MW2s	9/16/2016	13:38	7.84	104.08	<|0.05|	0
COR-MW2s	10/14/2016	14:22	8.43	103.49	<|0.05|	0
COR-MW2s	11/29/2016	9:20	7.39	104.53	<|0.05|	0
COR-MW2s	12/13/2016	15:26	7.04	104.88	<|0.05|	0
COR-MW2s	1/26/2017	11:40	4.66	107.26	<|0.05|	0
COR-MW2s	2/1/2017		N/M			
COR-MW2s	3/14/2017	16:03	4.27	107.65	<|0.05|	0
COR-MW2s	4/21/2017	12:56	4.96	106.96	<|0.05|	0
COR-MW2s	5/17/2017	11:09	5.77	106.15	<|0.05|	0
COR-MW2s	6/23/2017	9:30	6.22	105.70	<|0.05|	0
COR-MW2s	7/14/2017	9:37	6.85	105.07	0.06	0.00
COR-MW2s	8/23/2017	7:46	5.85	106.07	0.21	0.02

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
COR-MW2s	9/23/2017	13:20	5.67	106.25	<|0.05|	0
COR-MW2s	10/20/2017	12:39	6.76	105.16	<|0.05|	0
COR-MW2s	11/16/2017	9:49	6.86	105.06	<|0.05|	0
COR-MW2s	12/31/2017	9:45	6.64	105.28	<|0.05|	0
COR-MW2s	1/22/2018	13:45	5.82	106.10	<|0.05|	0
COR-MW2s	2/27/2018	9:30	6.65	105.27	<|0.05|	0
COR-MW2s	3/1/2018		N/M			
COR-MW2s	4/25/2018	12:04	7.23	104.69	<|0.05|	0
COR-MW2s	5/16/2018	11:10	7.41	104.51	<|0.05|	0
COR-MW2s	6/14/2018	11:55	6.64	105.28	<|0.05|	0
COR-MW2s	7/17/2018	12:33	7.54	104.38	<|0.05|	0
COR-MW2s	8/17/2018	15:57	6.27	105.65	<|0.05|	0
COR-MW2s	9/12/2018	10:46	6.02	105.90	0.13	0.01
COR-MW2s	10/25/2018	14:16	6.70	105.22	<|0.05|	0
COR-MW2s	11/13/2018	10:00	N/M			
COR-MW2s	12/14/2018	14:10	6.79	105.13	<|0.05|	0
COR-MW2s	1/24/2019	14:44	5.98	105.94	<|0.05|	0
COR-MW2s	3/1/2019	10:23	5.28	106.64	<|0.05|	0
COR-MW2s	3/17/2019	14:14	5.79	106.13	<|0.05|	0
COR-MW2s	4/15/2019	10:29	6.15	105.77	<|0.05|	0
COR-MW2s	5/22/2019	8:04	6.26	105.66	<|0.05|	0
COR-MW2s	6/20/2019	11:06	6.52	105.40	0.11	0.01
COR-MW2s	7/17/2019	9:25	6.18	105.74	<|0.05|	0
COR-MW2s	8/21/2019	9:32	5.41	106.51	<|0.05|	0
COR-MW2s	9/26/2019	10:43	6.32	105.60	<|0.05|	0
COR-MW2s	10/24/2019	14:50	6.82	105.10	<|0.05|	0
COR-MW2s	11/14/2019	11:21	6.64	105.28	<|0.05|	0
COR-MW2s	12/13/2019	11:18	4.83	107.09	<|0.05|	0
COR-MW2d	1/30/2012	16:15	5.87	105.82		
COR-MW2d	2/10/2012	9:00	4.71	106.98		
COR-MW2d	3/5/2012	10:44	5.43	106.26		
COR-MW2d	4/9/2012	11:29	5.61	106.08		
COR-MW2d	5/11/2012	14:46	7.55	104.14		
COR-MW2d	6/20/2012	11:23	6.67	105.02		
COR-MW2d	7/11/2012	15:06	7.81	103.88		
COR-MW2d	8/17/2012	8:44	8.27	103.42		
COR-MW2d	9/18/2012	10:23	7.03	104.66		
COR-MW2d	10/19/2012	9:35	8.60	103.09		
COR-MW2d	12/7/2012	13:33	7.05	104.64		
COR-MW2d	12/31/2012	10:36	6.56	105.13		
COR-MW2d	1/15/2013	9:42	6.37	105.32		
COR-MW2d	2/16/2013	16:50	5.85	105.84		
COR-MW2d	3/18/2013	10:30	5.95	105.74		
COR-MW2d	4/17/2013	13:39	5.09	106.60		
COR-MW2d	5/29/2013	9:04	7.35	104.34		
COR-MW2d	6/18/2013	12:03	8.22	103.47		
COR-MW2d	7/15/2013	14:06	8.79	102.90		
COR-MW2d	8/22/2013	9:34	8.60	103.09		
COR-MW2d	9/9/2013	10:30	8.64	103.05		
COR-MW2d	10/7/2013	13:27	8.68	103.01		
COR-MW2d	11/12/2013	13:33	8.43	103.26		
COR-MW2d	12/17/2013	12:47	8.32	103.37		
COR-MW2d	1/13/2014	11:55	8.27	103.42		
COR-MW2d	2/18/2014	13:58	8.03	103.66		
COR-MW2d	3/17/2014	11:13	7.82	103.87		
COR-MW2d	4/19/2014	10:35	7.05	104.64		
COR-MW2d	5/22/2014	15:00	9.53	102.16		
COR-MW2d	6/20/2014	13:32	10.51	101.18		
COR-MW2d	7/16/2014	17:34	11.20	100.49		
COR-MW2d	8/28/2014	12:20	11.31	100.38		
COR-MW2d	9/19/2014	12:46	11.29	100.40		
COR-MW2d	10/14/2014	9:53	10.29	101.40		
COR-MW2d	11/11/2014	13:47	9.80	101.89		
COR-MW2d	12/15/2014	12:00	7.61	104.08		
COR-MW2d	1/13/2015	11:49	6.82	104.87		
COR-MW2d	2/10/2015	8:35	7.38	104.31		
COR-MW2d	3/13/2015	10:11	7.66	104.03		
COR-MW2d	4/17/2015	9:11	8.61	103.08		
COR-MW2d	5/12/2015	11:10	9.43	102.26		
COR-MW2d	6/4/2015	9:54	10.03	101.66		
COR-MW2d	7/20/2015	13:13	11.48	100.21		
COR-MW2d	8/14/2015	13:20	11.17	100.52		
COR-MW2d	9/14/2015	15:33	11.63	100.06		
COR-MW2d	10/16/2015	15:11	12.73	98.96		
COR-MW2d	11/13/2015	12:25	12.19	99.50		
COR-MW2d	12/31/2015	10:51	11.46	100.23		
COR-MW2d	1/16/2016	15:57	11.40	100.29		
COR-MW2d	2/26/2016	8:42	10.94	100.75		
COR-MW2d	3/19/2016	9:15	10.33	101.36		
COR-MW2d	4/18/2016	13:53	10.02	101.67		
COR-MW2d	5/17/2016	9:38	8.70	102.99		
COR-MW2d	6/17/2016	11:05	9.52	102.17		
COR-MW2d	7/22/2016	9:27	8.46	103.23		
COR-MW2d	8/16/2016	17:01	7.90	103.79		
COR-MW2d	9/16/2016	13:39	7.63	104.06		
COR-MW2d	10/14/2016	14:21	8.24	103.45		
COR-MW2d	11/29/2016	9:20	7.16	104.53		
COR-MW2d	12/13/2016	15:27	6.81	104.88		
COR-MW2d	1/26/2017	11:41	4.43	107.26		
COR-MW2d	2/1/2017		N/M			
COR-MW2d	3/14/2017	16:03	4.03	107.66		
COR-MW2d	4/21/2017	12:57	4.75	106.94		
COR-MW2d	5/17/2017	11:09	5.54	106.15		
COR-MW2d	6/23/2017	9:30	6.00	105.69		
COR-MW2d	7/14/2017	9:37	6.68	105.01		
COR-MW2d	8/23/2017	7:46	5.83	105.86		
COR-MW2d	9/23/2017	13:21	5.47	106.22		
COR-MW2d	10/20/2017	12:40	6.56	105.13		
COR-MW2d	11/16/2017	9:48	6.65	105.04		
COR-MW2d	12/31/2017	9:46	6.38	105.31		
COR-MW2d	1/22/2018	13:46	5.60	106.09		
COR-MW2d	2/27/2018	9:30	6.42	105.27		
COR-MW2d	3/1/2018		N/M			
COR-MW2d	4/25/2018	12:04	7.01	104.68		
COR-MW2d	5/16/2018	11:10	7.17	104.52		
COR-MW2d	6/14/2018	11:56	6.43	105.26		
COR-MW2d	7/17/2018	12:34	7.32	104.37		
COR-MW2d	8/17/2018	15:57	6.06	105.63		
COR-MW2d	9/12/2018	10:46	5.92	105.77		
COR-MW2d	10/25/2018	14:16	6.48	105.21		
COR-MW2d	11/13/2018	10:00	N/M			
COR-MW2d	12/14/2018	14:11	6.54	105.15		
COR-MW2d	1/24/2019	14:45	5.77	105.92		
COR-MW2d	3/1/2019	10:23	5.05	106.64		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
COR-MW2d	3/17/2019	14:13	5.57	106.12		
COR-MW2d	4/15/2019	10:29	5.93	105.76		
COR-MW2d	5/22/2019	8:04	6.02	105.67		
COR-MW2d	6/20/2019	11:06	6.40	105.29		
COR-MW2d	7/17/2019	9:25	5.98	105.71		
COR-MW2d	8/21/2019	9:32	5.20	106.49		
COR-MW2d	9/26/2019	10:43	6.10	105.59		
COR-MW2d	10/24/2019	14:50	6.60	105.09		
COR-MW2d	11/14/2019	11:21	6.40	105.29		
COR-MW2d	12/13/2019	11:18	4.63	107.06		
COR-MW3s	1/30/2012	16:20	7.25	105.81	<|0.05|	0
COR-MW3s	2/10/2012	9:20	6.55	106.51	<|0.05|	0
COR-MW3s	3/5/2012	10:46	7.22	105.84	<|0.05|	0
COR-MW3s	4/9/2012	11:33	6.77	106.29	<|0.05|	0
COR-MW3s	5/11/2012	14:30	8.63	104.43	<|0.05|	0
COR-MW3s	6/20/2012	11:26	7.10	105.96	<|0.05|	0
COR-MW3s	7/11/2012	15:01	8.09	104.97	<|0.05|	0
COR-MW3s	8/17/2012	8:49	9.34	103.72	0.07	0.01
COR-MW3s	9/18/2012	10:20	7.81	105.25	<|0.05|	0
COR-MW3s	10/19/2012	9:32	9.57	103.49	<|0.05|	0
COR-MW3s	12/7/2012	13:30	8.23	104.83	<|0.05|	0
COR-MW3s	12/31/2012	10:32	7.76	105.30	<|0.05|	0
COR-MW3s	1/15/2013	9:40	7.63	105.43	-0.07	-0.01
COR-MW3s	2/16/2013	16:48	7.16	105.90	<|0.05|	0
COR-MW3s	3/18/2013	10:24	7.21	105.85	<|0.05|	0
COR-MW3s	4/17/2013	13:43	6.41	106.65	<|0.05|	0
COR-MW3s	5/29/2013	9:10	8.51	104.55	<|0.05|	0
COR-MW3s	6/18/2013	12:00	9.40	103.66	<|0.05|	0
COR-MW3s	7/15/2013	14:11	9.80	103.26	<|0.05|	0
COR-MW3s	8/22/2013	9:38	9.95	103.11	<|0.05|	0
COR-MW3s	9/9/2013	10:34	10.03	103.03	<|0.05|	0
COR-MW3s	10/7/2013	13:30	10.00	103.06	<|0.05|	0
COR-MW3s	11/12/2013	13:30	9.72	103.34	<|0.05|	0
COR-MW3s	12/17/2013	12:50	9.62	103.44	<|0.05|	0
COR-MW3s	1/13/2014	11:58	9.43	103.63	0.32	0.02
COR-MW3s	2/18/2014	13:53	9.35	103.71	<|0.05|	0
COR-MW3s	3/17/2014	11:10	9.00	104.06	<|0.05|	0
COR-MW3s	4/19/2014	10:33	8.36	104.70	<|0.05|	0
COR-MW3s	5/22/2014	14:56	10.75	102.31	<|0.05|	0
COR-MW3s	6/20/2014	13:29	11.69	101.37	<|0.05|	0
COR-MW3s	7/16/2014	17:31	12.43	100.63	<|0.05|	0
COR-MW3s	8/28/2014	12:17	12.54	100.52	<|0.05|	0
COR-MW3s	9/19/2014	12:43	12.52	100.54	<|0.05|	0
COR-MW3s	10/14/2014	9:57	11.61	101.45	<|0.05|	0
COR-MW3s	11/11/2014	13:50	11.02	102.04	<|0.05|	0
COR-MW3s	12/15/2014	11:57	8.96	104.10	<|0.05|	0
COR-MW3s	1/13/2015	11:47	7.88	105.18	<|0.05|	0
COR-MW3s	2/10/2015	8:38	8.55	104.51	<|0.05|	0
COR-MW3s	3/13/2015	10:14	8.92	104.14	<|0.05|	0
COR-MW3s	4/17/2015	9:13	9.75	103.31	<|0.05|	0
COR-MW3s	5/12/2015	11:06	10.30	102.76	0.05	0.00
COR-MW3s	6/4/2015	9:58	11.22	101.84	<|0.05|	0
COR-MW3s	7/20/2015	13:18	12.47	100.59	<|0.05|	0
COR-MW3s	8/14/2015	13:16	11.12	101.94	0.06	0.00
COR-MW3s	9/14/2015	15:36	12.33	100.73	<|0.05|	0
COR-MW3s	10/16/2015	15:14	13.77	99.29	<|0.05|	0
COR-MW3s	11/13/2015	12:22	13.21	99.85	<|0.05|	0
COR-MW3s	12/31/2015	10:46	12.60	100.46	<|0.05|	0
COR-MW3s	1/16/2016	15:59	12.55	100.51	<|0.05|	0
COR-MW3s	2/26/2016	8:46	12.09	100.97	<|0.05|	0
COR-MW3s	3/19/2016	9:13	11.44	101.62	<|0.05|	0
COR-MW3s	4/18/2016	13:50	11.07	101.99	<|0.05|	0
COR-MW3s	5/17/2016	9:35	9.28	103.78	<|0.05|	0
COR-MW3s	6/17/2016	11:06	10.41	102.65	<|0.05|	0
COR-MW3s	7/22/2016	9:24	8.83	104.23	<|0.05|	0
COR-MW3s	8/16/2016	16:56	8.57	104.49	<|0.05|	0
COR-MW3s	9/16/2016	13:37	8.89	104.17	<|0.05|	0
COR-MW3s	10/14/2016	14:18	9.42	103.64	<|0.05|	0
COR-MW3s	11/29/2016	9:13	8.34	104.72	<|0.05|	0
COR-MW3s	12/13/2016	15:24	8.09	104.97	<|0.05|	0
COR-MW3s	1/26/2017	11:38	5.66	107.40	<|0.05|	0
COR-MW3s	2/1/2017		N/M			
COR-MW3s	3/14/2017	16:05	5.40	107.66	<|0.05|	0
COR-MW3s	4/21/2017	12:54	6.03	107.03	<|0.05|	0
COR-MW3s	5/17/2017	11:07	6.57	106.49	<|0.05|	0
COR-MW3s	6/23/2017	9:33	7.22	105.84	<|0.05|	0
COR-MW3s	7/14/2017	9:39	7.35	105.71	<|0.05|	0
COR-MW3s	8/23/2017	7:43	6.13	106.93	<|0.05|	0
COR-MW3s	9/23/2017	13:18	6.94	106.12	<|0.05|	0
COR-MW3s	10/20/2017	12:36	7.72	105.34	<|0.05|	0
COR-MW3s	11/16/2017	9:46	7.83	105.23	<|0.05|	0
COR-MW3s	12/31/2017	9:40	7.71	105.35	<|0.05|	0
COR-MW3s	1/22/2018	13:42	6.69	106.37	<|0.05|	0
COR-MW3s	2/27/2018	9:33	7.71	105.35	<|0.05|	0
COR-MW3s	3/1/2018		N/M			
COR-MW3s	4/25/2018	12:01	8.18	104.88	<|0.05|	0
COR-MW3s	5/16/2018	11:08	8.41	104.65	<|0.05|	0
COR-MW3s	6/14/2018	11:51	7.34	105.72	<|0.05|	0
COR-MW3s	7/17/2018	12:31	8.18	104.88	<|0.05|	0
COR-MW3s	8/17/2018	15:55	7.19	105.87	<|0.05|	0
COR-MW3s	9/12/2018	10:49	7.27	105.79	<|0.05|	0
COR-MW3s	10/25/2018	14:19	7.22	105.84	<|0.05|	0
COR-MW3s	11/13/2018	10:03	7.65	105.41	<|0.05|	0
COR-MW3s	12/14/2018	14:08	7.81	105.25	<|0.05|	0
COR-MW3s	1/24/2019	14:42	7.05	106.01	<|0.05|	0
COR-MW3s	3/1/2019	10:20	6.28	106.78	<|0.05|	0
COR-MW3s	3/17/2019	14:10	6.85	106.21	<|0.05|	0
COR-MW3s	4/15/2019	10:32	7.29	105.77	<|0.05|	0
COR-MW3s	5/22/2019	8:00	7.39	105.67	<|0.05|	0
COR-MW3s	6/20/2019	11:08	7.54	105.52	-0.06	-0.00
COR-MW3s	7/17/2019	9:29	6.78	106.28	<|0.05|	0
COR-MW3s	8/21/2019	9:29	6.15	106.91	<|0.05|	0
COR-MW3s	9/26/2019	10:46	7.35	105.71	<|0.05|	0
COR-MW3s	10/24/2019	14:54	7.78	105.28	0.11	0.01
COR-MW3s	11/14/2019	11:18	7.60	105.46	<|0.05|	0
COR-MW3s	12/13/2019	11:22	5.88	107.18	<|0.05|	0
COR-MW3d	1/30/2012	16:20	7.10	105.80		
COR-MW3d	2/10/2012	9:21	6.39	106.51		
COR-MW3d	3/5/2012	10:47	7.06	105.84		
COR-MW3d	4/9/2012	11:34	6.61	106.29		
COR-MW3d	5/11/2012	14:31	8.45	104.45		
COR-MW3d	6/20/2012	11:27	6.94	105.96		
COR-MW3d	7/11/2012	15:00	7.92	104.98		
COR-MW3d	8/17/2012	8:49	9.25	103.65		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
COR-MW3d	9/18/2012	10:20	7.64	105.26		
COR-MW3d	10/19/2012	9:32	9.38	103.52		
COR-MW3d	12/7/2012	13:30	8.03	104.87		
COR-MW3d	12/31/2012	10:33	7.61	105.29		
COR-MW3d	1/15/2013	9:40	7.40	105.50		
COR-MW3d	2/16/2013	16:48	7.00	105.90		
COR-MW3d	3/18/2013	10:24	7.08	105.82		
COR-MW3d	4/17/2013	13:43	6.24	106.66		
COR-MW3d	5/29/2013	9:10	8.38	104.52		
COR-MW3d	6/18/2013	12:01	9.23	103.67		
COR-MW3d	7/15/2013	14:11	9.62	103.28		
COR-MW3d	8/22/2013	9:38	9.79	103.11		
COR-MW3d	9/9/2013	10:34	9.85	103.05		
COR-MW3d	10/7/2013	13:30	9.79	103.11		
COR-MW3d	11/12/2013	13:30	9.58	103.32		
COR-MW3d	12/17/2013	12:50	9.47	103.43		
COR-MW3d	1/13/2014	11:58	9.59	103.31		
COR-MW3d	2/18/2014	13:53	9.18	103.72		
COR-MW3d	3/17/2014	11:10	8.85	104.05		
COR-MW3d	4/19/2014	10:33	8.20	104.70		
COR-MW3d	5/22/2014	14:56	10.57	102.33		
COR-MW3d	6/20/2014	13:29	11.54	101.36		
COR-MW3d	7/16/2014	17:31	12.25	100.65		
COR-MW3d	8/28/2014	12:17	12.40	100.50		
COR-MW3d	9/19/2014	12:43	12.36	100.54		
COR-MW3d	10/14/2014	9:57	11.43	101.47		
COR-MW3d	11/11/2014	13:50	10.85	102.05		
COR-MW3d	12/15/2014	11:57	8.82	104.08		
COR-MW3d	1/13/2015	11:47	7.73	105.17		
COR-MW3d	2/10/2015	8:38	8.37	104.53		
COR-MW3d	3/13/2015	10:14	8.76	104.14		
COR-MW3d	4/17/2015	9:13	9.57	103.33		
COR-MW3d	5/12/2015	11:06	10.19	102.71		
COR-MW3d	6/4/2015	9:58	11.04	101.86		
COR-MW3d	7/20/2015	13:18	12.35	100.55		
COR-MW3d	8/14/2015	13:17	11.02	101.88		
COR-MW3d	9/14/2015	15:36	12.19	100.71		
COR-MW3d	10/16/2015	15:14	13.63	99.27		
COR-MW3d	11/13/2015	12:22	13.06	99.84		
COR-MW3d	12/31/2015	10:47	12.48	100.42		
COR-MW3d	1/16/2016	16:00	12.40	100.50		
COR-MW3d	2/26/2016	8:45	11.95	100.95		
COR-MW3d	3/19/2016	9:13	11.26	101.64		
COR-MW3d	4/18/2016	13:49	10.91	101.99		
COR-MW3d	5/17/2016	9:36	9.17	103.73		
COR-MW3d	6/17/2016	11:07	10.25	102.65		
COR-MW3d	7/22/2016	9:24	8.69	104.21		
COR-MW3d	8/16/2016	16:57	8.42	104.48		
COR-MW3d	9/16/2016	13:36	8.74	104.16		
COR-MW3d	10/14/2016	14:19	9.26	103.64		
COR-MW3d	11/29/2016	9:13	8.20	104.70		
COR-MW3d	12/13/2016	15:25	7.95	104.95		
COR-MW3d	1/26/2017	11:39	5.48	107.42		
COR-MW3d	2/1/2017		N/M			
COR-MW3d	3/14/2017	16:05	5.23	107.67		
COR-MW3d	4/21/2017	12:55	5.89	107.01		
COR-MW3d	5/17/2017	11:07	6.41	106.49		
COR-MW3d	6/23/2017	9:33	7.03	105.87		
COR-MW3d	7/14/2017	9:39	7.19	105.71		
COR-MW3d	8/23/2017	7:43	5.98	106.92		
COR-MW3d	9/23/2017	13:19	6.80	106.10		
COR-MW3d	10/20/2017	12:37	7.60	105.30		
COR-MW3d	11/16/2017	9:47	7.66	105.24		
COR-MW3d	12/31/2017	9:42	7.56	105.34		
COR-MW3d	1/22/2018	13:43	6.54	106.36		
COR-MW3d	2/27/2018	9:35	7.52	105.38		
COR-MW3d	3/1/2018		N/M			
COR-MW3d	4/25/2018	12:01	8.05	104.85		
COR-MW3d	5/16/2018	11:08	8.25	104.65		
COR-MW3d	6/14/2018	11:52	7.20	105.70		
COR-MW3d	7/17/2018	12:32	8.04	104.86		
COR-MW3d	8/17/2018	15:55	7.03	105.87		
COR-MW3d	9/12/2018	10:49	7.12	105.78		
COR-MW3d	10/25/2018	14:19	7.08	105.82		
COR-MW3d	11/13/2018	10:05	7.45	105.45		
COR-MW3d	12/14/2018	14:09	7.66	105.24		
COR-MW3d	1/24/2019	14:43	6.88	106.02		
COR-MW3d	3/1/2019	10:20	6.10	106.80		
COR-MW3d	3/17/2019	14:11	6.71	106.19		
COR-MW3d	4/15/2019	10:32	7.09	105.81		
COR-MW3d	5/22/2019	8:00	7.24	105.66		
COR-MW3d	6/20/2019	11:08	7.32	105.58		
COR-MW3d	7/17/2019	9:29	6.62	106.28		
COR-MW3d	8/21/2019	9:29	6.02	106.88		
COR-MW3d	9/26/2019	10:46	7.22	105.68		
COR-MW3d	10/24/2019	14:54	7.73	105.17		
COR-MW3d	11/14/2019	11:18	7.44	105.46		
COR-MW3d	12/13/2019	11:22	5.73	107.17		
COR-MW4s	1/30/2012	16:30	6.19	105.37	<|0.05|	0
COR-MW4s	2/10/2012	10:02	5.61	105.95	<|0.05|	0
COR-MW4s	3/5/2012	10:50	6.14	105.42	<|0.05|	0
COR-MW4s	4/9/2012	11:13	5.73	105.83	0.14	0.01
COR-MW4s	5/11/2012	15:40	7.65	103.91	<|0.05|	0
COR-MW4s	6/20/2012	11:10	6.63	104.93	0.22	0.02
COR-MW4s	7/11/2012	15:14	7.22	104.34	0.21	0.02
COR-MW4s	8/17/2012	8:36	8.54	103.02	<|0.05|	0
COR-MW4s	9/18/2012	10:31	7.30	104.26	<|0.05|	0
COR-MW4s	10/19/2012	9:41	8.75	102.81	<|0.05|	0
COR-MW4s	12/7/2012	13:28	7.24	104.32	<|0.05|	0
COR-MW4s	12/31/2012	10:40	6.74	104.82	<|0.05|	0
COR-MW4s	1/15/2013	9:50	6.54	105.02	<|0.05|	0
COR-MW4s	2/16/2013	16:56	6.17	105.39	<|0.05|	0
COR-MW4s	3/18/2013	10:20	6.24	105.32	<|0.05|	0
COR-MW4s	4/17/2013	13:35	5.67	105.89	<|0.05|	0
COR-MW4s	5/29/2013	8:41	7.46	104.10	<|0.05|	0
COR-MW4s	6/18/2013	12:10	8.53	103.03	<|0.05|	0
COR-MW4s	7/15/2013	13:55	9.06	102.50	<|0.05|	0
COR-MW4s	8/22/2013	9:29	9.12	102.44	<|0.05|	0
COR-MW4s	9/9/2013	10:20	9.05	102.51	<|0.05|	0
COR-MW4s	10/7/2013	13:11	8.96	102.60	<|0.05|	0
COR-MW4s	11/12/2013	13:44	8.76	102.80	<|0.05|	0
COR-MW4s	12/17/2013	12:36	8.57	102.99	<|0.05|	0
COR-MW4s	1/13/2014	11:40	8.51	103.05	<|0.05|	0
COR-MW4s	2/18/2014	14:18	8.28	103.28	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
COR-MW4s	3/17/2014	11:16	8.03	103.53	<|0.05|	0
COR-MW4s	4/19/2014	10:47	7.42	104.14	<|0.05|	0
COR-MW4s	5/22/2014	15:11	9.68	101.88	<|0.05|	0
COR-MW4s	6/20/2014	13:39	10.72	100.84	<|0.05|	0
COR-MW4s	7/16/2014	17:38	11.46	100.10	<|0.05|	0
COR-MW4s	8/28/2014	12:23	11.65	99.91	<|0.05|	0
COR-MW4s	9/19/2014	12:53	11.68	99.88	<|0.05|	0
COR-MW4s	10/14/2014	9:37	10.78	100.78	<|0.05|	0
COR-MW4s	11/11/2014	13:36	10.18	101.38	<|0.05|	0
COR-MW4s	12/15/2014	12:25	7.79	103.77	<|0.05|	0
COR-MW4s	1/13/2015	11:53	7.02	104.54	<|0.05|	0
COR-MW4s	2/10/2015	8:25	7.52	104.04	<|0.05|	0
COR-MW4s	3/13/2015	10:00	7.85	103.71	<|0.05|	0
COR-MW4s	4/17/2015	9:00	7.73	103.83	<|0.05|	0
COR-MW4s	5/12/2015	11:17	9.47	102.09	<|0.05|	0
COR-MW4s	6/4/2015	9:41	10.05	101.51	<|0.05|	0
COR-MW4s	7/20/2015	12:58	11.29	100.27	<|0.05|	0
COR-MW4s	8/14/2015	13:23	10.75	100.81	<|0.05|	0
COR-MW4s	9/14/2015	15:20	11.41	100.15	<|0.05|	0
COR-MW4s	10/16/2015	14:59	12.74	98.82	<|0.05|	0
COR-MW4s	11/13/2015	12:30	12.22	99.34	0.08	0.01
COR-MW4s	12/31/2015	10:54	11.50	100.06	<|0.05|	0
COR-MW4s	1/16/2016	15:46	11.43	100.13	<|0.05|	0
COR-MW4s	2/26/2016	8:35	10.93	100.63	<|0.05|	0
COR-MW4s	3/19/2016	9:19	10.34	101.22	<|0.05|	0
COR-MW4s	4/18/2016	14:02	10.11	101.45	<|0.05|	0
COR-MW4s	5/17/2016	9:46	8.66	102.90	<|0.05|	0
COR-MW4s	6/17/2016	10:55	9.60	101.96	<|0.05|	0
COR-MW4s	7/22/2016	9:32	8.56	103.00	<|0.05|	0
COR-MW4s	8/16/2016	17:09	7.95	103.61	<|0.05|	0
COR-MW4s	9/16/2016	13:49	8.00	103.56	<|0.05|	0
COR-MW4s	10/14/2016	14:32	8.54	103.02	-0.06	-0.00
COR-MW4s	11/29/2016	9:34	7.49	104.07	<|0.05|	0
COR-MW4s	12/13/2016	15:35	7.11	104.45	<|0.05|	0
COR-MW4s	1/26/2017	11:52	4.64	106.92	<|0.05|	0
COR-MW4s	2/1/2017		N/M			
COR-MW4s	3/14/2017	16:14	4.55	107.01	<|0.05|	0
COR-MW4s	4/21/2017	13:06	5.15	106.41	<|0.05|	0
COR-MW4s	5/17/2017	11:14	5.85	105.71	<|0.05|	0
COR-MW4s	6/23/2017	9:18	6.47	105.09	<|0.05|	0
COR-MW4s	7/14/2017	9:26	6.92	104.64	<|0.05|	0
COR-MW4s	8/23/2017	7:57	5.95	105.61	<|0.05|	0
COR-MW4s	9/23/2017	13:31	6.12	105.44	<|0.05|	0
COR-MW4s	10/20/2017	12:50	6.90	104.66	<|0.05|	0
COR-MW4s	11/16/2017	9:53	6.94	104.62	<|0.05|	0
COR-MW4s	12/31/2017	9:53	6.71	104.85	<|0.05|	0
COR-MW4s	1/22/2018	13:54	5.78	105.78	<|0.05|	0
COR-MW4s	2/27/2018	9:15	6.68	104.88	<|0.05|	0
COR-MW4s	3/1/2018		N/M			
COR-MW4s	4/25/2018	12:16	7.25	104.31	<|0.05|	0
COR-MW4s	5/16/2018	11:04	7.49	104.07	<|0.05|	0
COR-MW4s	6/14/2018	12:06	6.67	104.89	<|0.05|	0
COR-MW4s	7/17/2018	12:44	7.56	104.00	<|0.05|	0
COR-MW4s	8/17/2018	16:08	6.52	105.04	<|0.05|	0
COR-MW4s	9/12/2018	10:33	6.42	105.14	<|0.05|	0
COR-MW4s	10/25/2018	14:05	6.53	105.03	<|0.05|	0
COR-MW4s	11/13/2018	9:52	6.69	104.87	<|0.05|	0
COR-MW4s	12/14/2018	14:18	6.80	104.76	<|0.05|	0
COR-MW4s	1/24/2019	15:00	5.95	105.61	<|0.05|	0
COR-MW4s	3/1/2019	10:26	5.29	106.27	<|0.05|	0
COR-MW4s	3/17/2019	14:25	5.85	105.71	<|0.05|	0
COR-MW4s	4/15/2019	10:18	6.31	105.25	<|0.05|	0
COR-MW4s	5/22/2019	8:22	6.52	105.04	<|0.05|	0
COR-MW4s	6/20/2019	10:48	6.75	104.81	<|0.05|	0
COR-MW4s	7/17/2019	9:14	6.25	105.31	<|0.05|	0
COR-MW4s	8/21/2019	9:46	5.40	106.16	0.15	0.01
COR-MW4s	9/26/2019	10:33	6.62	104.94	<|0.05|	0
COR-MW4s	10/24/2019	14:39	7.00	104.56	<|0.05|	0
COR-MW4s	11/14/2019	11:30	6.75	104.81	<|0.05|	0
COR-MW4s	12/13/2019	10:59	4.93	106.63	<|0.05|	0
COR-MW4d	1/30/2012	16:30	6.07	105.36		
COR-MW4d	2/10/2012	10:03	5.49	105.94		
COR-MW4d	3/5/2012	10:51	6.01	105.42		
COR-MW4d	4/9/2012	11:14	5.74	105.69		
COR-MW4d	5/11/2012	15:41	7.55	103.88		
COR-MW4d	6/20/2012	11:10	6.72	104.71		
COR-MW4d	7/11/2012	15:14	7.30	104.13		
COR-MW4d	8/17/2012	8:36	8.43	103.00		
COR-MW4d	9/18/2012	10:31	7.20	104.23		
COR-MW4d	10/19/2012	9:41	8.65	102.78		
COR-MW4d	12/7/2012	13:28	7.13	104.30		
COR-MW4d	12/31/2012	10:41	6.61	104.82		
COR-MW4d	1/15/2013	9:50	6.40	105.03		
COR-MW4d	2/16/2013	16:56	6.03	105.40		
COR-MW4d	3/18/2013	10:20	6.14	105.29		
COR-MW4d	4/17/2013	13:35	5.51	105.92		
COR-MW4d	5/29/2013	8:41	7.35	104.08		
COR-MW4d	6/18/2013	12:11	8.41	103.02		
COR-MW4d	7/15/2013	13:55	8.95	102.48		
COR-MW4d	8/22/2013	9:29	8.98	102.45		
COR-MW4d	9/9/2013	10:20	8.93	102.50		
COR-MW4d	10/7/2013	13:11	8.84	102.59		
COR-MW4d	11/12/2013	13:44	8.64	102.79		
COR-MW4d	12/17/2013	12:36	8.47	102.96		
COR-MW4d	1/13/2014	11:40	8.38	103.05		
COR-MW4d	2/18/2014	14:18	8.15	103.28		
COR-MW4d	3/17/2014	11:16	7.90	103.53		
COR-MW4d	4/19/2014	10:47	7.28	104.15		
COR-MW4d	5/22/2014	15:11	9.55	101.88		
COR-MW4d	6/20/2014	13:39	10.60	100.83		
COR-MW4d	7/16/2014	17:38	11.33	100.10		
COR-MW4d	8/28/2014	12:23	11.52	99.91		
COR-MW4d	9/19/2014	12:53	11.53	99.90		
COR-MW4d	10/14/2014	9:37	10.63	100.80		
COR-MW4d	11/11/2014	13:36	10.04	101.39		
COR-MW4d	12/15/2014	12:25	7.63	103.80		
COR-MW4d	1/13/2015	11:53	6.88	104.55		
COR-MW4d	2/10/2015	8:25	7.37	104.06		
COR-MW4d	3/13/2015	10:00	7.74	103.69		
COR-MW4d	4/17/2015	9:00	7.63	103.80		
COR-MW4d	5/12/2015	11:17	9.37	102.06		
COR-MW4d	6/4/2015	9:41	9.95	101.48		
COR-MW4d	7/20/2015	12:58	11.19	100.24		
COR-MW4d	8/14/2015	13:23	10.65	100.78		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
COR-MW4d	9/14/2015	15:20	11.32	100.11		
COR-MW4d	10/16/2015	14:59	12.62	98.81		
COR-MW4d	11/13/2015	12:30	12.17	99.26		
COR-MW4d	12/31/2015	10:55	11.38	100.05		
COR-MW4d	1/16/2016	15:47	11.31	100.12		
COR-MW4d	2/26/2016	8:34	10.82	100.61		
COR-MW4d	3/19/2016	9:19	10.21	101.22		
COR-MW4d	4/18/2016	14:03	9.99	101.44		
COR-MW4d	5/17/2016	9:47	8.53	102.90		
COR-MW4d	6/17/2016	10:56	9.48	101.95		
COR-MW4d	7/22/2016	9:32	8.43	103.00		
COR-MW4d	8/16/2016	17:10	7.84	103.59		
COR-MW4d	9/16/2016	13:48	7.87	103.56		
COR-MW4d	10/14/2016	14:33	8.35	103.08		
COR-MW4d	11/29/2016	9:34	7.35	104.08		
COR-MW4d	12/13/2016	15:36	7.00	104.43		
COR-MW4d	1/26/2017	11:53	4.53	106.90		
COR-MW4d	2/1/2017		N/M			
COR-MW4d	3/14/2017	16:14	4.44	106.99		
COR-MW4d	4/21/2017	13:07	5.02	106.41		
COR-MW4d	5/17/2017	11:14	5.74	105.69		
COR-MW4d	6/23/2017	9:18	6.35	105.08		
COR-MW4d	7/14/2017	9:26	6.78	104.65		
COR-MW4d	8/23/2017	7:57	5.83	105.60		
COR-MW4d	9/23/2017	13:32	6.00	105.43		
COR-MW4d	10/20/2017	12:51	6.80	104.63		
COR-MW4d	11/16/2017	9:54	6.81	104.62		
COR-MW4d	12/31/2017	9:54	6.58	104.85		
COR-MW4d	1/22/2018	13:55	5.67	105.76		
COR-MW4d	2/27/2018	9:16	6.53	104.90		
COR-MW4d	3/1/2018		N/M			
COR-MW4d	4/25/2018	12:17	7.11	104.32		
COR-MW4d	5/16/2018	11:04	7.38	104.05		
COR-MW4d	6/14/2018	12:06	6.55	104.88		
COR-MW4d	7/17/2018	12:45	7.43	104.00		
COR-MW4d	8/17/2018	16:08	6.40	105.03		
COR-MW4d	9/12/2018	10:33	6.29	105.14		
COR-MW4d	10/25/2018	14:05	6.42	105.01		
COR-MW4d	11/13/2018	9:53	6.53	104.90		
COR-MW4d	12/14/2018	14:19	6.67	104.76		
COR-MW4d	1/24/2019	15:01	5.82	105.61		
COR-MW4d	3/1/2019	10:26	5.16	106.27		
COR-MW4d	3/17/2019	14:26	5.75	105.68		
COR-MW4d	4/15/2019	10:18	6.21	105.22		
COR-MW4d	5/22/2019	8:22	6.39	105.04		
COR-MW4d	6/20/2019	10:48	6.62	104.81		
COR-MW4d	7/17/2019	9:14	6.13	105.30		
COR-MW4d	8/21/2019	9:46	5.42	106.01		
COR-MW4d	9/26/2019	10:33	6.48	104.95		
COR-MW4d	10/24/2019	14:39	6.90	104.53		
COR-MW4d	11/14/2019	11:30	6.62	104.81		
COR-MW4d	12/13/2019	10:59	4.79	106.64		
COR-MW5s	1/30/2012	16:40	6.49	105.34	<|0.05|	0
COR-MW5s	2/10/2012	9:40	6.08	105.75	<|0.05|	0
COR-MW5s	3/5/2012	10:55	6.47	105.36	0.20	0.02
COR-MW5s	4/9/2012	11:09	6.08	105.75	<|0.05|	0
COR-MW5s	5/11/2012	15:22	7.84	103.99	<|0.05|	0
COR-MW5s	6/20/2012	11:07	6.63	105.20	<|0.05|	0
COR-MW5s	7/11/2012	15:19	7.19	104.64	<|0.05|	0
COR-MW5s	8/17/2012	8:30	8.67	103.16	<|0.05|	0
COR-MW5s	9/18/2012	10:35	7.34	104.49	<|0.05|	0
COR-MW5s	10/19/2012	9:43	8.83	103.00	<|0.05|	0
COR-MW5s	12/7/2012	13:25	7.45	104.38	<|0.05|	0
COR-MW5s	12/31/2012	10:43	6.94	104.89	<|0.05|	0
COR-MW5s	1/15/2013	9:54	6.76	105.07	<|0.05|	0
COR-MW5s	2/16/2013	16:59	6.42	105.41	<|0.05|	0
COR-MW5s	3/18/2013	10:16	6.53	105.30	<|0.05|	0
COR-MW5s	4/17/2013	13:32	5.93	105.90	<|0.05|	0
COR-MW5s	5/29/2013	8:35	7.72	104.11	<|0.05|	0
COR-MW5s	6/18/2013	12:13	8.74	103.09	<|0.05|	0
COR-MW5s	7/15/2013	13:51	9.22	102.61	<|0.05|	0
COR-MW5s	8/22/2013	9:26	9.42	102.41	<|0.05|	0
COR-MW5s	9/9/2013	10:17	9.37	102.46	<|0.05|	0
COR-MW5s	10/7/2013	13:08	9.26	102.57	<|0.05|	0
COR-MW5s	11/12/2013	13:49	9.05	102.78	<|0.05|	0
COR-MW5s	12/17/2013	12:34	8.83	103.00	<|0.05|	0
COR-MW5s	1/13/2014	11:38	8.80	103.03	<|0.05|	0
COR-MW5s	2/18/2014	14:22	8.55	103.28	<|0.05|	0
COR-MW5s	3/17/2014	11:19	8.25	103.58	<|0.05|	0
COR-MW5s	4/19/2014	10:50	7.69	104.14	<|0.05|	0
COR-MW5s	5/22/2014	15:15	9.92	101.91	<|0.05|	0
COR-MW5s	6/20/2014	13:36	10.93	100.90	<|0.05|	0
COR-MW5s	7/16/2014	17:40	11.70	100.13	<|0.05|	0
COR-MW5s	8/28/2014	12:26	11.89	99.94	<|0.05|	0
COR-MW5s	9/19/2014	12:50	11.88	99.95	<|0.05|	0
COR-MW5s	10/14/2014	9:33	11.02	100.81	<|0.05|	0
COR-MW5s	11/11/2014	13:33	10.38	101.45	<|0.05|	0
COR-MW5s	12/15/2014	12:27	8.12	103.71	<|0.05|	0
COR-MW5s	1/13/2015	11:55	7.26	104.57	<|0.05|	0
COR-MW5s	2/10/2015	8:23	7.72	104.11	<|0.05|	0
COR-MW5s	3/13/2015	9:58	8.12	103.71	-0.06	-0.00
COR-MW5s	4/17/2015	8:57	8.11	103.72	-0.06	-0.00
COR-MW5s	5/12/2015	11:22	9.57	102.26	<|0.05|	0
COR-MW5s	6/4/2015	9:39	10.28	101.55	<|0.05|	0
COR-MW5s	7/20/2015	12:55	11.41	100.42	<|0.05|	0
COR-MW5s	8/14/2015	13:26	10.33	101.50	<|0.05|	0
COR-MW5s	9/14/2015	15:16	11.32	100.51	<|0.05|	0
COR-MW5s	10/16/2015	14:57	12.81	99.02	<|0.05|	0
COR-MW5s	11/13/2015	12:17	12.32	99.51	<|0.05|	0
COR-MW5s	12/31/2015	10:58	11.67	100.16	<|0.05|	0
COR-MW5s	1/16/2016	15:43	11.61	100.22	<|0.05|	0
COR-MW5s	2/26/2016	8:37	11.12	100.71	<|0.05|	0
COR-MW5s	3/19/2016	9:22	10.52	101.31	-0.06	-0.00
COR-MW5s	4/18/2016	14:04	10.27	101.56	<|0.05|	0
COR-MW5s	5/17/2016	9:52	8.68	103.15	<|0.05|	0
COR-MW5s	6/17/2016	10:52	9.69	102.14	<|0.05|	0
COR-MW5s	7/22/2016	9:35	8.54	103.29	<|0.05|	0
COR-MW5s	8/16/2016	17:12	7.99	103.84	<|0.05|	0
COR-MW5s	9/16/2016	13:51	8.26	103.57	<|0.05|	0
COR-MW5s	10/14/2016	14:34	8.77	103.06	<|0.05|	0
COR-MW5s	11/29/2016	9:39	7.70	104.13	<|0.05|	0
COR-MW5s	12/13/2016	15:37	7.42	104.41	<|0.05|	0
COR-MW5s	1/26/2017	11:56	4.86	106.97	<|0.05|	0
COR-MW5s	2/1/2017		N/M			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
COR-MW5s	3/14/2017	16:17	4.87	106.96	<|0.05|	0
COR-MW5s	4/21/2017	13:08	5.44	106.39	<|0.05|	0
COR-MW5s	5/17/2017	11:16	6.00	105.83	<|0.05|	0
COR-MW5s	6/23/2017	9:14	6.68	105.15	<|0.05|	0
COR-MW5s	7/14/2017	9:24	6.99	104.84	<|0.05|	0
COR-MW5s	8/23/2017	8:00	5.89	105.94	<|0.05|	0
COR-MW5s	9/23/2017	13:34	6.43	105.40	<|0.05|	0
COR-MW5s	10/20/2017	12:52	7.11	104.72	<|0.05|	0
COR-MW5s	11/16/2017	9:55	7.18	104.65	<|0.05|	0
COR-MW5s	12/31/2017	9:55	6.98	104.85	<|0.05|	0
COR-MW5s	1/22/2018	13:57	5.96	105.87	<|0.05|	0
COR-MW5s	2/27/2018	9:20	6.90	104.93	-0.06	-0.00
COR-MW5s	3/1/2018		N/M			
COR-MW5s	4/25/2018	12:20	7.47	104.36	<|0.05|	0
COR-MW5s	5/16/2018	11:02	7.71	104.12	<|0.05|	0
COR-MW5s	6/14/2018	12:09	6.80	105.03	<|0.05|	0
COR-MW5s	7/17/2018	12:48	7.57	104.26	<|0.05|	0
COR-MW5s	8/17/2018	16:10	6.69	105.14	<|0.05|	0
COR-MW5s	9/12/2018	10:31	6.68	105.15	<|0.05|	0
COR-MW5s	10/25/2018	14:03	6.56	105.27	<|0.05|	0
COR-MW5s	11/13/2018	9:55	7.00	104.83	<|0.05|	0
COR-MW5s	12/14/2018	14:20	7.06	104.77	<|0.05|	0
COR-MW5s	1/24/2019	15:02	6.24	105.59	<|0.05|	0
COR-MW5s	3/1/2019	10:29	5.53	106.30	<|0.05|	0
COR-MW5s	3/17/2019	14:27	6.14	105.69	<|0.05|	0
COR-MW5s	4/15/2019	10:15	6.52	105.31	0.07	0.01
COR-MW5s	5/22/2019	8:27	6.83	105.00	<|0.05|	0
COR-MW5s	6/20/2019	10:43	6.92	104.91	<|0.05|	0
COR-MW5s	7/17/2019	9:11	6.28	105.55	<|0.05|	0
COR-MW5s	8/21/2019	9:49	5.63	106.20	<|0.05|	0
COR-MW5s	9/26/2019	10:30	6.88	104.95	<|0.05|	0
COR-MW5s	10/24/2019	14:36	7.32	104.51	<|0.05|	0
COR-MW5s	11/14/2019	11:33	7.00	104.83	<|0.05|	0
COR-MW5s	12/13/2019	10:56	5.18	106.65	<|0.05|	0
COR-MW5d	1/30/2012	16:40	6.34	105.35		
COR-MW5d	2/10/2012	9:41	5.92	105.77		
COR-MW5d	3/5/2012	10:57	6.53	105.16		
COR-MW5d	4/9/2012	11:10	5.92	105.77		
COR-MW5d	5/11/2012	15:22	7.70	103.99		
COR-MW5d	6/20/2012	11:08	6.48	105.21		
COR-MW5d	7/11/2012	15:19	7.03	104.66		
COR-MW5d	8/17/2012	8:30	8.53	103.16		
COR-MW5d	9/18/2012	10:35	7.20	104.49		
COR-MW5d	10/19/2012	9:43	8.69	103.00		
COR-MW5d	12/7/2012	13:25	7.30	104.39		
COR-MW5d	12/31/2012	10:44	6.81	104.88		
COR-MW5d	1/15/2013	9:54	6.59	105.10		
COR-MW5d	2/16/2013	16:59	6.28	105.41		
COR-MW5d	3/18/2013	10:16	6.38	105.31		
COR-MW5d	4/17/2013	13:32	5.76	105.93		
COR-MW5d	5/29/2013	8:35	7.55	104.14		
COR-MW5d	6/18/2013	12:14	8.60	103.09		
COR-MW5d	7/15/2013	13:51	9.08	102.61		
COR-MW5d	8/22/2013	9:26	9.26	102.43		
COR-MW5d	9/9/2013	10:17	9.23	102.46		
COR-MW5d	10/7/2013	13:08	9.08	102.61		
COR-MW5d	11/12/2013	13:49	8.90	102.79		
COR-MW5d	12/17/2013	12:34	8.72	102.97		
COR-MW5d	1/13/2014	11:38	8.63	103.06		
COR-MW5d	2/18/2014	14:22	8.40	103.29		
COR-MW5d	3/17/2014	11:19	8.11	103.58		
COR-MW5d	4/19/2014	10:50	7.54	104.15		
COR-MW5d	5/22/2014	15:15	9.75	101.94		
COR-MW5d	6/20/2014	13:36	10.80	100.89		
COR-MW5d	7/16/2014	17:40	11.54	100.15		
COR-MW5d	8/28/2014	12:26	11.75	99.94		
COR-MW5d	9/19/2014	12:50	11.72	99.97		
COR-MW5d	10/14/2014	9:33	10.88	100.81		
COR-MW5d	11/11/2014	13:33	10.25	101.44		
COR-MW5d	12/15/2014	12:27	7.95	103.74		
COR-MW5d	1/13/2015	11:55	7.11	104.58		
COR-MW5d	2/10/2015	8:23	7.60	104.09		
COR-MW5d	3/13/2015	9:58	7.92	103.77		
COR-MW5d	4/17/2015	8:57	7.91	103.78		
COR-MW5d	5/12/2015	11:22	9.43	102.26		
COR-MW5d	6/4/2015	9:39	10.15	101.54		
COR-MW5d	7/20/2015	12:55	11.28	100.41		
COR-MW5d	8/14/2015	13:26	10.20	101.49		
COR-MW5d	9/14/2015	15:16	11.18	100.51		
COR-MW5d	10/16/2015	14:57	12.68	99.01		
COR-MW5d	11/13/2015	12:17	12.16	99.53		
COR-MW5d	12/31/2015	10:59	11.57	100.12		
COR-MW5d	1/16/2016	15:44	11.49	100.20		
COR-MW5d	2/26/2016	8:36	10.98	100.71		
COR-MW5d	3/19/2016	9:22	10.32	101.37		
COR-MW5d	4/18/2016	14:05	10.13	101.56		
COR-MW5d	5/17/2016	9:53	8.54	103.15		
COR-MW5d	6/17/2016	10:53	9.55	102.14		
COR-MW5d	7/22/2016	9:35	8.40	103.29		
COR-MW5d	8/16/2016	17:14	7.85	103.84		
COR-MW5d	9/16/2016	13:50	8.12	103.57		
COR-MW5d	10/14/2016	14:35	8.65	103.04		
COR-MW5d	11/29/2016	9:39	7.58	104.11		
COR-MW5d	12/13/2016	15:38	7.23	104.46		
COR-MW5d	1/26/2017	11:57	4.70	106.99		
COR-MW5d	2/1/2017		N/M			
COR-MW5d	3/14/2017	16:17	4.72	106.97		
COR-MW5d	4/21/2017	13:09	5.28	106.41		
COR-MW5d	5/17/2017	11:16	5.88	105.81		
COR-MW5d	6/23/2017	9:14	6.52	105.17		
COR-MW5d	7/14/2017	9:24	6.87	104.82		
COR-MW5d	8/23/2017	8:00	5.75	105.94		
COR-MW5d	9/23/2017	13:35	6.30	105.39		
COR-MW5d	10/20/2017	12:53	6.96	104.73		
COR-MW5d	11/16/2017	9:56	7.02	104.67		
COR-MW5d	12/31/2017	9:57	6.83	104.86		
COR-MW5d	1/22/2018	13:58	5.85	105.84		
COR-MW5d	2/27/2018	9:21	6.70	104.99		
COR-MW5d	3/1/2018		N/M			
COR-MW5d	4/25/2018	12:20	7.32	104.37		
COR-MW5d	5/16/2018	11:02	7.60	104.09		
COR-MW5d	6/14/2018	12:09	6.63	105.06		
COR-MW5d	7/17/2018	12:49	7.47	104.22		
COR-MW5d	8/17/2018	16:10	6.55	105.14		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
COR-MW5d	9/12/2018	10:31	6.53	105.16		
COR-MW5d	10/25/2018	14:03	6.41	105.28		
COR-MW5d	11/13/2018	9:56	6.85	104.84		
COR-MW5d	12/14/2018	14:21	6.92	104.77		
COR-MW5d	1/24/2019	15:03	6.08	105.61		
COR-MW5d	3/1/2019	10:29	5.40	106.29		
COR-MW5d	3/17/2019	14:28	5.98	105.71		
COR-MW5d	4/15/2019	10:15	6.45	105.24		
COR-MW5d	5/22/2019	8:27	6.70	104.99		
COR-MW5d	6/20/2019	10:43	6.80	104.89		
COR-MW5d	7/17/2019	9:11	6.13	105.56		
COR-MW5d	8/21/2019	9:49	5.53	106.16		
COR-MW5d	9/26/2019	10:30	6.73	104.96		
COR-MW5d	10/24/2019	14:36	7.15	104.54		
COR-MW5d	11/14/2019	11:33	6.88	104.81		
COR-MW5d	12/13/2019	10:56	5.02	106.67		
FG2-MW1s	1/30/2012	9:34	5.59	75.92	-0.11	-0.01
FG2-MW1s	2/10/2012	15:21	5.71	75.80	-0.10	-0.01
FG2-MW1s	3/5/2012	10:57	6.11	75.40	-0.07	-0.00
FG2-MW1s	4/9/2012	10:41	6.92	74.59	-0.15	-0.01
FG2-MW1s	5/10/2012	13:52	4.42	77.09	0.17	0.01
FG2-MW1s	6/20/2012	9:42	4.39	77.12	<|0.05|	0
FG2-MW1s	7/9/2012	12:11	4.61	76.90	0.08	0.01
FG2-MW1s	8/15/2012	13:36	4.40	77.11	0.17	0.01
FG2-MW1s	9/20/2012	11:57	5.00	76.51	0.11	0.01
FG2-MW1s	10/19/2012	12:51	5.32	76.19	<|0.05|	0
FG2-MW1s	12/6/2012	10:31	5.24	76.27	<|0.05|	0
FG2-MW1s	12/31/2012	9:15	5.24	76.27	<|0.05|	0
FG2-MW1s	1/15/2013	12:44	4.95	76.56	<|0.05|	0
FG2-MW1s	2/18/2013	16:26	4.45	77.06	0.13	0.01
FG2-MW1s	3/22/2013	15:49	4.64	76.87	-0.06	-0.00
FG2-MW1s	4/17/2013	15:25	5.98	75.53	-0.15	-0.01
FG2-MW1s	5/31/2013	12:00	5.43	76.08	0.18	0.01
FG2-MW1s	6/18/2013	10:42	5.27	76.24	0.12	0.01
FG2-MW1s	7/15/2013	15:54	4.67	76.84	0.16	0.01
FG2-MW1s	8/22/2013	16:15	4.52	76.99	0.22	0.01
FG2-MW1s	9/9/2013	11:51	4.60	76.91	0.19	0.01
FG2-MW1s	10/7/2013	14:56	5.12	76.39	0.07	0.00
FG2-MW1s	11/13/2013	13:12	6.12	75.39	<|0.05|	0
FG2-MW1s	12/17/2013	15:22	5.75	75.76	<|0.05|	0
FG2-MW1s	1/14/2014	15:19	6.25	75.26	-0.07	-0.00
FG2-MW1s	2/19/2014	14:00	6.32	75.19	<|0.05|	0
FG2-MW1s	3/17/2014	13:21	5.44	76.07	<|0.05|	0
FG2-MW1s	4/19/2014	11:54	4.90	76.61	0.14	0.01
FG2-MW1s	5/23/2014	13:50	6.46	75.05	<|0.05|	0
FG2-MW1s	6/20/2014	15:06	5.40	76.11	0.19	0.01
FG2-MW1s	7/17/2014	11:44	4.92	76.59	0.32	0.02
FG2-MW1s	8/27/2014	12:28	5.66	75.85	0.29	0.02
FG2-MW1s	9/19/2014	11:19	6.32	75.19	0.22	0.01
FG2-MW1s	10/14/2014	11:12	8.38	73.13	-0.81	-0.05
FG2-MW1s	11/3/2014	13:46	11.03	70.48	-0.72	-0.05
FG2-MW1s	12/15/2014	14:58	6.03	75.48	-0.11	-0.01
FG2-MW1s	1/13/2015	13:45	10.55	70.96	0.14	0.01
FG2-MW1s	2/10/2015	15:51	11.03	70.48	-0.84	-0.05
FG2-MW1s	3/13/2015	11:43	10.72	70.79	-0.75	-0.05
FG2-MW1s	4/17/2015	10:24	11.82	69.69	-0.43	-0.03
FG2-MW1s	5/12/2015	13:41	11.77	69.74	-0.71	-0.05
FG2-MW1s	6/4/2015	11:48	12.09	69.42	-0.30	-0.02
FG2-MW1s	7/20/2015	15:12	11.38	70.13	0.41	0.03
FG2-MW1s	8/17/2015	15:41	12.12	69.39	-0.32	-0.02
FG2-MW1s	9/14/2015	13:37	12.41	69.10	-0.21	-0.01
FG2-MW1s	10/16/2015	13:29	12.48	69.03	-0.33	-0.02
FG2-MW1s	11/13/2015	15:31	11.94	69.57	-0.46	-0.03
FG2-MW1s	12/31/2015	14:54	12.45	69.06	-0.39	-0.03
FG2-MW1s	1/16/2016	14:19	11.23	70.28	-0.92	-0.06
FG2-MW1s	2/25/2016	12:40	10.87	70.64	-0.89	-0.06
FG2-MW1s	3/19/2016	7:46	10.52	70.99	-0.58	-0.04
FG2-MW1s	4/18/2016	12:24	10.94	70.57	-0.85	-0.05
FG2-MW1s	5/17/2016	16:05	11.62	69.89	-0.50	-0.03
FG2-MW1s	6/17/2016	12:32	11.71	69.80	-0.71	-0.05
FG2-MW1s	7/22/2016	7:51	10.84	70.67	-0.80	-0.05
FG2-MW1s	8/15/2016	10:47	10.97	70.54	-0.91	-0.06
FG2-MW1s	9/16/2016	12:16	10.72	70.79	-0.83	-0.05
FG2-MW1s	10/14/2016	12:56	10.60	70.91	-0.94	-0.06
FG2-MW1s	11/22/2016	10:05	10.55	70.96	-0.94	-0.06
FG2-MW1s	12/13/2016	16:51	10.96	70.55	-0.88	-0.06
FG2-MW1s	1/26/2017	10:14	10.08	71.43	-1.01	-0.07
FG2-MW1s	2/1/2017		N/M			
FG2-MW1s	3/14/2017	9:34	10.42	71.09	-0.90	-0.06
FG2-MW1s	4/21/2017	14:25	10.61	70.90	-0.92	-0.06
FG2-MW1s	5/18/2017	15:38	10.87	70.64	-0.73	-0.05
FG2-MW1s	6/23/2017	11:00	10.23	71.28	0.06	0.00
FG2-MW1s	7/14/2017	11:18	11.48	70.03	-0.56	-0.04
FG2-MW1s	8/23/2017	14:48	11.03	70.48	-0.98	-0.06
FG2-MW1s	9/23/2017	14:54	8.92	72.59	-0.41	-0.03
FG2-MW1s	10/20/2017	11:25	10.48	71.03	-0.84	-0.05
FG2-MW1s	11/20/2017	15:12	10.69	70.82	-0.82	-0.05
FG2-MW1s	12/31/2017	8:45	11.15	70.36	-1.13	-0.07
FG2-MW1s	1/22/2018	15:34	10.55	70.96	-0.86	-0.06
FG2-MW1s	2/23/2018	13:47	10.55	70.96	-0.85	-0.05
FG2-MW1s	3/1/2018		N/M			
FG2-MW1s	4/25/2018	10:40	10.29	71.22	-0.82	-0.05
FG2-MW1s	5/16/2018	9:05	10.50	71.01	-0.84	-0.05
FG2-MW1s	6/14/2018	14:22	11.25	70.26	-0.37	-0.02
FG2-MW1s	7/17/2018	11:20	11.44	70.07	-0.37	-0.02
FG2-MW1s	8/17/2018	13:59	11.04	70.47	-0.53	-0.03
FG2-MW1s	9/12/2018	12:04	11.11	70.40	-0.51	-0.03
FG2-MW1s	10/25/2018	15:34	11.85	69.66	-0.34	-0.02
FG2-MW1s	11/14/2018	13:09	10.96	70.55	-0.42	-0.03
FG2-MW1s	12/14/2018	15:27	11.14	70.37	-0.47	-0.03
FG2-MW1s	1/24/2019	16:30	10.06	71.45	-0.87	-0.06
FG2-MW1s	3/1/2019	7:42	10.18	71.33	-0.89	-0.06
FG2-MW1s	3/17/2019	15:38	10.19	71.32	-0.89	-0.06
FG2-MW1s	4/15/2019	12:16	10.81	70.70	-0.59	-0.04
FG2-MW1s	5/23/2019	8:15	9.45	72.06	0.16	0.01
FG2-MW1s	6/20/2019	12:40	11.93	69.58	-0.11	-0.01
FG2-MW1s	7/17/2019	10:55	11.34	70.17	-0.43	-0.03
FG2-MW1s	8/23/2019	13:24	9.88	71.63	-0.62	-0.04
FG2-MW1s	9/26/2019	12:11	10.57	70.94	-0.81	-0.05
FG2-MW1s	10/25/2019	10:13	10.58	70.93	-0.80	-0.05
FG2-MW1s	11/13/2019	14:00	10.40	71.11	-0.83	-0.05
FG2-MW1s	12/13/2019	12:00	10.53	70.98	-0.90	-0.06
FG2-MW1d	1/30/2012	9:35	5.29	76.03		
FG2-MW1d	2/10/2012	15:22	5.42	75.90		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
FG2-MW1d	3/5/2012	10:58	5.85	75.47		
FG2-MW1d	4/9/2012	10:40	6.58	74.74		
FG2-MW1d	5/10/2012	13:53	4.40	76.92		
FG2-MW1d	6/20/2012	9:43	4.18	77.14		
FG2-MW1d	7/9/2012	12:10	4.50	76.82		
FG2-MW1d	8/15/2012	13:37	4.38	76.94		
FG2-MW1d	9/20/2012	11:58	4.92	76.40		
FG2-MW1d	10/19/2012	12:51	5.10	76.22		
FG2-MW1d	12/6/2012	10:31	5.00	76.32		
FG2-MW1d	12/31/2012	9:16	5.00	76.32		
FG2-MW1d	1/15/2013	12:44	4.76	76.56		
FG2-MW1d	2/18/2013	16:26	4.39	76.93		
FG2-MW1d	3/22/2013	15:49	4.39	76.93		
FG2-MW1d	4/17/2013	15:25	5.64	75.68		
FG2-MW1d	5/31/2013	12:00	5.42	75.90		
FG2-MW1d	6/18/2013	10:43	5.20	76.12		
FG2-MW1d	7/15/2013	15:54	4.64	76.68		
FG2-MW1d	8/22/2013	16:15	4.55	76.77		
FG2-MW1d	9/9/2013	11:51	4.60	76.72		
FG2-MW1d	10/7/2013	14:56	5.00	76.32		
FG2-MW1d	11/13/2013	13:12	5.93	75.39		
FG2-MW1d	12/17/2013	15:22	5.53	75.79		
FG2-MW1d	1/14/2014	15:19	5.99	75.33		
FG2-MW1d	2/19/2014	14:00	6.11	75.21		
FG2-MW1d	3/17/2014	13:21	5.27	76.05		
FG2-MW1d	4/19/2014	11:54	4.85	76.47		
FG2-MW1d	5/23/2014	13:50	6.32	75.00		
FG2-MW1d	6/20/2014	15:06	5.40	75.92		
FG2-MW1d	7/17/2014	11:44	5.05	76.27		
FG2-MW1d	8/27/2014	12:28	5.76	75.56		
FG2-MW1d	9/19/2014	11:19	6.35	74.97		
FG2-MW1d	10/14/2014	11:12	7.38	73.94		
FG2-MW1d	11/3/2014	13:46	10.12	71.20		
FG2-MW1d	12/15/2014	14:58	5.73	75.59		
FG2-MW1d	1/13/2015	13:45	10.50	70.82		
FG2-MW1d	2/10/2015	15:51	10.00	71.32		
FG2-MW1d	3/13/2015	11:43	9.78	71.54		
FG2-MW1d	4/17/2015	10:24	11.20	70.12		
FG2-MW1d	5/12/2015	13:41	10.87	70.45		
FG2-MW1d	6/4/2015	11:48	11.60	69.72		
FG2-MW1d	7/20/2015	15:12	11.60	69.72		
FG2-MW1d	8/17/2015	15:41	11.61	69.71		
FG2-MW1d	9/14/2015	13:37	12.01	69.31		
FG2-MW1d	10/16/2015	13:29	11.96	69.36		
FG2-MW1d	11/13/2015	15:31	11.29	70.03		
FG2-MW1d	12/31/2015	14:55	11.87	69.45		
FG2-MW1d	1/16/2016	14:20	10.12	71.20		
FG2-MW1d	2/25/2016	12:41	9.79	71.53		
FG2-MW1d	3/19/2016	7:46	9.75	71.57		
FG2-MW1d	4/18/2016	12:25	9.90	71.42		
FG2-MW1d	5/17/2016	16:04	10.93	70.39		
FG2-MW1d	6/17/2016	12:33	10.81	70.51		
FG2-MW1d	7/22/2016	7:51	9.85	71.47		
FG2-MW1d	8/15/2016	10:48	9.87	71.45		
FG2-MW1d	9/16/2016	12:15	9.70	71.62		
FG2-MW1d	10/14/2016	12:57	9.47	71.85		
FG2-MW1d	11/22/2016	10:06	9.42	71.90		
FG2-MW1d	12/13/2016	16:52	9.89	71.43		
FG2-MW1d	1/26/2017	10:15	8.88	72.44		
FG2-MW1d	2/1/2017		N/M			
FG2-MW1d	3/14/2017	9:34	9.33	71.99		
FG2-MW1d	4/21/2017	14:26	9.50	71.82		
FG2-MW1d	5/18/2017	15:38	9.95	71.37		
FG2-MW1d	6/23/2017	11:00	10.10	71.22		
FG2-MW1d	7/14/2017	11:18	10.73	70.59		
FG2-MW1d	8/23/2017	14:48	9.86	71.46		
FG2-MW1d	9/23/2017	14:55	8.32	73.00		
FG2-MW1d	10/20/2017	11:26	9.45	71.87		
FG2-MW1d	11/20/2017	15:13	9.68	71.64		
FG2-MW1d	12/31/2017	8:45	9.83	71.49		
FG2-MW1d	1/22/2018	15:33	9.50	71.82		
FG2-MW1d	2/23/2018	13:48	9.51	71.81		
FG2-MW1d	3/1/2018		N/M			
FG2-MW1d	4/25/2018	10:41	9.28	72.04		
FG2-MW1d	5/16/2018	9:06	9.47	71.85		
FG2-MW1d	6/14/2018	14:23	10.69	70.63		
FG2-MW1d	7/17/2018	11:21	10.88	70.44		
FG2-MW1d	8/17/2018	13:59	10.32	71.00		
FG2-MW1d	9/12/2018	12:04	10.41	70.91		
FG2-MW1d	10/25/2018	15:34	11.32	70.00		
FG2-MW1d	11/14/2018	13:10	10.35	70.97		
FG2-MW1d	12/14/2018	15:28	10.48	70.84		
FG2-MW1d	1/24/2019	16:31	9.00	72.32		
FG2-MW1d	3/1/2019	7:42	9.10	72.22		
FG2-MW1d	3/17/2019	15:39	9.11	72.21		
FG2-MW1d	4/15/2019	12:16	10.03	71.29		
FG2-MW1d	5/23/2019	8:15	9.42	71.90		
FG2-MW1d	6/20/2019	12:40	11.63	69.69		
FG2-MW1d	7/17/2019	10:55	10.72	70.60		
FG2-MW1d	8/23/2019	13:25	9.07	72.25		
FG2-MW1d	9/26/2019	12:11	9.57	71.75		
FG2-MW1d	10/25/2019	10:13	9.59	71.73		
FG2-MW1d	11/13/2019	14:00	9.38	71.94		
FG2-MW1d	12/13/2019	12:00	9.44	71.88		
FG2-MW2s	1/30/2012	9:40	9.03	76.41	0.11	0.01
FG2-MW2s	2/10/2012	16:06	9.22	76.22	<|0.05|	0
FG2-MW2s	3/5/2012	10:46	8.58	76.86	<|0.05|	0
FG2-MW2s	4/9/2012	10:34	9.43	76.01	<|0.05|	0
FG2-MW2s	5/10/2012	12:34	8.13	77.31	<|0.05|	0
FG2-MW2s	6/20/2012	9:33	7.41	78.03	<|0.05|	0
FG2-MW2s	7/9/2012	12:01	7.39	78.05	<|0.05|	0
FG2-MW2s	8/15/2012	13:13	6.07	79.37	<|0.05|	0
FG2-MW2s	9/20/2012	11:44	6.88	78.56	<|0.05|	0
FG2-MW2s	10/19/2012	12:45	8.48	76.96	<|0.05|	0
FG2-MW2s	12/6/2012	10:25	7.70	77.74	0.98	0.05
FG2-MW2s	12/31/2012	8:55	7.70	77.74	0.98	0.05
FG2-MW2s	1/15/2013	12:34	8.82	76.62	<|0.05|	0
FG2-MW2s	2/18/2013	16:17	9.10	76.34	<|0.05|	0
FG2-MW2s	3/22/2013	15:41	8.82	76.62	<|0.05|	0
FG2-MW2s	4/17/2013	15:36	9.79	75.65	<|0.05|	0
FG2-MW2s	5/31/2013	12:14	9.23	76.21	<|0.05|	0
FG2-MW2s	6/18/2013	10:54	9.28	76.16	<|0.05|	0
FG2-MW2s	7/15/2013	15:45	6.82	78.62	<|0.05|	0
FG2-MW2s	8/22/2013	16:07	5.33	80.11	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
FG2-MW2s	9/9/2013	11:59	7.08	78.36	<|0.05|	0
FG2-MW2s	10/7/2013	15:07	8.59	76.85	<|0.05|	0
FG2-MW2s	11/13/2013	13:22	9.22	76.22	<|0.05|	0
FG2-MW2s	12/17/2013	15:36	9.35	76.09	<|0.05|	0
FG2-MW2s	1/14/2014	15:30	9.57	75.87	<|0.05|	0
FG2-MW2s	2/19/2014	14:10	9.60	75.84	<|0.05|	0
FG2-MW2s	3/17/2014	13:29	9.13	76.31	<|0.05|	0
FG2-MW2s	4/19/2014	12:03	7.59	77.85	<|0.05|	0
FG2-MW2s	5/23/2014	13:40	8.20	77.24	<|0.05|	0
FG2-MW2s	6/20/2014	15:33	8.63	76.81	<|0.05|	0
FG2-MW2s	7/17/2014	11:54	6.72	78.72	<|0.05|	0
FG2-MW2s	8/27/2014	12:37	5.81	79.63	<|0.05|	0
FG2-MW2s	9/19/2014	11:30	8.29	77.15	<|0.05|	0
FG2-MW2s	10/14/2014	11:21	9.15	76.29	<|0.05|	0
FG2-MW2s	11/3/2014	13:55	8.11	77.33	1.45	0.08
FG2-MW2s	12/15/2014	14:40	6.70	78.74	<|0.05|	0
FG2-MW2s	1/13/2015	13:35	7.46	77.98	<|0.05|	0
FG2-MW2s	2/10/2015	16:08	8.77	76.67	<|0.05|	0
FG2-MW2s	3/13/2015	11:55	9.53	75.91	<|0.05|	0
FG2-MW2s	4/17/2015	10:33	9.88	75.56	<|0.05|	0
FG2-MW2s	5/12/2015	13:33	8.81	76.63	<|0.05|	0
FG2-MW2s	6/4/2015	11:59	9.48	75.96	<|0.05|	0
FG2-MW2s	7/20/2015	14:52	7.38	78.06	<|0.05|	0
FG2-MW2s	8/17/2015	15:25	7.43	78.01	<|0.05|	0
FG2-MW2s	9/14/2015	13:24	9.15	76.29	<|0.05|	0
FG2-MW2s	10/16/2015	13:20	9.60	75.84	<|0.05|	0
FG2-MW2s	11/13/2015	15:17	9.39	76.05	<|0.05|	0
FG2-MW2s	12/31/2015	14:43	9.99	75.45	<|0.05|	0
FG2-MW2s	1/16/2016	14:09	10.02	75.42	<|0.05|	0
FG2-MW2s	2/25/2016	12:30	9.35	76.09	<|0.05|	0
FG2-MW2s	3/19/2016	7:36	9.13	76.31	<|0.05|	0
FG2-MW2s	4/18/2016	12:10	9.76	75.68	<|0.05|	0
FG2-MW2s	5/17/2016	15:59	8.44	77.00	<|0.05|	0
FG2-MW2s	6/17/2016	12:24	9.38	76.06	<|0.05|	0
FG2-MW2s	7/22/2016	8:04	7.39	78.05	<|0.05|	0
FG2-MW2s	8/15/2016	10:26	7.79	77.65	<|0.05|	0
FG2-MW2s	9/16/2016	12:05	8.02	77.42	<|0.05|	0
FG2-MW2s	10/14/2016	12:49	9.01	76.43	<|0.05|	0
FG2-MW2s	11/22/2016	10:16	9.72	75.72	<|0.05|	0
FG2-MW2s	12/13/2016	15:43	10.06	75.38	<|0.05|	0
FG2-MW2s	1/26/2017	10:06	7.96	77.48	<|0.05|	0
FG2-MW2s	2/1/2017		N/M			
FG2-MW2s	3/14/2017	9:26	7.25	78.19	<|0.05|	0
FG2-MW2s	4/21/2017	14:17	9.31	76.13	<|0.05|	0
FG2-MW2s	5/18/2017	15:44	8.99	76.45	<|0.05|	0
FG2-MW2s	6/23/2017	11:13	9.62	75.82	<|0.05|	0
FG2-MW2s	7/14/2017	11:26	8.26	77.18	<|0.05|	0
FG2-MW2s	8/23/2017	14:55	7.22	78.22	<|0.05|	0
FG2-MW2s	9/23/2017	14:47	8.62	76.82	<|0.05|	0
FG2-MW2s	10/20/2017	11:19	9.38	76.06	<|0.05|	0
FG2-MW2s	11/20/2017	14:55	9.58	75.86	<|0.05|	0
FG2-MW2s	12/31/2017	8:54	10.00	75.44	<|0.05|	0
FG2-MW2s	1/22/2018	15:25	10.08	75.36	<|0.05|	0
FG2-MW2s	2/23/2018	13:36	9.70	75.74	<|0.05|	0
FG2-MW2s	3/1/2018		N/M			
FG2-MW2s	4/25/2018	10:50	9.88	75.56	<|0.05|	0
FG2-MW2s	5/16/2018	8:56	8.71	76.73	<|0.05|	0
FG2-MW2s	6/14/2018	14:32	9.54	75.90	<|0.05|	0
FG2-MW2s	7/17/2018	11:13	7.97	77.47	<|0.05|	0
FG2-MW2s	8/17/2018	13:56	6.31	79.13	<|0.05|	0
FG2-MW2s	9/12/2018	12:13	8.06	77.38	<|0.05|	0
FG2-MW2s	10/25/2018	15:43	8.40	77.04	<|0.05|	0
FG2-MW2s	11/14/2018	13:04	9.32	76.12	<|0.05|	0
FG2-MW2s	12/14/2018	15:20	9.67	75.77	<|0.05|	0
FG2-MW2s	1/24/2019	16:23	8.56	76.88	<|0.05|	0
FG2-MW2s	3/1/2019	7:50	8.29	77.15	<|0.05|	0
FG2-MW2s	3/17/2019	15:30	8.90	76.54	<|0.05|	0
FG2-MW2s	4/15/2019	12:26	7.74	77.70	<|0.05|	0
FG2-MW2s	5/23/2019	8:00	7.27	78.17	<|0.05|	0
FG2-MW2s	6/20/2019	12:47	8.65	76.79	<|0.05|	0
FG2-MW2s	7/17/2019	11:04	7.67	77.77	<|0.05|	0
FG2-MW2s	8/23/2019	13:07	6.59	78.85	<|0.05|	0
FG2-MW2s	9/26/2019	12:21	8.28	77.16	<|0.05|	0
FG2-MW2s	10/25/2019	10:21	9.37	76.07	<|0.05|	0
FG2-MW2s	11/13/2019	14:08	7.90	77.54	<|0.05|	0
FG2-MW2s	12/13/2019	12:07	8.02	77.42	<|0.05|	0
FG2-MW2d	1/30/2012	9:40	9.01	76.30		
FG2-MW2d	2/10/2012	16:07	9.10	76.21		
FG2-MW2d	3/5/2012	10:49	8.48	76.83		
FG2-MW2d	4/9/2012	10:33	9.34	75.97		
FG2-MW2d	5/10/2012	12:34	8.02	77.29		
FG2-MW2d	6/20/2012	9:34	7.28	78.03		
FG2-MW2d	7/9/2012	12:00	7.26	78.05		
FG2-MW2d	8/15/2012	13:14	5.94	79.37		
FG2-MW2d	9/20/2012	11:44	6.76	78.55		
FG2-MW2d	10/19/2012	12:45	8.35	76.96		
FG2-MW2d	12/6/2012	10:25	8.55	76.76		
FG2-MW2d	12/31/2012	8:56	8.55	76.76		
FG2-MW2d	1/15/2013	12:34	8.68	76.63		
FG2-MW2d	2/18/2013	16:17	8.95	76.36		
FG2-MW2d	3/22/2013	15:41	8.68	76.63		
FG2-MW2d	4/17/2013	15:36	9.64	75.67		
FG2-MW2d	5/31/2013	12:14	9.10	76.21		
FG2-MW2d	6/18/2013	10:55	9.14	76.17		
FG2-MW2d	7/15/2013	15:45	6.72	78.59		
FG2-MW2d	8/22/2013	16:07	5.20	80.11		
FG2-MW2d	9/9/2013	11:59	6.95	78.36		
FG2-MW2d	10/7/2013	15:07	8.45	76.86		
FG2-MW2d	11/13/2013	13:22	9.08	76.23		
FG2-MW2d	12/17/2013	15:36	9.22	76.09		
FG2-MW2d	1/14/2014	15:30	9.40	75.91		
FG2-MW2d	2/19/2014	14:10	9.47	75.84		
FG2-MW2d	3/17/2014	13:29	9.00	76.31		
FG2-MW2d	4/19/2014	12:03	7.45	77.86		
FG2-MW2d	5/23/2014	13:40	8.09	77.22		
FG2-MW2d	6/20/2014	15:33	8.50	76.81		
FG2-MW2d	7/17/2014	11:54	6.60	78.71		
FG2-MW2d	8/27/2014	12:37	5.70	79.61		
FG2-MW2d	9/19/2014	11:30	8.15	77.16		
FG2-MW2d	10/14/2014	11:21	9.05	76.26		
FG2-MW2d	11/3/2014	13:56	9.43	75.88		
FG2-MW2d	12/15/2014	14:40	6.60	78.71		
FG2-MW2d	1/13/2015	13:35	7.34	77.97		
FG2-MW2d	2/10/2015	16:08	8.65	76.66		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
FG2-MW2d	3/13/2015	11:55	9.40	75.91		
FG2-MW2d	4/17/2015	10:33	9.70	75.61		
FG2-MW2d	5/12/2015	13:33	8.71	76.60		
FG2-MW2d	6/4/2015	11:59	9.35	75.96		
FG2-MW2d	7/20/2015	14:52	7.20	78.11		
FG2-MW2d	8/17/2015	15:25	7.32	77.99		
FG2-MW2d	9/14/2015	13:24	9.04	76.27		
FG2-MW2d	10/16/2015	13:20	9.48	75.83		
FG2-MW2d	11/13/2015	15:17	9.26	76.05		
FG2-MW2d	12/31/2015	14:44	9.85	75.46		
FG2-MW2d	1/16/2016	14:10	9.90	75.41		
FG2-MW2d	2/25/2016	12:31	9.22	76.09		
FG2-MW2d	3/19/2016	7:36	9.03	76.28		
FG2-MW2d	4/18/2016	12:11	9.65	75.66		
FG2-MW2d	5/17/2016	16:00	8.34	76.97		
FG2-MW2d	6/17/2016	12:25	9.28	76.03		
FG2-MW2d	7/22/2016	8:04	7.28	78.03		
FG2-MW2d	8/15/2016	10:27	7.67	77.64		
FG2-MW2d	9/16/2016	12:06	7.92	77.39		
FG2-MW2d	10/14/2016	12:50	8.90	76.41		
FG2-MW2d	11/22/2016	10:17	9.62	75.69		
FG2-MW2d	12/13/2016	15:44	9.94	75.37		
FG2-MW2d	1/26/2017	10:07	7.82	77.49		
FG2-MW2d	2/1/2017		N/M			
FG2-MW2d	3/14/2017	9:26	7.15	78.16		
FG2-MW2d	4/21/2017	14:18	9.18	76.13		
FG2-MW2d	5/18/2017	15:44	8.90	76.41		
FG2-MW2d	6/23/2017	11:13	9.51	75.80		
FG2-MW2d	7/14/2017	11:26	8.17	77.14		
FG2-MW2d	8/23/2017	14:55	7.11	78.20		
FG2-MW2d	9/23/2017	14:48	8.48	76.83		
FG2-MW2d	10/20/2017	11:20	9.27	76.04		
FG2-MW2d	11/20/2017	14:56	9.49	75.82		
FG2-MW2d	12/31/2017	8:54	9.89	75.42		
FG2-MW2d	1/22/2018	15:24	9.98	75.33		
FG2-MW2d	2/23/2018	13:35	9.60	75.71		
FG2-MW2d	3/1/2018		N/M			
FG2-MW2d	4/25/2018	10:50	9.74	75.57		
FG2-MW2d	5/16/2018	8:56	8.62	76.69		
FG2-MW2d	6/14/2018	14:32	9.42	75.89		
FG2-MW2d	7/17/2018	11:14	7.85	77.46		
FG2-MW2d	8/17/2018	13:56	6.19	79.12		
FG2-MW2d	9/12/2018	12:13	7.95	77.36		
FG2-MW2d	10/25/2018	15:43	8.31	77.00		
FG2-MW2d	11/14/2018	13:03	9.21	76.10		
FG2-MW2d	12/14/2018	15:21	9.54	75.77		
FG2-MW2d	1/24/2019	16:24	8.45	76.86		
FG2-MW2d	3/1/2019	7:50	8.17	77.14		
FG2-MW2d	3/17/2019	15:31	8.79	76.52		
FG2-MW2d	4/15/2019	12:26	7.63	77.68		
FG2-MW2d	5/23/2019	8:00	7.17	78.14		
FG2-MW2d	6/20/2019	12:47	8.52	76.79		
FG2-MW2d	7/17/2019	11:04	7.54	77.77		
FG2-MW2d	8/23/2019	13:08	6.48	78.83		
FG2-MW2d	9/26/2019	12:21	8.15	77.16		
FG2-MW2d	10/25/2019	10:21	9.26	76.05		
FG2-MW2d	11/13/2019	14:08	7.80	77.51		
FG2-MW2d	12/13/2019	12:07	7.93	77.38		
FG2-MW3s	1/30/2012	9:48	9.65	76.13	<|0.05|	0
FG2-MW3s	2/10/2012	15:45	9.70	76.08	<|0.05|	0
FG2-MW3s	3/5/2012	10:53	9.58	76.20	0.74	0.04
FG2-MW3s	4/9/2012	10:38	10.38	75.40	-0.38	-0.02
FG2-MW3s	5/10/2012	13:22	10.33	75.45	<|0.05|	0
FG2-MW3s	6/20/2012	9:36	9.64	76.14	<|0.05|	0
FG2-MW3s	7/9/2012	12:06	9.12	76.66	<|0.05|	0
FG2-MW3s	8/15/2012	13:17	8.57	77.21	<|0.05|	0
FG2-MW3s	9/20/2012	11:47	8.96	76.82	0.31	0.02
FG2-MW3s	10/19/2012	12:48	9.59	76.19	<|0.05|	0
FG2-MW3s	12/6/2012	10:28	9.93	75.85	-0.99	-0.06
FG2-MW3s	12/31/2012	9:05	9.93	75.85	-0.99	-0.06
FG2-MW3s	1/15/2013	12:39	9.78	76.00	<|0.05|	0
FG2-MW3s	2/18/2013	16:21	9.60	76.18	<|0.05|	0
FG2-MW3s	3/22/2013	15:45	9.74	76.04	<|0.05|	0
FG2-MW3s	4/17/2013	15:31	10.43	75.35	<|0.05|	0
FG2-MW3s	5/31/2013	12:08	10.48	75.30	<|0.05|	0
FG2-MW3s	6/18/2013	10:49	10.05	75.73	<|0.05|	0
FG2-MW3s	7/15/2013	15:50	9.22	76.56	<|0.05|	0
FG2-MW3s	8/22/2013	16:11	8.52	77.26	<|0.05|	0
FG2-MW3s	9/9/2013	11:56	8.86	76.92	<|0.05|	0
FG2-MW3s	10/7/2013	15:02	9.50	76.28	<|0.05|	0
FG2-MW3s	11/13/2013	13:17	10.07	75.71	<|0.05|	0
FG2-MW3s	12/17/2013	15:26	9.95	75.83	<|0.05|	0
FG2-MW3s	1/14/2014	15:25	10.37	75.41	<|0.05|	0
FG2-MW3s	2/19/2014	14:06	10.28	75.50	<|0.05|	0
FG2-MW3s	3/17/2014	13:26	9.45	76.33	<|0.05|	0
FG2-MW3s	4/19/2014	12:00	8.80	76.98	<|0.05|	0
FG2-MW3s	5/23/2014	13:46	9.29	76.49	-0.22	-0.01
FG2-MW3s	6/20/2014	15:29	9.70	76.08	<|0.05|	0
FG2-MW3s	7/17/2014	11:50	9.23	76.55	<|0.05|	0
FG2-MW3s	8/27/2014	12:34	8.88	76.90	<|0.05|	0
FG2-MW3s	9/19/2014	11:25	9.83	75.95	<|0.05|	0
FG2-MW3s	10/14/2014	11:19	10.45	75.33	<|0.05|	0
FG2-MW3s	11/3/2014	13:50	10.30	75.48	0.25	0.01
FG2-MW3s	12/15/2014	14:45	9.75	76.03	<|0.05|	0
FG2-MW3s	1/13/2015	13:39	9.92	75.86	<|0.05|	0
FG2-MW3s	2/10/2015	16:04	10.43	75.35	-0.06	-0.00
FG2-MW3s	3/13/2015	11:52	11.05	74.73	<|0.05|	0
FG2-MW3s	4/17/2015	10:29	11.38	74.40	0.11	0.01
FG2-MW3s	5/12/2015	13:37	10.91	74.87	<|0.05|	0
FG2-MW3s	6/4/2015	11:55	11.25	74.53	<|0.05|	0
FG2-MW3s	7/20/2015	15:02	10.42	75.36	<|0.05|	0
FG2-MW3s	8/17/2015	15:29	10.36	75.42	<|0.05|	0
FG2-MW3s	9/14/2015	13:28	11.22	74.56	<|0.05|	0
FG2-MW3s	10/16/2015	13:24	11.63	74.15	<|0.05|	0
FG2-MW3s	11/13/2015	15:21	11.19	74.59	<|0.05|	0
FG2-MW3s	12/31/2015	14:49	11.87	73.91	<|0.05|	0
FG2-MW3s	1/16/2016	14:13	11.81	73.97	<|0.05|	0
FG2-MW3s	2/25/2016	12:35	10.64	75.14	<|0.05|	0
FG2-MW3s	3/19/2016	7:41	10.76	75.02	<|0.05|	0
FG2-MW3s	4/18/2016	12:15	11.23	74.55	<|0.05|	0
FG2-MW3s	5/17/2016	16:01	11.06	74.72	<|0.05|	0
FG2-MW3s	6/17/2016	12:28	11.34	74.44	<|0.05|	0
FG2-MW3s	7/22/2016	7:57	10.86	74.92	<|0.05|	0
FG2-MW3s	8/15/2016	10:31	9.99	75.79	0.86	0.05

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
FG2-MW3s	9/16/2016	12:08	10.22	75.56	<|0.05|	0
FG2-MW3s	10/14/2016	12:52	10.52	75.26	<|0.05|	0
FG2-MW3s	11/22/2016	10:12	11.73	74.05	<|0.05|	0
FG2-MW3s	12/13/2016	16:46	12.09	73.69	<|0.05|	0
FG2-MW3s	1/26/2017	10:10	11.32	74.46	<|0.05|	0
FG2-MW3s	2/1/2017		N/M			
FG2-MW3s	3/14/2017	9:30	10.97	74.81	<|0.05|	0
FG2-MW3s	4/21/2017	14:20	11.40	74.38	<|0.05|	0
FG2-MW3s	5/18/2017	15:42	12.00	73.78	<|0.05|	0
FG2-MW3s	6/23/2017	11:10	11.93	73.85	<|0.05|	0
FG2-MW3s	7/14/2017	11:23	11.57	74.21	<|0.05|	0
FG2-MW3s	8/23/2017	14:51	10.88	74.90	<|0.05|	0
FG2-MW3s	9/23/2017	14:50	11.25	74.53	<|0.05|	0
FG2-MW3s	10/20/2017	11:22	11.46	74.32	<|0.05|	0
FG2-MW3s	11/20/2017	14:58	11.94	73.84	<|0.05|	0
FG2-MW3s	12/31/2017	8:50	12.40	73.38	<|0.05|	0
FG2-MW3s	1/22/2018	15:27	12.31	73.47	<|0.05|	0
FG2-MW3s	2/23/2018	13:40	12.53	73.25	<|0.05|	0
FG2-MW3s	3/1/2018		N/M			
FG2-MW3s	4/25/2018	10:46	11.14	74.64	<|0.05|	0
FG2-MW3s	5/16/2018	8:58	11.35	74.43	<|0.05|	0
FG2-MW3s	6/14/2018	14:28	11.45	74.33	<|0.05|	0
FG2-MW3s	7/17/2018	11:16	11.28	74.50	<|0.05|	0
FG2-MW3s	8/17/2018	13:54	10.88	74.90	<|0.05|	0
FG2-MW3s	9/12/2018	12:10	10.77	75.01	<|0.05|	0
FG2-MW3s	10/25/2018	15:39	11.59	74.19	-0.06	-0.00
FG2-MW3s	11/14/2018	13:08	11.85	73.93	<|0.05|	0
FG2-MW3s	12/14/2018	15:23	11.70	74.08	<|0.05|	0
FG2-MW3s	1/24/2019	16:26	11.11	74.67	<|0.05|	0
FG2-MW3s	3/1/2019	7:45	10.92	74.86	<|0.05|	0
FG2-MW3s	3/17/2019	15:34	11.04	74.74	<|0.05|	0
FG2-MW3s	4/15/2019	12:22	11.49	74.29	<|0.05|	0
FG2-MW3s	5/23/2019	8:08	11.48	74.30	<|0.05|	0
FG2-MW3s	6/20/2019	12:44	11.43	74.35	0.07	0.00
FG2-MW3s	7/17/2019	11:01	11.32	74.46	-0.16	-0.01
FG2-MW3s	8/23/2019	13:10	10.34	75.44	<|0.05|	0
FG2-MW3s	9/26/2019	12:17	10.77	75.01	<|0.05|	0
FG2-MW3s	10/25/2019	10:18	11.38	74.40	<|0.05|	0
FG2-MW3s	11/13/2019	14:06	11.56	74.22	<|0.05|	0
FG2-MW3s	12/13/2019	12:03	11.61	74.17	<|0.05|	0
FG2-MW3d	1/30/2012	9:49	9.21	76.13		
FG2-MW3d	2/10/2012	15:46	9.26	76.08		
FG2-MW3d	3/5/2012	10:54	9.88	75.46		
FG2-MW3d	4/9/2012	10:37	9.56	75.78		
FG2-MW3d	5/10/2012	13:23	9.87	75.47		
FG2-MW3d	6/20/2012	9:37	9.19	76.15		
FG2-MW3d	7/9/2012	12:05	8.68	76.66		
FG2-MW3d	8/15/2012	13:18	8.12	77.22		
FG2-MW3d	9/20/2012	11:48	8.83	76.51		
FG2-MW3d	10/19/2012	12:48	9.15	76.19		
FG2-MW3d	12/6/2012	10:28	8.50	76.84		
FG2-MW3d	12/31/2012	9:06	8.50	76.84		
FG2-MW3d	1/15/2013	12:39	9.32	76.02		
FG2-MW3d	2/18/2013	16:21	9.19	76.15		
FG2-MW3d	3/22/2013	15:45	9.30	76.04		
FG2-MW3d	4/17/2013	15:31	9.98	75.36		
FG2-MW3d	5/31/2013	12:08	10.02	75.32		
FG2-MW3d	6/18/2013	10:51	9.60	75.74		
FG2-MW3d	7/15/2013	15:50	8.78	76.56		
FG2-MW3d	8/22/2013	16:11	8.08	77.26		
FG2-MW3d	9/9/2013	11:56	8.38	76.96		
FG2-MW3d	10/7/2013	15:02	9.05	76.29		
FG2-MW3d	11/13/2013	13:17	9.62	75.72		
FG2-MW3d	12/17/2013	15:26	9.48	75.86		
FG2-MW3d	1/14/2014	15:25	9.93	75.41		
FG2-MW3d	2/19/2014	14:06	9.84	75.50		
FG2-MW3d	3/17/2014	13:26	9.04	76.30		
FG2-MW3d	4/19/2014	12:00	8.38	76.96		
FG2-MW3d	5/23/2014	13:46	8.63	76.71		
FG2-MW3d	6/20/2014	15:29	9.23	76.11		
FG2-MW3d	7/17/2014	11:50	8.76	76.58		
FG2-MW3d	8/27/2014	12:34	8.42	76.92		
FG2-MW3d	9/19/2014	11:25	9.40	75.94		
FG2-MW3d	10/14/2014	11:19	10.02	75.32		
FG2-MW3d	11/3/2014	13:50	10.11	75.23		
FG2-MW3d	12/15/2014	14:45	9.33	76.01		
FG2-MW3d	1/13/2015	13:39	9.47	75.87		
FG2-MW3d	2/10/2015	16:04	9.93	75.41		
FG2-MW3d	3/13/2015	11:52	10.62	74.72		
FG2-MW3d	4/17/2015	10:29	11.05	74.29		
FG2-MW3d	5/12/2015	13:37	10.46	74.88		
FG2-MW3d	6/4/2015	11:55	10.80	74.54		
FG2-MW3d	7/20/2015	15:02	9.98	75.36		
FG2-MW3d	8/17/2015	15:29	9.94	75.40		
FG2-MW3d	9/14/2015	13:28	10.79	74.55		
FG2-MW3d	10/16/2015	13:24	11.20	74.14		
FG2-MW3d	11/13/2015	15:21	10.76	74.58		
FG2-MW3d	12/31/2015	14:50	11.44	73.90		
FG2-MW3d	1/16/2016	14:14	11.39	73.95		
FG2-MW3d	2/25/2016	12:36	10.22	75.12		
FG2-MW3d	3/19/2016	7:41	10.34	75.00		
FG2-MW3d	4/18/2016	12:14	10.80	74.54		
FG2-MW3d	5/17/2016	16:02	10.63	74.71		
FG2-MW3d	6/17/2016	12:29	10.92	74.42		
FG2-MW3d	7/22/2016	7:57	10.44	74.90		
FG2-MW3d	8/15/2016	10:32	10.41	74.93		
FG2-MW3d	9/16/2016	12:09	9.79	75.55		
FG2-MW3d	10/14/2016	12:53	10.10	75.24		
FG2-MW3d	11/22/2016	10:13	11.30	74.04		
FG2-MW3d	12/13/2016	16:47	11.65	73.69		
FG2-MW3d	1/26/2017	10:11	10.89	74.45		
FG2-MW3d	2/1/2017		N/M			
FG2-MW3d	3/14/2017	9:30	10.55	74.79		
FG2-MW3d	4/21/2017	14:21	10.99	74.35		
FG2-MW3d	5/18/2017	15:42	11.58	73.76		
FG2-MW3d	6/23/2017	11:10	11.50	73.84		
FG2-MW3d	7/14/2017	11:23	11.14	74.20		
FG2-MW3d	8/23/2017	14:51	10.45	74.89		
FG2-MW3d	9/23/2017	14:51	10.81	74.53		
FG2-MW3d	10/20/2017	11:23	11.05	74.29		
FG2-MW3d	11/20/2017	14:59	11.53	73.81		
FG2-MW3d	12/31/2017	8:50	11.96	73.38		
FG2-MW3d	1/22/2018	15:28	11.90	73.44		
FG2-MW3d	2/23/2018	13:40	12.12	73.22		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
FG2-MW3d	3/1/2018		N/M			
FG2-MW3d	4/25/2018	10:46	10.72	74.62		
FG2-MW3d	5/16/2018	8:58	10.94	74.40		
FG2-MW3d	6/14/2018	14:28	10.98	74.36		
FG2-MW3d	7/17/2018	11:17	10.85	74.49		
FG2-MW3d	8/17/2018	13:54	10.46	74.88		
FG2-MW3d	9/12/2018	12:10	10.37	74.97		
FG2-MW3d	10/25/2018	15:39	11.09	74.25		
FG2-MW3d	11/14/2018	13:07	11.44	73.90		
FG2-MW3d	12/14/2018	15:24	11.28	74.06		
FG2-MW3d	1/24/2019	16:27	10.70	74.64		
FG2-MW3d	3/1/2019	7:45	10.50	74.84		
FG2-MW3d	3/17/2019	15:35	10.61	74.73		
FG2-MW3d	4/15/2019	12:22	11.06	74.28		
FG2-MW3d	5/23/2019	8:08	11.07	74.27		
FG2-MW3d	6/20/2019	12:44	11.06	74.28		
FG2-MW3d	7/17/2019	11:01	10.72	74.62		
FG2-MW3d	8/23/2019	13:11	9.93	75.41		
FG2-MW3d	9/26/2019	12:17	10.36	74.98		
FG2-MW3d	10/25/2019	10:18	10.98	74.36		
FG2-MW3d	11/13/2019	14:06	11.14	74.20		
FG2-MW3d	12/13/2019	12:03	11.19	74.15		
FG2-MW4s	1/30/2012	10:03	10.05	77.31	<|0.05|	0
FG2-MW4s	2/10/2012	14:56	10.22	77.14	<|0.05|	0
FG2-MW4s	3/5/2012	11:01	8.11	79.25	<|0.05|	0
FG2-MW4s	4/9/2012	10:46	10.61	76.75	<|0.05|	0
FG2-MW4s	5/10/2012	14:14	10.80	76.56	<|0.05|	0
FG2-MW4s	6/20/2012	9:46	10.12	77.24	<|0.05|	0
FG2-MW4s	7/9/2012	12:15	9.63	77.73	<|0.05|	0
FG2-MW4s	8/15/2012	13:25	8.17	79.19	<|0.05|	0
FG2-MW4s	9/20/2012	11:51	8.67	78.69	0.27	0.02
FG2-MW4s	10/19/2012	12:55	10.06	77.30	<|0.05|	0
FG2-MW4s	12/6/2012	10:36	8.85	78.51	-0.10	-0.01
FG2-MW4s	12/31/2012	9:21	8.85	78.51	-0.10	-0.01
FG2-MW4s	1/15/2013	11:47	9.42	77.94	<|0.05|	0
FG2-MW4s	2/18/2013	16:30	10.00	77.36	<|0.05|	0
FG2-MW4s	3/22/2013	15:53	10.68	76.68	<|0.05|	0
FG2-MW4s	4/17/2013	15:16	11.71	75.65	<|0.05|	0
FG2-MW4s	5/31/2013	11:53	10.87	76.49	<|0.05|	0
FG2-MW4s	6/18/2013	10:37	10.40	76.96	<|0.05|	0
FG2-MW4s	7/15/2013	16:00	8.49	78.87	<|0.05|	0
FG2-MW4s	8/22/2013	16:19	6.97	80.39	<|0.05|	0
FG2-MW4s	9/9/2013	11:48	8.73	78.63	0.10	0.01
FG2-MW4s	10/7/2013	14:52	9.12	78.24	<|0.05|	0
FG2-MW4s	11/13/2013	13:05	10.21	77.15	<|0.05|	0
FG2-MW4s	12/17/2013	15:16	10.43	76.93	0.23	0.01
FG2-MW4s	1/14/2014	15:12	10.94	76.42	<|0.05|	0
FG2-MW4s	2/19/2014	13:56	10.72	76.64	<|0.05|	0
FG2-MW4s	3/17/2014	13:15	10.43	76.93	<|0.05|	0
FG2-MW4s	4/19/2014	11:49	8.90	78.46	<|0.05|	0
FG2-MW4s	5/23/2014	13:55	10.54	76.82	<|0.05|	0
FG2-MW4s	6/20/2014	15:01	9.76	77.60	<|0.05|	0
FG2-MW4s	7/17/2014	11:39	7.40	79.96	<|0.05|	0
FG2-MW4s	8/27/2014	12:23	8.11	79.25	<|0.05|	0
FG2-MW4s	9/19/2014	11:13	10.20	77.16	<|0.05|	0
FG2-MW4s	10/14/2014	11:07	11.00	76.36	<|0.05|	0
FG2-MW4s	11/3/2014	13:40	10.66	76.70	<|0.05|	0
FG2-MW4s	12/15/2014	15:16	8.42	78.94	-0.07	-0.00
FG2-MW4s	1/13/2015	13:59	8.85	78.51	<|0.05|	0
FG2-MW4s	2/10/2015	15:58	11.28	76.08	<|0.05|	0
FG2-MW4s	3/13/2015	11:39	12.19	75.17	<|0.05|	0
FG2-MW4s	4/17/2015	10:18	12.50	74.86	<|0.05|	0
FG2-MW4s	5/12/2015	13:46	11.20	76.16	<|0.05|	0
FG2-MW4s	6/4/2015	11:43	12.02	75.34	-0.09	-0.00
FG2-MW4s	7/20/2015	15:19	10.30	77.06	<|0.05|	0
FG2-MW4s	8/17/2015	15:34	10.76	76.60	<|0.05|	0
FG2-MW4s	9/14/2015	13:43	11.97	75.39	<|0.05|	0
FG2-MW4s	10/16/2015	13:35	12.00	75.36	0.47	0.03
FG2-MW4s	11/13/2015	15:26	11.20	76.16	<|0.05|	0
FG2-MW4s	12/31/2015	14:59	12.73	74.63	<|0.05|	0
FG2-MW4s	1/16/2016	14:24	12.62	74.74	<|0.05|	0
FG2-MW4s	2/25/2016	12:46	12.05	75.31	-0.54	-0.03
FG2-MW4s	3/19/2016	7:31	11.00	76.36	<|0.05|	0
FG2-MW4s	4/18/2016	12:29	12.55	74.81	<|0.05|	0
FG2-MW4s	5/17/2016	15:58	11.09	76.27	<|0.05|	0
FG2-MW4s	6/17/2016	12:36	11.76	75.60	<|0.05|	0
FG2-MW4s	7/22/2016	7:43	8.45	78.91	<|0.05|	0
FG2-MW4s	8/15/2016	10:24	10.58	76.78	<|0.05|	0
FG2-MW4s	9/16/2016	12:19	8.77	78.59	<|0.05|	0
FG2-MW4s	10/14/2016	13:01	10.28	77.08	0.77	0.04
FG2-MW4s	11/22/2016	10:08	12.04	75.32	<|0.05|	0
FG2-MW4s	12/13/2016	16:54	12.41	74.95	<|0.05|	0
FG2-MW4s	1/26/2017	10:19	9.79	77.57	<|0.05|	0
FG2-MW4s	2/1/2017		N/M			
FG2-MW4s	3/14/2017	9:40	10.11	77.25	<|0.05|	0
FG2-MW4s	4/21/2017	14:29	12.01	75.35	<|0.05|	0
FG2-MW4s	5/18/2017	15:07	13.02	74.34	<|0.05|	0
FG2-MW4s	6/23/2017	10:54	12.12	75.24	<|0.05|	0
FG2-MW4s	7/14/2017	11:07	10.65	76.71	-0.09	-0.00
FG2-MW4s	8/23/2017	14:44	10.15	77.21	<|0.05|	0
FG2-MW4s	9/23/2017	14:58	11.12	76.24	0.21	0.01
FG2-MW4s	10/20/2017	11:30	10.97	76.39	<|0.05|	0
FG2-MW4s	11/20/2017	15:05	11.90	75.46	<|0.05|	0
FG2-MW4s	12/31/2017	8:39	12.72	74.64	<|0.05|	0
FG2-MW4s	1/22/2018	15:39	12.77	74.59	<|0.05|	0
FG2-MW4s	2/23/2018	13:52	11.52	75.84	<|0.05|	0
FG2-MW4s	3/1/2018		N/M			
FG2-MW4s	4/25/2018	10:35	9.43	77.93	0.99	0.06
FG2-MW4s	5/16/2018	8:53	12.06	75.30	<|0.05|	0
FG2-MW4s	6/14/2018	14:17	11.30	76.06	<|0.05|	0
FG2-MW4s	7/17/2018	11:25	10.21	77.15	<|0.05|	0
FG2-MW4s	8/17/2018	13:52	7.57	79.79	<|0.05|	0
FG2-MW4s	9/12/2018	12:00	9.16	78.20	<|0.05|	0
FG2-MW4s	10/25/2018	15:30	11.62	75.74	<|0.05|	0
FG2-MW4s	11/14/2018	13:00	11.92	75.44	<|0.05|	0
FG2-MW4s	12/14/2018	15:31	12.05	75.31	<|0.05|	0
FG2-MW4s	1/24/2019	16:34	10.53	76.83	<|0.05|	0
FG2-MW4s	3/1/2019	7:38	10.63	76.73	<|0.05|	0
FG2-MW4s	3/17/2019	15:42	8.21	79.15	<|0.05|	0
FG2-MW4s	4/15/2019	12:12	11.42	75.94	<|0.05|	0
FG2-MW4s	5/23/2019	8:22	8.94	78.42	<|0.05|	0
FG2-MW4s	6/20/2019	12:30	11.52	75.84	<|0.05|	0
FG2-MW4s	7/17/2019	10:50	10.27	77.09	<|0.05|	0
FG2-MW4s	8/23/2019	13:05	9.00	78.36	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
FG2-MW4s	9/26/2019	12:07	11.13	76.23	<|0.05|	0
FG2-MW4s	10/25/2019	10:10	12.00	75.36	<|0.05|	0
FG2-MW4s	11/13/2019	13:58	11.60	75.76	<|0.05|	0
FG2-MW4s	12/13/2019	11:56	11.77	75.59	<|0.05|	0
FG2-MW4d	1/30/2012	10:05	9.60	77.31		
FG2-MW4d	2/10/2012	14:57	9.76	77.15		
FG2-MW4d	3/5/2012	11:02	7.70	79.21		
FG2-MW4d	4/9/2012	10:45	10.14	76.77		
FG2-MW4d	5/10/2012	14:15	10.34	76.57		
FG2-MW4d	6/20/2012	9:47	9.69	77.22		
FG2-MW4d	7/9/2012	12:15	9.22	77.69		
FG2-MW4d	8/15/2012	13:26	7.70	79.21		
FG2-MW4d	9/20/2012	11:52	8.49	78.42		
FG2-MW4d	10/19/2012	12:55	9.63	77.28		
FG2-MW4d	12/6/2012	10:36	8.30	78.61		
FG2-MW4d	12/31/2012	9:22	8.30	78.61		
FG2-MW4d	1/15/2013	11:47	8.97	77.94		
FG2-MW4d	2/18/2013	16:30	9.55	77.36		
FG2-MW4d	3/22/2013	15:53	10.21	76.70		
FG2-MW4d	4/17/2013	15:16	11.22	75.69		
FG2-MW4d	5/31/2013	11:53	10.40	76.51		
FG2-MW4d	6/18/2013	10:38	9.95	76.96		
FG2-MW4d	7/15/2013	16:00	8.02	78.89		
FG2-MW4d	8/22/2013	16:19	6.54	80.37		
FG2-MW4d	9/9/2013	11:48	8.38	78.53		
FG2-MW4d	10/7/2013	14:52	8.68	78.23		
FG2-MW4d	11/13/2013	13:05	9.75	77.16		
FG2-MW4d	12/17/2013	15:16	10.21	76.70		
FG2-MW4d	1/14/2014	15:12	10.47	76.44		
FG2-MW4d	2/19/2014	13:56	10.27	76.64		
FG2-MW4d	3/17/2014	13:15	9.97	76.94		
FG2-MW4d	4/19/2014	11:49	8.47	78.44		
FG2-MW4d	5/23/2014	13:55	10.11	76.80		
FG2-MW4d	6/20/2014	15:01	9.33	77.58		
FG2-MW4d	7/17/2014	11:39	6.96	79.95		
FG2-MW4d	8/27/2014	12:23	7.66	79.25		
FG2-MW4d	9/19/2014	11:13	9.74	77.17		
FG2-MW4d	10/14/2014	11:07	10.58	76.33		
FG2-MW4d	11/3/2014	13:40	10.25	76.66		
FG2-MW4d	12/15/2014	15:16	7.90	79.01		
FG2-MW4d	1/13/2015	13:59	8.43	78.48		
FG2-MW4d	2/10/2015	15:58	10.83	76.08		
FG2-MW4d	3/13/2015	11:39	11.78	75.13		
FG2-MW4d	4/17/2015	10:18	12.03	74.88		
FG2-MW4d	5/12/2015	13:46	10.75	76.16		
FG2-MW4d	6/4/2015	11:43	11.48	75.43		
FG2-MW4d	7/20/2015	15:19	9.83	77.08		
FG2-MW4d	8/17/2015	15:34	10.32	76.59		
FG2-MW4d	9/14/2015	13:43	11.53	75.38		
FG2-MW4d	10/16/2015	13:35	12.02	74.89		
FG2-MW4d	11/13/2015	15:26	10.76	76.15		
FG2-MW4d	12/31/2015	15:00	12.29	74.62		
FG2-MW4d	1/16/2016	14:25	12.17	74.74		
FG2-MW4d	2/25/2016	12:47	11.06	75.85		
FG2-MW4d	3/19/2016	7:31	10.54	76.37		
FG2-MW4d	4/18/2016	12:30	12.11	74.80		
FG2-MW4d	5/17/2016	15:57	10.62	76.29		
FG2-MW4d	6/17/2016	12:37	11.31	75.60		
FG2-MW4d	7/22/2016	7:43	8.00	78.91		
FG2-MW4d	8/15/2016	10:25	10.14	76.77		
FG2-MW4d	9/16/2016	12:18	8.30	78.61		
FG2-MW4d	10/14/2016	13:02	10.60	76.31		
FG2-MW4d	11/22/2016	10:09	11.59	75.32		
FG2-MW4d	12/13/2016	16:55	11.97	74.94		
FG2-MW4d	1/26/2017	10:20	9.35	77.56		
FG2-MW4d	2/1/2017		N/M			
FG2-MW4d	3/14/2017	9:40	9.67	77.24		
FG2-MW4d	4/21/2017	14:30	11.57	75.34		
FG2-MW4d	5/18/2017	15:47	12.58	74.33		
FG2-MW4d	6/23/2017	10:54	11.68	75.23		
FG2-MW4d	7/14/2017	11:07	10.11	76.80		
FG2-MW4d	8/23/2017	14:44	9.73	77.18		
FG2-MW4d	9/23/2017	14:59	10.88	76.03		
FG2-MW4d	10/20/2017	11:31	10.53	76.38		
FG2-MW4d	11/20/2017	15:05	11.45	75.46		
FG2-MW4d	12/31/2017	8:39	12.28	74.63		
FG2-MW4d	1/22/2018	15:38	12.31	74.60		
FG2-MW4d	2/23/2018	13:51	11.05	75.86		
FG2-MW4d	3/1/2018		N/M			
FG2-MW4d	4/25/2018	10:35	9.97	76.94		
FG2-MW4d	5/16/2018	8:54	11.62	75.29		
FG2-MW4d	6/14/2018	14:17	10.84	76.07		
FG2-MW4d	7/17/2018	11:26	9.75	77.16		
FG2-MW4d	8/17/2018	13:52	7.12	79.79		
FG2-MW4d	9/12/2018	12:00	8.75	78.16		
FG2-MW4d	10/25/2018	15:30	11.20	75.71		
FG2-MW4d	11/14/2018	13:01	11.45	75.46		
FG2-MW4d	12/14/2018	15:32	11.62	75.29		
FG2-MW4d	1/24/2019	16:35	10.06	76.85		
FG2-MW4d	3/1/2019	7:38	10.19	76.72		
FG2-MW4d	3/17/2019	15:43	7.75	79.16		
FG2-MW4d	4/15/2019	12:12	10.99	75.92		
FG2-MW4d	5/23/2019	8:22	8.51	78.40		
FG2-MW4d	6/20/2019	12:30	11.08	75.83		
FG2-MW4d	7/17/2019	10:50	9.86	77.05		
FG2-MW4d	8/23/2019	13:05	8.59	78.32		
FG2-MW4d	9/26/2019	12:07	10.69	76.22		
FG2-MW4d	10/25/2019	10:10	11.55	75.36		
FG2-MW4d	11/13/2019	13:58	11.15	75.76		
FG2-MW4d	12/13/2019	11:56	11.28	75.63		
FG2-MW5s	1/30/2012	10:07	9.65	73.91	-0.23	-0.01
FG2-MW5s	2/10/2012	14:34	5.91	77.65	<|0.05|	0
FG2-MW5s	3/5/2012	11:09	5.43	78.13	<|0.05|	0
FG2-MW5s	4/9/2012	10:52	6.83	76.73	<|0.05|	0
FG2-MW5s	5/10/2012	14:38	6.30	77.26	<|0.05|	0
FG2-MW5s	6/20/2012	9:23	6.85	76.71	<|0.05|	0
FG2-MW5s	7/9/2012	12:20	6.74	76.82	<|0.05|	0
FG2-MW5s	8/15/2012	12:56	3.83	79.73	<|0.05|	0
FG2-MW5s	9/20/2012	11:40	4.13	79.43	0.08	0.00
FG2-MW5s	10/19/2012	13:00	11.11	72.45	0.13	0.01
FG2-MW5s	12/6/2012	10:21	5.12	78.44	<|0.05|	0
FG2-MW5s	12/31/2012		N/M			
FG2-MW5s	1/15/2013	11:51	5.77	77.79	-0.15	-0.01
FG2-MW5s	2/18/2013	16:15	5.85	77.71	-0.08	-0.00

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
FG2-MW5s	3/22/2013	15:56	5.99	77.57	<|0.05|	0
FG2-MW5s	4/17/2013	15:11	5.55	78.01	<|0.05|	0
FG2-MW5s	5/31/2013	12:19	6.17	77.39	<|0.05|	0
FG2-MW5s	6/18/2013	10:32	6.65	76.91	0.10	0.01
FG2-MW5s	7/15/2013	16:07	1.38	82.18	<|0.05|	0
FG2-MW5s	8/22/2013	16:03	4.67	78.89	<|0.05|	0
FG2-MW5s	9/9/2013	11:44	5.42	78.14	<|0.05|	0
FG2-MW5s	10/7/2013	14:50	1.65	81.91	<|0.05|	0
FG2-MW5s	11/13/2013	13:01	6.00	77.56	<|0.05|	0
FG2-MW5s	12/17/2013	15:11	6.59	76.97	<|0.05|	0
FG2-MW5s	1/14/2014	15:08	6.60	76.96	<|0.05|	0
FG2-MW5s	2/19/2014	13:53	6.19	77.37	<|0.05|	0
FG2-MW5s	3/17/2014	13:10	6.26	77.30	<|0.05|	0
FG2-MW5s	4/19/2014	11:45	5.10	78.46	<|0.05|	0
FG2-MW5s	5/23/2014	13:57	5.78	77.78	<|0.05|	0
FG2-MW5s	6/20/2014	14:57	5.00	78.56	<|0.05|	0
FG2-MW5s	7/17/2014	11:34	3.35	80.21	<|0.05|	0
FG2-MW5s	8/27/2014	12:17	4.15	79.41	<|0.05|	0
FG2-MW5s	9/19/2014	11:07	6.20	77.36	<|0.05|	0
FG2-MW5s	10/14/2014	11:03	6.70	76.86	<|0.05|	0
FG2-MW5s	11/3/2014	14:00	5.98	77.58	<|0.05|	0
FG2-MW5s	12/15/2014	14:33	3.39	80.17	<|0.05|	0
FG2-MW5s	1/13/2015	13:30	5.35	78.21	<|0.05|	0
FG2-MW5s	2/10/2015	15:45	6.42	77.14	<|0.05|	0
FG2-MW5s	3/13/2015	11:35	7.22	76.34	<|0.05|	0
FG2-MW5s	4/17/2015	10:14	3.60	79.96	<|0.05|	0
FG2-MW5s	5/12/2015	13:30	6.35	77.21	<|0.05|	0
FG2-MW5s	6/4/2015	11:39	5.22	78.34	<|0.05|	0
FG2-MW5s	7/20/2015	15:25	5.01	78.55	<|0.05|	0
FG2-MW5s	8/17/2015	15:21	6.05	77.51	<|0.05|	0
FG2-MW5s	9/14/2015	13:50	6.42	77.14	<|0.05|	0
FG2-MW5s	10/16/2015	13:40	6.76	76.80	<|0.05|	0
FG2-MW5s	11/13/2015	15:14	6.27	77.29	<|0.05|	0
FG2-MW5s	12/31/2015	15:04	7.23	76.33	<|0.05|	0
FG2-MW5s	1/16/2016	14:05	7.34	76.22	<|0.05|	0
FG2-MW5s	2/25/2016	12:26	5.92	77.64	<|0.05|	0
FG2-MW5s	3/19/2016	7:23	5.64	77.92	<|0.05|	0
FG2-MW5s	4/18/2016	12:05	7.14	76.42	<|0.05|	0
FG2-MW5s	5/17/2016	15:55	3.85	79.71	<|0.05|	0
FG2-MW5s	6/17/2016	12:19	6.41	77.15	<|0.05|	0
FG2-MW5s	7/22/2016	7:36	4.50	79.06	<|0.05|	0
FG2-MW5s	8/15/2016	10:22	4.59	78.97	<|0.05|	0
FG2-MW5s	9/16/2016	12:01	2.29	81.27	<|0.05|	0
FG2-MW5s	10/14/2016	12:45	6.01	77.55	<|0.05|	0
FG2-MW5s	11/22/2016	10:25	6.92	76.64	<|0.05|	0
FG2-MW5s	12/13/2016	16:40	7.19	76.37	<|0.05|	0
FG2-MW5s	1/26/2017	10:27	4.05	79.51	0.05	0.00
FG2-MW5s	2/1/2017		N/M			
FG2-MW5s	3/14/2017	9:45	5.52	78.04	<|0.05|	0
FG2-MW5s	4/21/2017	14:13	7.24	76.32	<|0.05|	0
FG2-MW5s	5/18/2017	15:50	5.27	78.29	<|0.05|	0
FG2-MW5s	6/23/2017	10:48	6.73	76.83	<|0.05|	0
FG2-MW5s	7/14/2017	10:58	4.43	79.13	<|0.05|	0
FG2-MW5s	8/23/2017	14:58	4.03	79.53	<|0.05|	0
FG2-MW5s	9/23/2017	14:44	6.19	77.37	<|0.05|	0
FG2-MW5s	10/20/2017	11:33	6.54	77.02	<|0.05|	0
FG2-MW5s	11/20/2017	14:52	6.61	76.95	<|0.05|	0
FG2-MW5s	12/31/2017	8:33	7.30	76.26	0.06	0.00
FG2-MW5s	1/22/2018	15:22	7.31	76.25	<|0.05|	0
FG2-MW5s	2/23/2018	14:00	4.58	78.98	<|0.05|	0
FG2-MW5s	3/1/2018		N/M			
FG2-MW5s	4/25/2018	10:31	6.23	77.33	<|0.05|	0
FG2-MW5s	5/16/2018	8:52	6.47	77.09	<|0.05|	0
FG2-MW5s	6/14/2018	14:11	6.41	77.15	<|0.05|	0
FG2-MW5s	7/17/2018	11:10	4.73	78.83	<|0.05|	0
FG2-MW5s	8/17/2018	13:48	3.73	79.83	<|0.05|	0
FG2-MW5s	9/12/2018	11:51	4.45	79.11	<|0.05|	0
FG2-MW5s	10/25/2018	15:25	6.09	77.47	<|0.05|	0
FG2-MW5s	11/14/2018	12:58	6.71	76.85	<|0.05|	0
FG2-MW5s	12/14/2018	15:17	6.32	77.24	<|0.05|	0
FG2-MW5s	1/24/2019	16:19	5.64	77.92	<|0.05|	0
FG2-MW5s	3/1/2019	7:34	5.88	77.68	<|0.05|	0
FG2-MW5s	3/17/2019	15:27	5.71	77.85	<|0.05|	0
FG2-MW5s	4/15/2019	12:06	4.90	78.66	<|0.05|	0
FG2-MW5s	5/23/2019	8:31	4.06	79.50	<|0.05|	0
FG2-MW5s	6/20/2019	12:24	5.00	78.56	<|0.05|	0
FG2-MW5s	7/17/2019	10:45	3.44	80.12	<|0.05|	0
FG2-MW5s	8/23/2019	13:03	4.65	78.91	<|0.05|	0
FG2-MW5s	9/26/2019	12:00	6.18	77.38	0.06	0.00
FG2-MW5s	10/25/2019	10:04	6.88	76.68	<|0.05|	0
FG2-MW5s	11/13/2019	13:55	4.05	79.51	<|0.05|	0
FG2-MW5s	12/13/2019	11:50	4.11	79.45	<|0.05|	0
FG2-MW5d	1/30/2012	10:08	9.21	74.14		
FG2-MW5d	2/10/2012	14:35	5.70	77.65		
FG2-MW5d	3/5/2012	11:10	5.23	78.12		
FG2-MW5d	4/9/2012	10:51	6.65	76.70		
FG2-MW5d	5/10/2012	14:38	6.10	77.25		
FG2-MW5d	6/20/2012	9:24	6.63	76.72		
FG2-MW5d	7/9/2012	12:19	6.55	76.80		
FG2-MW5d	8/15/2012	12:57	3.66	79.69		
FG2-MW5d	9/20/2012	11:40	4.00	79.35		
FG2-MW5d	10/19/2012	13:00	11.03	72.32		
FG2-MW5d	12/6/2012	10:21	4.92	78.43		
FG2-MW5d	12/31/2012		N/M			
FG2-MW5d	1/15/2013	11:51	5.41	77.94		
FG2-MW5d	2/18/2013	16:15	5.56	77.79		
FG2-MW5d	3/22/2013	15:56	5.79	77.56		
FG2-MW5d	4/17/2013	15:11	5.36	77.99		
FG2-MW5d	5/31/2013	12:19	5.95	77.40		
FG2-MW5d	6/18/2013	10:33	6.54	76.81		
FG2-MW5d	7/15/2013	16:07	1.18	82.17		
FG2-MW5d	8/22/2013	16:03	4.48	78.87		
FG2-MW5d	9/9/2013	11:44	5.22	78.13		
FG2-MW5d	10/7/2013	14:50	1.43	81.92		
FG2-MW5d	11/13/2013	13:01	5.82	77.53		
FG2-MW5d	12/17/2013	15:11	6.37	76.98		
FG2-MW5d	1/14/2014	15:08	6.40	76.95		
FG2-MW5d	2/19/2014	13:53	6.01	77.34		
FG2-MW5d	3/17/2014	13:10	6.10	77.25		
FG2-MW5d	4/19/2014	11:45	4.90	78.45		
FG2-MW5d	5/23/2014	13:57	5.60	77.75		
FG2-MW5d	6/20/2014	14:57	4.83	78.52		
FG2-MW5d	7/17/2014	11:34	3.19	80.16		
FG2-MW5d	8/27/2014	12:17	3.95	79.40		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
FG2-MW5d	9/19/2014	11:07	6.01	77.34		
FG2-MW5d	10/14/2014	11:03	6.46	76.89		
FG2-MW5d	11/3/2014	14:00	5.80	77.55		
FG2-MW5d	12/15/2014	14:33	3.21	80.14		
FG2-MW5d	1/13/2015	13:30	5.14	78.21		
FG2-MW5d	2/10/2015	15:45	6.23	77.12		
FG2-MW5d	3/13/2015	11:35	7.02	76.33		
FG2-MW5d	4/17/2015	10:14	3.41	79.94		
FG2-MW5d	5/12/2015	13:30	6.16	77.19		
FG2-MW5d	6/4/2015	11:39	5.00	78.35		
FG2-MW5d	7/20/2015	15:25	4.80	78.55		
FG2-MW5d	8/17/2015	15:21	5.81	77.54		
FG2-MW5d	9/14/2015	13:50	6.24	77.11		
FG2-MW5d	10/16/2015	13:40	6.55	76.80		
FG2-MW5d	11/13/2015	15:14	6.06	77.29		
FG2-MW5d	12/31/2015	15:05	7.05	76.30		
FG2-MW5d	1/16/2016	14:06	7.12	76.23		
FG2-MW5d	2/25/2016	12:27	5.72	77.63		
FG2-MW5d	3/19/2016	7:23	5.44	77.91		
FG2-MW5d	4/18/2016	12:06	6.95	76.40		
FG2-MW5d	5/17/2016	15:56	3.66	79.69		
FG2-MW5d	6/17/2016	12:20	6.23	77.12		
FG2-MW5d	7/22/2016	7:36	4.33	79.02		
FG2-MW5d	8/15/2016	10:23	4.36	78.99		
FG2-MW5d	9/16/2016	12:02	2.12	81.23		
FG2-MW5d	10/14/2016	12:46	5.81	77.54		
FG2-MW5d	11/22/2016	10:26	6.73	76.62		
FG2-MW5d	12/13/2016	16:41	7.02	76.33		
FG2-MW5d	1/26/2017	10:28	3.89	79.46		
FG2-MW5d	2/1/2017		N/M			
FG2-MW5d	3/14/2017	9:45	5.32	78.03		
FG2-MW5d	4/21/2017	14:14	7.06	76.29		
FG2-MW5d	5/18/2017	15:50	5.08	78.27		
FG2-MW5d	6/23/2017	10:48	6.53	76.82		
FG2-MW5d	7/14/2017	10:58	4.25	79.10		
FG2-MW5d	8/23/2017	14:58	3.82	79.53		
FG2-MW5d	9/23/2017	14:45	6.01	77.34		
FG2-MW5d	10/20/2017	11:34	6.34	77.01		
FG2-MW5d	11/20/2017	14:53	6.45	76.90		
FG2-MW5d	12/31/2017	8:33	7.15	76.20		
FG2-MW5d	1/22/2018	15:21	7.12	76.23		
FG2-MW5d	2/23/2018	14:00	4.38	78.97		
FG2-MW5d	3/1/2018		N/M			
FG2-MW5d	4/25/2018	10:31	6.07	77.28		
FG2-MW5d	5/16/2018	8:52	6.30	77.05		
FG2-MW5d	6/14/2018	14:11	6.24	77.11		
FG2-MW5d	7/17/2018	11:09	4.54	78.81		
FG2-MW5d	8/17/2018	13:49	3.53	79.82		
FG2-MW5d	9/12/2018	11:51	4.25	79.10		
FG2-MW5d	10/25/2018	15:25	5.92	77.43		
FG2-MW5d	11/14/2018	12:57	6.51	76.84		
FG2-MW5d	12/14/2018	15:18	6.10	77.25		
FG2-MW5d	1/24/2019	16:20	5.43	77.92		
FG2-MW5d	3/1/2019	7:34	5.71	77.64		
FG2-MW5d	3/17/2019	15:28	5.50	77.85		
FG2-MW5d	4/15/2019	12:06	4.68	78.67		
FG2-MW5d	5/23/2019	8:31	3.90	79.45		
FG2-MW5d	6/20/2019	12:24	4.80	78.55		
FG2-MW5d	7/17/2019	10:45	3.26	80.09		
FG2-MW5d	8/23/2019	13:04	4.48	78.87		
FG2-MW5d	9/26/2019	12:00	6.03	77.32		
FG2-MW5d	10/25/2019	10:04	6.67	76.68		
FG2-MW5d	11/13/2019	13:55	3.82	79.53		
FG2-MW5d	12/13/2019	11:50	3.91	79.44		
GOD-MW1s	1/30/2012	15:33	8.71	89.46	<|0.05|	0
GOD-MW1s	2/9/2012	10:54	8.66	89.51	<|0.05|	0
GOD-MW1s	3/5/2012	9:15	7.21	90.96	0.19	0.01
GOD-MW1s	4/9/2012	13:43	7.06	91.11	<|0.05|	0
GOD-MW1s	5/9/2012	17:23	7.70	90.47	<|0.05|	0
GOD-MW1s	6/20/2012	13:24	7.05	91.12	<|0.05|	0
GOD-MW1s	7/11/2012	13:28	8.19	89.98	<|0.05|	0
GOD-MW1s	8/20/2012	15:10	6.23	91.94	<|0.05|	0
GOD-MW1s	9/20/2012	9:18	7.12	91.05	<|0.05|	0
GOD-MW1s	10/19/2012	10:52	9.12	89.05	<|0.05|	0
GOD-MW1s	12/3/2012	13:27	9.86	88.31	<|0.05|	0
GOD-MW1s	12/31/2012	12:07	9.70	88.47	<|0.05|	0
GOD-MW1s	1/15/2013	10:59	9.58	88.59	<|0.05|	0
GOD-MW1s	2/16/2013	17:52	8.61	89.56	<|0.05|	0
GOD-MW1s	3/19/2013	9:44	6.96	91.21	<|0.05|	0
GOD-MW1s	4/17/2013	12:03	8.19	89.98	<|0.05|	0
GOD-MW1s	5/29/2013	17:22	7.55	90.62	<|0.05|	0
GOD-MW1s	6/18/2013	14:07	8.08	90.09	<|0.05|	0
GOD-MW1s	7/15/2013	12:16	7.65	90.52	<|0.05|	0
GOD-MW1s	8/21/2013	9:20	7.34	90.83	<|0.05|	0
GOD-MW1s	9/9/2013	9:06	8.17	90.00	<|0.05|	0
GOD-MW1s	10/7/2013	11:41	8.80	89.37	<|0.05|	0
GOD-MW1s	11/11/2013	14:02	10.22	87.95	<|0.05|	0
GOD-MW1s	12/17/2013	11:33	10.18	87.99	<|0.05|	0
GOD-MW1s	1/13/2014	10:47	10.57	87.60	<|0.05|	0
GOD-MW1s	2/17/2014	10:30	10.29	87.88	<|0.05|	0
GOD-MW1s	3/17/2014	9:50	9.09	89.08	<|0.05|	0
GOD-MW1s	4/19/2014	9:23	9.00	89.17	<|0.05|	0
GOD-MW1s	5/21/2014	8:25	8.47	89.70	<|0.05|	0
GOD-MW1s	6/20/2014	12:28	8.20	89.97	<|0.05|	0
GOD-MW1s	7/16/2014	16:26	7.69	90.48	0.98	0.06
GOD-MW1s	8/29/2014	12:23	8.38	89.79	<|0.05|	0
GOD-MW1s	9/19/2014	14:10	8.50	89.67	<|0.05|	0
GOD-MW1s	10/14/2014	8:19	9.48	88.69	<|0.05|	0
GOD-MW1s	11/10/2014	13:07	10.28	87.89	<|0.05|	0
GOD-MW1s	12/15/2014	10:03	9.38	88.79	<|0.05|	0
GOD-MW1s	1/13/2015	10:15	9.80	88.37	<|0.05|	0
GOD-MW1s	2/5/2015	9:28	10.08	88.09	-0.23	-0.01
GOD-MW1s	3/13/2015	8:38	9.02	89.15	<|0.05|	0
GOD-MW1s	4/17/2015	7:49	9.12	89.05	<|0.05|	0
GOD-MW1s	5/11/2015	9:00	8.35	89.82	<|0.05|	0
GOD-MW1s	6/4/2015	8:11	7.79	90.38	<|0.05|	0
GOD-MW1s	7/20/2015	11:18	9.45	88.72	<|0.05|	0
GOD-MW1s	8/13/2015	11:34	9.28	88.89	<|0.05|	0
GOD-MW1s	9/14/2015	17:54	9.81	88.36	<|0.05|	0
GOD-MW1s	10/16/2015	16:58	11.03	87.14	<|0.05|	0
GOD-MW1s	11/12/2015	9:54	11.73	86.44	<|0.05|	0
GOD-MW1s	12/31/2015	12:48	12.55	85.62	<|0.05|	0
GOD-MW1s	1/16/2016	17:51	12.61	85.56	<|0.05|	0
GOD-MW1s	2/26/2016	14:14	12.63	85.54	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
GOD-MW1s	3/19/2016	11:17	11.84	86.33	<|0.05|	0
GOD-MW1s	4/18/2016	15:24	10.56	87.61	0.17	0.01
GOD-MW1s	5/16/2016	9:24	11.08	87.09	0.19	0.01
GOD-MW1s	6/17/2016	9:28	9.66	88.51	0.18	0.01
GOD-MW1s	7/22/2016	11:19	9.60	88.57	<|0.05|	0
GOD-MW1s	8/16/2016	9:49	9.63	88.54	<|0.05|	0
GOD-MW1s	9/16/2016	15:18	10.05	88.12	<|0.05|	0
GOD-MW1s	10/14/2016	15:56	11.64	86.53	<|0.05|	0
GOD-MW1s	11/21/2016	9:30	12.44	85.73	<|0.05|	0
GOD-MW1s	12/13/2016	14:13	12.65	85.52	<|0.05|	0
GOD-MW1s	1/26/2017	13:31	12.47	85.70	<|0.05|	0
GOD-MW1s	2/1/2017		N/M			
GOD-MW1s	3/13/2017	10:36	10.04	88.13	<|0.05|	0
GOD-MW1s	4/21/2017	11:49	9.71	88.46	<|0.05|	0
GOD-MW1s	5/16/2017	9:28	9.72	88.45	<|0.05|	0
GOD-MW1s	6/23/2017	7:57	7.39	90.78	<|0.05|	0
GOD-MW1s	7/14/2017	7:58	7.33	90.84	<|0.05|	0
GOD-MW1s	8/22/2017	8:00	6.88	91.29	<|0.05|	0
GOD-MW1s	9/23/2017	12:10	8.31	89.86	<|0.05|	0
GOD-MW1s	10/20/2017	14:01	9.48	88.69	<|0.05|	0
GOD-MW1s	11/14/2017	10:35	9.91	88.26	<|0.05|	0
GOD-MW1s	12/31/2017	11:32	10.18	87.99	<|0.05|	0
GOD-MW1s	1/22/2018	12:11	10.22	87.95	<|0.05|	0
GOD-MW1s	2/23/2018	14:37	8.52	89.65	<|0.05|	0
GOD-MW1s	3/1/2018		N/M			
GOD-MW1s	4/25/2018	12:58	7.73	90.44	<|0.05|	0
GOD-MW1s	5/16/2018	16:48	7.72	90.45	<|0.05|	0
GOD-MW1s	6/14/2018	12:39	5.84	92.33	<|0.05|	0
GOD-MW1s	7/17/2018	13:59	6.38	91.79	<|0.05|	0
GOD-MW1s	8/15/2018	15:30	7.44	90.73	<|0.05|	0
GOD-MW1s	9/12/2018	9:12	6.24	91.93	<|0.05|	0
GOD-MW1s	10/25/2018	12:46	9.65	88.52	<|0.05|	0
GOD-MW1s	11/14/2018	15:57	9.88	88.29	<|0.05|	0
GOD-MW1s	12/14/2018	12:50	10.18	87.99	<|0.05|	0
GOD-MW1s	1/24/2019	13:30	10.08	88.09	<|0.05|	0
GOD-MW1s	2/28/2019	12:46	7.80	90.37	<|0.05|	0
GOD-MW1s	3/17/2019	13:12	7.77	90.40	<|0.05|	0
GOD-MW1s	4/15/2019	8:56	5.92	92.25	<|0.05|	0
GOD-MW1s	5/21/2019	7:50	4.62	93.55	<|0.05|	0
GOD-MW1s	6/20/2019	9:01	5.52	92.65	0.05	0.00
GOD-MW1s	7/17/2019	7:51	4.63	93.54	<|0.05|	0
GOD-MW1s	8/14/2019	7:45	6.20	91.97	<|0.05|	0
GOD-MW1s	9/26/2019	9:00	7.58	90.59	<|0.05|	0
GOD-MW1s	10/24/2019	13:05	8.40	89.77	<|0.05|	0
GOD-MW1s	11/14/2019	8:20	8.74	89.43	<|0.05|	0
GOD-MW1s	12/13/2019	9:40	6.53	91.64	<|0.05|	0
GOD-MW1d	1/30/2012	15:33	8.64	89.44		
GOD-MW1d	2/9/2012	10:56	8.59	89.49		
GOD-MW1d	3/5/2012	9:16	7.31	90.77		
GOD-MW1d	4/9/2012	13:44	6.98	91.10		
GOD-MW1d	5/9/2012	17:24	7.60	90.48		
GOD-MW1d	6/20/2012	13:25	6.97	91.11		
GOD-MW1d	7/11/2012	13:28	8.08	90.00		
GOD-MW1d	8/20/2012	15:11	6.18	91.90		
GOD-MW1d	9/20/2012	9:18	6.98	91.10		
GOD-MW1d	10/19/2012	10:52	9.07	89.01		
GOD-MW1d	12/3/2012	13:27	9.79	88.29		
GOD-MW1d	12/31/2012	12:08	9.63	88.45		
GOD-MW1d	1/15/2013	10:59	9.49	88.59		
GOD-MW1d	2/16/2013	17:52	8.50	89.58		
GOD-MW1d	3/19/2013	9:44	6.86	91.22		
GOD-MW1d	4/17/2013	12:03	8.10	89.98		
GOD-MW1d	5/29/2013	17:22	7.46	90.62		
GOD-MW1d	6/18/2013	14:09	7.95	90.13		
GOD-MW1d	7/15/2013	12:16	7.55	90.53		
GOD-MW1d	8/21/2013	9:20	7.24	90.84		
GOD-MW1d	9/9/2013	9:06	8.08	90.00		
GOD-MW1d	10/7/2013	11:41	8.72	89.36		
GOD-MW1d	11/11/2013	14:02	10.13	87.95		
GOD-MW1d	12/17/2013	11:33	10.09	87.99		
GOD-MW1d	1/13/2014	10:47	10.47	87.61		
GOD-MW1d	2/17/2014	10:30	10.19	87.89		
GOD-MW1d	3/17/2014	9:50	9.00	89.08		
GOD-MW1d	4/19/2014	9:23	8.95	89.13		
GOD-MW1d	5/21/2014	8:26	8.37	89.71		
GOD-MW1d	6/20/2014	12:28	8.14	89.94		
GOD-MW1d	7/16/2014	16:26	8.58	89.50		
GOD-MW1d	8/29/2014	12:23	8.26	89.82		
GOD-MW1d	9/19/2014	14:10	8.40	89.68		
GOD-MW1d	10/14/2014	8:19	9.40	88.68		
GOD-MW1d	11/10/2014	13:07	10.23	87.85		
GOD-MW1d	12/15/2014	10:03	9.33	88.75		
GOD-MW1d	1/13/2015	10:15	9.71	88.37		
GOD-MW1d	2/5/2015	9:28	9.76	88.32		
GOD-MW1d	3/13/2015	8:38	8.93	89.15		
GOD-MW1d	4/17/2015	7:49	9.05	89.03		
GOD-MW1d	5/11/2015	9:00	8.28	89.80		
GOD-MW1d	6/4/2015	8:11	7.69	90.39		
GOD-MW1d	7/20/2015	11:18	9.32	88.76		
GOD-MW1d	8/13/2015	11:35	9.21	88.87		
GOD-MW1d	9/14/2015	17:54	9.75	88.33		
GOD-MW1d	10/16/2015	16:58	10.96	87.12		
GOD-MW1d	11/12/2015	9:54	11.65	86.43		
GOD-MW1d	12/31/2015	12:49	12.45	85.63		
GOD-MW1d	1/16/2016	17:50	12.52	85.56		
GOD-MW1d	2/26/2016	14:15	12.54	85.54		
GOD-MW1d	3/19/2016	11:17	11.75	86.33		
GOD-MW1d	4/18/2016	15:25	10.64	87.44		
GOD-MW1d	5/16/2016	9:25	11.18	86.90		
GOD-MW1d	6/17/2016	9:29	9.75	88.33		
GOD-MW1d	7/22/2016	11:19	9.51	88.57		
GOD-MW1d	8/16/2016	9:50	9.50	88.58		
GOD-MW1d	9/16/2016	15:17	9.96	88.12		
GOD-MW1d	10/14/2016	15:57	11.57	86.51		
GOD-MW1d	11/21/2016	9:31	12.35	85.73		
GOD-MW1d	12/13/2016	14:14	12.59	85.49		
GOD-MW1d	1/26/2017	13:32	12.39	85.69		
GOD-MW1d	2/1/2017		N/M			
GOD-MW1d	3/13/2017	10:36	9.91	88.17		
GOD-MW1d	4/21/2017	11:50	9.64	88.44		
GOD-MW1d	5/16/2017	9:28	9.61	88.47		
GOD-MW1d	6/23/2017	7:57	7.28	90.80		
GOD-MW1d	7/14/2017	7:58	7.26	90.82		
GOD-MW1d	8/22/2017	8:00	6.81	91.27		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
GOD-MW1d	9/23/2017	12:11	8.21	89.87		
GOD-MW1d	10/20/2017	14:02	9.37	88.71		
GOD-MW1d	11/14/2017	10:36	9.82	88.26		
GOD-MW1d	12/31/2017	11:33	10.10	87.98		
GOD-MW1d	1/22/2018	12:12	10.14	87.94		
GOD-MW1d	2/23/2018	14:37	8.45	89.63		
GOD-MW1d	3/1/2018		N/M			
GOD-MW1d	4/25/2018	12:58	7.62	90.46		
GOD-MW1d	5/16/2018	16:48	7.65	90.43		
GOD-MW1d	6/14/2018	12:39	5.74	92.34		
GOD-MW1d	7/17/2018	14:00	6.32	91.76		
GOD-MW1d	8/15/2018	15:30	7.35	90.73		
GOD-MW1d	9/12/2018	9:12	6.12	91.96		
GOD-MW1d	10/25/2018	12:46	9.56	88.52		
GOD-MW1d	11/14/2018	15:58	9.79	88.29		
GOD-MW1d	12/14/2018	12:51	10.08	88.00		
GOD-MW1d	1/24/2019	13:31	10.00	88.08		
GOD-MW1d	2/28/2019	12:46	7.68	90.40		
GOD-MW1d	3/17/2019	13:13	7.68	90.40		
GOD-MW1d	4/15/2019	8:56	5.87	92.21		
GOD-MW1d	5/21/2019	7:50	4.53	93.55		
GOD-MW1d	6/20/2019	9:01	5.48	92.60		
GOD-MW1d	7/17/2019	7:51	4.55	93.53		
GOD-MW1d	8/14/2019	7:45	6.12	91.96		
GOD-MW1d	9/26/2019	9:00	7.50	90.58		
GOD-MW1d	10/24/2019	13:05	8.32	89.76		
GOD-MW1d	11/14/2019	8:20	8.65	89.43		
GOD-MW1d	12/13/2019	9:40	6.43	91.65		
GOD-MW2s	1/30/2012	15:40	10.99	91.41	<|0.05|	0
GOD-MW2s	2/9/2012	11:42	11.14	91.26	<|0.05|	0
GOD-MW2s	3/5/2012	9:19	10.71	91.69	<|0.05|	0
GOD-MW2s	4/9/2012	13:24	10.23	92.17	-0.11	-0.01
GOD-MW2s	5/9/2012	16:32	10.80	91.60	<|0.05|	0
GOD-MW2s	6/20/2012	13:41	10.15	92.25	<|0.05|	0
GOD-MW2s	7/11/2012	13:17	11.11	91.29	<|0.05|	0
GOD-MW2s	8/20/2012	15:18	10.23	92.17	<|0.05|	0
GOD-MW2s	9/20/2012	9:27	11.12	91.28	<|0.05|	0
GOD-MW2s	10/19/2012	10:41	12.22	90.18	<|0.05|	0
GOD-MW2s	12/3/2012	13:33	12.94	89.46	<|0.05|	0
GOD-MW2s	12/31/2012	11:58	12.90	89.50	<|0.05|	0
GOD-MW2s	1/15/2013	10:53	12.75	89.65	<|0.05|	0
GOD-MW2s	2/16/2013	17:46	13.10	89.30	<|0.05|	0
GOD-MW2s	3/19/2013	9:30	11.43	90.97	<|0.05|	0
GOD-MW2s	4/17/2013	11:49	11.25	91.15	<|0.05|	0
GOD-MW2s	5/29/2013	17:17	11.24	91.16	<|0.05|	0
GOD-MW2s	6/18/2013	13:48	11.67	90.73	<|0.05|	0
GOD-MW2s	7/15/2013	12:05	9.50	92.90	<|0.05|	0
GOD-MW2s	8/21/2013	9:09	10.73	91.67	<|0.05|	0
GOD-MW2s	9/9/2013	9:17	11.63	90.77	<|0.05|	0
GOD-MW2s	10/7/2013	11:30	12.25	90.15	<|0.05|	0
GOD-MW2s	11/11/2013	13:48	12.78	89.62	<|0.05|	0
GOD-MW2s	12/17/2013	11:22	13.43	88.97	<|0.05|	0
GOD-MW2s	1/13/2014	10:50	13.72	88.68	<|0.05|	0
GOD-MW2s	2/17/2014	10:20	14.07	88.33	0.10	0.01
GOD-MW2s	3/17/2014	9:36	13.14	89.26	<|0.05|	0
GOD-MW2s	4/19/2014	9:12	12.47	89.93	<|0.05|	0
GOD-MW2s	5/21/2014	9:00	12.99	89.41	<|0.05|	0
GOD-MW2s	6/20/2014	12:17	12.80	89.60	<|0.05|	0
GOD-MW2s	7/16/2014	16:14	11.74	90.66	<|0.05|	0
GOD-MW2s	8/29/2014	12:13	13.13	89.27	<|0.05|	0
GOD-MW2s	9/19/2014	13:58	11.97	90.43	<|0.05|	0
GOD-MW2s	10/14/2014	8:09	13.54	88.86	<|0.05|	0
GOD-MW2s	11/10/2014	12:55	13.33	89.07	<|0.05|	0
GOD-MW2s	12/15/2014	9:47	11.35	91.05	<|0.05|	0
GOD-MW2s	1/13/2015	10:02	12.48	89.92	<|0.05|	0
GOD-MW2s	2/5/2015	9:19	13.32	89.08	<|0.05|	0
GOD-MW2s	3/13/2015	8:48	14.33	88.07	<|0.05|	0
GOD-MW2s	4/17/2015	7:43	13.32	89.08	<|0.05|	0
GOD-MW2s	5/11/2015	8:48	13.68	88.72	<|0.05|	0
GOD-MW2s	6/4/2015	8:22	14.44	87.96	<|0.05|	0
GOD-MW2s	7/20/2015	11:01	14.53	87.87	<|0.05|	0
GOD-MW2s	8/13/2015	11:15	15.07	87.33	<|0.05|	0
GOD-MW2s	9/14/2015	17:40	15.63	86.77	<|0.05|	0
GOD-MW2s	10/16/2015	16:47	16.15	86.25	<|0.05|	0
GOD-MW2s	11/12/2015	9:28	16.54	85.86	<|0.05|	0
GOD-MW2s	12/31/2015	12:39	16.96	85.44	<|0.05|	0
GOD-MW2s	1/16/2016	17:32	17.01	85.39	<|0.05|	0
GOD-MW2s	2/26/2016	14:06	16.64	85.76	<|0.05|	0
GOD-MW2s	3/19/2016	11:03	16.16	86.24	<|0.05|	0
GOD-MW2s	4/18/2016	15:16	15.83	86.57	<|0.05|	0
GOD-MW2s	5/16/2016	9:13	15.34	87.06	<|0.05|	0
GOD-MW2s	6/17/2016	9:19	14.96	87.44	<|0.05|	0
GOD-MW2s	7/22/2016	10:58	15.59	86.81	<|0.05|	0
GOD-MW2s	8/16/2016	9:40	14.90	87.50	<|0.05|	0
GOD-MW2s	9/16/2016	15:10	14.70	87.70	<|0.05|	0
GOD-MW2s	10/14/2016	15:48	15.25	87.15	<|0.05|	0
GOD-MW2s	11/21/2016	9:38	16.09	86.31	<|0.05|	0
GOD-MW2s	12/13/2016	14:07	16.44	85.96	<|0.05|	0
GOD-MW2s	1/26/2017	13:23	15.50	86.90	<|0.05|	0
GOD-MW2s	2/1/2017		N/M			
GOD-MW2s	3/13/2017	10:21	12.64	89.76	<|0.05|	0
GOD-MW2s	4/21/2017	11:44	12.90	89.50	<|0.05|	0
GOD-MW2s	5/16/2017	9:20	13.02	89.38	<|0.05|	0
GOD-MW2s	6/23/2017	8:08	13.23	89.17	<|0.05|	0
GOD-MW2s	7/14/2017	8:10	12.37	90.03	<|0.05|	0
GOD-MW2s	8/22/2017	7:51	12.16	90.24	<|0.05|	0
GOD-MW2s	9/23/2017	12:03	12.51	89.89	<|0.05|	0
GOD-MW2s	10/20/2017	13:55	13.34	89.06	<|0.05|	0
GOD-MW2s	11/14/2017	10:16	13.36	89.04	<|0.05|	0
GOD-MW2s	12/31/2017	11:22	13.12	89.28	<|0.05|	0
GOD-MW2s	1/22/2018	12:00	13.29	89.11	<|0.05|	0
GOD-MW2s	2/23/2018	14:25	12.57	89.83	<|0.05|	0
GOD-MW2s	3/1/2018		N/M			
GOD-MW2s	4/25/2018	12:44	10.92	91.48	<|0.05|	0
GOD-MW2s	5/16/2018	16:39	11.72	90.68	<|0.05|	0
GOD-MW2s	6/14/2018	12:26	11.72	90.68	<|0.05|	0
GOD-MW2s	7/17/2018	13:52	11.52	90.88	<|0.05|	0
GOD-MW2s	8/15/2018	15:25	11.60	90.80	<|0.05|	0
GOD-MW2s	9/12/2018	9:24	10.50	91.90	<|0.05|	0
GOD-MW2s	10/25/2018	12:57	12.88	89.52	<|0.05|	0
GOD-MW2s	11/14/2018	15:50	11.98	90.42	<|0.05|	0
GOD-MW2s	12/14/2018	12:42	12.11	90.29	<|0.05|	0
GOD-MW2s	1/24/2019	13:22	12.39	90.01	<|0.05|	0
GOD-MW2s	2/28/2019	12:31	11.78	90.62	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
GOD-MW2s	3/17/2019	13:05	11.60	90.80	<|0.05|	0
GOD-MW2s	4/15/2019	9:13	8.58	93.82	<|0.05|	0
GOD-MW2s	5/21/2019	7:40	10.54	91.86	<|0.05|	0
GOD-MW2s	6/20/2019	9:22	10.02	92.38	<|0.05|	0
GOD-MW2s	7/17/2019	8:02	9.23	93.17	<|0.05|	0
GOD-MW2s	8/14/2019	7:33	10.25	92.15	<|0.05|	0
GOD-MW2s	9/26/2019	9:20	9.88	92.52	<|0.05|	0
GOD-MW2s	10/24/2019	13:20	11.88	90.52	<|0.05|	0
GOD-MW2s	11/14/2019	8:05	12.20	90.20	<|0.05|	0
GOD-MW2s	12/13/2019	9:49	10.96	91.44	<|0.05|	0
GOD-MW2d	1/30/2012	15:40	10.90	91.40		
GOD-MW2d	2/9/2012	11:43	11.02	91.28		
GOD-MW2d	3/5/2012	9:20	10.59	91.71		
GOD-MW2d	4/9/2012	13:25	10.02	92.28		
GOD-MW2d	5/9/2012	16:33	10.71	91.59		
GOD-MW2d	6/20/2012	13:42	10.06	92.24		
GOD-MW2d	7/11/2012	13:17	10.98	91.32		
GOD-MW2d	8/20/2012	15:18	10.15	92.15		
GOD-MW2d	9/20/2012	9:27	11.03	91.27		
GOD-MW2d	10/19/2012	10:41	12.15	90.15		
GOD-MW2d	12/3/2012	13:33	12.85	89.45		
GOD-MW2d	12/31/2012	11:59	12.82	89.48		
GOD-MW2d	1/15/2013	10:53	12.65	89.65		
GOD-MW2d	2/16/2013	17:46	13.00	89.30		
GOD-MW2d	3/19/2013	9:30	11.33	90.97		
GOD-MW2d	4/17/2013	11:49	11.17	91.13		
GOD-MW2d	5/29/2013	17:18	11.18	91.12		
GOD-MW2d	6/18/2013	13:50	11.56	90.74		
GOD-MW2d	7/15/2013	12:05	9.38	92.92		
GOD-MW2d	8/21/2013	9:09	10.63	91.67		
GOD-MW2d	9/9/2013	9:17	11.53	90.77		
GOD-MW2d	10/7/2013	11:30	12.17	90.13		
GOD-MW2d	11/11/2013	13:48	12.72	89.58		
GOD-MW2d	12/17/2013	11:22	13.34	88.96		
GOD-MW2d	1/13/2014	10:50	13.63	88.67		
GOD-MW2d	2/17/2014	10:20	14.07	88.23		
GOD-MW2d	3/17/2014	9:36	13.01	89.29		
GOD-MW2d	4/19/2014	9:12	12.36	89.94		
GOD-MW2d	5/21/2014	9:00	12.90	89.40		
GOD-MW2d	6/20/2014	12:17	12.70	89.60		
GOD-MW2d	7/16/2014	16:14	11.65	90.65		
GOD-MW2d	8/29/2014	12:13	13.02	89.28		
GOD-MW2d	9/19/2014	13:58	11.90	90.40		
GOD-MW2d	10/14/2014	8:09	13.45	88.85		
GOD-MW2d	11/10/2014	12:55	13.25	89.05		
GOD-MW2d	12/15/2014	9:47	11.22	91.08		
GOD-MW2d	1/13/2015	10:02	12.40	89.90		
GOD-MW2d	2/5/2015	9:19	13.23	89.07		
GOD-MW2d	3/13/2015	8:48	14.22	88.08		
GOD-MW2d	4/17/2015	7:43	13.22	89.08		
GOD-MW2d	5/11/2015	8:48	13.58	88.72		
GOD-MW2d	6/4/2015	8:22	14.38	87.92		
GOD-MW2d	7/20/2015	11:01	14.42	87.88		
GOD-MW2d	8/13/2015	11:17	14.95	87.35		
GOD-MW2d	9/14/2015	17:41	15.54	86.76		
GOD-MW2d	10/16/2015	16:47	16.06	86.24		
GOD-MW2d	11/12/2015	9:28	16.43	85.87		
GOD-MW2d	12/31/2015	12:40	16.86	85.44		
GOD-MW2d	1/16/2016	17:33	16.92	85.38		
GOD-MW2d	2/26/2016	14:05	16.55	85.75		
GOD-MW2d	3/19/2016	11:03	16.09	86.21		
GOD-MW2d	4/18/2016	15:17	15.74	86.56		
GOD-MW2d	5/16/2016	9:14	15.23	87.07		
GOD-MW2d	6/17/2016	9:20	14.86	87.44		
GOD-MW2d	7/22/2016	10:58	15.48	86.82		
GOD-MW2d	8/16/2016	9:41	14.76	87.54		
GOD-MW2d	9/16/2016	15:11	14.60	87.70		
GOD-MW2d	10/14/2016	15:49	15.14	87.16		
GOD-MW2d	11/21/2016	9:39	15.99	86.31		
GOD-MW2d	12/13/2016	14:08	16.36	85.94		
GOD-MW2d	1/26/2017	13:24	15.40	86.90		
GOD-MW2d	2/1/2017		N/M			
GOD-MW2d	3/13/2017	10:21	12.53	89.77		
GOD-MW2d	4/21/2017	11:45	12.83	89.47		
GOD-MW2d	5/16/2017	9:20	12.96	89.34		
GOD-MW2d	6/23/2017	8:08	13.13	89.17		
GOD-MW2d	7/14/2017	8:10	12.28	90.02		
GOD-MW2d	8/22/2017	7:51	12.09	90.21		
GOD-MW2d	9/23/2017	12:04	12.41	89.89		
GOD-MW2d	10/20/2017	13:56	13.26	89.04		
GOD-MW2d	11/14/2017	10:20	13.26	89.04		
GOD-MW2d	12/31/2017	11:23	13.02	89.28		
GOD-MW2d	1/22/2018	12:01	13.16	89.14		
GOD-MW2d	2/23/2018	14:25	12.45	89.85		
GOD-MW2d	3/1/2018		N/M			
GOD-MW2d	4/25/2018	12:44	10.83	91.47		
GOD-MW2d	5/16/2018	16:39	11.63	90.67		
GOD-MW2d	6/14/2018	12:27	11.63	90.67		
GOD-MW2d	7/17/2018	13:53	11.39	90.91		
GOD-MW2d	8/15/2018	15:25	11.49	90.81		
GOD-MW2d	9/12/2018	9:24	10.39	91.91		
GOD-MW2d	10/25/2018	12:57	12.80	89.50		
GOD-MW2d	11/14/2018	15:50	11.90	90.40		
GOD-MW2d	12/14/2018	12:43	12.02	90.28		
GOD-MW2d	1/24/2019	13:23	12.30	90.00		
GOD-MW2d	2/28/2019	12:31	11.68	90.62		
GOD-MW2d	3/17/2019	13:06	11.50	90.80		
GOD-MW2d	4/15/2019	9:13	8.50	93.80		
GOD-MW2d	5/21/2019	7:40	10.43	91.87		
GOD-MW2d	6/20/2019	9:22	9.94	92.36		
GOD-MW2d	7/17/2019	8:02	9.13	93.17		
GOD-MW2d	8/14/2019	7:33	10.13	92.17		
GOD-MW2d	9/26/2019	9:20	9.78	92.52		
GOD-MW2d	10/24/2019	13:20	11.77	90.53		
GOD-MW2d	11/14/2019	8:05	12.12	90.18		
GOD-MW2d	12/13/2019	9:49	10.85	91.45		
GOD-MW3s	1/30/2012	15:43	11.55	89.84	<|0.05|	0
GOD-MW3s	2/9/2012	11:21	11.74	89.65	<|0.05|	0
GOD-MW3s	3/5/2012	9:22	11.81	89.58	<|0.05|	0
GOD-MW3s	4/9/2012	13:31	10.61	90.78	<|0.05|	0
GOD-MW3s	5/9/2012	17:00	11.35	90.04	<|0.05|	0
GOD-MW3s	6/20/2012	13:36	11.17	90.22	<|0.05|	0
GOD-MW3s	7/11/2012	13:20	12.06	89.33	<|0.05|	0
GOD-MW3s	8/20/2012	15:14	11.77	89.62	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
GOD-MW3s	9/20/2012	9:22	12.33	89.06	<|0.05|	0
GOD-MW3s	10/19/2012	10:48	12.96	88.43	<|0.05|	0
GOD-MW3s	12/3/2012	13:30	13.40	87.99	<|0.05|	0
GOD-MW3s	12/31/2012	12:02	13.28	88.11	<|0.05|	0
GOD-MW3s	1/15/2013	10:56	13.21	88.18	<|0.05|	0
GOD-MW3s	2/16/2013	17:48	13.22	88.17	<|0.05|	0
GOD-MW3s	3/19/2013	9:34	12.03	89.36	<|0.05|	0
GOD-MW3s	4/17/2013	11:53	11.73	89.66	<|0.05|	0
GOD-MW3s	5/29/2013	17:20	12.25	89.14	<|0.05|	0
GOD-MW3s	6/18/2013	13:51	12.54	88.85	<|0.05|	0
GOD-MW3s	7/15/2013	12:09	11.70	89.69	0.08	0.01
GOD-MW3s	8/21/2013	9:13	12.96	88.43	0.05	0.00
GOD-MW3s	9/9/2013	9:14	12.86	88.53	<|0.05|	0
GOD-MW3s	10/7/2013	11:33	12.93	88.46	<|0.05|	0
GOD-MW3s	11/11/2013	13:53	13.45	87.94	<|0.05|	0
GOD-MW3s	12/17/2013	11:27	13.86	87.53	<|0.05|	0
GOD-MW3s	1/13/2014	10:40	14.03	87.36	<|0.05|	0
GOD-MW3s	2/17/2014	10:23	14.63	86.76	<|0.05|	0
GOD-MW3s	3/17/2014	9:39	14.43	86.96	<|0.05|	0
GOD-MW3s	4/19/2014	9:15	13.44	87.95	<|0.05|	0
GOD-MW3s	5/21/2014	8:53	13.40	87.99	0.06	0.00
GOD-MW3s	6/20/2014	12:20	14.05	87.34	<|0.05|	0
GOD-MW3s	7/16/2014	16:17	13.96	87.43	<|0.05|	0
GOD-MW3s	8/29/2014	12:16	16.01	85.38	0.07	0.00
GOD-MW3s	9/19/2014	14:01	15.51	85.88	<|0.05|	0
GOD-MW3s	10/14/2014	8:12	15.16	86.23	<|0.05|	0
GOD-MW3s	11/10/2014	12:58	15.25	86.14	0.24	0.02
GOD-MW3s	12/15/2014	9:51	13.95	87.44	<|0.05|	0
GOD-MW3s	1/13/2015	10:06	13.83	87.56	<|0.05|	0
GOD-MW3s	2/5/2015	9:22	14.48	86.91	<|0.05|	0
GOD-MW3s	3/13/2015	8:45	15.05	86.34	<|0.05|	0
GOD-MW3s	4/17/2015	7:45	14.59	86.80	<|0.05|	0
GOD-MW3s	5/11/2015	8:51	15.84	85.55	0.12	0.01
GOD-MW3s	6/4/2015	8:07	16.43	84.96	0.08	0.01
GOD-MW3s	7/20/2015	11:05	18.15	83.24	0.06	0.00
GOD-MW3s	8/13/2015	11:21	18.95	82.44	0.07	0.00
GOD-MW3s	9/14/2015	17:47	19.34	82.05	<|0.05|	0
GOD-MW3s	10/16/2015	16:51	18.85	82.54	<|0.05|	0
GOD-MW3s	11/12/2015	9:34	18.99	82.40	<|0.05|	0
GOD-MW3s	12/31/2015	12:43	18.69	82.70	<|0.05|	0
GOD-MW3s	1/16/2016	17:36	18.55	82.84	<|0.05|	0
GOD-MW3s	2/26/2016	14:09	19.11	82.28	<|0.05|	0
GOD-MW3s	3/19/2016	11:06	18.53	82.86	0.30	0.02
GOD-MW3s	4/18/2016	15:19	17.35	84.04	<|0.05|	0
GOD-MW3s	5/16/2016	9:17	17.76	83.63	<|0.05|	0
GOD-MW3s	6/17/2016	9:23	17.94	83.45	<|0.05|	0
GOD-MW3s	7/22/2016	11:02	19.61	81.78	0.10	0.01
GOD-MW3s	8/16/2016	9:43	19.54	81.85	<|0.05|	0
GOD-MW3s	9/16/2016	15:13	19.79	81.60	<|0.05|	0
GOD-MW3s	10/14/2016	15:51	19.27	82.12	0.05	0.00
GOD-MW3s	11/21/2016	9:36	18.75	82.64	0.06	0.00
GOD-MW3s	12/13/2016	14:10	18.37	83.02	<|0.05|	0
GOD-MW3s	1/26/2017	13:26	17.42	83.97	<|0.05|	0
GOD-MW3s	2/1/2017		N/M			
GOD-MW3s	3/13/2017	10:24	14.87	86.52	<|0.05|	0
GOD-MW3s	4/21/2017	11:46	14.05	87.34	<|0.05|	0
GOD-MW3s	5/16/2017	9:23	15.00	86.39	<|0.05|	0
GOD-MW3s	6/23/2017	8:06	14.62	86.77	0.06	0.00
GOD-MW3s	7/14/2017	8:08	14.88	86.51	0.07	0.00
GOD-MW3s	8/22/2017	7:54	14.87	86.52	0.09	0.01
GOD-MW3s	9/23/2017	12:06	14.44	86.95	<|0.05|	0
GOD-MW3s	10/20/2017	13:58	14.46	86.93	<|0.05|	0
GOD-MW3s	11/14/2017	10:22	14.28	87.11	<|0.05|	0
GOD-MW3s	12/31/2017	11:25	13.73	87.66	<|0.05|	0
GOD-MW3s	1/22/2018	12:03	13.71	87.68	<|0.05|	0
GOD-MW3s	2/23/2018	14:28	14.54	86.85	0.06	0.00
GOD-MW3s	3/1/2018		N/M			
GOD-MW3s	4/25/2018	12:48	12.14	89.25	<|0.05|	0
GOD-MW3s	5/16/2018	16:42	12.91	88.48	<|0.05|	0
GOD-MW3s	6/14/2018	12:30	12.91	88.48	<|0.05|	0
GOD-MW3s	7/17/2018	13:55	13.63	87.76	0.09	0.01
GOD-MW3s	8/15/2018	15:26	14.56	86.83	0.08	0.01
GOD-MW3s	9/12/2018	9:21	13.18	88.21	0.07	0.00
GOD-MW3s	10/25/2018	12:54	14.18	87.21	<|0.05|	0
GOD-MW3s	11/14/2018	15:54	13.55	87.84	-0.21	-0.01
GOD-MW3s	12/14/2018	12:45	13.32	88.07	<|0.05|	0
GOD-MW3s	1/24/2019	13:25	13.18	88.21	<|0.05|	0
GOD-MW3s	2/28/2019	12:34	12.22	89.17	<|0.05|	0
GOD-MW3s	3/17/2019	13:07	12.10	89.29	<|0.05|	0
GOD-MW3s	4/15/2019	9:10	9.43	91.96	0.08	0.01
GOD-MW3s	5/21/2019	7:42	11.22	90.17	<|0.05|	0
GOD-MW3s	6/20/2019	9:15	10.88	90.51	<|0.05|	0
GOD-MW3s	7/17/2019	7:59	10.90	90.49	0.11	0.01
GOD-MW3s	8/14/2019	7:36	11.82	89.57	<|0.05|	0
GOD-MW3s	9/26/2019	9:14	11.46	89.93	0.05	0.00
GOD-MW3s	10/24/2019	13:17	12.85	88.54	0.06	0.00
GOD-MW3s	11/14/2019	8:08	13.30	88.09	<|0.05|	0
GOD-MW3s	12/13/2019	9:45	N/M			
GOD-MW3d	1/30/2012	15:43	11.44	89.82		
GOD-MW3d	2/9/2012	11:22	11.64	89.62		
GOD-MW3d	3/5/2012	9:23	11.72	89.54		
GOD-MW3d	4/9/2012	13:32	10.48	90.78		
GOD-MW3d	5/9/2012	17:00	11.22	90.04		
GOD-MW3d	6/20/2012	13:37	11.07	90.19		
GOD-MW3d	7/11/2012	13:20	11.88	89.38		
GOD-MW3d	8/20/2012	15:14	11.68	89.58		
GOD-MW3d	9/20/2012	9:22	12.25	89.01		
GOD-MW3d	10/19/2012	10:48	12.83	88.43		
GOD-MW3d	12/3/2012	13:30	13.29	87.97		
GOD-MW3d	12/31/2012	12:03	13.14	88.12		
GOD-MW3d	1/15/2013	10:56	13.10	88.16		
GOD-MW3d	2/16/2013	17:48	13.10	88.16		
GOD-MW3d	3/19/2013	9:34	11.93	89.33		
GOD-MW3d	4/17/2013	11:53	11.62	89.64		
GOD-MW3d	5/29/2013	17:20	12.15	89.11		
GOD-MW3d	6/18/2013	13:52	12.44	88.82		
GOD-MW3d	7/15/2013	12:09	11.65	89.61		
GOD-MW3d	8/21/2013	9:13	12.88	88.38		
GOD-MW3d	9/9/2013	9:14	12.76	88.50		
GOD-MW3d	10/7/2013	11:33	12.81	88.45		
GOD-MW3d	11/11/2013	13:53	13.35	87.91		
GOD-MW3d	12/17/2013	11:27	13.78	87.48		
GOD-MW3d	1/13/2014	10:40	13.93	87.33		
GOD-MW3d	2/17/2014	10:23	14.53	86.73		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
GOD-MW3d	3/17/2014	9:39	14.30	86.96		
GOD-MW3d	4/19/2014	9:15	13.34	87.92		
GOD-MW3d	5/21/2014	8:54	13.33	87.93		
GOD-MW3d	6/20/2014	12:20	13.96	87.30		
GOD-MW3d	7/16/2014	16:17	13.87	87.39		
GOD-MW3d	8/29/2014	12:16	15.95	85.31		
GOD-MW3d	9/19/2014	14:01	15.40	85.86		
GOD-MW3d	10/14/2014	8:12	15.05	86.21		
GOD-MW3d	11/10/2014	12:58	15.36	85.90		
GOD-MW3d	12/15/2014	9:51	13.85	87.41		
GOD-MW3d	1/13/2015	10:06	13.70	87.56		
GOD-MW3d	2/5/2015	9:22	14.38	86.88		
GOD-MW3d	3/13/2015	8:45	14.96	86.30		
GOD-MW3d	4/17/2015	7:45	14.50	86.76		
GOD-MW3d	5/11/2015	8:51	15.83	85.43		
GOD-MW3d	6/4/2015	8:07	16.38	84.88		
GOD-MW3d	7/20/2015	11:05	18.08	83.18		
GOD-MW3d	8/13/2015	11:22	18.89	82.37		
GOD-MW3d	9/14/2015	17:47	19.25	82.01		
GOD-MW3d	10/16/2015	16:51	18.75	82.51		
GOD-MW3d	11/12/2015	9:34	18.90	82.36		
GOD-MW3d	12/31/2015	12:44	18.58	82.68		
GOD-MW3d	1/16/2016	17:37	18.44	82.82		
GOD-MW3d	2/26/2016	14:10	19.01	82.25		
GOD-MW3d	3/19/2016	11:06	18.70	82.56		
GOD-MW3d	4/18/2016	15:20	17.24	84.02		
GOD-MW3d	5/16/2016	9:18	17.65	83.61		
GOD-MW3d	6/17/2016	9:24	17.86	83.40		
GOD-MW3d	7/22/2016	11:02	19.58	81.68		
GOD-MW3d	8/16/2016	9:42	19.45	81.81		
GOD-MW3d	9/16/2016	15:14	19.66	81.60		
GOD-MW3d	10/14/2016	15:52	19.19	82.07		
GOD-MW3d	11/21/2016	9:37	18.68	82.58		
GOD-MW3d	12/13/2016	14:11	18.29	82.97		
GOD-MW3d	1/26/2017	13:27	17.31	83.95		
GOD-MW3d	2/1/2017		N/M			
GOD-MW3d	3/13/2017	10:24	14.77	86.49		
GOD-MW3d	4/21/2017	11:47	13.93	87.33		
GOD-MW3d	5/16/2017	9:23	14.90	86.36		
GOD-MW3d	6/23/2017	8:06	14.55	86.71		
GOD-MW3d	7/14/2017	8:08	14.82	86.44		
GOD-MW3d	8/22/2017	7:54	14.83	86.43		
GOD-MW3d	9/23/2017	12:07	14.33	86.93		
GOD-MW3d	10/20/2017	13:59	14.36	86.90		
GOD-MW3d	11/14/2017	10:23	14.17	87.09		
GOD-MW3d	12/31/2017	11:26	13.61	87.65		
GOD-MW3d	1/22/2018	12:04	13.60	87.66		
GOD-MW3d	2/23/2018	14:29	14.47	86.79		
GOD-MW3d	3/1/2018		N/M			
GOD-MW3d	4/25/2018	12:48	12.04	89.22		
GOD-MW3d	5/16/2018	16:42	12.83	88.43		
GOD-MW3d	6/14/2018	12:30	12.83	88.43		
GOD-MW3d	7/17/2018	13:56	13.59	87.67		
GOD-MW3d	8/15/2018	15:26	14.51	86.75		
GOD-MW3d	9/12/2018	9:21	13.12	88.14		
GOD-MW3d	10/25/2018	12:54	14.03	87.23		
GOD-MW3d	11/14/2018	15:55	13.21	88.05		
GOD-MW3d	12/14/2018	12:46	13.19	88.07		
GOD-MW3d	1/24/2019	13:26	13.05	88.21		
GOD-MW3d	2/28/2019	12:34	12.11	89.15		
GOD-MW3d	3/17/2019	13:08	12.00	89.26		
GOD-MW3d	4/15/2019	9:10	9.38	91.88		
GOD-MW3d	5/21/2019	7:42	11.14	90.12		
GOD-MW3d	6/20/2019	9:15	10.78	90.48		
GOD-MW3d	7/17/2019	7:59	10.88	90.38		
GOD-MW3d	8/14/2019	7:36	11.73	89.53		
GOD-MW3d	9/26/2019	9:14	11.38	89.88		
GOD-MW3d	10/24/2019	13:17	12.78	88.48		
GOD-MW3d	11/14/2019	8:08	13.20	88.06		
GOD-MW3d	12/13/2019	9:45	N/M			
GOD-MW4s	1/30/2012	0:00	11.93	89.72	<|0.05|	0
GOD-MW4s	2/9/2012	10:28	11.32	90.33	-0.06	-0.00
GOD-MW4s	3/5/2012	9:25	11.42	90.23	<|0.05|	0
GOD-MW4s	4/9/2012	13:36	11.25	90.40	<|0.05|	0
GOD-MW4s	5/9/2012	17:44	11.14	90.51	<|0.05|	0
GOD-MW4s	6/20/2012	13:31	11.63	90.02	<|0.05|	0
GOD-MW4s	7/11/2012	13:24	12.23	89.42	0.24	0.02
GOD-MW4s	8/20/2012	15:06	12.16	89.49	<|0.05|	0
GOD-MW4s	9/20/2012	9:14	12.74	88.91	<|0.05|	0
GOD-MW4s	10/19/2012	10:55	13.08	88.57	0.07	0.00
GOD-MW4s	12/3/2012	13:24	13.67	87.98	<|0.05|	0
GOD-MW4s	12/31/2012	12:12	13.51	88.14	<|0.05|	0
GOD-MW4s	1/15/2013	11:03	13.49	88.16	-0.10	-0.01
GOD-MW4s	2/16/2013	17:56	10.89	90.76	-0.06	-0.00
GOD-MW4s	3/19/2013	9:39	12.09	89.56	<|0.05|	0
GOD-MW4s	4/17/2013	11:58	12.36	89.29	<|0.05|	0
GOD-MW4s	5/29/2013	17:25	11.97	89.68	0.06	0.00
GOD-MW4s	6/18/2013	14:03	12.62	89.03	<|0.05|	0
GOD-MW4s	7/15/2013	12:12	11.91	89.74	-0.09	-0.01
GOD-MW4s	8/21/2013	9:17	12.71	88.94	<|0.05|	0
GOD-MW4s	9/9/2013	9:10	13.00	88.65	<|0.05|	0
GOD-MW4s	10/7/2013	11:36	13.12	88.53	<|0.05|	0
GOD-MW4s	11/11/2013	13:57	13.90	87.75	<|0.05|	0
GOD-MW4s	12/17/2013	11:30	14.18	87.47	<|0.05|	0
GOD-MW4s	1/13/2014	10:43	14.29	87.36	<|0.05|	0
GOD-MW4s	2/17/2014	10:26	14.14	87.51	<|0.05|	0
GOD-MW4s	3/17/2014	9:43	14.13	87.52	<|0.05|	0
GOD-MW4s	4/19/2014	9:18	13.40	88.25	<|0.05|	0
GOD-MW4s	5/21/2014	8:50	12.10	89.55	<|0.05|	0
GOD-MW4s	6/20/2014	12:24	13.14	88.51	<|0.05|	0
GOD-MW4s	7/16/2014	16:21	13.06	88.59	<|0.05|	0
GOD-MW4s	8/29/2014	12:19	13.90	87.75	<|0.05|	0
GOD-MW4s	9/19/2014	14:05	14.13	87.52	<|0.05|	0
GOD-MW4s	10/14/2014	8:15	14.13	87.52	<|0.05|	0
GOD-MW4s	11/10/2014	13:03	14.58	87.07	<|0.05|	0
GOD-MW4s	12/15/2014	9:58	14.15	87.50	<|0.05|	0
GOD-MW4s	1/13/2015	10:10	13.90	87.75	<|0.05|	0
GOD-MW4s	2/5/2015	9:25	13.87	87.78	<|0.05|	0
GOD-MW4s	3/13/2015	8:42	14.03	87.62	<|0.05|	0
GOD-MW4s	4/17/2015	7:54	13.95	87.70	<|0.05|	0
GOD-MW4s	5/11/2015	8:55	14.53	87.12	<|0.05|	0
GOD-MW4s	6/4/2015	8:18	14.02	87.63	<|0.05|	0
GOD-MW4s	7/20/2015	11:10	15.50	86.15	<|0.05|	0
GOD-MW4s	8/13/2015	11:27	16.12	85.53	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
GOD-MW4s	9/14/2015	17:59	16.79	84.86	<|0.05|	0
GOD-MW4s	10/16/2015	17:04	17.05	84.60	<|0.05|	0
GOD-MW4s	11/12/2015	9:38	17.49	84.16	<|0.05|	0
GOD-MW4s	12/31/2015	12:54	17.83	83.82	<|0.05|	0
GOD-MW4s	1/16/2016	17:56	17.91	83.74	<|0.05|	0
GOD-MW4s	2/26/2016	14:17	17.61	84.04	<|0.05|	0
GOD-MW4s	3/19/2016	11:09	16.39	85.26	<|0.05|	0
GOD-MW4s	4/18/2016	15:29	16.43	85.22	<|0.05|	0
GOD-MW4s	5/16/2016	9:19	16.01	85.64	<|0.05|	0
GOD-MW4s	6/17/2016	9:33	16.08	85.57	<|0.05|	0
GOD-MW4s	7/22/2016	11:05	16.37	85.28	-0.07	-0.00
GOD-MW4s	8/16/2016	9:44	17.02	84.63	-0.05	-0.00
GOD-MW4s	9/16/2016	15:23	17.69	83.96	<|0.05|	0
GOD-MW4s	10/14/2016	16:00	18.07	83.58	<|0.05|	0
GOD-MW4s	11/21/2016	9:33	17.98	83.67	<|0.05|	0
GOD-MW4s	12/13/2016	14:19	17.89	83.76	<|0.05|	0
GOD-MW4s	1/26/2017	13:38	17.31	84.34	<|0.05|	0
GOD-MW4s	2/1/2017		N/M			
GOD-MW4s	3/13/2017	10:30	13.13	88.52	-0.14	-0.01
GOD-MW4s	4/21/2017	11:54	13.60	88.05	-0.06	-0.00
GOD-MW4s	5/16/2017	9:25	13.87	87.78	<|0.05|	0
GOD-MW4s	6/23/2017	8:01	12.29	89.36	<|0.05|	0
GOD-MW4s	7/14/2017	8:04	13.09	88.56	-0.06	-0.00
GOD-MW4s	8/22/2017	7:57	12.05	89.60	-0.08	-0.01
GOD-MW4s	9/23/2017	12:16	13.76	87.89	<|0.05|	0
GOD-MW4s	10/20/2017	14:11	14.15	87.50	<|0.05|	0
GOD-MW4s	11/14/2017	10:34	14.24	87.41	<|0.05|	0
GOD-MW4s	12/31/2017	11:35	13.89	87.76	<|0.05|	0
GOD-MW4s	1/22/2018	12:17	13.92	87.73	<|0.05|	0
GOD-MW4s	2/23/2018	14:33	12.34	89.31	<|0.05|	0
GOD-MW4s	3/1/2018		N/M			
GOD-MW4s	4/25/2018	12:52	11.90	89.75	<|0.05|	0
GOD-MW4s	5/16/2018	16:44	12.30	89.35	<|0.05|	0
GOD-MW4s	6/14/2018	12:35	10.86	90.79	<|0.05|	0
GOD-MW4s	7/17/2018	14:02	13.92	87.73	-2.06	-0.13
GOD-MW4s	8/15/2018	15:28	13.25	88.40	<|0.05|	0
GOD-MW4s	9/12/2018	9:18	13.58	88.07	<|0.05|	0
GOD-MW4s	10/25/2018	12:51	14.03	87.62	<|0.05|	0
GOD-MW4s	11/14/2018	16:00	14.08	87.57	<|0.05|	0
GOD-MW4s	12/14/2018	12:54	13.61	88.04	0.69	0.04
GOD-MW4s	1/24/2019	13:34	13.33	88.32	0.72	0.05
GOD-MW4s	2/28/2019	12:37	10.92	90.73	<|0.05|	0
GOD-MW4s	3/17/2019	13:16	11.23	90.42	<|0.05|	0
GOD-MW4s	4/15/2019	9:06	11.00	90.65	<|0.05|	0
GOD-MW4s	5/21/2019	7:47	11.03	90.62	<|0.05|	0
GOD-MW4s	6/20/2019	9:12	10.32	91.33	<|0.05|	0
GOD-MW4s	7/17/2019	7:56	10.90	90.75	<|0.05|	0
GOD-MW4s	8/14/2019	7:40	11.84	89.81	<|0.05|	0
GOD-MW4s	9/26/2019	9:06	12.28	89.37	0.15	0.01
GOD-MW4s	10/24/2019	13:14	13.02	88.63	<|0.05|	0
GOD-MW4s	11/14/2019	8:12	13.27	88.38	-0.09	-0.01
GOD-MW4s	12/13/2019	9:43	N/M			
GOD-MW4d	1/30/2012	15:50	11.58	89.72		
GOD-MW4d	2/9/2012	10:29	10.91	90.39		
GOD-MW4d	3/5/2012	9:26	11.06	90.24		
GOD-MW4d	4/9/2012	13:37	10.91	90.39		
GOD-MW4d	5/9/2012	17:45	10.79	90.51		
GOD-MW4d	6/20/2012	13:32	11.27	90.03		
GOD-MW4d	7/11/2012	13:24	12.12	89.18		
GOD-MW4d	8/20/2012	15:07	11.80	89.50		
GOD-MW4d	9/20/2012	9:14	12.44	88.86		
GOD-MW4d	10/19/2012	10:55	12.80	88.50		
GOD-MW4d	12/3/2012	13:24	13.33	87.97		
GOD-MW4d	12/31/2012	12:13	13.14	88.16		
GOD-MW4d	1/15/2013	11:03	13.04	88.26		
GOD-MW4d	2/16/2013	17:56	10.48	90.82		
GOD-MW4d	3/19/2013	9:39	11.74	89.56		
GOD-MW4d	4/17/2013	11:58	12.05	89.25		
GOD-MW4d	5/29/2013	17:26	11.68	89.62		
GOD-MW4d	6/18/2013	14:04	12.25	89.05		
GOD-MW4d	7/15/2013	12:12	11.47	89.83		
GOD-MW4d	8/21/2013	9:17	12.36	88.94		
GOD-MW4d	9/9/2013	9:10	12.65	88.65		
GOD-MW4d	10/7/2013	11:36	12.78	88.52		
GOD-MW4d	11/11/2013	13:57	13.58	87.72		
GOD-MW4d	12/17/2013	11:30	13.81	87.49		
GOD-MW4d	1/13/2014	10:43	13.95	87.35		
GOD-MW4d	2/17/2014	10:26	13.80	87.50		
GOD-MW4d	3/17/2014	9:43	13.75	87.55		
GOD-MW4d	4/19/2014	9:18	13.03	88.27		
GOD-MW4d	5/21/2014	8:50	11.75	89.55		
GOD-MW4d	6/20/2014	12:24	12.75	88.55		
GOD-MW4d	7/16/2014	16:21	12.73	88.57		
GOD-MW4d	8/29/2014	12:19	13.51	87.79		
GOD-MW4d	9/19/2014	14:05	13.79	87.51		
GOD-MW4d	10/14/2014	8:15	13.78	87.52		
GOD-MW4d	11/10/2014	13:03	14.28	87.02		
GOD-MW4d	12/15/2014	9:58	13.78	87.52		
GOD-MW4d	1/13/2015	10:10	13.54	87.76		
GOD-MW4d	2/5/2015	9:25	13.52	87.78		
GOD-MW4d	3/13/2015	8:42	13.67	87.63		
GOD-MW4d	4/17/2015	7:54	13.58	87.72		
GOD-MW4d	5/11/2015	8:55	14.18	87.12		
GOD-MW4d	6/4/2015	8:18	13.63	87.67		
GOD-MW4d	7/20/2015	11:10	15.13	86.17		
GOD-MW4d	8/13/2015	11:28	15.74	85.56		
GOD-MW4d	9/14/2015	17:59	16.42	84.88		
GOD-MW4d	10/16/2015	17:04	16.69	84.61		
GOD-MW4d	11/12/2015	9:38	17.12	84.18		
GOD-MW4d	12/31/2015	12:55	17.47	83.83		
GOD-MW4d	1/16/2016	17:57	17.55	83.75		
GOD-MW4d	2/26/2016	14:16	17.21	84.09		
GOD-MW4d	3/19/2016	11:09	15.99	85.31		
GOD-MW4d	4/18/2016	15:30	16.05	85.25		
GOD-MW4d	5/16/2016	9:20	15.71	85.59		
GOD-MW4d	6/17/2016	9:34	15.69	85.61		
GOD-MW4d	7/22/2016	11:05	15.95	85.35		
GOD-MW4d	8/16/2016	9:45	16.62	84.68		
GOD-MW4d	9/16/2016	15:22	17.30	84.00		
GOD-MW4d	10/14/2016	16:01	17.72	83.58		
GOD-MW4d	11/21/2016	9:34	17.64	83.66		
GOD-MW4d	12/13/2016	14:20	17.52	83.78		
GOD-MW4d	1/26/2017	13:39	16.95	84.35		
GOD-MW4d	2/1/2017		N/M			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
GOD-MW4d	3/13/2017	10:30	12.64	88.66		
GOD-MW4d	4/21/2017	11:55	13.19	88.11		
GOD-MW4d	5/16/2017	9:25	13.51	87.79		
GOD-MW4d	6/23/2017	8:01	11.90	89.40		
GOD-MW4d	7/14/2017	8:04	12.68	88.62		
GOD-MW4d	8/22/2017	7:57	11.62	89.68		
GOD-MW4d	9/23/2017	12:17	13.40	87.90		
GOD-MW4d	10/20/2017	14:12	13.80	87.50		
GOD-MW4d	11/14/2017	10:33	13.87	87.43		
GOD-MW4d	12/31/2017	11:37	13.55	87.75		
GOD-MW4d	1/22/2018	12:18	13.56	87.74		
GOD-MW4d	2/23/2018	14:33	11.98	89.32		
GOD-MW4d	3/1/2018		N/M			
GOD-MW4d	4/25/2018	12:52	11.55	89.75		
GOD-MW4d	5/16/2018	16:44	11.91	89.39		
GOD-MW4d	6/14/2018	12:36	10.50	90.80		
GOD-MW4d	7/17/2018	14:03	11.51	89.79		
GOD-MW4d	8/15/2018	15:28	12.86	88.44		
GOD-MW4d	9/12/2018	9:18	13.25	88.05		
GOD-MW4d	10/25/2018	12:51	13.70	87.60		
GOD-MW4d	11/14/2018	16:02	13.72	87.58		
GOD-MW4d	12/14/2018	12:55	13.95	87.35		
GOD-MW4d	1/24/2019	13:35	13.70	87.60		
GOD-MW4d	2/28/2019	12:37	10.55	90.75		
GOD-MW4d	3/17/2019	13:17	10.85	90.45		
GOD-MW4d	4/15/2019	9:06	10.64	90.66		
GOD-MW4d	5/21/2019	7:47	10.68	90.62		
GOD-MW4d	6/20/2019	9:12	10.02	91.28		
GOD-MW4d	7/17/2019	7:56	10.53	90.77		
GOD-MW4d	8/14/2019	7:40	11.48	89.82		
GOD-MW4d	9/26/2019	9:06	12.08	89.22		
GOD-MW4d	10/24/2019	13:14	12.69	88.61		
GOD-MW4d	11/14/2019	8:12	12.83	88.47		
GOD-MW4d	12/13/2019	9:43	N/M			
GOD-MW5s	1/30/2012	15:55	6.12	96.30	<|0.05|	0
GOD-MW5s	2/9/2012	12:58	6.18	96.24	<|0.05|	0
GOD-MW5s	3/5/2012	9:30	4.39	98.03	<|0.05|	0
GOD-MW5s	4/9/2012	13:08	5.06	97.36	<|0.05|	0
GOD-MW5s	5/9/2012	18:44	8.57	93.85	-0.06	-0.00
GOD-MW5s	6/20/2012	12:47	6.28	96.14	<|0.05|	0
GOD-MW5s	7/11/2012	13:01	7.30	95.12	-0.19	-0.01
GOD-MW5s	8/20/2012	15:28	6.42	96.00	<|0.05|	0
GOD-MW5s	9/20/2012	9:41	6.94	95.48	<|0.05|	0
GOD-MW5s	10/19/2012	10:30	9.14	93.28	-0.07	-0.00
GOD-MW5s	12/3/2012	13:41	9.22	93.20	<|0.05|	0
GOD-MW5s	12/31/2012	12:30	9.38	93.04	-0.06	-0.00
GOD-MW5s	1/15/2013	10:41	8.49	93.93	<|0.05|	0
GOD-MW5s	2/16/2013	17:43	9.26	93.16	<|0.05|	0
GOD-MW5s	3/19/2013	9:16	8.60	93.82	-0.06	-0.00
GOD-MW5s	4/17/2013	11:34	9.14	93.28	<|0.05|	0
GOD-MW5s	5/29/2013	17:10	8.78	93.64	-0.12	-0.01
GOD-MW5s	6/18/2013	13:40	8.01	94.41	<|0.05|	0
GOD-MW5s	7/15/2013	11:54	9.02	93.40	<|0.05|	0
GOD-MW5s	8/21/2013	8:50	7.60	94.82	-0.06	-0.00
GOD-MW5s	9/9/2013	9:26	9.03	93.39	-0.09	-0.00
GOD-MW5s	10/7/2013	12:12	9.46	92.96	-0.05	-0.00
GOD-MW5s	11/11/2013	13:32	9.48	92.94	<|0.05|	0
GOD-MW5s	12/17/2013	11:44	9.70	92.72	-0.13	-0.01
GOD-MW5s	1/13/2014	10:58	9.44	92.98	<|0.05|	0
GOD-MW5s	2/17/2014	10:02	10.02	92.40	<|0.05|	0
GOD-MW5s	3/17/2014	9:58	9.85	92.57	<|0.05|	0
GOD-MW5s	4/19/2014	9:00	9.82	92.60	<|0.05|	0
GOD-MW5s	5/21/2014	8:30	9.84	92.58	<|0.05|	0
GOD-MW5s	6/20/2014	12:06	9.57	92.85	<|0.05|	0
GOD-MW5s	7/16/2014	16:06	9.51	92.91	<|0.05|	0
GOD-MW5s	8/29/2014	11:59	8.80	93.62	<|0.05|	0
GOD-MW5s	9/19/2014	14:29	8.22	94.20	<|0.05|	0
GOD-MW5s	10/14/2014	8:33	9.61	92.81	<|0.05|	0
GOD-MW5s	11/10/2014	12:45	9.70	92.72	<|0.05|	0
GOD-MW5s	12/15/2014	10:16	8.56	93.86	<|0.05|	0
GOD-MW5s	1/13/2015	9:48	9.26	93.16	-0.11	-0.01
GOD-MW5s	2/5/2015	9:08	9.52	92.90	-0.06	-0.00
GOD-MW5s	3/13/2015	9:00	8.93	93.49	<|0.05|	0
GOD-MW5s	4/17/2015	8:05	8.38	94.04	<|0.05|	0
GOD-MW5s	5/11/2015	8:39	8.94	93.48	<|0.05|	0
GOD-MW5s	6/4/2015	8:35	9.38	93.04	<|0.05|	0
GOD-MW5s	7/20/2015	10:45	9.54	92.88	<|0.05|	0
GOD-MW5s	8/13/2015	11:00	9.45	92.97	<|0.05|	0
GOD-MW5s	9/14/2015	17:14	9.74	92.68	<|0.05|	0
GOD-MW5s	10/16/2015	16:29	10.24	92.18	<|0.05|	0
GOD-MW5s	11/12/2015	9:13	10.25	92.17	<|0.05|	0
GOD-MW5s	12/31/2015	13:13	10.48	91.94	<|0.05|	0
GOD-MW5s	1/16/2016	17:19	10.48	91.94	<|0.05|	0
GOD-MW5s	2/26/2016	14:33	8.95	93.47	<|0.05|	0
GOD-MW5s	3/19/2016	11:36	8.12	94.30	<|0.05|	0
GOD-MW5s	4/18/2016	15:45	8.75	93.67	<|0.05|	0
GOD-MW5s	5/16/2016	9:07	9.61	92.81	<|0.05|	0
GOD-MW5s	6/17/2016	9:49	9.02	93.40	<|0.05|	0
GOD-MW5s	7/22/2016	11:35	9.26	93.16	<|0.05|	0
GOD-MW5s	8/16/2016	9:31	8.62	93.80	<|0.05|	0
GOD-MW5s	9/16/2016	14:57	6.89	95.53	<|0.05|	0
GOD-MW5s	10/14/2016	15:39	8.32	94.10	<|0.05|	0
GOD-MW5s	11/21/2016	9:58	9.74	92.68	<|0.05|	0
GOD-MW5s	12/13/2016	14:25	9.53	92.89	<|0.05|	0
GOD-MW5s	1/26/2017	13:14	8.15	94.27	<|0.05|	0
GOD-MW5s	2/1/2017		N/M			
GOD-MW5s	3/13/2017	10:10	8.13	94.29	-0.07	-0.00
GOD-MW5s	4/21/2017	12:00	8.61	93.81	<|0.05|	0
GOD-MW5s	5/16/2017	9:09	8.43	93.99	-0.07	-0.00
GOD-MW5s	6/23/2017	8:18	8.28	94.14	<|0.05|	0
GOD-MW5s	7/14/2017	8:18	7.49	94.93	<|0.05|	0
GOD-MW5s	8/22/2017	7:43	5.83	96.59	<|0.05|	0
GOD-MW5s	9/23/2017	12:22	8.34	94.08	<|0.05|	0
GOD-MW5s	10/20/2017	13:48	8.90	93.52	<|0.05|	0
GOD-MW5s	11/14/2017	10:00	7.89	94.53	<|0.05|	0
GOD-MW5s	12/31/2017	11:10	8.94	93.48	<|0.05|	0
GOD-MW5s	1/22/2018	12:27	9.06	93.36	<|0.05|	0
GOD-MW5s	2/23/2018	14:37	7.41	95.01	<|0.05|	0
GOD-MW5s	3/1/2018		N/M			
GOD-MW5s	4/25/2018	12:31	8.63	93.79	<|0.05|	0
GOD-MW5s	5/16/2018	16:34	8.12	94.30	<|0.05|	0
GOD-MW5s	6/14/2018	12:22	8.56	93.86	<|0.05|	0
GOD-MW5s	7/17/2018	13:43	8.35	94.07	<|0.05|	0
GOD-MW5s	8/15/2018	15:20	7.50	94.92	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
GOD-MW5s	9/12/2018	9:33	7.81	94.61	<|0.05|	0
GOD-MW5s	10/25/2018	13:07	8.33	94.09	0.15	0.01
GOD-MW5s	11/14/2018	15:40	6.82	95.60	<|0.05|	0
GOD-MW5s	12/14/2018	13:02	6.81	95.61	<|0.05|	0
GOD-MW5s	1/24/2019	13:40	8.75	93.67	<|0.05|	0
GOD-MW5s	2/28/2019	12:20	8.54	93.88	<|0.05|	0
GOD-MW5s	3/17/2019	13:21	7.31	95.11	<|0.05|	0
GOD-MW5s	4/15/2019	9:22	6.10	96.32	0.12	0.01
GOD-MW5s	5/21/2019	7:18	7.43	94.99	-0.05	-0.00
GOD-MW5s	6/20/2019	9:30	7.99	94.43	<|0.05|	0
GOD-MW5s	7/17/2019	8:15	5.77	96.65	<|0.05|	0
GOD-MW5s	8/14/2019	7:20	5.50	96.92	<|0.05|	0
GOD-MW5s	9/26/2019	9:32	7.97	94.45	<|0.05|	0
GOD-MW5s	10/24/2019	13:35	8.52	93.90	<|0.05|	0
GOD-MW5s	11/14/2019	7:50	8.62	93.80	<|0.05|	0
GOD-MW5s	12/13/2019	9:56	7.98	94.44	<|0.05|	0
GOD-MW5d	1/30/2012	15:55	5.86	96.30		
GOD-MW5d	2/9/2012	12:59	5.92	96.24		
GOD-MW5d	3/5/2012	9:31	4.11	98.05		
GOD-MW5d	4/9/2012	13:09	4.80	97.36		
GOD-MW5d	5/9/2012	18:44	8.25	93.91		
GOD-MW5d	6/20/2012	12:48	5.98	96.18		
GOD-MW5d	7/11/2012	13:01	6.85	95.31		
GOD-MW5d	8/20/2012	15:28	6.16	96.00		
GOD-MW5d	9/20/2012	9:41	6.72	95.44		
GOD-MW5d	10/19/2012	10:30	8.81	93.35		
GOD-MW5d	12/3/2012	13:41	8.91	93.25		
GOD-MW5d	12/31/2012	12:32	9.06	93.10		
GOD-MW5d	1/15/2013	10:41	8.20	93.96		
GOD-MW5d	2/16/2013	17:43	8.95	93.21		
GOD-MW5d	3/19/2013	9:16	8.28	93.88		
GOD-MW5d	4/17/2013	11:34	8.83	93.33		
GOD-MW5d	5/29/2013	17:11	8.40	93.76		
GOD-MW5d	6/18/2013	13:41	7.75	94.41		
GOD-MW5d	7/15/2013	11:54	8.72	93.44		
GOD-MW5d	8/21/2013	8:50	7.28	94.88		
GOD-MW5d	9/9/2013	9:26	8.68	93.48		
GOD-MW5d	10/7/2013	12:12	9.15	93.01		
GOD-MW5d	11/11/2013	13:32	9.17	92.99		
GOD-MW5d	12/17/2013	11:44	9.31	92.85		
GOD-MW5d	1/13/2014	10:58	9.13	93.03		
GOD-MW5d	2/17/2014	10:02	9.73	92.43		
GOD-MW5d	3/17/2014	9:58	9.56	92.60		
GOD-MW5d	4/19/2014	9:00	9.53	92.63		
GOD-MW5d	5/21/2014	8:31	9.55	92.61		
GOD-MW5d	6/20/2014	12:06	9.28	92.88		
GOD-MW5d	7/16/2014	16:06	9.20	92.96		
GOD-MW5d	8/29/2014	11:59	8.50	93.66		
GOD-MW5d	9/19/2014	14:29	7.97	94.19		
GOD-MW5d	10/14/2014	8:33	9.32	92.84		
GOD-MW5d	11/10/2014	12:45	9.40	92.76		
GOD-MW5d	12/15/2014	10:16	8.28	93.88		
GOD-MW5d	1/13/2015	9:48	8.89	93.27		
GOD-MW5d	2/5/2015	9:08	9.20	92.96		
GOD-MW5d	3/13/2015	9:00	8.63	93.53		
GOD-MW5d	4/17/2015	8:05	8.13	94.03		
GOD-MW5d	5/11/2015	8:39	8.63	93.53		
GOD-MW5d	6/4/2015	8:35	9.08	93.08		
GOD-MW5d	7/20/2015	10:45	9.26	92.90		
GOD-MW5d	8/13/2015	11:01	9.20	92.96		
GOD-MW5d	9/14/2015	17:14	9.47	92.69		
GOD-MW5d	10/16/2015	16:29	9.96	92.20		
GOD-MW5d	11/12/2015	9:13	9.97	92.19		
GOD-MW5d	12/31/2015	13:14	10.23	91.93		
GOD-MW5d	1/16/2016	17:20	10.22	91.94		
GOD-MW5d	2/26/2016	14:34	8.67	93.49		
GOD-MW5d	3/19/2016	11:36	7.86	94.30		
GOD-MW5d	4/18/2016	15:46	8.49	93.67		
GOD-MW5d	5/16/2016	9:08	9.34	92.82		
GOD-MW5d	6/17/2016	9:50	8.73	93.43		
GOD-MW5d	7/22/2016	11:35	8.95	93.21		
GOD-MW5d	8/16/2016	9:32	8.33	93.83		
GOD-MW5d	9/16/2016	14:58	6.63	95.53		
GOD-MW5d	10/14/2016	15:40	8.06	94.10		
GOD-MW5d	11/21/2016	9:57	9.44	92.72		
GOD-MW5d	12/13/2016	14:26	9.29	92.87		
GOD-MW5d	1/26/2017	13:15	7.85	94.31		
GOD-MW5d	2/1/2017		N/M			
GOD-MW5d	3/13/2017	10:10	7.80	94.36		
GOD-MW5d	4/21/2017	12:01	8.32	93.84		
GOD-MW5d	5/16/2017	9:09	8.10	94.06		
GOD-MW5d	6/23/2017	8:18	7.97	94.19		
GOD-MW5d	7/14/2017	8:18	7.20	94.96		
GOD-MW5d	8/22/2017	7:43	5.53	96.63		
GOD-MW5d	9/23/2017	12:23	8.04	94.12		
GOD-MW5d	10/20/2017	13:49	8.61	93.55		
GOD-MW5d	11/14/2017	10:01	7.58	94.58		
GOD-MW5d	12/31/2017	11:11	8.65	93.51		
GOD-MW5d	1/22/2018	12:28	8.77	93.39		
GOD-MW5d	2/23/2018	14:38	7.17	94.99		
GOD-MW5d	3/1/2018		N/M			
GOD-MW5d	4/25/2018	12:31	8.34	93.82		
GOD-MW5d	5/16/2018	16:34	7.86	94.30		
GOD-MW5d	6/14/2018	12:22	8.28	93.88		
GOD-MW5d	7/17/2018	13:44	8.07	94.09		
GOD-MW5d	8/15/2018	15:21	7.25	94.91		
GOD-MW5d	9/12/2018	9:33	7.51	94.65		
GOD-MW5d	10/25/2018	13:07	8.22	93.94		
GOD-MW5d	11/14/2018	15:42	6.57	95.59		
GOD-MW5d	12/14/2018	13:03	6.56	95.60		
GOD-MW5d	1/24/2019	13:41	8.49	93.67		
GOD-MW5d	2/28/2019	12:20	8.28	93.88		
GOD-MW5d	3/17/2019	13:22	7.00	95.16		
GOD-MW5d	4/15/2019	9:22	5.96	96.20		
GOD-MW5d	5/21/2019	7:18	7.12	95.04		
GOD-MW5d	6/20/2019	9:30	7.69	94.47		
GOD-MW5d	7/17/2019	8:15	5.52	96.64		
GOD-MW5d	8/14/2019	7:20	5.22	96.94		
GOD-MW5d	9/26/2019	9:32	7.68	94.48		
GOD-MW5d	10/24/2019	13:35	8.22	93.94		
GOD-MW5d	11/14/2019	7:50	8.33	93.83		
GOD-MW5d	12/13/2019	9:56	7.68	94.48		
GOD-MW6s	1/30/2012	16:00	6.84	93.84	<|0.05|	0
GOD-MW6s	2/9/2012	12:09	7.07	93.61	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
GOD-MW6s	3/5/2012	9:33	5.79	94.89	<|0.05|	0
GOD-MW6s	4/9/2012	13:18	6.58	94.10	<|0.05|	0
GOD-MW6s	5/9/2012	18:08	9.10	91.58	-0.15	-0.01
GOD-MW6s	6/20/2012	13:14	6.24	94.44	<|0.05|	0
GOD-MW6s	7/11/2012	13:13	7.41	93.27	<|0.05|	0
GOD-MW6s	8/20/2012	15:21	6.29	94.39	-0.06	-0.00
GOD-MW6s	9/20/2012	9:33	6.87	93.81	-0.25	-0.01
GOD-MW6s	10/19/2012	10:38	9.76	90.92	<|0.05|	0
GOD-MW6s	12/3/2012	13:35	10.30	90.38	-0.06	-0.00
GOD-MW6s	12/31/2012	12:20	10.25	90.43	<|0.05|	0
GOD-MW6s	1/15/2013	10:50	9.36	91.32	<|0.05|	0
GOD-MW6s	2/16/2013	17:59	9.80	90.88	<|0.05|	0
GOD-MW6s	3/19/2013	9:26	8.54	92.14	<|0.05|	0
GOD-MW6s	4/17/2013	11:45	9.20	91.48	<|0.05|	0
GOD-MW6s	5/29/2013	17:15	8.92	91.76	<|0.05|	0
GOD-MW6s	6/18/2013	13:45	9.75	90.93	-0.06	-0.00
GOD-MW6s	7/15/2013	12:03	5.73	94.95	<|0.05|	0
GOD-MW6s	8/21/2013	9:03	5.27	95.41	<|0.05|	0
GOD-MW6s	9/9/2013	9:20	9.32	91.36	<|0.05|	0
GOD-MW6s	10/7/2013	12:05	9.44	91.24	<|0.05|	0
GOD-MW6s	11/11/2013	13:43	10.02	90.66	<|0.05|	0
GOD-MW6s	12/17/2013	11:38	10.47	90.21	<|0.05|	0
GOD-MW6s	1/13/2014	10:54	10.65	90.03	<|0.05|	0
GOD-MW6s	2/17/2014	10:16	11.05	89.63	<|0.05|	0
GOD-MW6s	3/17/2014	9:33	10.39	90.29	<|0.05|	0
GOD-MW6s	4/19/2014	9:09	8.40	92.28	<|0.05|	0
GOD-MW6s	5/21/2014	8:42	10.43	90.25	-0.06	-0.00
GOD-MW6s	6/20/2014	12:14	10.10	90.58	<|0.05|	0
GOD-MW6s	7/16/2014	16:33	7.98	92.70	<|0.05|	0
GOD-MW6s	8/29/2014	12:09	8.20	92.48	<|0.05|	0
GOD-MW6s	9/19/2014	14:20	5.51	95.17	<|0.05|	0
GOD-MW6s	10/14/2014	8:27	9.93	90.75	<|0.05|	0
GOD-MW6s	11/10/2014	12:52	10.42	90.26	<|0.05|	0
GOD-MW6s	12/15/2014	9:30	7.67	93.01	<|0.05|	0
GOD-MW6s	1/13/2015	9:53	9.71	90.97	<|0.05|	0
GOD-MW6s	2/5/2015	9:16	10.25	90.43	<|0.05|	0
GOD-MW6s	3/13/2015	8:51	11.07	89.61	<|0.05|	0
GOD-MW6s	4/17/2015	8:00	9.22	91.46	<|0.05|	0
GOD-MW6s	5/11/2015	8:50	10.02	90.66	<|0.05|	0
GOD-MW6s	6/4/2015	8:27	10.78	89.90	<|0.05|	0
GOD-MW6s	7/20/2015	10:55	9.94	90.74	<|0.05|	0
GOD-MW6s	8/13/2015	11:11	9.94	90.74	<|0.05|	0
GOD-MW6s	9/14/2015	17:34	10.50	90.18	<|0.05|	0
GOD-MW6s	10/16/2015	16:41	11.30	89.38	<|0.05|	0
GOD-MW6s	11/12/2015	9:24	12.12	88.56	<|0.05|	0
GOD-MW6s	12/31/2015	13:02	12.60	88.08	<|0.05|	0
GOD-MW6s	1/16/2016	17:28	12.67	88.01	0.07	0.00
GOD-MW6s	2/26/2016	14:23	9.96	90.72	<|0.05|	0
GOD-MW6s	3/19/2016	11:27	9.30	91.38	<|0.05|	0
GOD-MW6s	4/18/2016	15:44	10.12	90.56	<|0.05|	0
GOD-MW6s	5/16/2016	9:11	10.28	90.40	<|0.05|	0
GOD-MW6s	6/17/2016	9:42	9.69	90.99	<|0.05|	0
GOD-MW6s	7/22/2016	11:27	8.60	92.08	<|0.05|	0
GOD-MW6s	8/16/2016	9:38	9.54	91.14	<|0.05|	0
GOD-MW6s	9/16/2016	15:07	4.53	96.15	<|0.05|	0
GOD-MW6s	10/14/2016	15:45	9.49	91.19	<|0.05|	0
GOD-MW6s	11/21/2016	9:42	11.54	89.14	<|0.05|	0
GOD-MW6s	12/13/2016	14:05	12.00	88.68	-0.07	-0.00
GOD-MW6s	1/26/2017	13:21	8.90	91.78	<|0.05|	0
GOD-MW6s	2/1/2017		N/M			
GOD-MW6s	3/13/2017	10:18	9.75	90.93	<|0.05|	0
GOD-MW6s	4/21/2017	11:41	9.25	91.43	<|0.05|	0
GOD-MW6s	5/16/2017	9:16	9.57	91.11	<|0.05|	0
GOD-MW6s	6/23/2017	8:11	9.71	90.97	<|0.05|	0
GOD-MW6s	7/14/2017	8:12	6.10	94.58	<|0.05|	0
GOD-MW6s	8/22/2017	7:47	5.93	94.75	<|0.05|	0
GOD-MW6s	9/23/2017	12:01	8.88	91.80	<|0.05|	0
GOD-MW6s	10/20/2017	13:53	9.82	90.86	<|0.05|	0
GOD-MW6s	11/14/2017	10:15	7.01	93.67	<|0.05|	0
GOD-MW6s	12/31/2017	11:17	9.90	90.78	<|0.05|	0
GOD-MW6s	1/22/2018	11:57	10.04	90.64	<|0.05|	0
GOD-MW6s	2/23/2018	14:42	8.02	92.66	<|0.05|	0
GOD-MW6s	3/1/2018		N/M			
GOD-MW6s	4/25/2018	12:40	7.83	92.85	<|0.05|	0
GOD-MW6s	5/16/2018	16:37	8.81	91.87	<|0.05|	0
GOD-MW6s	6/14/2018	12:34	8.65	92.03	<|0.05|	0
GOD-MW6s	7/17/2018	13:50	7.99	92.69	<|0.05|	0
GOD-MW6s	8/15/2018	15:24	7.82	92.86	<|0.05|	0
GOD-MW6s	9/12/2018	9:27	6.18	94.50	<|0.05|	0
GOD-MW6s	10/25/2018	13:00	9.36	91.32	<|0.05|	0
GOD-MW6s	11/14/2018	15:47	6.02	94.66	<|0.05|	0
GOD-MW6s	12/14/2018	12:40	7.28	93.40	<|0.05|	0
GOD-MW6s	1/24/2019	13:18	8.72	91.96	<|0.05|	0
GOD-MW6s	2/28/2019	12:27	8.40	92.28	<|0.05|	0
GOD-MW6s	3/17/2019	13:03	8.04	92.64	<|0.05|	0
GOD-MW6s	4/15/2019	9:17	5.87	94.81	<|0.05|	0
GOD-MW6s	5/21/2019	7:28	7.40	93.28	<|0.05|	0
GOD-MW6s	6/20/2019	9:24	7.63	93.05	<|0.05|	0
GOD-MW6s	7/17/2019	8:07	6.10	94.58	<|0.05|	0
GOD-MW6s	8/14/2019	7:28	7.22	93.46	-0.05	-0.00
GOD-MW6s	9/26/2019	9:22	7.84	92.84	<|0.05|	0
GOD-MW6s	10/24/2019	13:23	8.85	91.83	<|0.05|	0
GOD-MW6s	11/14/2019	8:00	8.93	91.75	<|0.05|	0
GOD-MW6s	12/13/2019	9:51	7.03	93.65	<|0.05|	0
GOD-MW6d	1/30/2012	16:00	6.74	93.87		
GOD-MW6d	2/9/2012	12:10	6.97	93.64		
GOD-MW6d	3/5/2012	9:35	5.74	94.87		
GOD-MW6d	4/9/2012	13:19	6.48	94.13		
GOD-MW6d	5/9/2012	18:09	8.88	91.73		
GOD-MW6d	6/20/2012	13:15	6.15	94.46		
GOD-MW6d	7/11/2012	13:13	7.30	93.31		
GOD-MW6d	8/20/2012	15:21	6.16	94.45		
GOD-MW6d	9/20/2012	9:33	6.55	94.06		
GOD-MW6d	10/19/2012	10:38	9.68	90.93		
GOD-MW6d	12/3/2012	13:35	10.17	90.44		
GOD-MW6d	12/31/2012	12:21	10.15	90.46		
GOD-MW6d	1/15/2013	10:50	9.25	91.36		
GOD-MW6d	2/16/2013	17:59	9.69	90.92		
GOD-MW6d	3/19/2013	9:26	8.46	92.15		
GOD-MW6d	4/17/2013	11:45	9.11	91.50		
GOD-MW6d	5/29/2013	17:16	8.83	91.78		
GOD-MW6d	6/18/2013	13:46	9.62	90.99		
GOD-MW6d	7/15/2013	12:03	5.68	94.93		
GOD-MW6d	8/21/2013	9:03	5.22	95.39		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
GOD-MW6d	9/9/2013	9:20	9.23	91.38		
GOD-MW6d	10/7/2013	12:05	9.37	91.24		
GOD-MW6d	11/11/2013	13:43	9.96	90.65		
GOD-MW6d	12/17/2013	11:38	10.41	90.20		
GOD-MW6d	1/13/2014	10:54	10.57	90.04		
GOD-MW6d	2/17/2014	10:16	10.98	89.63		
GOD-MW6d	3/17/2014	9:33	10.28	90.33		
GOD-MW6d	4/19/2014	9:09	8.35	92.26		
GOD-MW6d	5/21/2014	8:42	10.30	90.31		
GOD-MW6d	6/20/2014	12:14	10.03	90.58		
GOD-MW6d	7/16/2014	16:33	7.90	92.71		
GOD-MW6d	8/29/2014	12:09	8.12	92.49		
GOD-MW6d	9/19/2014	14:20	5.45	95.16		
GOD-MW6d	10/14/2014	8:27	9.83	90.78		
GOD-MW6d	11/10/2014	12:52	10.38	90.23		
GOD-MW6d	12/15/2014	9:30	7.58	93.03		
GOD-MW6d	1/13/2015	9:53	9.63	90.98		
GOD-MW6d	2/5/2015	9:16	10.13	90.48		
GOD-MW6d	3/13/2015	8:51	11.00	89.61		
GOD-MW6d	4/17/2015	8:00	9.17	91.44		
GOD-MW6d	5/11/2015	8:50	9.98	90.63		
GOD-MW6d	6/4/2015	8:27	10.70	89.91		
GOD-MW6d	7/20/2015	10:55	9.87	90.74		
GOD-MW6d	8/13/2015	11:12	9.89	90.72		
GOD-MW6d	9/14/2015	17:34	10.45	90.16		
GOD-MW6d	10/16/2015	16:41	11.22	89.39		
GOD-MW6d	11/12/2015	9:24	12.06	88.55		
GOD-MW6d	12/31/2015	13:03	12.50	88.11		
GOD-MW6d	1/16/2016	17:29	12.67	87.94		
GOD-MW6d	2/26/2016	14:24	9.86	90.75		
GOD-MW6d	3/19/2016	11:27	9.21	91.40		
GOD-MW6d	4/18/2016	15:43	10.03	90.58		
GOD-MW6d	5/16/2016	9:12	10.21	90.40		
GOD-MW6d	6/17/2016	9:43	9.60	91.01		
GOD-MW6d	7/22/2016	11:27	8.50	92.11		
GOD-MW6d	8/16/2016	9:37	9.44	91.17		
GOD-MW6d	9/16/2016	15:06	4.43	96.18		
GOD-MW6d	10/14/2016	15:46	9.41	91.20		
GOD-MW6d	11/21/2016	9:43	11.42	89.19		
GOD-MW6d	12/13/2016	14:06	11.86	88.75		
GOD-MW6d	1/26/2017	13:22	8.82	91.79		
GOD-MW6d	2/1/2017		N/M			
GOD-MW6d	3/13/2017	10:18	9.67	90.94		
GOD-MW6d	4/21/2017	11:42	9.15	91.46		
GOD-MW6d	5/16/2017	9:16	9.45	91.16		
GOD-MW6d	6/23/2017	8:11	9.63	90.98		
GOD-MW6d	7/14/2017	8:12	6.00	94.61		
GOD-MW6d	8/22/2017	7:47	5.84	94.77		
GOD-MW6d	9/23/2017	12:00	8.81	91.80		
GOD-MW6d	10/20/2017	13:54	9.74	90.87		
GOD-MW6d	11/14/2017	10:16	6.92	93.69		
GOD-MW6d	12/31/2017	11:19	9.82	90.79		
GOD-MW6d	1/22/2018	11:58	9.95	90.66		
GOD-MW6d	2/23/2018	14:43	7.97	92.64		
GOD-MW6d	3/1/2018		N/M			
GOD-MW6d	4/25/2018	12:40	7.74	92.87		
GOD-MW6d	5/16/2018	16:37	8.72	91.89		
GOD-MW6d	6/14/2018	12:34	8.60	92.01		
GOD-MW6d	7/17/2018	13:51	7.91	92.70		
GOD-MW6d	8/15/2018	15:25	7.72	92.89		
GOD-MW6d	9/12/2018	9:27	6.09	94.52		
GOD-MW6d	10/25/2018	13:00	9.30	91.31		
GOD-MW6d	11/14/2018	15:48	5.92	94.69		
GOD-MW6d	12/14/2018	12:41	7.16	93.45		
GOD-MW6d	1/24/2019	13:19	8.62	91.99		
GOD-MW6d	2/28/2019	12:27	8.34	92.27		
GOD-MW6d	3/17/2019	13:04	7.95	92.66		
GOD-MW6d	4/15/2019	9:17	5.80	94.81		
GOD-MW6d	5/21/2019	7:28	7.32	93.29		
GOD-MW6d	6/20/2019	9:24	7.52	93.09		
GOD-MW6d	7/17/2019	8:07	6.00	94.61		
GOD-MW6d	8/14/2019	7:28	7.10	93.51		
GOD-MW6d	9/26/2019	9:22	7.78	92.83		
GOD-MW6d	10/24/2019	13:23	8.79	91.82		
GOD-MW6d	11/14/2019	8:00	8.86	91.75		
GOD-MW6d	12/13/2019	9:51	6.93	93.68		
GOD-MW7s	1/30/2012	16:05	5.79	94.64	<|0.05|	0
GOD-MW7s	2/9/2012	12:31	6.06	94.37	<|0.05|	0
GOD-MW7s	3/5/2012	9:43	3.51	96.92	0.24	0.01
GOD-MW7s	4/9/2012	13:12	5.14	95.29	<|0.05|	0
GOD-MW7s	5/9/2012	18:33	9.40	91.03	-0.07	-0.00
GOD-MW7s	6/20/2012	13:08	5.31	95.12	0.09	0.00
GOD-MW7s	7/11/2012	13:09	6.27	94.16	0.06	0.00
GOD-MW7s	8/20/2012	15:24	5.45	94.98	0.07	0.00
GOD-MW7s	9/20/2012	9:36	6.00	94.43	0.05	0.00
GOD-MW7s	10/19/2012	10:33	9.83	90.60	<|0.05|	0
GOD-MW7s	12/3/2012	13:38	9.92	90.51	<|0.05|	0
GOD-MW7s	12/31/2012	12:25	9.89	90.54	<|0.05|	0
GOD-MW7s	1/15/2013	10:45	9.06	91.37	-0.18	-0.01
GOD-MW7s	2/16/2013	18:04	9.13	91.30	<|0.05|	0
GOD-MW7s	3/19/2013	9:21	8.55	91.88	<|0.05|	0
GOD-MW7s	4/17/2013	11:40	9.44	90.99	<|0.05|	0
GOD-MW7s	5/29/2013	17:13	9.07	91.36	<|0.05|	0
GOD-MW7s	6/18/2013	13:43	9.74	90.69	<|0.05|	0
GOD-MW7s	7/15/2013	11:58	8.25	92.18	-0.09	-0.00
GOD-MW7s	8/21/2013	8:58	7.13	93.30	-0.08	-0.00
GOD-MW7s	9/9/2013	9:23	9.55	90.88	<|0.05|	0
GOD-MW7s	10/7/2013	12:09	9.56	90.87	<|0.05|	0
GOD-MW7s	11/11/2013	13:38	9.80	90.63	<|0.05|	0
GOD-MW7s	12/17/2013	11:41	9.98	90.45	<|0.05|	0
GOD-MW7s	1/13/2014	10:56	10.00	90.43	<|0.05|	0
GOD-MW7s	2/17/2014	10:13	10.26	90.17	<|0.05|	0
GOD-MW7s	3/17/2014	9:28	10.00	90.43	<|0.05|	0
GOD-MW7s	4/19/2014	9:03	8.64	91.79	<|0.05|	0
GOD-MW7s	5/21/2014	8:38	10.02	90.41	0.06	0.00
GOD-MW7s	6/20/2014	12:11	8.55	91.88	-0.10	-0.00
GOD-MW7s	7/16/2014	16:11	8.60	91.83	-0.06	-0.00
GOD-MW7s	8/29/2014	12:06	7.60	92.83	0.08	0.00
GOD-MW7s	9/19/2014	14:23	4.94	95.49	-0.08	-0.00
GOD-MW7s	10/14/2014	8:30	9.68	90.75	<|0.05|	0
GOD-MW7s	11/10/2014	12:49	9.95	90.48	<|0.05|	0
GOD-MW7s	12/15/2014	9:26	7.38	93.05	<|0.05|	0
GOD-MW7s	1/13/2015	9:58	9.65	90.78	<|0.05|	0
GOD-MW7s	2/5/2015	9:12	9.93	90.50	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
GOD-MW7s	3/13/2015	8:56	10.19	90.24	<|0.05|	0
GOD-MW7s	4/17/2015	8:02	8.19	92.24	<|0.05|	0
GOD-MW7s	5/11/2015	8:47	9.64	90.79	<|0.05|	0
GOD-MW7s	6/4/2015	8:31	10.43	90.00	<|0.05|	0
GOD-MW7s	7/20/2015	10:51	9.74	90.69	<|0.05|	0
GOD-MW7s	8/13/2015	11:07	9.42	91.01	<|0.05|	0
GOD-MW7s	9/14/2015	17:24	10.11	90.32	0.07	0.00
GOD-MW7s	10/16/2015	16:36	10.53	89.90	0.06	0.00
GOD-MW7s	11/12/2015	9:19	10.89	89.54	<|0.05|	0
GOD-MW7s	12/31/2015	13:07	11.23	89.20	<|0.05|	0
GOD-MW7s	1/16/2016	17:24	11.19	89.24	<|0.05|	0
GOD-MW7s	2/26/2016	14:25	8.11	92.32	<|0.05|	0
GOD-MW7s	3/19/2016	11:31	7.59	92.84	-0.09	-0.00
GOD-MW7s	4/18/2016	15:42	8.52	91.91	<|0.05|	0
GOD-MW7s	5/16/2016	9:09	10.05	90.38	<|0.05|	0
GOD-MW7s	6/17/2016	9:46	9.42	91.01	0.06	0.00
GOD-MW7s	7/22/2016	11:31	8.18	92.25	<|0.05|	0
GOD-MW7s	8/16/2016	9:34	8.86	91.57	0.10	0.00
GOD-MW7s	9/16/2016	15:02	5.16	95.27	0.08	0.00
GOD-MW7s	10/14/2016	15:43	8.09	92.34	<|0.05|	0
GOD-MW7s	11/21/2016	9:45	10.53	89.90	<|0.05|	0
GOD-MW7s	12/13/2016	14:02	10.62	89.81	<|0.05|	0
GOD-MW7s	1/26/2017	13:17	8.16	92.27	<|0.05|	0
GOD-MW7s	2/1/2017		N/M			
GOD-MW7s	3/13/2017	10:14	9.57	90.86	<|0.05|	0
GOD-MW7s	4/21/2017	11:39	9.27	91.16	<|0.05|	0
GOD-MW7s	5/16/2017	9:13	9.60	90.83	<|0.05|	0
GOD-MW7s	6/23/2017	8:14	9.53	90.90	<|0.05|	0
GOD-MW7s	7/14/2017	8:15	6.22	94.21	-0.07	-0.00
GOD-MW7s	8/22/2017	7:44	4.81	95.62	<|0.05|	0
GOD-MW7s	9/23/2017	11:58	9.16	91.27	<|0.05|	0
GOD-MW7s	10/20/2017	13:51	9.62	90.81	<|0.05|	0
GOD-MW7s	11/14/2017	10:13	5.70	94.73	-0.06	-0.00
GOD-MW7s	12/31/2017	11:14	9.41	91.02	<|0.05|	0
GOD-MW7s	1/22/2018	11:54	9.47	90.96	<|0.05|	0
GOD-MW7s	2/23/2018	14:46	6.73	93.70	0.07	0.00
GOD-MW7s	3/1/2018		N/M			
GOD-MW7s	4/25/2018	12:36	8.31	92.12	<|0.05|	0
GOD-MW7s	5/16/2018	16:36	8.65	91.78	<|0.05|	0
GOD-MW7s	6/14/2018	12:26	8.90	91.53	<|0.05|	0
GOD-MW7s	7/17/2018	13:47	8.06	92.37	0.08	0.00
GOD-MW7s	8/15/2018	15:22	7.20	93.23	<|0.05|	0
GOD-MW7s	9/12/2018	9:30	6.09	94.34	<|0.05|	0
GOD-MW7s	10/25/2018	13:03	9.05	91.38	<|0.05|	0
GOD-MW7s	11/14/2018	15:43	5.07	95.36	-0.07	-0.00
GOD-MW7s	12/14/2018	12:38	6.09	94.34	<|0.05|	0
GOD-MW7s	1/24/2019	13:16	8.40	92.03	<|0.05|	0
GOD-MW7s	2/28/2019	12:24	8.29	92.14	<|0.05|	0
GOD-MW7s	3/17/2019	13:01	6.56	93.87	<|0.05|	0
GOD-MW7s	4/15/2019	9:19	4.80	95.63	<|0.05|	0
GOD-MW7s	5/21/2019	7:31	6.42	94.01	<|0.05|	0
GOD-MW7s	6/20/2019	9:27	8.05	92.38	<|0.05|	0
GOD-MW7s	7/17/2019	8:11	5.16	95.27	<|0.05|	0
GOD-MW7s	8/14/2019	7:25	6.44	93.99	<|0.05|	0
GOD-MW7s	9/26/2019	9:28	8.22	92.21	<|0.05|	0
GOD-MW7s	10/24/2019	13:26	8.73	91.70	<|0.05|	0
GOD-MW7s	11/14/2019	7:56	8.78	91.65	<|0.05|	0
GOD-MW7s	12/13/2019	9:53	7.04	93.39	<|0.05|	0
GOD-MW7d	1/30/2012	16:05	5.75	94.60		
GOD-MW7d	2/9/2012	12:32	6.02	94.33		
GOD-MW7d	3/5/2012	9:45	3.67	96.68		
GOD-MW7d	4/9/2012	13:13	5.06	95.29		
GOD-MW7d	5/9/2012	18:34	9.25	91.10		
GOD-MW7d	6/20/2012	13:09	5.32	95.03		
GOD-MW7d	7/11/2012	13:09	6.25	94.10		
GOD-MW7d	8/20/2012	15:24	5.44	94.91		
GOD-MW7d	9/20/2012	9:37	5.97	94.38		
GOD-MW7d	10/19/2012	10:33	9.75	90.60		
GOD-MW7d	12/3/2012	13:38	9.88	90.47		
GOD-MW7d	12/31/2012	12:26	9.84	90.51		
GOD-MW7d	1/15/2013	10:45	8.80	91.55		
GOD-MW7d	2/16/2013	18:04	9.08	91.27		
GOD-MW7d	3/19/2013	9:21	8.45	91.90		
GOD-MW7d	4/17/2013	11:40	9.39	90.96		
GOD-MW7d	5/29/2013	17:13	8.95	91.40		
GOD-MW7d	6/18/2013	13:44	9.66	90.69		
GOD-MW7d	7/15/2013	11:58	8.08	92.27		
GOD-MW7d	8/21/2013	8:58	6.97	93.38		
GOD-MW7d	9/9/2013	9:23	9.48	90.87		
GOD-MW7d	10/7/2013	12:09	9.48	90.87		
GOD-MW7d	11/11/2013	13:38	9.73	90.62		
GOD-MW7d	12/17/2013	11:41	9.91	90.44		
GOD-MW7d	1/13/2014	10:56	9.93	90.42		
GOD-MW7d	2/17/2014	10:13	10.21	90.14		
GOD-MW7d	3/17/2014	9:28	9.93	90.42		
GOD-MW7d	4/19/2014	9:03	8.54	91.81		
GOD-MW7d	5/21/2014	8:38	10.00	90.35		
GOD-MW7d	6/20/2014	12:11	8.37	91.98		
GOD-MW7d	7/16/2014	16:11	8.46	91.89		
GOD-MW7d	8/29/2014	12:06	7.60	92.75		
GOD-MW7d	9/19/2014	14:23	4.78	95.57		
GOD-MW7d	10/14/2014	8:30	9.60	90.75		
GOD-MW7d	11/10/2014	12:49	9.87	90.48		
GOD-MW7d	12/15/2014	9:26	7.28	93.07		
GOD-MW7d	1/13/2015	9:58	9.62	90.73		
GOD-MW7d	2/5/2015	9:12	9.88	90.47		
GOD-MW7d	3/13/2015	8:56	10.13	90.22		
GOD-MW7d	4/17/2015	8:02	8.15	92.20		
GOD-MW7d	5/11/2015	8:47	9.54	90.81		
GOD-MW7d	6/4/2015	8:31	10.33	90.02		
GOD-MW7d	7/20/2015	10:51	9.70	90.65		
GOD-MW7d	8/13/2015	11:07	9.33	91.02		
GOD-MW7d	9/14/2015	17:24	10.10	90.25		
GOD-MW7d	10/16/2015	16:36	10.51	89.84		
GOD-MW7d	11/12/2015	9:19	10.85	89.50		
GOD-MW7d	12/31/2015	13:08	11.19	89.16		
GOD-MW7d	1/16/2016	17:25	11.15	89.20		
GOD-MW7d	2/26/2016	14:26	8.08	92.27		
GOD-MW7d	3/19/2016	11:31	7.42	92.93		
GOD-MW7d	4/18/2016	15:41	8.48	91.87		
GOD-MW7d	5/16/2016	9:09	9.94	90.41		
GOD-MW7d	6/17/2016	9:47	9.40	90.95		
GOD-MW7d	7/22/2016	11:31	8.09	92.26		
GOD-MW7d	8/16/2016	9:35	8.88	91.47		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
GOD-MW7d	9/16/2016	15:03	5.16	95.19		
GOD-MW7d	10/14/2016	15:44	8.06	92.29		
GOD-MW7d	11/21/2016	9:46	10.47	89.88		
GOD-MW7d	12/13/2016	14:03	10.59	89.76		
GOD-MW7d	1/26/2017	13:18	8.05	92.30		
GOD-MW7d	2/1/2017		N/M			
GOD-MW7d	3/13/2017	10:14	9.51	90.84		
GOD-MW7d	4/21/2017	11:40	9.16	91.19		
GOD-MW7d	5/16/2017	9:13	9.48	90.87		
GOD-MW7d	6/23/2017	8:14	9.49	90.86		
GOD-MW7d	7/14/2017	8:15	6.07	94.28		
GOD-MW7d	8/22/2017	7:44	4.73	95.62		
GOD-MW7d	9/23/2017	11:59	9.08	91.27		
GOD-MW7d	10/20/2017	13:52	9.55	90.80		
GOD-MW7d	11/14/2017	10:14	5.56	94.79		
GOD-MW7d	12/31/2017	11:15	9.33	91.02		
GOD-MW7d	1/22/2018	11:55	9.42	90.93		
GOD-MW7d	2/23/2018	14:46	6.72	93.63		
GOD-MW7d	3/1/2018		N/M			
GOD-MW7d	4/25/2018	12:36	8.23	92.12		
GOD-MW7d	5/16/2018	16:36	8.56	91.79		
GOD-MW7d	6/14/2018	12:26	8.85	91.50		
GOD-MW7d	7/17/2018	13:48	8.06	92.29		
GOD-MW7d	8/15/2018	15:23	7.17	93.18		
GOD-MW7d	9/12/2018	9:30	5.96	94.39		
GOD-MW7d	10/25/2018	13:03	9.00	91.35		
GOD-MW7d	11/14/2018	15:44	4.92	95.43		
GOD-MW7d	12/14/2018	12:39	6.00	94.35		
GOD-MW7d	1/24/2019	13:17	8.29	92.06		
GOD-MW7d	2/28/2019	12:24	8.20	92.15		
GOD-MW7d	3/17/2019	13:00	6.46	93.89		
GOD-MW7d	4/15/2019	9:19	4.71	95.64		
GOD-MW7d	5/21/2019	7:31	6.32	94.03		
GOD-MW7d	6/20/2019	9:27	7.95	92.40		
GOD-MW7d	7/17/2019	8:11	5.12	95.23		
GOD-MW7d	8/14/2019	7:25	6.38	93.97		
GOD-MW7d	9/26/2019	9:28	8.15	92.20		
GOD-MW7d	10/24/2019	13:26	8.68	91.67		
GOD-MW7d	11/14/2019	7:56	8.65	91.70		
GOD-MW7d	12/13/2019	9:53	6.92	93.43		
MAC-MW1s	1/30/2012	15:05	6.87	93.56	<|0.05|	0
MAC-MW1s	2/9/2012	15:14	7.61	92.82	<|0.05|	0
MAC-MW1s	3/5/2012	10:07	4.96	95.47	<|0.05|	0
MAC-MW1s	4/9/2012	12:40	7.51	92.92	<|0.05|	0
MAC-MW1s	5/11/2012	11:48	6.04	94.39	<|0.05|	0
MAC-MW1s	6/20/2012	12:25	6.74	93.69	<|0.05|	0
MAC-MW1s	7/11/2012	14:35	7.66	92.77	<|0.05|	0
MAC-MW1s	8/17/2012	10:29	6.28	94.15	<|0.05|	0
MAC-MW1s	9/20/2012	10:43	6.95	93.48	<|0.05|	0
MAC-MW1s	10/19/2012	10:00	5.68	94.75	<|0.05|	0
MAC-MW1s	12/3/2012	15:44	5.62	94.81	<|0.05|	0
MAC-MW1s	12/31/2012	11:11	6.15	94.28	<|0.05|	0
MAC-MW1s	1/15/2013	10:13	6.53	93.90	-0.06	-0.00
MAC-MW1s	2/16/2013	17:38	8.15	92.28	<|0.05|	0
MAC-MW1s	3/18/2013	12:31	6.29	94.14	<|0.05|	0
MAC-MW1s	4/17/2013	13:08	8.21	92.22	<|0.05|	0
MAC-MW1s	5/30/2013	12:20	7.86	92.57	<|0.05|	0
MAC-MW1s	6/18/2013	13:00	7.37	93.06	<|0.05|	0
MAC-MW1s	7/15/2013	13:02	5.11	95.32	<|0.05|	0
MAC-MW1s	8/21/2013	12:51	5.05	95.38	<|0.05|	0
MAC-MW1s	9/9/2013	9:38	6.39	94.04	<|0.05|	0
MAC-MW1s	10/7/2013	12:24	8.33	92.10	<|0.05|	0
MAC-MW1s	11/12/2013	9:11	7.58	92.85	<|0.05|	0
MAC-MW1s	12/17/2013	11:58	8.69	91.74	<|0.05|	0
MAC-MW1s	1/13/2014	11:11	9.39	91.04	<|0.05|	0
MAC-MW1s	2/17/2014	16:40	6.43	94.00	<|0.05|	0
MAC-MW1s	3/17/2014	10:43	7.68	92.75	<|0.05|	0
MAC-MW1s	4/19/2014	10:11	8.51	91.92	-0.12	-0.01
MAC-MW1s	5/22/2014	9:00	7.27	93.16	<|0.05|	0
MAC-MW1s	6/20/2014	13:07	6.63	93.80	-0.06	-0.00
MAC-MW1s	7/16/2014	17:14	5.70	94.73	<|0.05|	0
MAC-MW1s	8/28/2014	17:20	8.29	92.14	<|0.05|	0
MAC-MW1s	9/19/2014	13:24	8.19	92.24	<|0.05|	0
MAC-MW1s	10/14/2014	8:50	8.29	92.14	<|0.05|	0
MAC-MW1s	11/10/2014	12:26	6.22	94.21	<|0.05|	0
MAC-MW1s	12/15/2014	11:06	4.10	96.33	<|0.05|	0
MAC-MW1s	1/13/2015	10:59	5.53	94.90	-0.14	-0.01
MAC-MW1s	2/5/2015	8:25	6.91	93.52	<|0.05|	0
MAC-MW1s	3/13/2015	9:10	8.36	92.07	<|0.05|	0
MAC-MW1s	4/17/2015	8:16	5.59	94.84	<|0.05|	0
MAC-MW1s	5/11/2015	13:50	8.17	92.26	<|0.05|	0
MAC-MW1s	6/4/2015	8:54	8.76	91.67	<|0.05|	0
MAC-MW1s	7/20/2015	11:52	6.45	93.98	<|0.05|	0
MAC-MW1s	8/14/2015	10:04	7.70	92.73	<|0.05|	0
MAC-MW1s	9/14/2015	16:17	9.63	90.80	<|0.05|	0
MAC-MW1s	10/16/2015	15:55	7.33	93.10	<|0.05|	0
MAC-MW1s	11/12/2015	14:17	5.82	94.61	<|0.05|	0
MAC-MW1s	12/31/2015	12:09	8.66	91.77	<|0.05|	0
MAC-MW1s	1/16/2016	16:23	8.23	92.20	<|0.05|	0
MAC-MW1s	2/26/2016	12:29	7.90	92.53	<|0.05|	0
MAC-MW1s	3/19/2016	9:59	3.73	96.70	0.80	0.06
MAC-MW1s	4/18/2016	15:01	7.91	92.52	<|0.05|	0
MAC-MW1s	5/16/2016	13:25	6.14	94.29	<|0.05|	0
MAC-MW1s	6/17/2016	10:28	8.08	92.35	<|0.05|	0
MAC-MW1s	7/22/2016	10:49	6.23	94.20	-0.10	-0.01
MAC-MW1s	8/16/2016	14:36	5.88	94.55	<|0.05|	0
MAC-MW1s	9/16/2016	14:20	8.46	91.97	<|0.05|	0
MAC-MW1s	10/14/2016	15:24	9.41	91.02	<|0.05|	0
MAC-MW1s	11/21/2016	13:25	7.27	93.16	<|0.05|	0
MAC-MW1s	12/13/2016	14:43	8.27	92.16	<|0.05|	0
MAC-MW1s	1/26/2017	12:56	4.33	96.10	<|0.05|	0
MAC-MW1s	2/1/2017		N/M			
MAC-MW1s	3/13/2017	13:50	6.00	94.43	<|0.05|	0
MAC-MW1s	4/21/2017	12:34	7.49	92.94	<|0.05|	0
MAC-MW1s	5/16/2017	13:00	5.67	94.76	<|0.05|	0
MAC-MW1s	6/23/2017	8:33	8.52	91.91	<|0.05|	0
MAC-MW1s	7/14/2017	8:33	6.55	93.88	<|0.05|	0
MAC-MW1s	8/22/2017	10:50	6.23	94.20	-0.10	-0.01
MAC-MW1s	9/23/2017	12:58	8.45	91.98	<|0.05|	0
MAC-MW1s	10/20/2017	13:33	6.50	93.93	<|0.05|	0
MAC-MW1s	11/14/2017	15:52	7.48	92.95	<|0.05|	0
MAC-MW1s	12/31/2017	10:44	8.80	91.63	<|0.05|	0
MAC-MW1s	1/22/2018	13:19	8.26	92.17	<|0.05|	0
MAC-MW1s	2/23/2018	11:59	6.94	93.49	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MAC-MW1s	3/1/2018		N/M			
MAC-MW1s	4/25/2018	13:46	8.58	91.85	<|0.05|	0
MAC-MW1s	5/16/2018	14:41	6.49	93.94	<|0.05|	0
MAC-MW1s	6/14/2018	13:35	8.63	91.80	<|0.05|	0
MAC-MW1s	7/17/2018	13:30	5.21	95.22	<|0.05|	0
MAC-MW1s	8/17/2018	13:24	5.28	95.15	<|0.05|	0
MAC-MW1s	9/12/2018	9:46	7.85	92.58	<|0.05|	0
MAC-MW1s	10/25/2018	13:18	9.20	91.23	<|0.05|	0
MAC-MW1s	11/14/2018	13:37	6.62	93.81	<|0.05|	0
MAC-MW1s	12/14/2018	13:37	7.32	93.11	<|0.05|	0
MAC-MW1s	1/24/2019	14:18	6.52	93.91	<|0.05|	0
MAC-MW1s	2/28/2019	10:15	6.65	93.78	<|0.05|	0
MAC-MW1s	3/17/2019	13:52	7.34	93.09	<|0.05|	0
MAC-MW1s	4/15/2019	9:34	5.56	94.87	<|0.05|	0
MAC-MW1s	5/21/2019	11:37	8.17	92.26	<|0.05|	0
MAC-MW1s	6/20/2019	9:47	7.05	93.38	<|0.05|	0
MAC-MW1s	7/17/2019	8:27	6.52	93.91	<|0.05|	0
MAC-MW1s	8/14/2019	10:36	6.22	94.21	<|0.05|	0
MAC-MW1s	9/26/2019	9:44	N/M			
MAC-MW1s	10/24/2019	13:46	8.31	92.12	<|0.05|	0
MAC-MW1s	11/14/2019	10:51	5.94	94.49	<|0.05|	0
MAC-MW1s	12/13/2019	10:10	N/M			
MAC-MW1d	1/30/2012	15:05	6.79	93.55		
MAC-MW1d	2/9/2012	15:15	7.51	92.83		
MAC-MW1d	3/5/2012	10:08	4.87	95.47		
MAC-MW1d	4/9/2012	12:41	7.42	92.92		
MAC-MW1d	5/11/2012	11:49	5.95	94.39		
MAC-MW1d	6/20/2012	12:26	6.66	93.68		
MAC-MW1d	7/11/2012	14:35	7.55	92.79		
MAC-MW1d	8/17/2012	10:29	6.17	94.17		
MAC-MW1d	9/20/2012	10:43	6.84	93.50		
MAC-MW1d	10/19/2012	10:00	5.58	94.76		
MAC-MW1d	12/3/2012	15:44	5.52	94.82		
MAC-MW1d	12/31/2012	11:12	6.05	94.29		
MAC-MW1d	1/15/2013	10:13	6.38	93.96		
MAC-MW1d	2/16/2013	17:38	8.02	92.32		
MAC-MW1d	3/18/2013	12:31	6.20	94.14		
MAC-MW1d	4/17/2013	13:08	8.13	92.21		
MAC-MW1d	5/30/2013	12:20	7.77	92.57		
MAC-MW1d	6/18/2013	13:01	7.30	93.04		
MAC-MW1d	7/15/2013	13:02	5.02	95.32		
MAC-MW1d	8/21/2013	12:51	4.94	95.40		
MAC-MW1d	9/9/2013	9:38	6.30	94.04		
MAC-MW1d	10/7/2013	12:24	8.24	92.10		
MAC-MW1d	11/12/2013	9:11	7.48	92.86		
MAC-MW1d	12/17/2013	11:58	8.65	91.69		
MAC-MW1d	1/13/2014	11:11	9.29	91.05		
MAC-MW1d	2/17/2014	16:40	6.34	94.00		
MAC-MW1d	3/17/2014	10:43	7.59	92.75		
MAC-MW1d	4/19/2014	10:11	8.30	92.04		
MAC-MW1d	5/22/2014	9:00	7.20	93.14		
MAC-MW1d	6/20/2014	13:07	6.48	93.86		
MAC-MW1d	7/16/2014	17:14	5.60	94.74		
MAC-MW1d	8/28/2014	17:20	8.21	92.13		
MAC-MW1d	9/19/2014	13:24	8.11	92.23		
MAC-MW1d	10/14/2014	8:50	8.19	92.15		
MAC-MW1d	11/10/2014	12:26	6.13	94.21		
MAC-MW1d	12/15/2014	11:06	3.98	96.36		
MAC-MW1d	1/13/2015	10:59	5.30	95.04		
MAC-MW1d	2/5/2015	8:25	6.81	93.53		
MAC-MW1d	3/13/2015	9:10	8.28	92.06		
MAC-MW1d	4/17/2015	8:16	5.49	94.85		
MAC-MW1d	5/11/2015	13:50	8.07	92.27		
MAC-MW1d	6/4/2015	8:54	8.67	91.67		
MAC-MW1d	7/20/2015	11:52	6.35	93.99		
MAC-MW1d	8/14/2015	10:05	7.61	92.73		
MAC-MW1d	9/14/2015	16:17	9.53	90.81		
MAC-MW1d	10/16/2015	15:55	7.22	93.12		
MAC-MW1d	11/12/2015	14:17	5.74	94.60		
MAC-MW1d	12/31/2015	12:10	8.57	91.77		
MAC-MW1d	1/16/2016	16:24	8.15	92.19		
MAC-MW1d	2/26/2016	12:30	7.81	92.53		
MAC-MW1d	3/19/2016	9:59	4.44	95.90		
MAC-MW1d	4/18/2016	15:00	7.82	92.52		
MAC-MW1d	5/16/2016	13:24	6.05	94.29		
MAC-MW1d	6/17/2016	10:29	8.00	92.34		
MAC-MW1d	7/22/2016	10:49	6.04	94.30		
MAC-MW1d	8/16/2016	14:37	5.75	94.59		
MAC-MW1d	9/16/2016	14:21	8.36	91.98		
MAC-MW1d	10/14/2016	15:25	9.32	91.02		
MAC-MW1d	11/21/2016	13:26	7.18	93.16		
MAC-MW1d	12/13/2016	14:44	8.19	92.15		
MAC-MW1d	1/26/2017	12:57	4.23	96.11		
MAC-MW1d	2/1/2017		N/M			
MAC-MW1d	3/13/2017	13:50	5.92	94.42		
MAC-MW1d	4/21/2017	12:35	7.41	92.93		
MAC-MW1d	5/16/2017	13:00	5.59	94.75		
MAC-MW1d	6/23/2017	8:33	8.45	91.89		
MAC-MW1d	7/14/2017	8:33	6.44	93.90		
MAC-MW1d	8/22/2017	10:50	6.04	94.30		
MAC-MW1d	9/23/2017	12:59	8.37	91.97		
MAC-MW1d	10/20/2017	13:34	6.39	93.95		
MAC-MW1d	11/14/2017	15:53	7.40	92.94		
MAC-MW1d	12/31/2017	10:45	8.72	91.62		
MAC-MW1d	1/22/2018	13:20	8.19	92.15		
MAC-MW1d	2/23/2018	12:00	6.86	93.48		
MAC-MW1d	3/1/2018		N/M			
MAC-MW1d	4/25/2018	13:46	8.52	91.82		
MAC-MW1d	5/16/2018	14:41	6.39	93.95		
MAC-MW1d	6/14/2018	13:35	8.52	91.82		
MAC-MW1d	7/17/2018	13:31	5.12	95.22		
MAC-MW1d	8/17/2018	13:24	5.20	95.14		
MAC-MW1d	9/12/2018	9:46	7.77	92.57		
MAC-MW1d	10/25/2018	13:18	9.11	91.23		
MAC-MW1d	11/14/2018	13:36	6.58	93.76		
MAC-MW1d	12/14/2018	13:38	7.24	93.10		
MAC-MW1d	1/24/2019	14:19	6.44	93.90		
MAC-MW1d	2/28/2019	10:15	6.55	93.79		
MAC-MW1d	3/17/2019	13:53	7.25	93.09		
MAC-MW1d	4/15/2019	9:34	5.45	94.89		
MAC-MW1d	5/21/2019	11:37	8.11	92.23		
MAC-MW1d	6/20/2019	9:47	6.95	93.39		
MAC-MW1d	7/17/2019	8:27	6.40	93.94		
MAC-MW1d	8/14/2019	10:36	6.12	94.22		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MAC-MW1d	9/26/2019	9:44	N/M			
MAC-MW1d	10/24/2019	13:46	8.23	92.11		
MAC-MW1d	11/14/2019	10:51	5.82	94.52		
MAC-MW1d	12/13/2019	10:10	N/M			
MAC-MW2s	1/30/2012	15:10	6.04	93.38	<|0.05|	0
MAC-MW2s	2/9/2012	14:53	6.71	92.71	<|0.05|	0
MAC-MW2s	3/5/2012	10:10	3.66	95.76	<|0.05|	0
MAC-MW2s	4/9/2012	12:44	6.56	92.86	<|0.05|	0
MAC-MW2s	5/11/2012	12:00	5.32	94.10	<|0.05|	0
MAC-MW2s	6/20/2012	12:31	3.98	95.44	<|0.05|	0
MAC-MW2s	7/11/2012	14:32	5.00	94.42	0.07	0.01
MAC-MW2s	8/17/2012	10:31	5.05	94.37	<|0.05|	0
MAC-MW2s	9/20/2012	10:47	5.74	93.68	<|0.05|	0
MAC-MW2s	10/19/2012	9:57	5.23	94.19	<|0.05|	0
MAC-MW2s	12/3/2012	15:47	6.05	93.37	0.06	0.00
MAC-MW2s	12/31/2012	11:06	6.22	93.20	<|0.05|	0
MAC-MW2s	1/15/2013	10:10	6.36	93.06	<|0.05|	0
MAC-MW2s	2/16/2013	17:36	7.33	92.09	<|0.05|	0
MAC-MW2s	3/18/2013	12:35	5.07	94.35	<|0.05|	0
MAC-MW2s	4/17/2013	13:12	7.26	92.16	<|0.05|	0
MAC-MW2s	5/30/2013	12:24	6.79	92.63	<|0.05|	0
MAC-MW2s	6/18/2013	13:03	5.60	93.82	<|0.05|	0
MAC-MW2s	7/15/2013	13:06	4.31	95.11	<|0.05|	0
MAC-MW2s	8/21/2013	12:56	3.67	95.75	<|0.05|	0
MAC-MW2s	9/9/2013	9:35	4.32	95.10	<|0.05|	0
MAC-MW2s	10/7/2013	12:20	7.42	92.00	<|0.05|	0
MAC-MW2s	11/12/2013	9:14	6.62	92.80	<|0.05|	0
MAC-MW2s	12/17/2013	11:55	7.80	91.62	0.06	0.00
MAC-MW2s	1/13/2014	11:15	8.77	90.65	<|0.05|	0
MAC-MW2s	2/17/2014	16:44	4.48	94.94	<|0.05|	0
MAC-MW2s	3/17/2014	10:49	6.51	92.91	<|0.05|	0
MAC-MW2s	4/19/2014	10:15	7.64	91.78	<|0.05|	0
MAC-MW2s	5/22/2014	8:53	5.96	93.46	<|0.05|	0
MAC-MW2s	6/20/2014	13:10	6.80	92.62	0.05	0.00
MAC-MW2s	7/16/2014	17:16	4.88	94.54	<|0.05|	0
MAC-MW2s	8/28/2014	17:25	8.06	91.36	0.06	0.00
MAC-MW2s	9/19/2014	13:21	7.68	91.74	<|0.05|	0
MAC-MW2s	10/14/2014	8:46	7.82	91.60	0.09	0.01
MAC-MW2s	11/10/2014	12:30	4.52	94.90	<|0.05|	0
MAC-MW2s	12/15/2014	10:54	3.42	96.00	0.06	0.00
MAC-MW2s	1/13/2015	11:05	5.44	93.98	<|0.05|	0
MAC-MW2s	2/5/2015	8:30	6.55	92.87	<|0.05|	0
MAC-MW2s	3/13/2015	9:07	7.33	92.09	<|0.05|	0
MAC-MW2s	4/17/2015	8:12	4.91	94.51	<|0.05|	0
MAC-MW2s	5/11/2015	13:55	7.23	92.19	0.06	0.00
MAC-MW2s	6/4/2015	8:51	7.61	91.81	<|0.05|	0
MAC-MW2s	7/20/2015	11:57	4.21	95.21	<|0.05|	0
MAC-MW2s	8/14/2015	10:09	6.91	92.51	<|0.05|	0
MAC-MW2s	9/14/2015	16:27	8.82	90.60	0.06	0.00
MAC-MW2s	10/16/2015	15:58	7.61	91.81	<|0.05|	0
MAC-MW2s	11/12/2015	14:21	4.47	94.95	0.33	0.03
MAC-MW2s	12/31/2015	12:13	7.86	91.56	0.09	0.01
MAC-MW2s	1/16/2016	16:26	7.70	91.72	<|0.05|	0
MAC-MW2s	2/26/2016	12:32	7.28	92.14	0.07	0.01
MAC-MW2s	3/19/2016	10:18	4.58	94.84	0.08	0.01
MAC-MW2s	4/18/2016	15:02	7.05	92.37	<|0.05|	0
MAC-MW2s	5/16/2016	13:23	5.02	94.40	<|0.05|	0
MAC-MW2s	6/17/2016	10:31	6.76	92.66	<|0.05|	0
MAC-MW2s	7/22/2016	10:44	4.68	94.74	<|0.05|	0
MAC-MW2s	8/16/2016	14:33	4.93	94.49	0.06	0.00
MAC-MW2s	9/16/2016	14:23	7.55	91.87	<|0.05|	0
MAC-MW2s	10/14/2016	15:27	8.17	91.25	<|0.05|	0
MAC-MW2s	11/21/2016	13:22	6.24	93.18	<|0.05|	0
MAC-MW2s	12/13/2016	14:47	7.37	92.05	<|0.05|	0
MAC-MW2s	1/26/2017	13:00	3.39	96.03	<|0.05|	0
MAC-MW2s	2/1/2017		N/M			
MAC-MW2s	3/13/2017	13:52	5.13	94.29	<|0.05|	0
MAC-MW2s	4/21/2017	12:36	6.70	92.72	0.06	0.00
MAC-MW2s	5/16/2017	13:05	4.07	95.35	<|0.05|	0
MAC-MW2s	6/23/2017	8:29	7.10	92.32	0.06	0.00
MAC-MW2s	7/14/2017	8:30	4.82	94.60	<|0.05|	0
MAC-MW2s	8/22/2017	10:52	5.10	94.32	<|0.05|	0
MAC-MW2s	9/23/2017	13:00	7.41	92.01	0.06	0.00
MAC-MW2s	10/20/2017	13:35	5.08	94.34	<|0.05|	0
MAC-MW2s	11/14/2017	15:48	6.57	92.85	<|0.05|	0
MAC-MW2s	12/31/2017	10:47	7.97	91.45	0.14	0.01
MAC-MW2s	1/22/2018	13:23	7.70	91.72	0.07	0.01
MAC-MW2s	2/23/2018	12:04	4.63	94.79	0.05	0.00
MAC-MW2s	3/1/2018		N/M			
MAC-MW2s	4/25/2018	13:50	7.66	91.76	<|0.05|	0
MAC-MW2s	5/16/2018	14:42	5.32	94.10	<|0.05|	0
MAC-MW2s	6/14/2018	13:40	7.41	92.01	0.05	0.00
MAC-MW2s	7/17/2018	13:33	4.65	94.77	<|0.05|	0
MAC-MW2s	8/17/2018	13:28	4.80	94.62	<|0.05|	0
MAC-MW2s	9/12/2018	9:41	6.95	92.47	<|0.05|	0
MAC-MW2s	10/25/2018	13:14	8.20	91.22	<|0.05|	0
MAC-MW2s	11/14/2018	13:33	5.74	93.68	<|0.05|	0
MAC-MW2s	12/14/2018	13:40	6.65	92.77	<|0.05|	0
MAC-MW2s	1/24/2019	14:22	6.57	92.85	0.07	0.01
MAC-MW2s	2/28/2019	10:19	6.11	93.31	0.07	0.01
MAC-MW2s	3/17/2019	13:54	6.81	92.61	<|0.05|	0
MAC-MW2s	4/15/2019	9:31	4.62	94.80	<|0.05|	0
MAC-MW2s	5/21/2019	11:40	7.22	92.20	<|0.05|	0
MAC-MW2s	6/20/2019	9:39	5.72	93.70	-0.06	-0.00
MAC-MW2s	7/17/2019	8:24	5.97	93.45	<|0.05|	0
MAC-MW2s	8/14/2019	10:40	4.56	94.86	<|0.05|	0
MAC-MW2s	9/26/2019	9:40	6.33	93.09	<|0.05|	0
MAC-MW2s	10/24/2019	13:43	7.32	92.10	<|0.05|	0
MAC-MW2s	11/14/2019	10:50	6.10	93.32	<|0.05|	0
MAC-MW2s	12/13/2019	10:07	4.50	94.92	<|0.05|	0
MAC-MW2d	1/30/2012	15:10	5.82	93.34		
MAC-MW2d	2/9/2012	14:54	6.46	92.70		
MAC-MW2d	3/5/2012	10:10	3.42	95.74		
MAC-MW2d	4/9/2012	12:45	6.33	92.83		
MAC-MW2d	5/11/2012	12:01	5.10	94.06		
MAC-MW2d	6/20/2012	12:32	3.75	95.41		
MAC-MW2d	7/11/2012	14:31	4.81	94.35		
MAC-MW2d	8/17/2012	10:31	4.82	94.34		
MAC-MW2d	9/20/2012	10:47	5.49	93.67		
MAC-MW2d	10/19/2012	9:57	5.00	94.16		
MAC-MW2d	12/3/2012	15:47	5.85	93.31		
MAC-MW2d	12/31/2012	11:07	5.98	93.18		
MAC-MW2d	1/15/2013	10:10	6.15	93.01		
MAC-MW2d	2/16/2013	17:36	7.07	92.09		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MAC-MW2d	3/18/2013	12:35	4.85	94.31		
MAC-MW2d	4/17/2013	13:12	7.03	92.13		
MAC-MW2d	5/30/2013	12:24	6.53	92.63		
MAC-MW2d	6/18/2013	13:04	5.35	93.81		
MAC-MW2d	7/15/2013	13:06	4.05	95.11		
MAC-MW2d	8/21/2013	12:56	3.43	95.73		
MAC-MW2d	9/9/2013	9:35	4.10	95.06		
MAC-MW2d	10/7/2013	12:20	7.20	91.96		
MAC-MW2d	11/12/2013	9:14	6.38	92.78		
MAC-MW2d	12/17/2013	11:55	7.60	91.56		
MAC-MW2d	1/13/2014	11:15	8.54	90.62		
MAC-MW2d	2/17/2014	16:44	4.24	94.92		
MAC-MW2d	3/17/2014	10:49	6.30	92.86		
MAC-MW2d	4/19/2014	10:15	7.41	91.75		
MAC-MW2d	5/22/2014	8:54	5.73	93.43		
MAC-MW2d	6/20/2014	13:10	6.59	92.57		
MAC-MW2d	7/16/2014	17:16	4.64	94.52		
MAC-MW2d	8/28/2014	17:25	7.86	91.30		
MAC-MW2d	9/19/2014	13:21	7.44	91.72		
MAC-MW2d	10/14/2014	8:46	7.65	91.51		
MAC-MW2d	11/10/2014	12:30	4.30	94.86		
MAC-MW2d	12/15/2014	10:54	3.22	95.94		
MAC-MW2d	1/13/2015	11:05	5.23	93.93		
MAC-MW2d	2/5/2015	8:30	6.32	92.84		
MAC-MW2d	3/13/2015	9:07	7.10	92.06		
MAC-MW2d	4/17/2015	8:12	4.68	94.48		
MAC-MW2d	5/11/2015	13:55	7.03	92.13		
MAC-MW2d	6/4/2015	8:51	7.38	91.78		
MAC-MW2d	7/20/2015	11:57	3.97	95.19		
MAC-MW2d	8/14/2015	10:09	6.68	92.48		
MAC-MW2d	9/14/2015	16:27	8.62	90.54		
MAC-MW2d	10/16/2015	15:58	7.38	91.78		
MAC-MW2d	11/12/2015	14:21	4.54	94.62		
MAC-MW2d	12/31/2015	12:14	7.69	91.47		
MAC-MW2d	1/16/2016	16:27	7.44	91.72		
MAC-MW2d	2/26/2016	12:31	7.09	92.07		
MAC-MW2d	3/19/2016	10:18	4.40	94.76		
MAC-MW2d	4/18/2016	15:03	6.82	92.34		
MAC-MW2d	5/16/2016	13:22	4.79	94.37		
MAC-MW2d	6/17/2016	10:32	6.55	92.61		
MAC-MW2d	7/22/2016	10:44	4.44	94.72		
MAC-MW2d	8/16/2016	14:34	4.73	94.43		
MAC-MW2d	9/16/2016	14:24	7.32	91.84		
MAC-MW2d	10/14/2016	15:28	7.96	91.20		
MAC-MW2d	11/21/2016	13:23	5.96	93.20		
MAC-MW2d	12/13/2016	14:48	7.07	92.09		
MAC-MW2d	1/26/2017	13:01	3.14	96.02		
MAC-MW2d	2/1/2017		N/M			
MAC-MW2d	3/13/2017	13:52	4.90	94.26		
MAC-MW2d	4/21/2017	12:37	6.50	92.66		
MAC-MW2d	5/16/2017	13:05	3.83	95.33		
MAC-MW2d	6/23/2017	8:29	6.90	92.26		
MAC-MW2d	7/14/2017	8:30	4.53	94.63		
MAC-MW2d	8/22/2017	10:52	4.87	94.29		
MAC-MW2d	9/23/2017	13:00	7.21	91.95		
MAC-MW2d	10/20/2017	13:36	4.84	94.32		
MAC-MW2d	11/14/2017	15:49	6.32	92.84		
MAC-MW2d	12/31/2017	10:50	7.85	91.31		
MAC-MW2d	1/22/2018	13:24	7.51	91.65		
MAC-MW2d	2/23/2018	12:05	4.42	94.74		
MAC-MW2d	3/1/2018		N/M			
MAC-MW2d	4/25/2018	13:50	7.43	91.73		
MAC-MW2d	5/16/2018	14:42	5.09	94.07		
MAC-MW2d	6/14/2018	13:40	7.20	91.96		
MAC-MW2d	7/17/2018	13:34	4.43	94.73		
MAC-MW2d	8/17/2018	13:28	4.58	94.58		
MAC-MW2d	9/12/2018	9:41	6.73	92.43		
MAC-MW2d	10/25/2018	13:14	7.90	91.26		
MAC-MW2d	11/14/2018	13:32	5.50	93.66		
MAC-MW2d	12/14/2018	13:41	6.42	92.74		
MAC-MW2d	1/24/2019	14:23	6.38	92.78		
MAC-MW2d	2/28/2019	10:19	5.92	93.24		
MAC-MW2d	3/17/2019	13:55	6.60	92.56		
MAC-MW2d	4/15/2019	9:31	4.36	94.80		
MAC-MW2d	5/21/2019	11:40	6.97	92.19		
MAC-MW2d	6/20/2019	9:39	5.40	93.76		
MAC-MW2d	7/17/2019	8:24	5.73	93.43		
MAC-MW2d	8/14/2019	10:40	4.34	94.82		
MAC-MW2d	9/26/2019	9:40	6.10	93.06		
MAC-MW2d	10/24/2019	13:43	7.02	92.14		
MAC-MW2d	11/14/2019	10:50	5.88	93.28		
MAC-MW2d	12/13/2019	10:07	4.26	94.90		
MAC-MW3s	1/30/2012	15:15	6.10	91.96	0.08	0.00
MAC-MW3s	2/9/2012	16:05	5.34	92.72	0.20	0.01
MAC-MW3s	3/5/2012	10:12	4.55	93.51	0.05	0.00
MAC-MW3s	4/9/2012	12:19	6.51	91.55	<|0.05|	0
MAC-MW3s	5/11/2012	10:26	5.00	93.06	-0.09	-0.00
MAC-MW3s	6/20/2012	12:12	6.50	91.56	<|0.05|	0
MAC-MW3s	7/11/2012	14:49	7.48	90.58	<|0.05|	0
MAC-MW3s	8/17/2012	10:20	5.28	92.78	<|0.05|	0
MAC-MW3s	9/20/2012	10:29	5.81	92.25	<|0.05|	0
MAC-MW3s	10/19/2012	10:07	5.75	92.31	-0.15	-0.01
MAC-MW3s	12/3/2012	15:55	4.94	93.12	<|0.05|	0
MAC-MW3s	12/31/2012	11:24	4.48	93.58	-0.06	-0.00
MAC-MW3s	1/15/2013	10:22	4.85	93.21	-0.08	-0.00
MAC-MW3s	2/16/2013	17:26	6.20	91.86	<|0.05|	0
MAC-MW3s	3/18/2013	12:19	5.59	92.47	<|0.05|	0
MAC-MW3s	4/17/2013	12:53	6.88	91.18	<|0.05|	0
MAC-MW3s	5/30/2013	12:16	6.30	91.76	0.06	0.00
MAC-MW3s	6/18/2013	12:50	5.40	92.66	<|0.05|	0
MAC-MW3s	7/15/2013	12:50	5.09	92.97	<|0.05|	0
MAC-MW3s	8/21/2013	12:40	4.88	93.18	-0.15	-0.01
MAC-MW3s	9/9/2013	9:48	5.74	92.32	<|0.05|	0
MAC-MW3s	10/7/2013	12:33	6.83	91.23	<|0.05|	0
MAC-MW3s	11/12/2013	9:00	6.45	91.61	<|0.05|	0
MAC-MW3s	12/17/2013	12:06	7.52	90.54	-0.06	-0.00
MAC-MW3s	1/13/2014	11:04	7.09	90.97	-0.18	-0.01
MAC-MW3s	2/17/2014	16:29	5.51	92.55	<|0.05|	0
MAC-MW3s	3/17/2014	10:32	6.19	91.87	<|0.05|	0
MAC-MW3s	4/19/2014	9:58	7.18	90.88	<|0.05|	0
MAC-MW3s	5/22/2014	9:10	5.96	92.10	<|0.05|	0
MAC-MW3s	6/20/2014	12:56	5.12	92.94	0.14	0.01
MAC-MW3s	7/16/2014	17:04	4.66	93.40	<|0.05|	0
MAC-MW3s	8/28/2014	17:07	5.36	92.70	0.06	0.00

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MAC-MW3s	9/19/2014	13:34	5.50	92.56	<|0.05|	0
MAC-MW3s	10/14/2014	9:02	5.23	92.83	<|0.05|	0
MAC-MW3s	11/10/2014	12:05	4.73	93.33	-0.07	-0.00
MAC-MW3s	12/15/2014	11:17	3.33	94.73	<|0.05|	0
MAC-MW3s	1/13/2015	10:48	5.16	92.90	<|0.05|	0
MAC-MW3s	2/5/2015	8:18	5.63	92.43	<|0.05|	0
MAC-MW3s	3/13/2015	9:19	4.96	93.10	<|0.05|	0
MAC-MW3s	4/17/2015	8:25	6.13	91.93	0.10	0.00
MAC-MW3s	5/11/2015	13:36	5.78	92.28	<|0.05|	0
MAC-MW3s	6/4/2015	9:04	5.36	92.70	<|0.05|	0
MAC-MW3s	7/20/2015	11:41	5.25	92.81	<|0.05|	0
MAC-MW3s	8/14/2015	9:50	5.19	92.87	<|0.05|	0
MAC-MW3s	9/14/2015	16:06	6.02	92.04	<|0.05|	0
MAC-MW3s	10/16/2015	15:45	6.17	91.89	<|0.05|	0
MAC-MW3s	11/12/2015	14:09	4.89	93.17	<|0.05|	0
MAC-MW3s	12/31/2015	12:21	7.02	91.04	<|0.05|	0
MAC-MW3s	1/16/2016	16:31	5.28	92.78	<|0.05|	0
MAC-MW3s	2/26/2016	12:35	5.26	92.80	-0.08	-0.00
MAC-MW3s	3/19/2016	10:08	3.29	94.77	0.09	0.00
MAC-MW3s	4/18/2016	14:52	6.37	91.69	-0.99	-0.05
MAC-MW3s	5/16/2016	13:32	5.19	92.87	<|0.05|	0
MAC-MW3s	6/17/2016	10:20	5.77	92.29	<|0.05|	0
MAC-MW3s	7/22/2016	10:31	5.91	92.15	<|0.05|	0
MAC-MW3s	8/16/2016	14:51	5.29	92.77	-0.11	-0.01
MAC-MW3s	9/16/2016	14:10	6.18	91.88	-0.05	-0.00
MAC-MW3s	10/14/2016	15:16	5.92	92.14	<|0.05|	0
MAC-MW3s	11/21/2016	13:37	5.91	92.15	<|0.05|	0
MAC-MW3s	12/13/2016	14:35	6.30	91.76	<|0.05|	0
MAC-MW3s	1/26/2017	12:40	3.81	94.25	<|0.05|	0
MAC-MW3s	2/1/2017		N/M			
MAC-MW3s	3/13/2017	13:40	5.54	92.52	-0.06	-0.00
MAC-MW3s	4/21/2017	12:27	6.52	91.54	<|0.05|	0
MAC-MW3s	5/16/2017	12:50	5.69	92.37	-0.06	-0.00
MAC-MW3s	6/23/2017	8:42	6.69	91.37	-0.08	-0.00
MAC-MW3s	7/14/2017	8:43	5.70	92.36	-0.15	-0.01
MAC-MW3s	8/22/2017	10:39	5.67	92.39	-0.11	-0.01
MAC-MW3s	9/23/2017	12:50	6.41	91.65	<|0.05|	0
MAC-MW3s	10/20/2017	13:25	6.01	92.05	-0.08	-0.00
MAC-MW3s	11/14/2017	16:00	6.52	91.54	<|0.05|	0
MAC-MW3s	12/31/2017	10:30	7.22	90.84	<|0.05|	0
MAC-MW3s	1/22/2018	13:09	6.78	91.28	<|0.05|	0
MAC-MW3s	2/23/2018	11:44	5.79	92.27	-0.07	-0.00
MAC-MW3s	3/1/2018		N/M			
MAC-MW3s	4/25/2018	13:34	6.00	92.06	<|0.05|	0
MAC-MW3s	5/16/2018	14:36	4.88	93.18	<|0.05|	0
MAC-MW3s	6/14/2018	13:21	5.99	92.07	<|0.05|	0
MAC-MW3s	7/17/2018	13:21	5.57	92.49	<|0.05|	0
MAC-MW3s	8/17/2018	13:16	5.29	92.77	-0.10	-0.00
MAC-MW3s	9/12/2018	9:55	5.85	92.21	<|0.05|	0
MAC-MW3s	10/25/2018	13:28	6.27	91.79	<|0.05|	0
MAC-MW3s	11/14/2018	13:45	5.84	92.22	-0.13	-0.01
MAC-MW3s	12/14/2018	13:30	5.55	92.51	-0.13	-0.01
MAC-MW3s	1/24/2019	14:09	5.00	93.06	-0.15	-0.01
MAC-MW3s	2/28/2019	10:05	4.88	93.18	-0.14	-0.01
MAC-MW3s	3/17/2019	13:45	5.44	92.62	<|0.05|	0
MAC-MW3s	4/15/2019	9:42	5.43	92.63	<|0.05|	0
MAC-MW3s	5/21/2019	11:25	5.18	92.88	<|0.05|	0
MAC-MW3s	6/20/2019	9:53	6.02	92.04	-0.09	-0.00
MAC-MW3s	7/17/2019	8:35	5.30	92.76	-0.10	-0.00
MAC-MW3s	8/14/2019	10:24	4.94	93.12	-0.12	-0.01
MAC-MW3s	9/26/2019	9:58	5.85	92.21	-0.13	-0.01
MAC-MW3s	10/24/2019	13:56	5.45	92.61	-0.12	-0.01
MAC-MW3s	11/14/2019	11:19	5.22	92.84	-0.10	-0.00
MAC-MW3s	12/13/2019	10:18	4.61	93.45	<|0.05|	0
MAC-MW3d	1/30/2012	15:15	6.00	91.88		
MAC-MW3d	2/9/2012	16:06	5.36	92.52		
MAC-MW3d	3/5/2012	10:13	4.42	93.46		
MAC-MW3d	4/9/2012	12:20	6.35	91.53		
MAC-MW3d	5/11/2012	10:27	4.73	93.15		
MAC-MW3d	6/20/2012	12:13	6.33	91.55		
MAC-MW3d	7/11/2012	14:49	7.30	90.58		
MAC-MW3d	8/17/2012	10:20	5.08	92.80		
MAC-MW3d	9/20/2012	10:29	5.63	92.25		
MAC-MW3d	10/19/2012	10:07	5.42	92.46		
MAC-MW3d	12/3/2012	15:55	4.72	93.16		
MAC-MW3d	12/31/2012	11:25	4.24	93.64		
MAC-MW3d	1/15/2013	10:22	4.59	93.29		
MAC-MW3d	2/16/2013	17:26	6.00	91.88		
MAC-MW3d	3/18/2013	12:19	5.42	92.46		
MAC-MW3d	4/17/2013	12:53	6.69	91.19		
MAC-MW3d	5/30/2013	12:16	6.18	91.70		
MAC-MW3d	6/18/2013	12:51	5.21	92.67		
MAC-MW3d	7/15/2013	12:50	4.94	92.94		
MAC-MW3d	8/21/2013	12:40	4.55	93.33		
MAC-MW3d	9/9/2013	9:48	5.61	92.27		
MAC-MW3d	10/7/2013	12:33	6.64	91.24		
MAC-MW3d	11/12/2013	9:00	6.23	91.65		
MAC-MW3d	12/17/2013	12:06	7.28	90.60		
MAC-MW3d	1/13/2014	11:04	6.73	91.15		
MAC-MW3d	2/17/2014	16:29	5.34	92.54		
MAC-MW3d	3/17/2014	10:32	5.99	91.89		
MAC-MW3d	4/19/2014	9:58	6.98	90.90		
MAC-MW3d	5/22/2014	9:10	5.74	92.14		
MAC-MW3d	6/20/2014	12:56	5.08	92.80		
MAC-MW3d	7/16/2014	17:04	4.45	93.43		
MAC-MW3d	8/28/2014	17:07	5.24	92.64		
MAC-MW3d	9/19/2014	13:34	5.33	92.55		
MAC-MW3d	10/14/2014	9:02	5.10	92.78		
MAC-MW3d	11/10/2014	12:05	4.48	93.40		
MAC-MW3d	12/15/2014	11:17	3.18	94.70		
MAC-MW3d	1/13/2015	10:48	4.95	92.93		
MAC-MW3d	2/5/2015	8:18	5.40	92.48		
MAC-MW3d	3/13/2015	9:19	4.83	93.05		
MAC-MW3d	4/17/2015	8:25	6.05	91.83		
MAC-MW3d	5/11/2015	13:36	5.60	92.28		
MAC-MW3d	6/4/2015	9:04	5.20	92.68		
MAC-MW3d	7/20/2015	11:41	5.02	92.86		
MAC-MW3d	8/14/2015	9:51	5.00	92.88		
MAC-MW3d	9/14/2015	16:06	5.82	92.06		
MAC-MW3d	10/16/2015	15:45	6.00	91.88		
MAC-MW3d	11/12/2015	14:09	4.67	93.21		
MAC-MW3d	12/31/2015	12:22	6.81	91.07		
MAC-MW3d	1/16/2016	16:32	5.06	92.82		
MAC-MW3d	2/26/2016	12:34	5.00	92.88		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MAC-MW3d	3/19/2016	10:08	3.20	94.68		
MAC-MW3d	4/18/2016	14:53	5.20	92.68		
MAC-MW3d	5/16/2016	13:31	4.97	92.91		
MAC-MW3d	6/17/2016	10:21	5.58	92.30		
MAC-MW3d	7/22/2016	10:31	5.72	92.16		
MAC-MW3d	8/16/2016	14:52	5.00	92.88		
MAC-MW3d	9/16/2016	14:11	5.95	91.93		
MAC-MW3d	10/14/2016	15:17	5.72	92.16		
MAC-MW3d	11/21/2016	13:38	5.74	92.14		
MAC-MW3d	12/13/2016	14:36	6.16	91.72		
MAC-MW3d	1/26/2017	12:41	3.65	94.23		
MAC-MW3d	2/1/2017		N/M			
MAC-MW3d	3/13/2017	13:40	5.30	92.58		
MAC-MW3d	4/21/2017	12:28	6.32	91.56		
MAC-MW3d	5/16/2017	12:50	5.45	92.43		
MAC-MW3d	6/23/2017	8:42	6.43	91.45		
MAC-MW3d	7/14/2017	8:43	5.37	92.51		
MAC-MW3d	8/22/2017	10:39	5.38	92.50		
MAC-MW3d	9/23/2017	12:51	6.20	91.68		
MAC-MW3d	10/20/2017	13:26	5.75	92.13		
MAC-MW3d	11/14/2017	16:00	6.30	91.58		
MAC-MW3d	12/31/2017	10:32	7.08	90.80		
MAC-MW3d	1/22/2018	13:10	6.58	91.30		
MAC-MW3d	2/23/2018	11:45	5.54	92.34		
MAC-MW3d	3/1/2018		N/M			
MAC-MW3d	4/25/2018	13:34	5.83	92.05		
MAC-MW3d	5/16/2018	14:36	4.71	93.17		
MAC-MW3d	6/14/2018	13:21	5.78	92.10		
MAC-MW3d	7/17/2018	13:22	5.42	92.46		
MAC-MW3d	8/17/2018	13:16	5.01	92.87		
MAC-MW3d	9/12/2018	9:55	5.69	92.19		
MAC-MW3d	10/25/2018	13:28	6.11	91.77		
MAC-MW3d	11/14/2018	13:45	5.53	92.35		
MAC-MW3d	12/14/2018	13:31	5.24	92.64		
MAC-MW3d	1/24/2019	14:10	4.67	93.21		
MAC-MW3d	2/28/2019	10:05	4.56	93.32		
MAC-MW3d	3/17/2019	13:46	5.21	92.67		
MAC-MW3d	4/15/2019	9:42	5.22	92.66		
MAC-MW3d	5/21/2019	11:25	5.00	92.88		
MAC-MW3d	6/20/2019	9:53	5.75	92.13		
MAC-MW3d	7/17/2019	8:35	5.02	92.86		
MAC-MW3d	8/14/2019	10:24	4.64	93.24		
MAC-MW3d	9/26/2019	9:58	5.54	92.34		
MAC-MW3d	10/24/2019	13:56	5.15	92.73		
MAC-MW3d	11/14/2019	11:19	4.94	92.94		
MAC-MW3d	12/13/2019	10:18	4.48	93.40		
MAC-MW4s	1/30/2012	15:20	6.01	92.50	0.20	0.01
MAC-MW4s	2/9/2012	15:45	6.52	91.99	0.17	0.01
MAC-MW4s	3/5/2012	10:15	4.65	93.86	0.28	0.01
MAC-MW4s	4/9/2012	12:25	6.78	91.73	0.20	0.01
MAC-MW4s	5/11/2012	10:50	5.65	92.86	0.19	0.01
MAC-MW4s	6/20/2012	12:18	6.01	92.50	0.21	0.01
MAC-MW4s	7/11/2012	14:43	7.26	91.25	0.14	0.01
MAC-MW4s	8/17/2012	10:24	5.44	93.07	0.17	0.01
MAC-MW4s	9/20/2012	10:32	5.96	92.55	0.17	0.01
MAC-MW4s	10/19/2012	10:04	5.15	93.36	0.20	0.01
MAC-MW4s	12/3/2012	15:52	4.62	93.89	0.24	0.01
MAC-MW4s	12/31/2012	11:19	5.32	93.19	0.21	0.01
MAC-MW4s	1/15/2013	10:20	5.83	92.68	0.21	0.01
MAC-MW4s	2/16/2013	17:30	6.93	91.58	0.18	0.01
MAC-MW4s	3/18/2013	12:24	5.48	93.03	0.18	0.01
MAC-MW4s	4/17/2013	13:00	7.09	91.42	0.17	0.01
MAC-MW4s	5/30/2013	12:34	6.88	91.63	0.18	0.01
MAC-MW4s	6/18/2013	12:54	6.22	92.29	0.18	0.01
MAC-MW4s	7/15/2013	12:55	5.05	93.46	0.21	0.01
MAC-MW4s	8/21/2013	12:45	4.77	93.74	0.22	0.01
MAC-MW4s	9/9/2013	9:44	5.17	93.34	0.17	0.01
MAC-MW4s	10/7/2013	12:29	7.01	91.50	0.20	0.01
MAC-MW4s	11/12/2013	9:03	6.40	92.11	0.20	0.01
MAC-MW4s	12/17/2013	12:02	7.43	91.08	0.19	0.01
MAC-MW4s	1/13/2014	11:07	7.90	90.61	0.19	0.01
MAC-MW4s	2/17/2014	16:34	5.82	92.69	0.17	0.01
MAC-MW4s	3/17/2014	10:37	6.47	92.04	0.19	0.01
MAC-MW4s	4/19/2014	10:03	7.14	91.37	0.32	0.02
MAC-MW4s	5/22/2014	9:08	5.75	92.76	0.23	0.01
MAC-MW4s	6/20/2014	13:02	3.86	94.65	0.18	0.01
MAC-MW4s	7/16/2014	17:09	4.35	94.16	0.19	0.01
MAC-MW4s	8/28/2014	17:12	6.62	91.89	0.19	0.01
MAC-MW4s	9/19/2014	13:30	6.79	91.72	0.20	0.01
MAC-MW4s	10/14/2014	8:58	6.87	91.64	0.17	0.01
MAC-MW4s	11/10/2014	12:11	4.89	93.62	0.17	0.01
MAC-MW4s	12/15/2014	11:15	2.88	95.63	0.20	0.01
MAC-MW4s	1/13/2015	10:52	4.41	94.10	0.17	0.01
MAC-MW4s	2/5/2015	8:21	5.49	93.02	0.19	0.01
MAC-MW4s	3/13/2015	9:15	6.31	92.20	0.16	0.01
MAC-MW4s	4/17/2015	8:20	3.82	94.69	0.17	0.01
MAC-MW4s	5/11/2015	13:40	5.93	92.58	0.21	0.01
MAC-MW4s	6/4/2015	9:01	6.58	91.93	0.18	0.01
MAC-MW4s	7/20/2015	11:45	4.85	93.66	0.20	0.01
MAC-MW4s	8/14/2015	9:55	5.55	92.96	0.19	0.01
MAC-MW4s	9/14/2015	16:10	6.82	91.69	0.21	0.01
MAC-MW4s	10/16/2015	15:49	7.22	91.29	0.18	0.01
MAC-MW4s	11/12/2015	14:12	4.04	94.47	0.18	0.01
MAC-MW4s	12/31/2015	12:00	6.75	91.76	0.15	0.01
MAC-MW4s	1/16/2016	16:15	6.22	92.29	0.19	0.01
MAC-MW4s	2/26/2016	12:25	5.56	92.95	0.20	0.01
MAC-MW4s	3/19/2016	9:51	4.00	94.51	0.17	0.01
MAC-MW4s	4/18/2016	14:54	6.50	92.01	0.19	0.01
MAC-MW4s	5/16/2016	13:29	5.27	93.24	0.20	0.01
MAC-MW4s	6/17/2016	10:24	6.52	91.99	0.20	0.01
MAC-MW4s	7/22/2016	10:35	5.70	92.81	0.16	0.01
MAC-MW4s	8/16/2016	14:42	4.87	93.64	0.20	0.01
MAC-MW4s	9/16/2016	14:15	6.79	91.72	0.20	0.01
MAC-MW4s	10/14/2016	15:19	7.38	91.13	0.20	0.01
MAC-MW4s	11/21/2016	13:32	6.08	92.43	0.18	0.01
MAC-MW4s	12/13/2016	14:39	6.94	91.57	0.18	0.01
MAC-MW4s	1/26/2017	12:48	3.73	94.78	0.19	0.01
MAC-MW4s	2/1/2017		N/M			
MAC-MW4s	3/13/2017	13:43	5.59	92.92	0.15	0.01
MAC-MW4s	4/21/2017	12:30	6.65	91.86	0.21	0.01
MAC-MW4s	5/16/2017	12:54	5.31	93.20	0.18	0.01
MAC-MW4s	6/23/2017	8:39	6.78	91.73	0.19	0.01
MAC-MW4s	7/14/2017	8:39	4.91	93.60	0.15	0.01
MAC-MW4s	8/22/2017	10:43	5.20	93.31	0.19	0.01

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MAC-MW4s	9/23/2017	12:53	6.84	91.67	0.22	0.01
MAC-MW4s	10/20/2017	13:28	6.97	91.54	0.20	0.01
MAC-MW4s	11/14/2017	16:55	6.38	92.13	0.36	0.02
MAC-MW4s	12/31/2017	10:33	7.53	90.98	0.21	0.01
MAC-MW4s	1/22/2018	13:17	7.38	91.13	0.20	0.01
MAC-MW4s	2/23/2018	11:50	5.84	92.67	0.17	0.01
MAC-MW4s	3/1/2018		N/M			
MAC-MW4s	4/25/2018	13:39	7.29	91.22	0.17	0.01
MAC-MW4s	5/16/2018	14:38	5.54	92.97	0.16	0.01
MAC-MW4s	6/14/2018	13:26	6.98	91.53	0.18	0.01
MAC-MW4s	7/17/2018	13:25	3.85	94.66	0.20	0.01
MAC-MW4s	8/17/2018	13:19	5.15	93.36	0.20	0.01
MAC-MW4s	9/12/2018	9:51	6.43	92.08	0.21	0.01
MAC-MW4s	10/25/2018	13:25	7.40	91.11	0.18	0.01
MAC-MW4s	11/14/2018	13:42	5.67	92.84	<|0.05|	0
MAC-MW4s	12/14/2018	13:34	6.19	92.32	0.19	0.01
MAC-MW4s	1/24/2019	14:13	5.87	92.64	0.20	0.01
MAC-MW4s	2/28/2019	10:08	5.69	92.82	0.18	0.01
MAC-MW4s	3/17/2019	13:48	6.30	92.21	0.22	0.01
MAC-MW4s	4/15/2019	9:39	5.31	93.20	0.18	0.01
MAC-MW4s	5/21/2019	11:30	6.82	91.69	0.17	0.01
MAC-MW4s	6/20/2019	9:42	5.97	92.54	0.18	0.01
MAC-MW4s	7/17/2019	8:32	5.36	93.15	0.22	0.01
MAC-MW4s	8/14/2019	10:28	4.96	93.55	0.20	0.01
MAC-MW4s	9/26/2019	9:54	5.83	92.68	0.19	0.01
MAC-MW4s	10/24/2019	13:53	6.84	91.67	0.16	0.01
MAC-MW4s	11/14/2019	10:56	4.95	93.56	0.16	0.01
MAC-MW4s	12/13/2019	10:15	4.42	94.09	0.16	0.01
MAC-MW4d	1/30/2012	15:20	5.95	92.30		
MAC-MW4d	2/9/2012	15:46	6.43	91.82		
MAC-MW4d	3/5/2012	10:16	4.67	93.58		
MAC-MW4d	4/9/2012	12:26	6.72	91.53		
MAC-MW4d	5/11/2012	10:52	5.58	92.67		
MAC-MW4d	6/20/2012	12:19	5.96	92.29		
MAC-MW4d	7/11/2012	14:43	7.14	91.11		
MAC-MW4d	8/17/2012	10:24	5.35	92.90		
MAC-MW4d	9/20/2012	10:32	5.87	92.38		
MAC-MW4d	10/19/2012	10:04	5.09	93.16		
MAC-MW4d	12/3/2012	15:52	4.60	93.65		
MAC-MW4d	12/31/2012	11:20	5.27	92.98		
MAC-MW4d	1/15/2013	10:20	5.78	92.47		
MAC-MW4d	2/16/2013	17:30	6.85	91.40		
MAC-MW4d	3/18/2013	12:24	5.40	92.85		
MAC-MW4d	4/17/2013	13:00	7.00	91.25		
MAC-MW4d	5/30/2013	12:34	6.80	91.45		
MAC-MW4d	6/18/2013	12:55	6.14	92.11		
MAC-MW4d	7/15/2013	12:55	5.00	93.25		
MAC-MW4d	8/21/2013	12:45	4.73	93.52		
MAC-MW4d	9/9/2013	9:44	5.08	93.17		
MAC-MW4d	10/7/2013	12:29	6.95	91.30		
MAC-MW4d	11/12/2013	9:03	6.34	91.91		
MAC-MW4d	12/17/2013	12:02	7.36	90.89		
MAC-MW4d	1/13/2014	11:07	7.83	90.42		
MAC-MW4d	2/17/2014	16:34	5.73	92.52		
MAC-MW4d	3/17/2014	10:37	6.40	91.85		
MAC-MW4d	4/19/2014	10:03	7.20	91.05		
MAC-MW4d	5/22/2014	9:08	5.72	92.53		
MAC-MW4d	6/20/2014	13:02	3.78	94.47		
MAC-MW4d	7/16/2014	17:09	4.28	93.97		
MAC-MW4d	8/28/2014	17:12	6.55	91.70		
MAC-MW4d	9/19/2014	13:30	6.73	91.52		
MAC-MW4d	10/14/2014	8:58	6.78	91.47		
MAC-MW4d	11/10/2014	12:11	4.80	93.45		
MAC-MW4d	12/15/2014	11:15	2.82	95.43		
MAC-MW4d	1/13/2015	10:52	4.32	93.93		
MAC-MW4d	2/5/2015	8:21	5.42	92.83		
MAC-MW4d	3/13/2015	9:15	6.21	92.04		
MAC-MW4d	4/17/2015	8:20	3.73	94.52		
MAC-MW4d	5/11/2015	13:40	5.88	92.37		
MAC-MW4d	6/4/2015	9:01	6.50	91.75		
MAC-MW4d	7/20/2015	11:45	4.79	93.46		
MAC-MW4d	8/14/2015	9:56	5.48	92.77		
MAC-MW4d	9/14/2015	16:10	6.77	91.48		
MAC-MW4d	10/16/2015	15:49	7.14	91.11		
MAC-MW4d	11/12/2015	14:12	3.96	94.29		
MAC-MW4d	12/31/2015	12:01	6.64	91.61		
MAC-MW4d	1/16/2016	16:16	6.15	92.10		
MAC-MW4d	2/26/2016	12:24	5.50	92.75		
MAC-MW4d	3/19/2016	9:51	3.91	94.34		
MAC-MW4d	4/18/2016	14:55	6.43	91.82		
MAC-MW4d	5/16/2016	13:28	5.21	93.04		
MAC-MW4d	6/17/2016	10:25	6.46	91.79		
MAC-MW4d	7/22/2016	10:35	5.60	92.65		
MAC-MW4d	8/16/2016	14:43	4.81	93.44		
MAC-MW4d	9/16/2016	14:14	6.73	91.52		
MAC-MW4d	10/14/2016	15:20	7.32	90.93		
MAC-MW4d	11/21/2016	13:33	6.00	92.25		
MAC-MW4d	12/13/2016	14:40	6.86	91.39		
MAC-MW4d	1/26/2017	12:49	3.66	94.59		
MAC-MW4d	2/1/2017		N/M			
MAC-MW4d	3/13/2017	13:43	5.48	92.77		
MAC-MW4d	4/21/2017	12:31	6.60	91.65		
MAC-MW4d	5/16/2017	12:54	5.23	93.02		
MAC-MW4d	6/23/2017	8:39	6.71	91.54		
MAC-MW4d	7/14/2017	8:39	4.80	93.45		
MAC-MW4d	8/22/2017	10:43	5.13	93.12		
MAC-MW4d	9/23/2017	12:54	6.80	91.45		
MAC-MW4d	10/20/2017	13:29	6.91	91.34		
MAC-MW4d	11/14/2017	16:55	6.48	91.77		
MAC-MW4d	12/31/2017	10:35	7.48	90.77		
MAC-MW4d	1/22/2018	13:16	7.32	90.93		
MAC-MW4d	2/23/2018	11:51	5.75	92.50		
MAC-MW4d	3/1/2018		N/M			
MAC-MW4d	4/25/2018	13:39	7.20	91.05		
MAC-MW4d	5/16/2018	14:38	5.44	92.81		
MAC-MW4d	6/14/2018	13:27	6.90	91.35		
MAC-MW4d	7/17/2018	13:26	3.79	94.46		
MAC-MW4d	8/17/2018	13:19	5.09	93.16		
MAC-MW4d	9/12/2018	9:51	6.38	91.87		
MAC-MW4d	10/25/2018	13:25	7.32	90.93		
MAC-MW4d	11/14/2018	13:41	5.42	92.83		
MAC-MW4d	12/14/2018	13:35	6.12	92.13		
MAC-MW4d	1/24/2019	14:14	5.81	92.44		
MAC-MW4d	2/28/2019	10:08	5.61	92.64		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MAC-MW4d	3/17/2019	13:49	6.26	91.99		
MAC-MW4d	4/15/2019	9:39	5.23	93.02		
MAC-MW4d	5/21/2019	11:30	6.73	91.52		
MAC-MW4d	6/20/2019	9:42	5.89	92.36		
MAC-MW4d	7/17/2019	8:32	5.32	92.93		
MAC-MW4d	8/14/2019	10:28	4.90	93.35		
MAC-MW4d	9/26/2019	9:54	5.76	92.49		
MAC-MW4d	10/24/2019	13:53	6.74	91.51		
MAC-MW4d	11/14/2019	10:56	4.85	93.40		
MAC-MW4d	12/13/2019	10:15	4.32	93.93		
MAC-MW5s	1/30/2012	15:25	5.23	93.00	<|0.05|	0
MAC-MW5s	2/9/2012	15:30	5.90	92.33	<|0.05|	0
MAC-MW5s	3/5/2012	10:19	3.87	94.36	-0.07	-0.00
MAC-MW5s	4/9/2012	12:30	6.03	92.20	<|0.05|	0
MAC-MW5s	5/11/2012	11:20	4.80	93.43	<|0.05|	0
MAC-MW5s	6/20/2012	12:20	5.21	93.02	<|0.05|	0
MAC-MW5s	7/11/2012	14:40	6.18	92.05	0.08	0.00
MAC-MW5s	8/17/2012	10:27	4.65	93.58	<|0.05|	0
MAC-MW5s	9/20/2012	10:37	4.98	93.25	<|0.05|	0
MAC-MW5s	10/19/2012	10:02	4.28	93.95	<|0.05|	0
MAC-MW5s	12/3/2012	15:49	4.07	94.16	<|0.05|	0
MAC-MW5s	12/31/2012	11:15	4.70	93.53	<|0.05|	0
MAC-MW5s	1/15/2013	10:17	5.10	93.13	<|0.05|	0
MAC-MW5s	2/16/2013	17:32	6.39	91.84	<|0.05|	0
MAC-MW5s	3/18/2013	12:27	5.79	92.44	-0.06	-0.00
MAC-MW5s	4/17/2013	13:04	6.51	91.72	<|0.05|	0
MAC-MW5s	5/30/2013	12:30	6.20	92.03	0.29	0.01
MAC-MW5s	6/18/2013	12:58	5.54	92.69	<|0.05|	0
MAC-MW5s	7/15/2013	12:58	4.18	94.05	<|0.05|	0
MAC-MW5s	8/21/2013	12:48	3.89	94.34	<|0.05|	0
MAC-MW5s	9/9/2013	9:41	4.48	93.75	<|0.05|	0
MAC-MW5s	10/7/2013	12:27	6.48	91.75	<|0.05|	0
MAC-MW5s	11/12/2013	9:07	5.81	92.42	<|0.05|	0
MAC-MW5s	12/17/2013	12:00	6.85	91.38	0.15	0.01
MAC-MW5s	1/13/2014	11:09	7.48	90.75	<|0.05|	0
MAC-MW5s	2/17/2014	16:36	4.90	93.33	<|0.05|	0
MAC-MW5s	3/17/2014	10:40	5.86	92.37	<|0.05|	0
MAC-MW5s	4/19/2014	10:06	6.76	91.47	<|0.05|	0
MAC-MW5s	5/22/2014	9:05	5.25	92.98	<|0.05|	0
MAC-MW5s	6/20/2014	13:05	3.92	94.31	<|0.05|	0
MAC-MW5s	7/16/2014	17:11	3.82	94.41	<|0.05|	0
MAC-MW5s	8/28/2014	17:15	6.10	92.13	<|0.05|	0
MAC-MW5s	9/19/2014	13:27	6.18	92.05	<|0.05|	0
MAC-MW5s	10/14/2014	8:55	6.28	91.95	<|0.05|	0
MAC-MW5s	11/10/2014	12:15	4.25	93.98	<|0.05|	0
MAC-MW5s	12/15/2014	11:11	2.40	95.83	<|0.05|	0
MAC-MW5s	1/13/2015	10:55	3.72	94.51	<|0.05|	0
MAC-MW5s	2/5/2015	8:23	5.00	93.23	<|0.05|	0
MAC-MW5s	3/13/2015	9:12	6.03	92.20	<|0.05|	0
MAC-MW5s	4/17/2015	8:18	3.41	94.82	<|0.05|	0
MAC-MW5s	5/11/2015	13:46	5.75	92.48	<|0.05|	0
MAC-MW5s	6/4/2015	8:57	6.33	91.90	<|0.05|	0
MAC-MW5s	7/20/2015	11:48	4.41	93.82	<|0.05|	0
MAC-MW5s	8/14/2015	9:58	5.24	92.99	<|0.05|	0
MAC-MW5s	9/14/2015	16:14	6.81	91.42	<|0.05|	0
MAC-MW5s	10/16/2015	15:51	6.91	91.32	<|0.05|	0
MAC-MW5s	11/12/2015	14:14	3.62	94.61	<|0.05|	0
MAC-MW5s	12/31/2015	12:03	6.52	91.71	<|0.05|	0
MAC-MW5s	1/16/2016	16:17	5.89	92.34	0.15	0.01
MAC-MW5s	2/26/2016	12:27	5.43	92.80	<|0.05|	0
MAC-MW5s	3/19/2016	10:16	4.68	93.55	<|0.05|	0
MAC-MW5s	4/18/2016	14:56	6.05	92.18	<|0.05|	0
MAC-MW5s	5/16/2016	13:27	4.50	93.73	<|0.05|	0
MAC-MW5s	6/17/2016	10:26	6.02	92.21	<|0.05|	0
MAC-MW5s	7/22/2016	10:39	5.82	92.41	<|0.05|	0
MAC-MW5s	8/16/2016	14:41	4.10	94.13	<|0.05|	0
MAC-MW5s	9/16/2016	14:19	6.30	91.93	<|0.05|	0
MAC-MW5s	10/14/2016	15:21	7.00	91.23	<|0.05|	0
MAC-MW5s	11/21/2016	13:28	5.43	92.80	<|0.05|	0
MAC-MW5s	12/13/2016	14:41	6.40	91.83	<|0.05|	0
MAC-MW5s	1/26/2017	12:50	2.90	95.33	<|0.05|	0
MAC-MW5s	2/1/2017		N/M			
MAC-MW5s	3/13/2017	13:45	4.74	93.49	<|0.05|	0
MAC-MW5s	4/21/2017	12:32	6.00	92.23	<|0.05|	0
MAC-MW5s	5/16/2017	12:57	4.38	93.85	<|0.05|	0
MAC-MW5s	6/23/2017	8:36	6.25	91.98	<|0.05|	0
MAC-MW5s	7/14/2017	8:36	4.22	94.01	<|0.05|	0
MAC-MW5s	8/22/2017	10:47	4.43	93.80	<|0.05|	0
MAC-MW5s	9/23/2017	12:55	6.33	91.90	<|0.05|	0
MAC-MW5s	10/20/2017	13:30	6.10	92.13	0.07	0.00
MAC-MW5s	11/14/2017	16:58	5.70	92.53	<|0.05|	0
MAC-MW5s	12/31/2017	10:37	7.05	91.18	<|0.05|	0
MAC-MW5s	1/22/2018	13:18	6.84	91.39	<|0.05|	0
MAC-MW5s	2/23/2018	11:54	5.02	93.21	<|0.05|	0
MAC-MW5s	3/1/2018		N/M			
MAC-MW5s	4/25/2018	13:42	6.79	91.44	<|0.05|	0
MAC-MW5s	5/16/2018	14:39	4.83	93.40	-0.06	-0.00
MAC-MW5s	6/14/2018	13:30	6.53	91.70	<|0.05|	0
MAC-MW5s	7/17/2018	13:28	3.37	94.86	0.12	0.01
MAC-MW5s	8/17/2018	13:21	4.23	94.00	<|0.05|	0
MAC-MW5s	9/12/2018	9:49	5.86	92.37	<|0.05|	0
MAC-MW5s	10/25/2018	13:22	7.12	91.11	<|0.05|	0
MAC-MW5s	11/14/2018	13:40	5.00	93.23	<|0.05|	0
MAC-MW5s	12/14/2018	13:35	5.50	92.73	<|0.05|	0
MAC-MW5s	1/24/2019	14:15	5.15	93.08	<|0.05|	0
MAC-MW5s	2/28/2019	10:11	5.00	93.23	<|0.05|	0
MAC-MW5s	3/17/2019	13:50	5.70	92.53	<|0.05|	0
MAC-MW5s	4/15/2019	9:37	4.33	93.90	<|0.05|	0
MAC-MW5s	5/21/2019	11:33	6.31	91.92	<|0.05|	0
MAC-MW5s	6/20/2019	9:45	5.28	92.95	<|0.05|	0
MAC-MW5s	7/17/2019	8:30	5.22	93.01	<|0.05|	0
MAC-MW5s	8/14/2019	10:32	4.33	93.90	<|0.05|	0
MAC-MW5s	9/26/2019	9:51	5.20	93.03	<|0.05|	0
MAC-MW5s	10/24/2019	13:49	6.35	91.88	<|0.05|	0
MAC-MW5s	11/14/2019	10:55	4.42	93.81	<|0.05|	0
MAC-MW5s	12/13/2019	10:13	3.68	94.55	<|0.05|	0
MAC-MW5d	1/30/2012	15:25	5.04	93.02		
MAC-MW5d	2/9/2012	15:31	5.70	92.36		
MAC-MW5d	3/5/2012	10:21	3.63	94.43		
MAC-MW5d	4/9/2012	12:31	5.87	92.19		
MAC-MW5d	5/11/2012	11:21	4.60	93.46		
MAC-MW5d	6/20/2012	12:21	5.02	93.04		
MAC-MW5d	7/11/2012	14:40	6.09	91.97		
MAC-MW5d	8/17/2012	10:27	4.50	93.56		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MAC-MW5d	9/20/2012	10:37	4.82	93.24		
MAC-MW5d	10/19/2012	10:02	4.11	93.95		
MAC-MW5d	12/3/2012	15:49	3.86	94.20		
MAC-MW5d	12/31/2012	11:16	4.54	93.52		
MAC-MW5d	1/15/2013	10:17	4.92	93.14		
MAC-MW5d	2/16/2013	17:32	6.20	91.86		
MAC-MW5d	3/18/2013	12:27	5.56	92.50		
MAC-MW5d	4/17/2013	13:04	6.32	91.74		
MAC-MW5d	5/30/2013	12:30	6.32	91.74		
MAC-MW5d	6/18/2013	12:59	5.33	92.73		
MAC-MW5d	7/15/2013	12:58	4.00	94.06		
MAC-MW5d	8/21/2013	12:48	3.75	94.31		
MAC-MW5d	9/9/2013	9:41	4.28	93.78		
MAC-MW5d	10/7/2013	12:27	6.30	91.76		
MAC-MW5d	11/12/2013	9:07	5.65	92.41		
MAC-MW5d	12/17/2013	12:00	6.83	91.23		
MAC-MW5d	1/13/2014	11:09	7.34	90.72		
MAC-MW5d	2/17/2014	16:36	4.72	93.34		
MAC-MW5d	3/17/2014	10:40	5.70	92.36		
MAC-MW5d	4/19/2014	10:06	6.58	91.48		
MAC-MW5d	5/22/2014	9:05	5.13	92.93		
MAC-MW5d	6/20/2014	13:05	3.71	94.35		
MAC-MW5d	7/16/2014	17:11	3.63	94.43		
MAC-MW5d	8/28/2014	17:15	5.92	92.14		
MAC-MW5d	9/19/2014	13:27	6.04	92.02		
MAC-MW5d	10/14/2014	8:55	6.13	91.93		
MAC-MW5d	11/10/2014	12:15	4.08	93.98		
MAC-MW5d	12/15/2014	11:11	2.22	95.84		
MAC-MW5d	1/13/2015	10:55	3.53	94.53		
MAC-MW5d	2/5/2015	8:23	4.83	93.23		
MAC-MW5d	3/13/2015	9:12	5.88	92.18		
MAC-MW5d	4/17/2015	8:18	3.23	94.83		
MAC-MW5d	5/11/2015	13:46	5.55	92.51		
MAC-MW5d	6/4/2015	8:57	6.15	91.91		
MAC-MW5d	7/20/2015	11:48	4.22	93.84		
MAC-MW5d	8/14/2015	9:58	5.07	92.99		
MAC-MW5d	9/14/2015	16:14	6.62	91.44		
MAC-MW5d	10/16/2015	15:51	6.73	91.33		
MAC-MW5d	11/12/2015	14:14	3.44	94.62		
MAC-MW5d	12/31/2015	12:04	6.31	91.75		
MAC-MW5d	1/16/2016	16:18	5.87	92.19		
MAC-MW5d	2/26/2016	12:26	5.25	92.81		
MAC-MW5d	3/19/2016	10:16	4.52	93.54		
MAC-MW5d	4/18/2016	14:57	5.86	92.20		
MAC-MW5d	5/16/2016	13:26	4.33	93.73		
MAC-MW5d	6/17/2016	10:27	5.83	92.23		
MAC-MW5d	7/22/2016	10:39	5.63	92.43		
MAC-MW5d	8/16/2016	14:40	3.95	94.11		
MAC-MW5d	9/16/2016	14:18	6.13	91.93		
MAC-MW5d	10/14/2016	15:22	6.80	91.26		
MAC-MW5d	11/21/2016	13:29	5.24	92.82		
MAC-MW5d	12/13/2016	14:42	6.21	91.85		
MAC-MW5d	1/26/2017	12:50	2.74	95.32		
MAC-MW5d	2/1/2017		N/M			
MAC-MW5d	3/13/2017	13:45	4.54	93.52		
MAC-MW5d	4/21/2017	12:33	5.80	92.26		
MAC-MW5d	5/16/2017	12:57	4.20	93.86		
MAC-MW5d	6/23/2017	8:36	6.06	92.00		
MAC-MW5d	7/14/2017	8:36	4.04	94.02		
MAC-MW5d	8/22/2017	10:47	4.26	93.80		
MAC-MW5d	9/23/2017	12:56	6.15	91.91		
MAC-MW5d	10/20/2017	13:31	6.00	92.06		
MAC-MW5d	11/14/2017	16:58	5.51	92.55		
MAC-MW5d	12/31/2017	10:40	6.92	91.14		
MAC-MW5d	1/22/2018	13:18	6.65	91.41		
MAC-MW5d	2/23/2018	11:55	4.87	93.19		
MAC-MW5d	3/1/2018		N/M			
MAC-MW5d	4/25/2018	13:42	6.58	91.48		
MAC-MW5d	5/16/2018	14:39	4.60	93.46		
MAC-MW5d	6/14/2018	13:30	6.37	91.69		
MAC-MW5d	7/17/2018	13:29	3.32	94.74		
MAC-MW5d	8/17/2018	13:21	4.04	94.02		
MAC-MW5d	9/12/2018	9:49	5.73	92.33		
MAC-MW5d	10/25/2018	13:22	6.91	91.15		
MAC-MW5d	11/14/2018	13:38	4.83	93.23		
MAC-MW5d	12/14/2018	13:36	5.32	92.74		
MAC-MW5d	1/24/2019	14:16	4.95	93.11		
MAC-MW5d	2/28/2019	10:11	4.82	93.24		
MAC-MW5d	3/17/2019	13:51	5.50	92.56		
MAC-MW5d	4/15/2019	9:37	4.18	93.88		
MAC-MW5d	5/21/2019	11:33	6.13	91.93		
MAC-MW5d	6/20/2019	9:45	5.08	92.98		
MAC-MW5d	7/17/2019	8:30	5.07	92.99		
MAC-MW5d	8/14/2019	10:32	4.18	93.88		
MAC-MW5d	9/26/2019	9:51	5.03	93.03		
MAC-MW5d	10/24/2019	13:49	6.17	91.89		
MAC-MW5d	11/14/2019	10:55	4.25	93.81		
MAC-MW5d	12/13/2019	10:13	3.49	94.57		
NUN-MW1s	1/30/2012	14:30	7.76	87.47	<|0.05|	0
NUN-MW1s	2/9/2012	14:29	6.74	88.49	0.31	0.02
NUN-MW1s	3/5/2012	9:50	6.79	88.44	<|0.05|	0
NUN-MW1s	4/9/2012	11:58	7.47	87.76	<|0.05|	0
NUN-MW1s	5/11/2012	13:00	7.65	87.58	<|0.05|	0
NUN-MW1s	6/20/2012	11:52	7.50	87.73	<|0.05|	0
NUN-MW1s	7/11/2012	13:47	8.00	87.23	<|0.05|	0
NUN-MW1s	8/17/2012	11:50	6.94	88.29	<|0.05|	0
NUN-MW1s	9/20/2012	10:03	7.19	88.04	0.12	0.01
NUN-MW1s	10/19/2012	10:18	6.55	88.68	<|0.05|	0
NUN-MW1s	12/4/2012	13:07	7.15	88.08	<|0.05|	0
NUN-MW1s	12/31/2012	11:30	5.87	89.36	<|0.05|	0
NUN-MW1s	1/15/2013	10:31	6.66	88.57	0.18	0.01
NUN-MW1s	2/16/2013	17:16	6.83	88.40	<|0.05|	0
NUN-MW1s	3/18/2013	14:55	6.50	88.73	<|0.05|	0
NUN-MW1s	4/17/2013	12:24	6.76	88.47	<|0.05|	0
NUN-MW1s	5/30/2013	15:30	7.23	88.00	<|0.05|	0
NUN-MW1s	6/18/2013	12:37	6.43	88.80	<|0.05|	0
NUN-MW1s	7/15/2013	13:21	6.28	88.95	<|0.05|	0
NUN-MW1s	8/21/2013	15:35	6.15	89.08	<|0.05|	0
NUN-MW1s	9/9/2013	9:57	5.97	89.26	<|0.05|	0
NUN-MW1s	10/7/2013	12:42	7.27	87.96	<|0.05|	0
NUN-MW1s	11/12/2013	9:21	6.71	88.52	<|0.05|	0
NUN-MW1s	12/17/2013	12:20	6.89	88.34	<|0.05|	0
NUN-MW1s	1/13/2014	11:25	7.73	87.50	<|0.05|	0
NUN-MW1s	2/17/2014	14:23	7.73	87.50	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
NUN-MW1s	3/17/2014	10:22	6.64	88.59	<|0.05|	0
NUN-MW1s	4/19/2014	9:48	7.50	87.73	<|0.05|	0
NUN-MW1s	5/21/2014	13:10	5.87	89.36	<|0.05|	0
NUN-MW1s	6/20/2014	12:53	4.22	91.01	0.09	0.01
NUN-MW1s	7/16/2014	16:52	5.40	89.83	0.13	0.01
NUN-MW1s	8/28/2014	15:08	6.95	88.28	<|0.05|	0
NUN-MW1s	9/19/2014	13:48	7.49	87.74	0.08	0.01
NUN-MW1s	10/14/2014	9:18	7.64	87.59	<|0.05|	0
NUN-MW1s	11/7/2014	11:35	5.56	89.67	<|0.05|	0
NUN-MW1s	12/15/2014	11:27	3.63	91.60	<|0.05|	0
NUN-MW1s	1/13/2015	10:36	4.88	90.35	<|0.05|	0
NUN-MW1s	2/5/2015	7:58	5.52	89.71	<|0.05|	0
NUN-MW1s	3/13/2015	9:38	4.85	90.38	<|0.05|	0
NUN-MW1s	4/17/2015	8:41	4.63	90.60	<|0.05|	0
NUN-MW1s	5/12/2015	9:00	5.48	89.75	<|0.05|	0
NUN-MW1s	6/4/2015	9:15	5.78	89.45	<|0.05|	0
NUN-MW1s	7/20/2015	12:14	4.94	90.29	<|0.05|	0
NUN-MW1s	8/13/2015	15:34	5.44	89.79	<|0.05|	0
NUN-MW1s	9/14/2015	16:44	5.69	89.54	<|0.05|	0
NUN-MW1s	10/16/2015	16:11	5.51	89.72	<|0.05|	0
NUN-MW1s	11/13/2015	9:10	4.60	90.63	<|0.05|	0
NUN-MW1s	12/31/2015	11:39	6.21	89.02	<|0.05|	0
NUN-MW1s	1/16/2016	16:45	5.09	90.14	<|0.05|	0
NUN-MW1s	2/26/2016	10:55	5.50	89.73	-0.32	-0.02
NUN-MW1s	3/19/2016	10:38	7.10	88.13	0.17	0.01
NUN-MW1s	4/18/2016	14:37	6.39	88.84	<|0.05|	0
NUN-MW1s	5/16/2016	15:47	5.97	89.26	<|0.05|	0
NUN-MW1s	6/17/2016	10:09	6.43	88.80	<|0.05|	0
NUN-MW1s	7/22/2016	10:18	5.83	89.40	<|0.05|	0
NUN-MW1s	8/16/2016	12:51	6.06	89.17	<|0.05|	0
NUN-MW1s	9/16/2016	14:39	6.26	88.97	<|0.05|	0
NUN-MW1s	10/14/2016	15:01	6.87	88.36	<|0.05|	0
NUN-MW1s	11/21/2016	15:50	6.61	88.62	<|0.05|	0
NUN-MW1s	12/13/2016	15:00	6.44	88.79	<|0.05|	0
NUN-MW1s	1/26/2017	12:27	4.89	90.34	<|0.05|	0
NUN-MW1s	2/1/2017		N/M			
NUN-MW1s	3/13/2017	16:10	6.03	89.20	<|0.05|	0
NUN-MW1s	4/21/2017	12:14	6.76	88.47	<|0.05|	0
NUN-MW1s	5/17/2017	8:15	6.33	88.90	<|0.05|	0
NUN-MW1s	6/23/2017	9:00	6.13	89.10	0.07	0.01
NUN-MW1s	7/14/2017	9:03	6.25	88.98	<|0.05|	0
NUN-MW1s	8/22/2017	13:34	5.54	89.69	<|0.05|	0
NUN-MW1s	9/23/2017	12:38	6.72	88.51	<|0.05|	0
NUN-MW1s	10/20/2017	13:14	5.84	89.39	<|0.05|	0
NUN-MW1s	11/14/2017	13:56	6.35	88.88	<|0.05|	0
NUN-MW1s	12/31/2017	10:17	6.96	88.27	<|0.05|	0
NUN-MW1s	1/22/2018	12:49	6.76	88.47	<|0.05|	0
NUN-MW1s	2/23/2018	9:08	6.48	88.75	<|0.05|	0
NUN-MW1s	3/1/2018		N/M			
NUN-MW1s	4/25/2018	13:20	7.06	88.17	<|0.05|	0
NUN-MW1s	5/16/2018	12:57	5.61	89.62	<|0.05|	0
NUN-MW1s	6/14/2018	13:05	6.56	88.67	<|0.05|	0
NUN-MW1s	7/17/2018	13:10	5.96	89.27	<|0.05|	0
NUN-MW1s	8/17/2018	10:35	5.87	89.36	<|0.05|	0
NUN-MW1s	9/12/2018	10:12	6.51	88.72	<|0.05|	0
NUN-MW1s	10/25/2018	13:47	5.68	89.55	0.10	0.01
NUN-MW1s	11/13/2018	13:02	6.52	88.71	<|0.05|	0
NUN-MW1s	12/14/2018	13:18	6.39	88.84	<|0.05|	0
NUN-MW1s	1/24/2019	13:57	5.97	89.26	<|0.05|	0
NUN-MW1s	2/28/2019	7:52	5.60	89.63	<|0.05|	0
NUN-MW1s	3/17/2019	13:35	6.13	89.10	<|0.05|	0
NUN-MW1s	4/15/2019	9:55	6.71	88.52	0.14	0.01
NUN-MW1s	5/21/2019	14:19	6.13	89.10	<|0.05|	0
NUN-MW1s	6/20/2019	10:10	6.83	88.40	<|0.05|	0
NUN-MW1s	7/17/2019	8:50	6.22	89.01	<|0.05|	0
NUN-MW1s	8/14/2019	13:28	5.71	89.52	<|0.05|	0
NUN-MW1s	9/26/2019	10:18	6.95	88.28	<|0.05|	0
NUN-MW1s	10/24/2019	13:15	6.84	88.39	<|0.05|	0
NUN-MW1s	11/14/2019	8:50	7.35	87.88	<|0.05|	0
NUN-MW1s	12/13/2019	10:43	5.93	89.30	<|0.05|	0
NUN-MW1d	1/30/2012	14:30	7.50	87.46		
NUN-MW1d	2/9/2012	14:30	6.78	88.18		
NUN-MW1d	3/5/2012	9:51	6.49	88.47		
NUN-MW1d	4/9/2012	11:59	7.18	87.78		
NUN-MW1d	5/11/2012	13:01	7.35	87.61		
NUN-MW1d	6/20/2012	11:53	7.18	87.78		
NUN-MW1d	7/11/2012	13:47	7.72	87.24		
NUN-MW1d	8/17/2012	11:50	6.67	88.29		
NUN-MW1d	9/20/2012	10:03	7.04	87.92		
NUN-MW1d	10/19/2012	10:18	6.25	88.71		
NUN-MW1d	12/4/2012	13:07	6.85	88.11		
NUN-MW1d	12/31/2012	11:31	5.61	89.35		
NUN-MW1d	1/15/2013	10:31	6.57	88.39		
NUN-MW1d	2/16/2013	17:16	6.52	88.44		
NUN-MW1d	3/18/2013	14:55	6.19	88.77		
NUN-MW1d	4/17/2013	12:24	6.46	88.50		
NUN-MW1d	5/30/2013	15:30	6.94	88.02		
NUN-MW1d	6/18/2013	12:38	6.15	88.81		
NUN-MW1d	7/15/2013	13:21	6.01	88.95		
NUN-MW1d	8/21/2013	15:35	5.87	89.09		
NUN-MW1d	9/9/2013	9:57	5.65	89.31		
NUN-MW1d	10/7/2013	12:42	7.00	87.96		
NUN-MW1d	11/12/2013	9:21	6.43	88.53		
NUN-MW1d	12/17/2013	12:20	6.64	88.32		
NUN-MW1d	1/13/2014	11:25	7.45	87.51		
NUN-MW1d	2/17/2014	14:23	7.43	87.53		
NUN-MW1d	3/17/2014	10:22	6.35	88.61		
NUN-MW1d	4/19/2014	9:48	7.23	87.73		
NUN-MW1d	5/21/2014	13:10	5.57	89.39		
NUN-MW1d	6/20/2014	12:53	4.04	90.92		
NUN-MW1d	7/16/2014	16:52	5.26	89.70		
NUN-MW1d	8/28/2014	15:08	6.65	88.31		
NUN-MW1d	9/19/2014	13:48	7.30	87.66		
NUN-MW1d	10/14/2014	9:18	7.39	87.57		
NUN-MW1d	11/7/2014	11:36	5.28	89.68		
NUN-MW1d	12/15/2014	11:27	3.34	91.62		
NUN-MW1d	1/13/2015	10:36	4.60	90.36		
NUN-MW1d	2/5/2015	7:58	5.28	89.68		
NUN-MW1d	3/13/2015	9:38	4.58	90.38		
NUN-MW1d	4/17/2015	8:41	4.33	90.63		
NUN-MW1d	5/12/2015	9:00	5.21	89.75		
NUN-MW1d	6/4/2015	9:15	5.48	89.48		
NUN-MW1d	7/20/2015	12:14	4.67	90.29		
NUN-MW1d	8/13/2015	15:34	5.16	89.80		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
NUN-MW1d	9/14/2015	16:44	5.40	89.56		
NUN-MW1d	10/16/2015	16:11	5.21	89.75		
NUN-MW1d	11/13/2015	9:10	4.31	90.65		
NUN-MW1d	12/31/2015	11:40	5.92	89.04		
NUN-MW1d	1/16/2016	16:45	4.82	90.14		
NUN-MW1d	2/26/2016	10:56	4.91	90.05		
NUN-MW1d	3/19/2016	10:38	7.00	87.96		
NUN-MW1d	4/18/2016	14:38	6.12	88.84		
NUN-MW1d	5/16/2016	15:48	5.70	89.26		
NUN-MW1d	6/17/2016	10:10	6.17	88.79		
NUN-MW1d	7/22/2016	10:18	5.55	89.41		
NUN-MW1d	8/16/2016	12:52	5.75	89.21		
NUN-MW1d	9/16/2016	14:38	6.00	88.96		
NUN-MW1d	10/14/2016	15:02	6.60	88.36		
NUN-MW1d	11/21/2016	15:51	6.32	88.64		
NUN-MW1d	12/13/2016	15:01	6.19	88.77		
NUN-MW1d	1/26/2017	12:28	4.60	90.36		
NUN-MW1d	2/1/2017		N/M			
NUN-MW1d	3/13/2017	16:10	5.75	89.21		
NUN-MW1d	4/21/2017	12:15	6.50	88.46		
NUN-MW1d	5/17/2017	8:15	6.05	88.91		
NUN-MW1d	6/23/2017	9:00	5.93	89.03		
NUN-MW1d	7/14/2017	9:03	5.98	88.98		
NUN-MW1d	8/22/2017	13:34	5.25	89.71		
NUN-MW1d	9/23/2017	12:39	6.41	88.55		
NUN-MW1d	10/20/2017	13:15	5.55	89.41		
NUN-MW1d	11/14/2017	13:57	6.09	88.87		
NUN-MW1d	12/31/2017	10:18	6.70	88.26		
NUN-MW1d	1/22/2018	12:50	6.52	88.44		
NUN-MW1d	2/23/2018	9:09	6.20	88.76		
NUN-MW1d	3/1/2018		N/M			
NUN-MW1d	4/25/2018	13:20	6.80	88.16		
NUN-MW1d	5/16/2018	12:57	5.34	89.62		
NUN-MW1d	6/14/2018	13:06	6.30	88.66		
NUN-MW1d	7/17/2018	13:11	5.73	89.23		
NUN-MW1d	8/17/2018	10:35	5.60	89.36		
NUN-MW1d	9/12/2018	10:12	6.23	88.73		
NUN-MW1d	10/25/2018	13:47	5.51	89.45		
NUN-MW1d	11/13/2018	13:00	6.25	88.71		
NUN-MW1d	12/14/2018	13:19	6.12	88.84		
NUN-MW1d	1/24/2019	13:58	5.70	89.26		
NUN-MW1d	2/28/2019	7:52	5.33	89.63		
NUN-MW1d	3/17/2019	13:36	5.88	89.08		
NUN-MW1d	4/15/2019	9:55	6.58	88.38		
NUN-MW1d	5/21/2019	14:19	5.90	89.06		
NUN-MW1d	6/20/2019	10:10	6.57	88.39		
NUN-MW1d	7/17/2019	8:50	5.98	88.98		
NUN-MW1d	8/14/2019	13:28	5.49	89.47		
NUN-MW1d	9/26/2019	10:18	6.68	88.28		
NUN-MW1d	10/24/2019	13:15	6.62	88.34		
NUN-MW1d	11/14/2019	8:50	7.10	87.86		
NUN-MW1d	12/13/2019	10:43	5.68	89.28		
NUN-MW2s	1/30/2012	14:40	8.02	89.06	<|0.05|	0
NUN-MW2s	2/9/2012	13:21	8.00	89.08	<|0.05|	0
NUN-MW2s	3/5/2012	9:54	7.62	89.46	<|0.05|	0
NUN-MW2s	4/9/2012	12:05	8.12	88.96	<|0.05|	0
NUN-MW2s	5/11/2012	13:26	7.97	89.11	<|0.05|	0
NUN-MW2s	6/20/2012	12:05	7.98	89.10	<|0.05|	0
NUN-MW2s	7/11/2012	13:58	8.26	88.82	0.07	0.00
NUN-MW2s	8/17/2012	11:56	7.58	89.50	<|0.05|	0
NUN-MW2s	9/20/2012	10:05	7.92	89.16	<|0.05|	0
NUN-MW2s	10/19/2012	10:15	7.58	89.50	<|0.05|	0
NUN-MW2s	12/4/2012	13:09	7.20	89.88	0.23	0.01
NUN-MW2s	12/31/2012	11:25	6.94	90.14	<|0.05|	0
NUN-MW2s	1/15/2013	10:29	7.69	89.39	<|0.05|	0
NUN-MW2s	2/16/2013	17:25	7.80	89.28	<|0.05|	0
NUN-MW2s	3/18/2013	14:50	7.16	89.92	<|0.05|	0
NUN-MW2s	4/17/2013	12:38	5.92	91.16	<|0.05|	0
NUN-MW2s	5/30/2013	15:37	8.09	88.99	-0.05	-0.00
NUN-MW2s	6/18/2013	12:44	7.54	89.54	<|0.05|	0
NUN-MW2s	7/15/2013	13:27	7.37	89.71	<|0.05|	0
NUN-MW2s	8/21/2013	15:39	6.45	90.63	<|0.05|	0
NUN-MW2s	9/9/2013	9:53	5.42	91.66	<|0.05|	0
NUN-MW2s	10/7/2013	12:39	8.13	88.95	<|0.05|	0
NUN-MW2s	11/12/2013	9:33	7.50	89.58	<|0.05|	0
NUN-MW2s	12/17/2013	12:12	7.93	89.15	<|0.05|	0
NUN-MW2s	1/13/2014	11:19	8.23	88.85	<|0.05|	0
NUN-MW2s	2/17/2014	14:04	8.17	88.91	<|0.05|	0
NUN-MW2s	3/17/2014	10:28	7.70	89.38	<|0.05|	0
NUN-MW2s	4/19/2014	9:54	7.93	89.15	<|0.05|	0
NUN-MW2s	5/21/2014	13:05	6.58	90.50	<|0.05|	0
NUN-MW2s	6/20/2014	12:47	5.55	91.53	-0.12	-0.01
NUN-MW2s	7/16/2014	16:59	6.05	91.03	<|0.05|	0
NUN-MW2s	8/28/2014	15:12	7.62	89.46	<|0.05|	0
NUN-MW2s	9/19/2014	13:41	8.01	89.07	<|0.05|	0
NUN-MW2s	10/14/2014	9:09	7.98	89.10	<|0.05|	0
NUN-MW2s	11/7/2014	11:40	5.85	91.23	0.06	0.00
NUN-MW2s	12/15/2014	11:42	3.46	93.62	<|0.05|	0
NUN-MW2s	1/13/2015	10:41	5.36	91.72	<|0.05|	0
NUN-MW2s	2/5/2015	7:52	6.27	90.81	<|0.05|	0
NUN-MW2s	3/13/2015	9:29	6.11	90.97	<|0.05|	0
NUN-MW2s	4/17/2015	8:30	4.12	92.96	<|0.05|	0
NUN-MW2s	5/12/2015	8:43	5.90	91.18	<|0.05|	0
NUN-MW2s	6/4/2015	9:22	6.30	90.78	<|0.05|	0
NUN-MW2s	7/20/2015	12:33	5.11	91.97	<|0.05|	0
NUN-MW2s	8/13/2015	15:45	5.62	91.46	<|0.05|	0
NUN-MW2s	9/14/2015	16:59	6.01	91.07	<|0.05|	0
NUN-MW2s	10/16/2015	16:19	6.22	90.86	<|0.05|	0
NUN-MW2s	11/13/2015	8:45	4.94	92.14	<|0.05|	0
NUN-MW2s	12/31/2015	11:53	6.75	90.33	<|0.05|	0
NUN-MW2s	1/16/2016	16:57	5.88	91.20	<|0.05|	0
NUN-MW2s	2/26/2016	10:36	5.14	91.94	<|0.05|	0
NUN-MW2s	3/19/2016	10:41	6.34	90.74	<|0.05|	0
NUN-MW2s	4/18/2016	14:43	6.90	90.18	<|0.05|	0
NUN-MW2s	5/16/2016	15:40	7.14	89.94	<|0.05|	0
NUN-MW2s	6/17/2016	10:15	7.49	89.59	<|0.05|	0
NUN-MW2s	7/22/2016	10:26	7.65	89.43	<|0.05|	0
NUN-MW2s	8/16/2016	12:44	7.32	89.76	<|0.05|	0
NUN-MW2s	9/16/2016	14:48	7.68	89.40	<|0.05|	0
NUN-MW2s	10/14/2016	15:11	7.74	89.34	<|0.05|	0
NUN-MW2s	11/21/2016	15:45	7.50	89.58	0.21	0.01
NUN-MW2s	12/13/2016	15:04	7.90	89.18	<|0.05|	0
NUN-MW2s	1/26/2017	12:31	6.37	90.71	<|0.05|	0
NUN-MW2s	2/1/2017		N/M			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
NUN-MW2s	3/13/2017	16:30	7.36	89.72	<|0.05|	0
NUN-MW2s	4/21/2017	12:20	7.81	89.27	<|0.05|	0
NUN-MW2s	5/17/2017	8:21	7.51	89.57	<|0.05|	0
NUN-MW2s	6/23/2017	8:46	7.85	89.23	<|0.05|	0
NUN-MW2s	7/14/2017	8:49	6.54	90.54	<|0.05|	0
NUN-MW2s	8/22/2017	13:21	7.28	89.80	<|0.05|	0
NUN-MW2s	9/23/2017	12:44	7.77	89.31	<|0.05|	0
NUN-MW2s	10/20/2017	13:07	7.88	89.20	<|0.05|	0
NUN-MW2s	11/14/2017	14:07	7.76	89.32	<|0.05|	0
NUN-MW2s	12/31/2017	10:10	7.93	89.15	<|0.05|	0
NUN-MW2s	1/22/2018	13:01	7.79	89.29	<|0.05|	0
NUN-MW2s	2/23/2018	9:20	7.40	89.68	<|0.05|	0
NUN-MW2s	3/1/2018		N/M			
NUN-MW2s	4/25/2018	13:29	7.71	89.37	<|0.05|	0
NUN-MW2s	5/16/2018	12:53	6.82	90.26	<|0.05|	0
NUN-MW2s	6/14/2018	13:14	7.45	89.63	<|0.05|	0
NUN-MW2s	7/17/2018	13:16	7.12	89.96	<|0.05|	0
NUN-MW2s	8/17/2018	10:41	7.07	90.01	<|0.05|	0
NUN-MW2s	9/12/2018	10:00	7.52	89.56	<|0.05|	0
NUN-MW2s	10/25/2018	13:35	7.18	89.90	<|0.05|	0
NUN-MW2s	11/13/2018	13:11	7.42	89.66	<|0.05|	0
NUN-MW2s	12/14/2018	13:24	7.51	89.57	<|0.05|	0
NUN-MW2s	1/24/2019	14:03	7.26	89.82	<|0.05|	0
NUN-MW2s	2/28/2019	7:59	6.98	90.10	<|0.05|	0
NUN-MW2s	3/17/2019	13:41	7.38	89.70	<|0.05|	0
NUN-MW2s	4/15/2019	9:47	7.32	89.76	<|0.05|	0
NUN-MW2s	5/21/2019	14:28	7.54	89.54	<|0.05|	0
NUN-MW2s	6/20/2019	9:57	7.42	89.66	<|0.05|	0
NUN-MW2s	7/17/2019	8:41	7.16	89.92	<|0.05|	0
NUN-MW2s	8/14/2019	13:37	6.43	90.65	<|0.05|	0
NUN-MW2s	9/26/2019	10:03	7.15	89.93	<|0.05|	0
NUN-MW2s	10/24/2019	14:01	7.64	89.44	<|0.05|	0
NUN-MW2s	11/14/2019	8:40	7.12	89.96	<|0.05|	0
NUN-MW2s	12/13/2019	10:23	6.12	90.96	<|0.05|	0
NUN-MW2d	1/30/2012	14:40	7.86	89.03		
NUN-MW2d	2/9/2012	13:22	7.81	89.08		
NUN-MW2d	3/5/2012	9:55	7.40	89.49		
NUN-MW2d	4/9/2012	12:06	7.91	88.98		
NUN-MW2d	5/11/2012	13:27	7.75	89.14		
NUN-MW2d	6/20/2012	12:06	7.81	89.08		
NUN-MW2d	7/11/2012	13:57	8.14	88.75		
NUN-MW2d	8/17/2012	11:55	7.38	89.51		
NUN-MW2d	9/20/2012	10:05	7.78	89.11		
NUN-MW2d	10/19/2012	10:15	7.38	89.51		
NUN-MW2d	12/4/2012	13:09	7.24	89.65		
NUN-MW2d	12/31/2012	11:26	6.73	90.16		
NUN-MW2d	1/15/2013	10:29	7.49	89.40		
NUN-MW2d	2/16/2013	17:25	7.60	89.29		
NUN-MW2d	3/18/2013	14:50	6.93	89.96		
NUN-MW2d	4/17/2013	12:38	5.71	91.18		
NUN-MW2d	5/30/2013	15:37	7.85	89.04		
NUN-MW2d	6/18/2013	12:45	7.36	89.53		
NUN-MW2d	7/15/2013	13:27	7.22	89.67		
NUN-MW2d	8/21/2013	15:39	6.28	90.61		
NUN-MW2d	9/9/2013	9:53	5.25	91.64		
NUN-MW2d	10/7/2013	12:39	7.94	88.95		
NUN-MW2d	11/12/2013	9:33	7.31	89.58		
NUN-MW2d	12/17/2013	12:12	7.73	89.16		
NUN-MW2d	1/13/2014	11:19	8.04	88.85		
NUN-MW2d	2/17/2014	14:04	7.97	88.92		
NUN-MW2d	3/17/2014	10:28	7.50	89.39		
NUN-MW2d	4/19/2014	9:54	7.74	89.15		
NUN-MW2d	5/21/2014	13:06	6.36	90.53		
NUN-MW2d	6/20/2014	12:47	5.24	91.65		
NUN-MW2d	7/16/2014	16:59	5.87	91.02		
NUN-MW2d	8/28/2014	15:12	7.41	89.48		
NUN-MW2d	9/19/2014	13:41	7.80	89.09		
NUN-MW2d	10/14/2014	9:09	7.81	89.08		
NUN-MW2d	11/7/2014	11:40	5.72	91.17		
NUN-MW2d	12/15/2014	11:42	3.28	93.61		
NUN-MW2d	1/13/2015	10:41	5.19	91.70		
NUN-MW2d	2/5/2015	7:52	6.08	90.81		
NUN-MW2d	3/13/2015	9:29	5.92	90.97		
NUN-MW2d	4/17/2015	8:30	3.98	92.91		
NUN-MW2d	5/12/2015	8:43	5.73	91.16		
NUN-MW2d	6/4/2015	9:22	6.13	90.76		
NUN-MW2d	7/20/2015	12:33	4.92	91.97		
NUN-MW2d	8/13/2015	15:45	5.46	91.43		
NUN-MW2d	9/14/2015	16:59	5.84	91.05		
NUN-MW2d	10/16/2015	16:19	6.03	90.86		
NUN-MW2d	11/13/2015	8:45	4.74	92.15		
NUN-MW2d	12/31/2015	11:54	6.58	90.31		
NUN-MW2d	1/16/2016	16:58	5.67	91.22		
NUN-MW2d	2/26/2016	10:35	4.96	91.93		
NUN-MW2d	3/19/2016	10:41	6.14	90.75		
NUN-MW2d	4/18/2016	14:44	6.71	90.18		
NUN-MW2d	5/16/2016	15:41	6.95	89.94		
NUN-MW2d	6/17/2016	10:16	7.29	89.60		
NUN-MW2d	7/22/2016	10:26	7.46	89.43		
NUN-MW2d	8/16/2016	12:45	7.11	89.78		
NUN-MW2d	9/16/2016	14:49	7.46	89.43		
NUN-MW2d	10/14/2016	15:12	7.59	89.30		
NUN-MW2d	11/21/2016	15:46	7.52	89.37		
NUN-MW2d	12/13/2016	15:05	7.75	89.14		
NUN-MW2d	1/26/2017	12:32	6.17	90.72		
NUN-MW2d	2/1/2017		N/M			
NUN-MW2d	3/13/2017	16:30	7.18	89.71		
NUN-MW2d	4/21/2017	12:21	7.65	89.24		
NUN-MW2d	5/17/2017	8:21	7.32	89.57		
NUN-MW2d	6/23/2017	8:46	7.68	89.21		
NUN-MW2d	7/14/2017	8:49	6.38	90.51		
NUN-MW2d	8/22/2017	13:21	7.08	89.81		
NUN-MW2d	9/23/2017	12:45	7.59	89.30		
NUN-MW2d	10/20/2017	13:08	7.70	89.19		
NUN-MW2d	11/14/2017	14:08	7.58	89.31		
NUN-MW2d	12/31/2017	10:11	7.77	89.12		
NUN-MW2d	1/22/2018	13:02	7.63	89.26		
NUN-MW2d	2/23/2018	9:21	7.21	89.68		
NUN-MW2d	3/1/2018		N/M			
NUN-MW2d	4/25/2018	13:29	7.52	89.37		
NUN-MW2d	5/16/2018	12:54	6.60	90.29		
NUN-MW2d	6/14/2018	13:15	7.28	89.61		
NUN-MW2d	7/17/2018	13:17	6.95	89.94		
NUN-MW2d	8/17/2018	10:41	6.90	89.99		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
NUN-MW2d	9/12/2018	10:00	7.32	89.57		
NUN-MW2d	10/25/2018	13:35	6.98	89.91		
NUN-MW2d	11/13/2018	13:15	7.24	89.65		
NUN-MW2d	12/14/2018	13:25	7.32	89.57		
NUN-MW2d	1/24/2019	14:04	7.10	89.79		
NUN-MW2d	2/28/2019	7:59	6.80	90.09		
NUN-MW2d	3/17/2019	13:42	7.20	89.69		
NUN-MW2d	4/15/2019	9:47	7.12	89.77		
NUN-MW2d	5/21/2019	14:28	7.37	89.52		
NUN-MW2d	6/20/2019	9:57	7.22	89.67		
NUN-MW2d	7/17/2019	8:41	6.98	89.91		
NUN-MW2d	8/14/2019	13:37	6.25	90.64		
NUN-MW2d	9/26/2019	10:03	7.00	89.89		
NUN-MW2d	10/24/2019	14:01	7.46	89.43		
NUN-MW2d	11/14/2019	8:40	6.92	89.97		
NUN-MW2d	12/13/2019	10:23	5.92	90.97		
NUN-MW3s	1/30/2012	14:50	5.91	88.01	<|0.05|	0
NUN-MW3s	2/9/2012	14:06	5.37	88.55	<|0.05|	0
NUN-MW3s	3/5/2012	9:58	5.04	88.88	<|0.05|	0
NUN-MW3s	4/9/2012	12:04	5.76	88.16	<|0.05|	0
NUN-MW3s	5/11/2012	12:44	5.92	88.00	<|0.05|	0
NUN-MW3s	6/20/2012	11:47	5.75	88.17	<|0.05|	0
NUN-MW3s	7/11/2012	13:50	6.16	87.76	<|0.05|	0
NUN-MW3s	8/17/2012	11:47	4.79	89.13	<|0.05|	0
NUN-MW3s	9/20/2012	10:00	5.09	88.83	<|0.05|	0
NUN-MW3s	10/19/2012	10:21	6.38	87.54	-0.12	-0.01
NUN-MW3s	12/4/2012	13:03	5.60	88.32	<|0.05|	0
NUN-MW3s	12/31/2012	11:38	4.48	89.44	<|0.05|	0
NUN-MW3s	1/15/2013	10:34	5.13	88.79	<|0.05|	0
NUN-MW3s	2/16/2013	17:14	4.92	89.00	<|0.05|	0
NUN-MW3s	3/18/2013	15:00	4.58	89.34	<|0.05|	0
NUN-MW3s	4/17/2013	12:27	4.23	89.69	<|0.05|	0
NUN-MW3s	5/30/2013	15:26	5.27	88.65	0.09	0.01
NUN-MW3s	6/18/2013	12:32	4.70	89.22	<|0.05|	0
NUN-MW3s	7/15/2013	13:15	4.43	89.49	<|0.05|	0
NUN-MW3s	8/21/2013	15:29	3.96	89.96	<|0.05|	0
NUN-MW3s	9/9/2013	10:01	N/M			
NUN-MW3s	10/7/2013	12:49	5.54	88.38	<|0.05|	0
NUN-MW3s	11/12/2013	9:26	4.76	89.16	<|0.05|	0
NUN-MW3s	12/17/2013	12:24	4.93	88.99	<|0.05|	0
NUN-MW3s	1/13/2014	11:23	5.22	88.70	0.11	0.01
NUN-MW3s	2/17/2014	14:18	6.12	87.80	<|0.05|	0
NUN-MW3s	3/17/2014	10:19	4.64	89.28	<|0.05|	0
NUN-MW3s	4/19/2014	9:45	5.83	88.09	<|0.05|	0
NUN-MW3s	5/21/2014	13:16	4.12	89.80	<|0.05|	0
NUN-MW3s	6/20/2014	12:44	2.58	91.34	<|0.05|	0
NUN-MW3s	7/16/2014	16:48	3.60	90.32	<|0.05|	0
NUN-MW3s	8/28/2014	15:05	4.94	88.98	<|0.05|	0
NUN-MW3s	9/19/2014	13:51	5.78	88.14	<|0.05|	0
NUN-MW3s	10/14/2014	9:17	6.12	87.80	<|0.05|	0
NUN-MW3s	11/7/2014	11:30	3.83	90.09	<|0.05|	0
NUN-MW3s	12/15/2014	11:24	1.57	92.35	<|0.05|	0
NUN-MW3s	1/13/2015	10:33	3.20	90.72	<|0.05|	0
NUN-MW3s	2/5/2015	8:02	3.95	89.97	<|0.05|	0
NUN-MW3s	3/13/2015	9:41	3.74	90.18	<|0.05|	0
NUN-MW3s	4/17/2015	8:39	2.39	91.53	<|0.05|	0
NUN-MW3s	5/12/2015	8:57	3.90	90.02	<|0.05|	0
NUN-MW3s	6/4/2015	9:12	4.34	89.58	<|0.05|	0
NUN-MW3s	7/20/2015	12:10	3.24	90.68	<|0.05|	0
NUN-MW3s	8/13/2015	15:32	4.01	89.91	<|0.05|	0
NUN-MW3s	9/14/2015	16:40	3.84	90.08		
NUN-MW3s	10/16/2015	16:08	4.16	89.76	<|0.05|	0
NUN-MW3s	11/13/2015	9:05	2.48	91.44	<|0.05|	0
NUN-MW3s	12/31/2015	11:36	4.48	89.44	<|0.05|	0
NUN-MW3s	1/16/2016	16:42	3.32	90.60	<|0.05|	0
NUN-MW3s	2/26/2016	10:57	3.64	90.28	<|0.05|	0
NUN-MW3s	3/19/2016	10:24	4.73	89.19	-0.13	-0.01
NUN-MW3s	4/18/2016	14:29	4.70	89.22	<|0.05|	0
NUN-MW3s	5/16/2016	15:49	3.98	89.94	<|0.05|	0
NUN-MW3s	6/17/2016	10:07	4.77	89.15	<|0.05|	0
NUN-MW3s	7/22/2016	10:11	3.66	90.26	<|0.05|	0
NUN-MW3s	8/16/2016	12:56	3.96	89.96	<|0.05|	0
NUN-MW3s	9/16/2016	14:36	4.70	89.22	<|0.05|	0
NUN-MW3s	10/14/2016	14:59	5.15	88.77	<|0.05|	0
NUN-MW3s	11/21/2016	15:53	4.60	89.32	<|0.05|	0
NUN-MW3s	12/13/2016	14:57	4.16	89.76	<|0.05|	0
NUN-MW3s	1/26/2017	12:24	2.74	91.18	<|0.05|	0
NUN-MW3s	2/1/2017		N/M			
NUN-MW3s	3/13/2017	16:17	4.15	89.77	<|0.05|	0
NUN-MW3s	4/21/2017	12:12	5.22	88.70	<|0.05|	0
NUN-MW3s	5/17/2017	8:13	4.49	89.43	<|0.05|	0
NUN-MW3s	6/23/2017	8:57	4.82	89.10	<|0.05|	0
NUN-MW3s	7/14/2017	9:01	4.38	89.54	<|0.05|	0
NUN-MW3s	8/22/2017	13:31	3.42	90.50	<|0.05|	0
NUN-MW3s	9/23/2017	12:36	5.00	88.92	<|0.05|	0
NUN-MW3s	10/20/2017	13:16	3.81	90.11	<|0.05|	0
NUN-MW3s	11/14/2017	13:54	4.68	89.24	<|0.05|	0
NUN-MW3s	12/31/2017	10:20	5.52	88.40	-0.08	-0.01
NUN-MW3s	1/22/2018	12:45	5.41	88.51	<|0.05|	0
NUN-MW3s	2/23/2018	8:58	4.87	89.05	<|0.05|	0
NUN-MW3s	3/1/2018		N/M			
NUN-MW3s	4/25/2018	13:16	5.67	88.25	<|0.05|	0
NUN-MW3s	5/16/2018	12:58	3.82	90.10	<|0.05|	0
NUN-MW3s	6/14/2018	13:02	4.98	88.94	<|0.05|	0
NUN-MW3s	7/17/2018	13:09	4.37	89.55	<|0.05|	0
NUN-MW3s	8/17/2018	10:32	2.94	90.98	1.01	0.08
NUN-MW3s	9/12/2018	10:10	4.83	89.09	<|0.05|	0
NUN-MW3s	10/25/2018	13:44	3.95	89.97	<|0.05|	0
NUN-MW3s	11/13/2018	12:57	4.80	89.12	<|0.05|	0
NUN-MW3s	12/14/2018	13:16	4.85	89.07	<|0.05|	0
NUN-MW3s	1/24/2019	13:54	4.35	89.57	-0.06	-0.00
NUN-MW3s	2/28/2019	7:48	3.80	90.12	<|0.05|	0
NUN-MW3s	3/17/2019	13:31	4.50	89.42	-0.06	-0.00
NUN-MW3s	4/15/2019	9:57	5.31	88.61	<|0.05|	0
NUN-MW3s	5/21/2019	14:15	5.26	88.66	<|0.05|	0
NUN-MW3s	6/20/2019	10:08	4.56	89.36	<|0.05|	0
NUN-MW3s	7/17/2019	8:53	5.10	88.82	<|0.05|	0
NUN-MW3s	8/14/2019	13:24	4.83	89.09	<|0.05|	0
NUN-MW3s	9/26/2019	10:14	5.72	88.20	<|0.05|	0
NUN-MW3s	10/24/2019	13:12	5.97	87.95	<|0.05|	0
NUN-MW3s	11/14/2019	8:56	6.31	87.61	<|0.05|	0
NUN-MW3s	12/13/2019	10:39	4.90	89.02	<|0.05|	0
NUN-MW3d	1/30/2012	14:50	5.84	88.02		
NUN-MW3d	2/9/2012	14:07	5.36	88.50		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
NUN-MW3d	3/5/2012	10:00	4.96	88.90		
NUN-MW3d	4/9/2012	12:05	5.71	88.15		
NUN-MW3d	5/11/2012	12:45	5.89	87.97		
NUN-MW3d	6/20/2012	11:48	5.69	88.17		
NUN-MW3d	7/11/2012	13:50	6.07	87.79		
NUN-MW3d	8/17/2012	11:47	4.74	89.12		
NUN-MW3d	9/20/2012	10:00	5.00	88.86		
NUN-MW3d	10/19/2012	10:21	6.20	87.66		
NUN-MW3d	12/4/2012	13:03	5.53	88.33		
NUN-MW3d	12/31/2012	11:39	4.42	89.44		
NUN-MW3d	1/15/2013	10:34	5.04	88.82		
NUN-MW3d	2/16/2013	17:14	4.85	89.01		
NUN-MW3d	3/18/2013	15:00	4.50	89.36		
NUN-MW3d	4/17/2013	12:27	4.19	89.67		
NUN-MW3d	5/30/2013	15:26	5.30	88.56		
NUN-MW3d	6/18/2013	12:33	4.65	89.21		
NUN-MW3d	7/15/2013	13:15	4.40	89.46		
NUN-MW3d	8/21/2013	15:29	3.90	89.96		
NUN-MW3d	9/9/2013	10:01	N/M			
NUN-MW3d	10/7/2013	12:49	5.46	88.40		
NUN-MW3d	11/12/2013	9:26	4.70	89.16		
NUN-MW3d	12/17/2013	12:24	4.88	88.98		
NUN-MW3d	1/13/2014	11:23	5.27	88.59		
NUN-MW3d	2/17/2014	14:18	6.01	87.85		
NUN-MW3d	3/17/2014	10:19	4.58	89.28		
NUN-MW3d	4/19/2014	9:45	5.79	88.07		
NUN-MW3d	5/21/2014	13:16	4.05	89.81		
NUN-MW3d	6/20/2014	12:44	2.50	91.36		
NUN-MW3d	7/16/2014	16:48	3.52	90.34		
NUN-MW3d	8/28/2014	15:05	4.86	89.00		
NUN-MW3d	9/19/2014	13:51	5.70	88.16		
NUN-MW3d	10/14/2014	9:17	6.02	87.84		
NUN-MW3d	11/7/2014	11:30	3.78	90.08		
NUN-MW3d	12/15/2014	11:24	1.53	92.33		
NUN-MW3d	1/13/2015	10:33	3.12	90.74		
NUN-MW3d	2/5/2015	8:02	3.90	89.96		
NUN-MW3d	3/13/2015	9:41	3.68	90.18		
NUN-MW3d	4/17/2015	8:39	2.33	91.53		
NUN-MW3d	5/12/2015	8:57	3.82	90.04		
NUN-MW3d	6/4/2015	9:12	4.27	89.59		
NUN-MW3d	7/20/2015	12:10	3.17	90.69		
NUN-MW3d	8/13/2015	15:32	3.94	89.92		
NUN-MW3d	9/14/2015	16:40	Q/M			
NUN-MW3d	10/16/2015	16:08	4.09	89.77		
NUN-MW3d	11/13/2015	9:05	2.42	91.44		
NUN-MW3d	12/31/2015	11:37	4.40	89.46		
NUN-MW3d	1/16/2016	16:43	3.26	90.60		
NUN-MW3d	2/26/2016	10:58	3.57	90.29		
NUN-MW3d	3/19/2016	10:24	4.54	89.32		
NUN-MW3d	4/18/2016	14:28	4.63	89.23		
NUN-MW3d	5/16/2016	15:50	3.93	89.93		
NUN-MW3d	6/17/2016	10:08	4.70	89.16		
NUN-MW3d	7/22/2016	10:11	3.60	90.26		
NUN-MW3d	8/16/2016	12:57	3.90	89.96		
NUN-MW3d	9/16/2016	14:35	4.65	89.21		
NUN-MW3d	10/14/2016	14:58	5.08	88.78		
NUN-MW3d	11/21/2016	15:54	4.53	89.33		
NUN-MW3d	12/13/2016	14:58	4.09	89.77		
NUN-MW3d	1/26/2017	12:25	2.67	91.19		
NUN-MW3d	2/1/2017		N/M			
NUN-MW3d	3/13/2017	16:17	4.13	89.73		
NUN-MW3d	4/21/2017	12:13	5.18	88.68		
NUN-MW3d	5/17/2017	8:13	4.43	89.43		
NUN-MW3d	6/23/2017	8:57	4.75	89.11		
NUN-MW3d	7/14/2017	9:01	4.33	89.53		
NUN-MW3d	8/22/2017	13:31	3.39	90.47		
NUN-MW3d	9/23/2017	12:35	4.96	88.90		
NUN-MW3d	10/20/2017	13:17	3.77	90.09		
NUN-MW3d	11/14/2017	13:55	4.64	89.22		
NUN-MW3d	12/31/2017	10:22	5.38	88.48		
NUN-MW3d	1/22/2018	12:46	5.35	88.51		
NUN-MW3d	2/23/2018	8:59	4.80	89.06		
NUN-MW3d	3/1/2018		N/M			
NUN-MW3d	4/25/2018	13:16	5.60	88.26		
NUN-MW3d	5/16/2018	12:58	3.76	90.10		
NUN-MW3d	6/14/2018	13:02	4.92	88.94		
NUN-MW3d	7/17/2018	13:10	4.32	89.54		
NUN-MW3d	8/17/2018	10:32	3.89	89.97		
NUN-MW3d	9/12/2018	10:10	4.77	89.09		
NUN-MW3d	10/25/2018	13:44	3.89	89.97		
NUN-MW3d	11/13/2018	12:58	4.75	89.11		
NUN-MW3d	12/14/2018	13:15	4.76	89.10		
NUN-MW3d	1/24/2019	13:53	4.23	89.63		
NUN-MW3d	2/28/2019	7:48	3.73	90.13		
NUN-MW3d	3/17/2019	13:32	4.38	89.48		
NUN-MW3d	4/15/2019	9:57	5.20	88.66		
NUN-MW3d	5/21/2019	14:15	5.18	88.68		
NUN-MW3d	6/20/2019	10:08	4.45	89.41		
NUN-MW3d	7/17/2019	8:53	5.02	88.84		
NUN-MW3d	8/14/2019	13:24	4.77	89.09		
NUN-MW3d	9/26/2019	10:14	5.62	88.24		
NUN-MW3d	10/24/2019	13:12	5.88	87.98		
NUN-MW3d	11/14/2019	8:56	6.22	87.64		
NUN-MW3d	12/13/2019	10:39	4.80	89.06		
NUN-MW4s	1/30/2012	15:00	7.04	88.57	<|0.05|	0
NUN-MW4s	2/9/2012	13:49	7.12	88.49	<|0.05|	0
NUN-MW4s	3/5/2012	10:03	6.56	89.05	-0.06	-0.00
NUN-MW4s	4/9/2012	11:52	7.20	88.41	<|0.05|	0
NUN-MW4s	5/11/2012	12:30	7.12	88.49	<|0.05|	0
NUN-MW4s	6/20/2012	11:42	6.90	88.71	<|0.05|	0
NUN-MW4s	7/11/2012	13:54	7.34	88.27	<|0.05|	0
NUN-MW4s	8/17/2012	11:42	5.60	90.01	<|0.05|	0
NUN-MW4s	9/20/2012	9:56	5.91	89.70	<|0.05|	0
NUN-MW4s	10/19/2012	10:26	6.77	88.84	-0.11	-0.01
NUN-MW4s	12/4/2012	13:00	6.94	88.67	<|0.05|	0
NUN-MW4s	12/31/2012	11:42	5.94	89.67	<|0.05|	0
NUN-MW4s	1/15/2013	10:37	6.72	88.89	<|0.05|	0
NUN-MW4s	2/16/2013	17:11	6.59	89.02	<|0.05|	0
NUN-MW4s	3/18/2013	15:03	6.03	89.58	<|0.05|	0
NUN-MW4s	4/17/2013	12:31	5.75	89.86	<|0.05|	0
NUN-MW4s	5/30/2013	15:21	6.51	89.10	0.31	0.02
NUN-MW4s	6/18/2013	13:28	6.32	89.29	<|0.05|	0
NUN-MW4s	7/15/2013	13:10	6.10	89.51	<|0.05|	0
NUN-MW4s	8/21/2013	15:25	5.67	89.94	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
NUN-MW4s	9/9/2013	10:05	N/M			
NUN-MW4s	10/7/2013	12:53	5.57	90.04	<|0.05|	0
NUN-MW4s	11/12/2013	9:30	6.26	89.35	<|0.05|	0
NUN-MW4s	12/17/2013	12:28	6.50	89.11	<|0.05|	0
NUN-MW4s	1/13/2014	11:27	6.77	88.84	<|0.05|	0
NUN-MW4s	2/17/2014	14:11	7.28	88.33	<|0.05|	0
NUN-MW4s	3/17/2014	10:14	6.25	89.36	<|0.05|	0
NUN-MW4s	4/19/2014	9:41	7.15	88.46	<|0.05|	0
NUN-MW4s	5/21/2014	13:20	5.32	90.29	<|0.05|	0
NUN-MW4s	6/20/2014	12:41	4.60	91.01	0.05	0.00
NUN-MW4s	7/16/2014	16:42	6.22	89.39	-0.96	-0.07
NUN-MW4s	8/28/2014	15:00	6.32	89.29	<|0.05|	0
NUN-MW4s	9/19/2014	13:45	7.06	88.55	<|0.05|	0
NUN-MW4s	10/14/2014	9:14	7.28	88.33	<|0.05|	0
NUN-MW4s	11/7/2014	11:25	5.46	90.15	<|0.05|	0
NUN-MW4s	12/15/2014	11:30	3.23	92.38	<|0.05|	0
NUN-MW4s	1/13/2015	10:30	4.38	91.23	<|0.05|	0
NUN-MW4s	2/5/2015	8:07	5.12	90.49	<|0.05|	0
NUN-MW4s	3/13/2015	9:44	4.94	90.67	<|0.05|	0
NUN-MW4s	4/17/2015	8:37	3.81	91.80	<|0.05|	0
NUN-MW4s	5/12/2015	8:55	4.88	90.73	<|0.05|	0
NUN-MW4s	6/4/2015	9:08	5.35	90.26	<|0.05|	0
NUN-MW4s	7/20/2015	12:07	4.31	91.30	<|0.05|	0
NUN-MW4s	8/13/2015	15:29	4.83	90.78	<|0.05|	0
NUN-MW4s	9/14/2015	16:35	4.65	90.96	<|0.05|	0
NUN-MW4s	10/16/2015	16:04	5.34	90.27	-0.06	-0.00
NUN-MW4s	11/13/2015	8:57	3.50	92.11	<|0.05|	0
NUN-MW4s	12/31/2015	11:31	5.42	90.19	<|0.05|	0
NUN-MW4s	1/16/2016	16:38	4.64	90.97	<|0.05|	0
NUN-MW4s	2/26/2016	10:59	4.40	91.21	<|0.05|	0
NUN-MW4s	3/19/2016	10:29	5.21	90.40	<|0.05|	0
NUN-MW4s	4/18/2016	14:26	5.66	89.95	<|0.05|	0
NUN-MW4s	5/16/2016	15:51	5.57	90.04	<|0.05|	0
NUN-MW4s	6/17/2016	10:04	6.25	89.36	<|0.05|	0
NUN-MW4s	7/22/2016	10:15	5.35	90.26	0.05	0.00
NUN-MW4s	8/16/2016	12:58	5.50	90.11	0.17	0.01
NUN-MW4s	9/16/2016	14:32	6.34	89.27	<|0.05|	0
NUN-MW4s	10/14/2016	14:56	6.50	89.11	<|0.05|	0
NUN-MW4s	11/21/2016	15:55	5.97	89.64	-0.11	-0.01
NUN-MW4s	12/13/2016	14:54	5.56	90.05	0.06	0.00
NUN-MW4s	1/26/2017	12:18	4.77	90.84	<|0.05|	0
NUN-MW4s	2/1/2017		N/M			
NUN-MW4s	3/13/2017	16:21	5.84	89.77	-0.06	-0.00
NUN-MW4s	4/21/2017	12:10	6.65	88.96	<|0.05|	0
NUN-MW4s	5/17/2017	8:10	6.03	89.58	-0.06	-0.00
NUN-MW4s	6/23/2017	8:55	6.53	89.08	<|0.05|	0
NUN-MW4s	7/14/2017	8:56	6.00	89.61	<|0.05|	0
NUN-MW4s	8/22/2017	13:28	5.23	90.38	<|0.05|	0
NUN-MW4s	9/23/2017	12:34	6.46	89.15	<|0.05|	0
NUN-MW4s	10/20/2017	13:18	5.94	89.67	-0.13	-0.01
NUN-MW4s	11/14/2017	13:50	6.29	89.32	<|0.05|	0
NUN-MW4s	12/31/2017	10:25	6.85	88.76	0.19	0.01
NUN-MW4s	1/22/2018	12:42	6.92	88.69	<|0.05|	0
NUN-MW4s	2/23/2018	9:03	6.25	89.36	<|0.05|	0
NUN-MW4s	3/1/2018		N/M			
NUN-MW4s	4/25/2018	13:13	6.88	88.73	<|0.05|	0
NUN-MW4s	5/16/2018	12:59	5.67	89.94	-0.06	-0.00
NUN-MW4s	6/14/2018	12:58	6.42	89.19	<|0.05|	0
NUN-MW4s	7/17/2018	13:05	6.07	89.54	<|0.05|	0
NUN-MW4s	8/17/2018	10:28	5.70	89.91	<|0.05|	0
NUN-MW4s	9/12/2018	10:07	6.30	89.31	<|0.05|	0
NUN-MW4s	10/25/2018	13:42	5.77	89.84	<|0.05|	0
NUN-MW4s	11/13/2018	12:55	6.30	89.31	<|0.05|	0
NUN-MW4s	12/14/2018	13:11	6.42	89.19	<|0.05|	0
NUN-MW4s	1/24/2019	13:50	6.15	89.46	-0.06	-0.00
NUN-MW4s	2/28/2019	7:45	5.83	89.78	-0.35	-0.03
NUN-MW4s	3/17/2019	13:29	6.21	89.40	<|0.05|	0
NUN-MW4s	4/15/2019	10:00	6.61	89.00	<|0.05|	0
NUN-MW4s	5/21/2019	14:12	6.88	88.73	<|0.05|	0
NUN-MW4s	6/20/2019	10:05	6.78	88.83	<|0.05|	0
NUN-MW4s	7/17/2019	8:56	6.67	88.94	<|0.05|	0
NUN-MW4s	8/14/2019	13:20	6.42	89.19	<|0.05|	0
NUN-MW4s	9/26/2019	10:11	6.90	88.71	<|0.05|	0
NUN-MW4s	10/24/2019	14:08	7.25	88.36	<|0.05|	0
NUN-MW4s	11/14/2019	8:58	7.39	88.22	<|0.05|	0
NUN-MW4s	12/13/2019	10:30	N/M			
NUN-MW4d	1/30/2012	15:00	6.98	88.56		
NUN-MW4d	2/9/2012	13:50	7.03	88.51		
NUN-MW4d	3/5/2012	10:05	6.43	89.11		
NUN-MW4d	4/9/2012	11:53	7.11	88.43		
NUN-MW4d	5/11/2012	12:30	7.05	88.49		
NUN-MW4d	6/20/2012	11:43	6.80	88.74		
NUN-MW4d	7/11/2012	13:53	7.23	88.31		
NUN-MW4d	8/17/2012	11:42	5.57	89.97		
NUN-MW4d	9/20/2012	9:56	5.80	89.74		
NUN-MW4d	10/19/2012	10:26	6.59	88.95		
NUN-MW4d	12/4/2012	13:00	6.87	88.67		
NUN-MW4d	12/31/2012	11:43	5.90	89.64		
NUN-MW4d	1/15/2013	10:37	6.67	88.87		
NUN-MW4d	2/16/2013	17:11	6.50	89.04		
NUN-MW4d	3/18/2013	15:03	5.95	89.59		
NUN-MW4d	4/17/2013	12:31	5.71	89.83		
NUN-MW4d	5/30/2013	15:21	6.75	88.79		
NUN-MW4d	6/18/2013	12:30	6.22	89.32		
NUN-MW4d	7/15/2013	13:10	5.98	89.56		
NUN-MW4d	8/21/2013	15:25	5.55	89.99		
NUN-MW4d	9/9/2013	10:05	N/M			
NUN-MW4d	10/7/2013	12:53	5.49	90.05		
NUN-MW4d	11/12/2013	9:30	6.18	89.36		
NUN-MW4d	12/17/2013	12:28	6.39	89.15		
NUN-MW4d	1/13/2014	11:27	6.65	88.89		
NUN-MW4d	2/17/2014	14:11	7.22	88.32		
NUN-MW4d	3/17/2014	10:14	6.18	89.36		
NUN-MW4d	4/19/2014	9:41	7.12	88.42		
NUN-MW4d	5/21/2014	13:20	5.29	90.25		
NUN-MW4d	6/20/2014	12:41	4.58	90.96		
NUN-MW4d	7/16/2014	16:42	5.19	90.35		
NUN-MW4d	8/28/2014	15:00	6.25	89.29		
NUN-MW4d	9/19/2014	13:45	7.03	88.51		
NUN-MW4d	10/14/2014	9:14	7.22	88.32		
NUN-MW4d	11/7/2014	11:25	5.35	90.19		
NUN-MW4d	12/15/2014	11:30	3.13	92.41		
NUN-MW4d	1/13/2015	10:30	4.34	91.20		
NUN-MW4d	2/5/2015	8:07	5.07	90.47		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
NUN-MW4d	3/13/2015	9:44	4.88	90.66		
NUN-MW4d	4/17/2015	8:37	3.78	91.76		
NUN-MW4d	5/12/2015	8:55	4.83	90.71		
NUN-MW4d	6/4/2015	9:08	5.30	90.24		
NUN-MW4d	7/20/2015	12:07	4.28	91.26		
NUN-MW4d	8/13/2015	15:30	4.79	90.75		
NUN-MW4d	9/14/2015	16:35	4.59	90.95		
NUN-MW4d	10/16/2015	16:04	5.21	90.33		
NUN-MW4d	11/13/2015	8:57	3.43	92.11		
NUN-MW4d	12/31/2015	11:32	5.33	90.21		
NUN-MW4d	1/16/2016	16:39	4.59	90.95		
NUN-MW4d	2/26/2016	11:00	4.37	91.17		
NUN-MW4d	3/19/2016	10:29	5.14	90.40		
NUN-MW4d	4/18/2016	14:27	5.60	89.94		
NUN-MW4d	5/16/2016	15:52	5.46	90.08		
NUN-MW4d	6/17/2016	10:05	6.21	89.33		
NUN-MW4d	7/22/2016	10:15	5.33	90.21		
NUN-MW4d	8/16/2016	12:58	5.60	89.94		
NUN-MW4d	9/16/2016	14:31	6.30	89.24		
NUN-MW4d	10/14/2016	14:57	6.45	89.09		
NUN-MW4d	11/21/2016	15:56	5.79	89.75		
NUN-MW4d	12/13/2016	14:55	5.55	89.99		
NUN-MW4d	1/26/2017	12:19	4.74	90.80		
NUN-MW4d	2/1/2017		N/M			
NUN-MW4d	3/13/2017	16:21	5.71	89.83		
NUN-MW4d	4/21/2017	12:11	6.60	88.94		
NUN-MW4d	5/17/2017	8:10	5.90	89.64		
NUN-MW4d	6/23/2017	8:55	6.45	89.09		
NUN-MW4d	7/14/2017	8:56	5.90	89.64		
NUN-MW4d	8/22/2017	13:28	5.18	90.36		
NUN-MW4d	9/23/2017	12:33	6.36	89.18		
NUN-MW4d	10/20/2017	13:19	5.74	89.80		
NUN-MW4d	11/14/2017	13:51	6.18	89.36		
NUN-MW4d	12/31/2017	10:27	6.97	88.57		
NUN-MW4d	1/22/2018	12:43	6.86	88.68		
NUN-MW4d	2/23/2018	9:04	6.20	89.34		
NUN-MW4d	3/1/2018		N/M			
NUN-MW4d	4/25/2018	13:13	6.85	88.69		
NUN-MW4d	5/16/2018	12:59	5.54	90.00		
NUN-MW4d	6/14/2018	12:58	6.38	89.16		
NUN-MW4d	7/17/2018	13:06	5.98	89.56		
NUN-MW4d	8/17/2018	10:30	5.60	89.94		
NUN-MW4d	9/12/2018	10:07	6.23	89.31		
NUN-MW4d	10/25/2018	13:42	5.69	89.85		
NUN-MW4d	11/13/2018	12:56	6.18	89.36		
NUN-MW4d	12/14/2018	13:12	6.35	89.19		
NUN-MW4d	1/24/2019	13:51	6.02	89.52		
NUN-MW4d	2/28/2019	7:45	5.41	90.13		
NUN-MW4d	3/17/2019	13:30	6.14	89.40		
NUN-MW4d	4/15/2019	10:00	6.56	88.98		
NUN-MW4d	5/21/2019	14:12	6.82	88.72		
NUN-MW4d	6/20/2019	10:05	6.74	88.80		
NUN-MW4d	7/17/2019	8:56	6.57	88.97		
NUN-MW4d	8/14/2019	13:20	6.30	89.24		
NUN-MW4d	9/26/2019	10:11	6.83	88.71		
NUN-MW4d	10/24/2019	14:08	7.18	88.36		
NUN-MW4d	11/14/2019	8:58	7.30	88.24		
NUN-MW4d	12/13/2019	10:30	N/M			
NUN-MW5s	11/7/2014	11:10	6.89	89.55	2.97	0.23
NUN-MW5s	12/15/2014	11:38	4.78	91.66	<|0.05|	0
NUN-MW5s	1/13/2015	11:12	5.44	91.00	0.07	0.01
NUN-MW5s	2/5/2015	8:11	6.18	90.26	0.07	0.01
NUN-MW5s	3/13/2015	9:34	5.95	90.49	-0.27	-0.02
NUN-MW5s	4/17/2015	8:33	5.66	90.78	<|0.05|	0
NUN-MW5s	5/12/2015	8:49	5.88	90.56	<|0.05|	0
NUN-MW5s	6/4/2015	9:24	6.21	90.23	<|0.05|	0
NUN-MW5s	7/20/2015	12:29	5.52	90.92	<|0.05|	0
NUN-MW5s	8/13/2015	15:41	5.67	90.77	<|0.05|	0
NUN-MW5s	9/14/2015	16:54	6.03	90.41	<|0.05|	0
NUN-MW5s	10/16/2015	16:15	6.04	90.40	<|0.05|	0
NUN-MW5s	11/13/2015	8:50	5.40	91.04	0.10	0.01
NUN-MW5s	12/31/2015	11:47	6.70	89.74	-0.91	-0.07
NUN-MW5s	1/16/2016	16:51	6.02	90.42	-0.10	-0.01
NUN-MW5s	2/26/2016	10:45	5.13	91.31	<|0.05|	0
NUN-MW5s	3/19/2016	10:31	5.06	91.38	-0.29	-0.02
NUN-MW5s	4/18/2016	14:40	6.71	89.73	<|0.05|	0
NUN-MW5s	5/16/2016	15:43	7.25	89.19	<|0.05|	0
NUN-MW5s	6/17/2016	10:12	7.60	88.84	<|0.05|	0
NUN-MW5s	7/22/2016	10:23	7.63	88.81	<|0.05|	0
NUN-MW5s	8/16/2016	12:48	7.61	88.83	<|0.05|	0
NUN-MW5s	9/16/2016	14:44	7.68	88.76	<|0.05|	0
NUN-MW5s	10/14/2016	15:05	7.84	88.60	<|0.05|	0
NUN-MW5s	11/21/2016	15:48	7.77	88.67	<|0.05|	0
NUN-MW5s	12/13/2016	15:07	8.09	88.35	<|0.05|	0
NUN-MW5s	1/26/2017	12:34	6.96	89.48	<|0.05|	0
NUN-MW5s	2/1/2017		N/M			
NUN-MW5s	3/13/2017	16:25	7.42	89.02	-0.44	-0.03
NUN-MW5s	4/21/2017	12:17	7.88	88.56	<|0.05|	0
NUN-MW5s	5/17/2017	8:18	7.75	88.69	0.06	0.00
NUN-MW5s	6/23/2017	8:50	7.88	88.56	<|0.05|	0
NUN-MW5s	7/14/2017	8:52	7.60	88.84	<|0.05|	0
NUN-MW5s	8/22/2017	13:25	7.52	88.92	-0.28	-0.02
NUN-MW5s	9/23/2017	12:40	7.82	88.62	<|0.05|	0
NUN-MW5s	10/20/2017	13:11	7.97	88.47	<|0.05|	0
NUN-MW5s	11/14/2017	13:59	7.78	88.66	<|0.05|	0
NUN-MW5s	12/31/2017	10:14	7.98	88.46	<|0.05|	0
NUN-MW5s	1/22/2018	12:52	7.86	88.58	<|0.05|	0
NUN-MW5s	2/23/2018	9:13	7.54	88.90	<|0.05|	0
NUN-MW5s	3/1/2018		N/M			
NUN-MW5s	4/25/2018	13:24	7.90	88.54	-0.23	-0.02
NUN-MW5s	5/16/2018	12:56	7.31	89.13	<|0.05|	0
NUN-MW5s	6/14/2018	13:10	7.74	88.70	-0.22	-0.02
NUN-MW5s	7/17/2018	13:13	7.64	88.80	<|0.05|	0
NUN-MW5s	8/17/2018	10:49	7.38	89.06	<|0.05|	0
NUN-MW5s	9/12/2018	10:03	7.63	88.81	<|0.05|	0
NUN-MW5s	10/25/2018	13:39	7.43	89.01	<|0.05|	0
NUN-MW5s	11/13/2018	13:09	7.65	88.79	<|0.05|	0
NUN-MW5s	12/14/2018	13:21	7.65	88.79	<|0.05|	0
NUN-MW5s	1/24/2019	14:08	7.42	89.02	<|0.05|	0
NUN-MW5s	2/28/2019	7:55	7.07	89.37	-0.14	-0.01
NUN-MW5s	3/17/2019	13:31	7.40	89.04	<|0.05|	0
NUN-MW5s	4/15/2019	9:51	7.65	88.79	<|0.05|	0
NUN-MW5s	5/21/2019	14:24	7.42	89.02	<|0.05|	0
NUN-MW5s	6/20/2019	10:00	7.65	88.79	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
NUN-MW5s	7/17/2019	8:44	7.22	89.22	<|0.05|	0
NUN-MW5s	8/14/2019	13:33	7.20	89.24	<|0.05|	0
NUN-MW5s	9/26/2019	10:06	7.45	88.99	<|0.05|	0
NUN-MW5s	10/24/2019	14:04	7.68	88.76	<|0.05|	0
NUN-MW5s	11/14/2019	8:48	7.80	88.64	<|0.05|	0
NUN-MW5s	12/13/2019	10:26	6.82	89.62	<|0.05|	0
NUN-MW5d	11/7/2014	11:10	9.97	86.58		
NUN-MW5d	12/15/2014	11:38	4.94	91.61		
NUN-MW5d	1/13/2015	11:12	5.62	90.93		
NUN-MW5d	2/5/2015	8:11	6.36	90.19		
NUN-MW5d	3/13/2015	9:34	5.79	90.76		
NUN-MW5d	4/17/2015	8:33	5.80	90.75		
NUN-MW5d	5/12/2015	8:49	6.03	90.52		
NUN-MW5d	6/4/2015	9:24	6.37	90.18		
NUN-MW5d	7/20/2015	12:29	5.67	90.88		
NUN-MW5d	8/13/2015	15:41	5.74	90.81		
NUN-MW5d	9/14/2015	16:52	6.11	90.44		
NUN-MW5d	10/16/2015	16:15	6.16	90.39		
NUN-MW5d	11/13/2015	8:50	5.61	90.94		
NUN-MW5d	12/31/2015	11:48	5.90	90.65		
NUN-MW5d	1/16/2016	16:52	6.03	90.52		
NUN-MW5d	2/26/2016	10:46	5.29	91.26		
NUN-MW5d	3/19/2016	10:31	4.88	91.67		
NUN-MW5d	4/18/2016	14:41	6.85	89.70		
NUN-MW5d	5/16/2016	15:44	7.38	89.17		
NUN-MW5d	6/17/2016	10:13	7.73	88.82		
NUN-MW5d	7/22/2016	10:23	7.70	88.85		
NUN-MW5d	8/16/2016	12:49	7.72	88.83		
NUN-MW5d	9/16/2016	14:45	7.83	88.72		
NUN-MW5d	10/14/2016	15:06	7.97	88.58		
NUN-MW5d	11/21/2016	15:49	7.89	88.66		
NUN-MW5d	12/13/2016	15:08	8.18	88.37		
NUN-MW5d	1/26/2017	12:35	7.10	89.45		
NUN-MW5d	2/1/2017		N/M			
NUN-MW5d	3/13/2017	16:25	7.09	89.46		
NUN-MW5d	4/21/2017	12:18	8.04	88.51		
NUN-MW5d	5/17/2017	8:18	7.92	88.63		
NUN-MW5d	6/23/2017	8:50	8.01	88.54		
NUN-MW5d	7/14/2017	8:52	7.73	88.82		
NUN-MW5d	8/22/2017	13:25	7.35	89.20		
NUN-MW5d	9/23/2017	12:41	7.96	88.59		
NUN-MW5d	10/20/2017	13:12	8.12	88.43		
NUN-MW5d	11/14/2017	14:00	7.92	88.63		
NUN-MW5d	12/31/2017	10:15	8.12	88.43		
NUN-MW5d	1/22/2018	12:53	8.00	88.55		
NUN-MW5d	2/23/2018	9:14	7.66	88.89		
NUN-MW5d	3/1/2018		N/M			
NUN-MW5d	4/25/2018	13:24	7.78	88.77		
NUN-MW5d	5/16/2018	12:56	7.44	89.11		
NUN-MW5d	6/14/2018	13:10	7.63	88.92		
NUN-MW5d	7/17/2018	13:14	7.76	88.79		
NUN-MW5d	8/17/2018	10:49	7.47	89.08		
NUN-MW5d	9/12/2018	10:03	7.78	88.77		
NUN-MW5d	10/25/2018	13:39	7.58	88.97		
NUN-MW5d	11/13/2018	13:10	7.80	88.75		
NUN-MW5d	12/14/2018	13:22	7.77	88.78		
NUN-MW5d	1/24/2019	14:09	7.54	89.01		
NUN-MW5d	2/28/2019	7:55	7.04	89.51		
NUN-MW5d	3/17/2019	13:32	7.51	89.04		
NUN-MW5d	4/15/2019	9:51	7.78	88.77		
NUN-MW5d	5/21/2019	14:24	7.52	89.03		
NUN-MW5d	6/20/2019	10:00	7.72	88.83		
NUN-MW5d	7/17/2019	8:44	7.38	89.17		
NUN-MW5d	8/14/2019	13:33	7.30	89.25		
NUN-MW5d	9/26/2019	10:06	7.60	88.95		
NUN-MW5d	10/24/2019	14:04	7.79	88.76		
NUN-MW5d	11/14/2019	8:48	7.95	88.60		
NUN-MW5d	12/13/2019	10:26	6.95	89.60		
MOO-MW1	1/30/2012	9:06	13.15	60.81		
MOO-MW1	2/26/2012	13:42	13.15	60.81		
MOO-MW1	3/5/2012	14:47	13.28	60.68		
MOO-MW1	4/5/2012	15:03	14.03	59.93		
MOO-MW1	5/11/2012	11:16	14.70	59.26		
MOO-MW1	6/18/2012	10:32	14.79	59.17		
MOO-MW1	7/9/2012	10:56	14.09	59.87		
MOO-MW1	8/14/2012	12:28	13.18	60.78		
MOO-MW1	9/17/2012	11:51	13.13	60.83		
MOO-MW1	10/19/2012	11:45	14.35	59.61		
MOO-MW1	12/10/2012	9:48	14.85	59.11		
MOO-MW1	12/28/2012	11:04	14.87	59.09		
MOO-MW1	1/15/2013	15:02	15.27	58.69		
MOO-MW1	2/16/2013	15:46	15.73	58.23		
MOO-MW1	3/19/2013	10:37	14.54	59.42		
MOO-MW1	4/16/2013	11:12	14.43	59.53		
MOO-MW1	5/29/2013	8:18	13.63	60.33		
MOO-MW1	6/18/2013	8:33	14.53	59.43		
MOO-MW1	7/15/2013	16:27	14.15	59.81		
MOO-MW1	8/22/2013	17:34	12.66	61.30		
MOO-MW1	9/9/2013	14:01	11.94	62.02		
MOO-MW1	10/7/2013	14:07	13.10	60.86		
MOO-MW1	11/13/2013	15:41	14.74	59.22		
MOO-MW1	12/17/2013	13:25	15.69	58.27		
MOO-MW1	1/13/2014	13:01	16.14	57.82		
MOO-MW1	2/18/2014	16:37	16.74	57.22		
MOO-MW1	3/16/2014	13:16	16.90	57.06		
MOO-MW1	4/20/2014	11:21	16.40	57.56		
MOO-MW1	5/20/2014	16:41	16.50	57.46		
MOO-MW1	6/19/2014	12:43	16.65	57.31		
MOO-MW1	7/17/2014	16:45	16.10	57.86		
MOO-MW1	8/20/2014	15:27	14.80	59.16		
MOO-MW1	9/19/2014	16:23	14.24	59.72		
MOO-MW1	10/14/2014	13:50	15.30	58.66		
MOO-MW1	11/6/2014	13:00	16.16	57.80		
MOO-MW1	12/14/2014	14:53	16.54	57.42		
MOO-MW1	1/12/2015	15:58	16.49	57.47		
MOO-MW1	2/6/2015	11:32	16.47	57.49		
MOO-MW1	3/13/2015	13:48	15.64	58.32		
MOO-MW1	4/17/2015	11:47	15.94	58.02		
MOO-MW1	5/12/2015	16:29	15.60	58.36		
MOO-MW1	6/4/2015	17:17	16.50	57.46		
MOO-MW1	7/20/2015	17:07	14.54	59.42		
MOO-MW1	8/24/2015	9:31	13.82	60.14		
MOO-MW1	9/14/2015	11:51	14.73	59.23		
MOO-MW1	10/16/2015	12:22	16.17	57.79		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MOO-MW1	11/12/2015	11:56	16.91	57.05		
MOO-MW1	12/26/2015	12:08	18.00	55.96		
MOO-MW1	1/16/2016	9:36	18.31	55.65		
MOO-MW1	2/25/2016	8:24	18.77	55.19		
MOO-MW1	3/18/2016	13:33	19.14	54.82		
MOO-MW1	4/18/2016	14:00	19.29	54.67		
MOO-MW1	5/18/2016	7:56	19.17	54.79		
MOO-MW1	6/17/2016	13:54	18.55	55.41		
MOO-MW1	7/21/2016	13:26	17.23	56.73		
MOO-MW1	8/17/2016	9:36	16.29	57.67		
MOO-MW1	9/15/2016	17:14	16.05	57.91		
MOO-MW1	10/14/2016	13:44	16.59	57.37		
MOO-MW1	11/30/2016	14:21	17.30	56.66		
MOO-MW1	12/13/2016	9:09	17.61	56.35		
MOO-MW1	1/26/2017	8:58	17.62	56.34		
MOO-MW1	2/1/2017		N/M			
MOO-MW1	3/16/2017	9:29	14.48	59.48		
MOO-MW1	4/20/2017	16:23	13.30	60.66		
MOO-MW1	5/18/2017	7:54	12.59	61.37		
MOO-MW1	6/24/2017	13:09	12.37	61.59		
MOO-MW1	7/14/2017	13:34	11.41	62.55		
MOO-MW1	8/29/2017	11:16	11.14	62.82		
MOO-MW1	9/23/2017	15:56	12.02	61.94		
MOO-MW1	10/20/2017	10:09	13.39	60.57		
MOO-MW1	11/21/2017	12:53	14.28	59.68		
MOO-MW1	12/31/2017	10:27	14.98	58.98		
MOO-MW1	1/22/2018	16:43	15.27	58.69		
MOO-MW1	2/20/2018	16:32	15.81	58.15		
MOO-MW1	3/1/2018		N/M			
MOO-MW1	4/24/2018	11:52	15.30	58.66		
MOO-MW1	5/15/2018	9:07	15.35	58.61		
MOO-MW1	6/14/2018	15:53	14.51	59.45		
MOO-MW1	7/17/2018	9:40	14.75	59.21		
MOO-MW1	8/20/2018	14:49	13.32	60.64		
MOO-MW1	9/16/2018	19:23	12.45	61.51		
MOO-MW1	10/25/2018	15:18	14.24	59.72		
MOO-MW1	11/13/2018	13:20	15.05	58.91		
MOO-MW1	12/14/2018	16:37	15.40	58.56		
MOO-MW1	1/25/2019	12:40	15.74	58.22		
MOO-MW1	2/26/2019	8:07	15.32	58.64		
MOO-MW1	3/17/2019	16:39	14.68	59.28		
MOO-MW1	4/16/2019	10:21	14.01	59.95		
MOO-MW1	5/23/2019	11:42	13.68	60.28		
MOO-MW1	6/20/2019	16:51	12.61	61.35		
MOO-MW1	7/18/2019	10:20	12.34	61.62		
MOO-MW1	8/15/2019	7:21	12.13	61.83		
MOO-MW1	9/26/2019	13:44	12.50	61.46		
MOO-MW1	10/28/2019	11:00	13.65	60.31		
MOO-MW1	11/13/2019	10:25	13.98	59.98		
MOO-MW1	12/14/2019	14:02	14.36	59.60		
MOO-MW2	1/30/2012	9:12	18.68	56.90		
MOO-MW2	2/26/2012	14:39	17.90	57.68		
MOO-MW2	3/5/2012	14:49	18.30	57.28		
MOO-MW2	4/5/2012	15:14	19.40	56.18		
MOO-MW2	5/11/2012	11:35	20.28	55.30		
MOO-MW2	6/18/2012	10:30	20.58	55.00		
MOO-MW2	7/9/2012	10:54	20.14	55.44		
MOO-MW2	8/14/2012	12:20	19.73	55.85		
MOO-MW2	9/17/2012	11:48	19.02	56.56		
MOO-MW2	10/19/2012	11:56	20.42	55.16		
MOO-MW2	12/10/2012	9:50	21.51	54.07		
MOO-MW2	12/28/2012	11:00	21.23	54.35		
MOO-MW2	1/15/2013	14:58	21.27	54.31		
MOO-MW2	2/16/2013	15:43	21.19	54.39		
MOO-MW2	3/19/2013	10:41	20.45	55.13		
MOO-MW2	4/16/2013	11:10	19.93	55.65		
MOO-MW2	5/29/2013	8:24	18.96	56.62		
MOO-MW2	6/18/2013	8:35	20.14	55.44		
MOO-MW2	7/15/2013	16:31	20.06	55.52		
MOO-MW2	8/22/2013	17:29	18.73	56.85		
MOO-MW2	9/9/2013	13:57	17.82	57.76		
MOO-MW2	10/7/2013	14:03	18.89	56.69		
MOO-MW2	11/13/2013	15:37	20.75	54.83		
MOO-MW2	12/17/2013	13:23	21.75	53.83		
MOO-MW2	1/13/2014	12:58	22.23	53.35		
MOO-MW2	2/18/2014	16:33	22.64	52.94		
MOO-MW2	3/16/2014	13:12	23.00	52.58		
MOO-MW2	4/20/2014	11:18	22.70	52.88		
MOO-MW2	5/20/2014	16:36	22.92	52.66		
MOO-MW2	6/19/2014	12:55	22.64	52.94		
MOO-MW2	7/17/2014	16:48	22.71	52.87		
MOO-MW2	8/20/2014	15:24	22.19	53.39		
MOO-MW2	9/19/2014	16:27	21.48	54.10		
MOO-MW2	10/14/2014	13:47	21.77	53.81		
MOO-MW2	11/6/2014	12:54	22.50	53.08		
MOO-MW2	12/14/2014	14:49	22.91	52.67		
MOO-MW2	1/12/2015	15:51	22.59	52.99		
MOO-MW2	2/6/2015	11:35	22.63	52.95		
MOO-MW2	3/13/2015	13:44	22.20	53.38		
MOO-MW2	4/17/2015	11:44	21.93	53.65		
MOO-MW2	5/12/2015	16:26	21.75	53.83		
MOO-MW2	6/4/2015	17:13	22.50	53.08		
MOO-MW2	7/20/2015	17:03	22.95	52.63		
MOO-MW2	8/24/2015	9:59	20.66	54.92		
MOO-MW2	9/14/2015	11:55	21.12	54.46		
MOO-MW2	10/16/2015	11:53	22.57	53.01		
MOO-MW2	11/12/2015	12:14	23.20	52.38		
MOO-MW2	12/26/2015	11:51	23.89	51.69		
MOO-MW2	1/16/2016	9:14	24.14	51.44		
MOO-MW2	2/25/2016	8:10	24.14	51.44		
MOO-MW2	3/18/2016	13:28	24.30	51.28		
MOO-MW2	4/18/2016	13:56	24.31	51.27		
MOO-MW2	5/18/2016	8:00	24.42	51.16		
MOO-MW2	6/17/2016	14:18	24.15	51.43		
MOO-MW2	7/21/2016	13:22	22.42	53.16		
MOO-MW2	8/17/2016	9:40	21.22	54.36		
MOO-MW2	9/15/2016	17:30	20.80	54.78		
MOO-MW2	10/14/2016	13:40	21.84	53.74		
MOO-MW2	11/30/2016	14:39	22.48	53.10		
MOO-MW2	12/13/2016	9:24	22.75	52.83		
MOO-MW2	1/26/2017	8:41	21.65	53.93		
MOO-MW2	2/1/2017		N/M			
MOO-MW2	3/16/2017	9:26	16.58	59.00		
MOO-MW2	4/20/2017	16:21	15.62	59.96		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MOO-MW2	5/18/2017	7:52	15.02	60.56		
MOO-MW2	6/24/2017	12:53	15.36	60.22		
MOO-MW2	7/14/2017	13:49	14.12	61.46		
MOO-MW2	8/29/2017	11:25	14.55	61.03		
MOO-MW2	9/23/2017	15:53	16.01	59.57		
MOO-MW2	10/20/2017	10:12	17.82	57.76		
MOO-MW2	11/21/2017	12:51	18.81	56.77		
MOO-MW2	12/31/2017	10:31	19.25	56.33		
MOO-MW2	1/22/2018	16:40	19.16	56.42		
MOO-MW2	2/20/2018	16:39	20.25	55.33		
MOO-MW2	3/1/2018		N/M			
MOO-MW2	4/24/2018	11:44	N/M			
MOO-MW2	5/15/2018	8:32	19.31	56.27		
MOO-MW2	6/14/2018	16:00	18.52	57.06		
MOO-MW2	7/17/2018	9:43	18.83	56.75		
MOO-MW2	8/20/2018	14:47	17.16	58.42		
MOO-MW2	9/16/2018	19:21	15.86	59.72		
MOO-MW2	10/25/2018	15:22	19.00	56.58		
MOO-MW2	11/13/2018	13:17	19.75	55.83		
MOO-MW2	12/14/2018	16:35	19.95	55.63		
MOO-MW2	1/25/2019	12:44	20.40	55.18		
MOO-MW2	2/26/2019	8:03	19.74	55.84		
MOO-MW2	3/17/2019	16:37	18.40	57.18		
MOO-MW2	4/16/2019	10:24	18.23	57.35		
MOO-MW2	5/23/2019	11:47	18.20	57.38		
MOO-MW2	6/20/2019	16:53	16.51	59.07		
MOO-MW2	7/18/2019	10:23	16.60	58.98		
MOO-MW2	8/15/2019	7:25	17.40	58.18		
MOO-MW2	9/26/2019	13:48	17.83	57.75		
MOO-MW2	10/28/2019	11:15	18.94	56.64		
MOO-MW2	11/13/2019	10:29	19.14	56.44		
MOO-MW2	12/14/2019	14:04	19.58	56.00		
MOO-MW3	1/30/2012	8:36	11.77	65.12		
MOO-MW3	2/26/2012	15:43	12.02	64.87		
MOO-MW3	3/5/2012	14:56	12.14	64.75		
MOO-MW3	4/5/2012	14:48	12.67	64.22		
MOO-MW3	5/11/2012	11:55	13.02	63.87		
MOO-MW3	6/18/2012	10:25	12.85	64.04		
MOO-MW3	7/9/2012	10:46	12.04	64.85		
MOO-MW3	8/14/2012	12:11	11.06	65.83		
MOO-MW3	9/17/2012	11:45	11.19	65.70		
MOO-MW3	10/19/2012	11:40	12.40	64.49		
MOO-MW3	12/10/2012	9:58	13.52	63.37		
MOO-MW3	12/28/2012	10:52	13.81	63.08		
MOO-MW3	1/15/2013	14:50	14.00	62.89		
MOO-MW3	2/16/2013	15:52	14.65	62.24		
MOO-MW3	3/19/2013	10:45	13.79	63.10		
MOO-MW3	4/16/2013	10:58	13.17	63.72		
MOO-MW3	5/29/2013	8:30	12.50	64.39		
MOO-MW3	6/18/2013	8:45	13.10	63.79		
MOO-MW3	7/15/2013	16:38	12.59	64.30		
MOO-MW3	8/22/2013	17:22	9.93	66.96		
MOO-MW3	9/9/2013	13:49	9.88	67.01		
MOO-MW3	10/7/2013	13:53	11.50	65.39		
MOO-MW3	11/13/2013	15:29	13.05	63.84		
MOO-MW3	12/17/2013	13:13	15.27	61.62		
MOO-MW3	1/13/2014	12:50	17.89	59.00		
MOO-MW3	2/18/2014	16:26	15.55	61.34		
MOO-MW3	3/16/2014	13:06	15.35	61.54		
MOO-MW3	4/20/2014	11:12	15.11	61.78		
MOO-MW3	5/20/2014	16:28	14.84	62.05		
MOO-MW3	6/19/2014	12:33	15.63	61.26		
MOO-MW3	7/17/2014	16:55	14.00	62.89		
MOO-MW3	8/20/2014	15:14	12.91	63.98		
MOO-MW3	9/19/2014	16:33	12.28	64.61		
MOO-MW3	10/14/2014	13:40	13.54	63.35		
MOO-MW3	11/6/2014	12:40	14.64	62.25		
MOO-MW3	12/14/2014	14:42	15.69	61.20		
MOO-MW3	1/12/2015	15:43	15.06	61.83		
MOO-MW3	2/6/2015	11:43	14.85	62.04		
MOO-MW3	3/13/2015	13:37	14.40	62.49		
MOO-MW3	4/17/2015	11:38	13.92	62.97		
MOO-MW3	5/12/2015	16:18	14.41	62.48		
MOO-MW3	6/4/2015	17:07	15.11	61.78		
MOO-MW3	7/20/2015	17:18	12.45	64.44		
MOO-MW3	8/24/2015	9:23	11.61	65.28		
MOO-MW3	9/14/2015	12:05	12.71	64.18		
MOO-MW3	10/16/2015	12:05	14.37	62.52		
MOO-MW3	11/12/2015	11:52	15.64	61.25		
MOO-MW3	12/26/2015	12:12	17.21	59.68		
MOO-MW3	1/16/2016	9:44	17.83	59.06		
MOO-MW3	2/25/2016	8:26	18.67	58.22		
MOO-MW3	3/18/2016	13:20	19.01	57.88		
MOO-MW3	4/18/2016	13:48	19.43	57.46		
MOO-MW3	5/18/2016	8:08	19.25	57.64		
MOO-MW3	6/17/2016	13:50	18.45	58.44		
MOO-MW3	7/21/2016	13:11	16.67	60.22		
MOO-MW3	8/17/2016	9:51	15.86	61.03		
MOO-MW3	9/15/2016	17:11	15.69	61.20		
MOO-MW3	10/14/2016	13:33	15.66	61.23		
MOO-MW3	11/30/2016	14:18	16.63	60.26		
MOO-MW3	12/13/2016	9:12	17.05	59.84		
MOO-MW3	1/26/2017	9:01	17.88	59.01		
MOO-MW3	2/1/2017		N/M			
MOO-MW3	3/16/2017	9:22	16.40	60.49		
MOO-MW3	4/20/2017	16:14	15.30	61.59		
MOO-MW3	5/18/2017	7:49	14.53	62.36		
MOO-MW3	6/24/2017	13:12	13.51	63.38		
MOO-MW3	7/14/2017	13:38	12.88	64.01		
MOO-MW3	8/29/2017	11:19	12.19	64.70		
MOO-MW3	9/23/2017	15:47	12.31	64.58		
MOO-MW3	10/20/2017	10:06	13.14	63.75		
MOO-MW3	11/21/2017	12:44	13.91	62.98		
MOO-MW3	12/31/2017	10:39	14.68	62.21		
MOO-MW3	1/22/2018	16:36	15.10	61.79		
MOO-MW3	2/20/2018	16:29	15.67	61.22		
MOO-MW3	3/1/2018		N/M			
MOO-MW3	4/24/2018	11:35	15.79	61.10		
MOO-MW3	5/15/2018	8:25	15.47	61.42		
MOO-MW3	6/14/2018	16:10	14.65	62.24		
MOO-MW3	7/17/2018	9:50	13.98	62.91		
MOO-MW3	8/20/2018	14:44	12.50	64.39		
MOO-MW3	9/16/2018	19:15	12.37	64.52		
MOO-MW3	10/25/2018	15:31	13.45	63.44		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MOO-MW3	11/13/2018	13:09	13.93	62.96		
MOO-MW3	12/14/2018	16:32	14.22	62.67		
MOO-MW3	1/25/2019	12:50	14.80	62.09		
MOO-MW3	2/26/2019	7:49	14.54	62.35		
MOO-MW3	3/17/2019	16:30	14.58	62.31		
MOO-MW3	4/16/2019	10:28	13.94	62.95		
MOO-MW3	5/23/2019	11:53	12.79	64.10		
MOO-MW3	6/20/2019	17:00	12.16	64.73		
MOO-MW3	7/18/2019	10:27	10.62	66.27		
MOO-MW3	8/15/2019	7:31	10.69	66.20		
MOO-MW3	9/26/2019	13:52	11.08	65.81		
MOO-MW3	10/28/2019	11:23	12.25	64.64		
MOO-MW3	11/13/2019	10:37	12.54	64.35		
MOO-MW3	12/14/2019	14:11	12.65	64.24		
MOO-MW4	1/30/2012	8:56	12.32	65.88		
MOO-MW4	2/26/2012	16:36	12.57	65.63		
MOO-MW4	3/5/2012	15:00	12.45	65.75		
MOO-MW4	4/5/2012	14:31	12.91	65.29		
MOO-MW4	5/11/2012	12:36	12.55	65.65		
MOO-MW4	6/18/2012	10:20	12.90	65.30		
MOO-MW4	7/9/2012	10:40	11.93	66.27		
MOO-MW4	8/14/2012	12:01	11.37	66.83		
MOO-MW4	9/17/2012	11:40	12.20	66.00		
MOO-MW4	10/19/2012	11:28	12.92	65.28		
MOO-MW4	12/10/2012	9:55	14.29	63.91		
MOO-MW4	12/28/2012	11:25	14.18	64.02		
MOO-MW4	1/15/2013	15:20	14.53	63.67		
MOO-MW4	2/16/2013	15:29	15.19	63.01		
MOO-MW4	3/19/2013	10:47	14.16	64.04		
MOO-MW4	4/16/2013	10:54	14.13	64.07		
MOO-MW4	5/29/2013	8:43	13.82	64.38		
MOO-MW4	6/18/2013	8:50	14.35	63.85		
MOO-MW4	7/15/2013	16:42	13.40	64.80		
MOO-MW4	8/22/2013	17:14	10.10	68.10		
MOO-MW4	9/9/2013	13:45	11.32	66.88		
MOO-MW4	10/7/2013	13:47	12.88	65.32		
MOO-MW4	11/13/2013	15:23	14.23	63.97		
MOO-MW4	12/17/2013	13:09	15.28	62.92		
MOO-MW4	1/13/2014	12:45	15.84	62.36		
MOO-MW4	2/18/2014	16:23	16.36	61.84		
MOO-MW4	3/16/2014	13:02	16.63	61.57		
MOO-MW4	4/20/2014	11:09	16.13	62.07		
MOO-MW4	5/20/2014	16:24	15.49	62.71		
MOO-MW4	6/19/2014	12:28	16.71	61.49		
MOO-MW4	7/17/2014	16:59	13.76	64.44		
MOO-MW4	8/20/2014	15:10	13.65	64.55		
MOO-MW4	9/19/2014	16:37	13.65	64.55		
MOO-MW4	10/14/2014	13:36	15.30	62.90		
MOO-MW4	11/6/2014	12:35	16.14	62.06		
MOO-MW4	12/14/2014	14:37	12.83	65.37		
MOO-MW4	1/12/2015	15:39	14.43	63.77		
MOO-MW4	2/6/2015	11:48	14.50	63.70		
MOO-MW4	3/13/2015	13:31	14.83	63.37		
MOO-MW4	4/17/2015	11:31	14.01	64.19		
MOO-MW4	5/12/2015	16:14	15.32	62.88		
MOO-MW4	6/4/2015	17:00	16.08	62.12		
MOO-MW4	7/20/2015	17:29	11.75	66.45		
MOO-MW4	8/24/2015	10:12	12.78	65.42		
MOO-MW4	9/14/2015	12:10	14.45	63.75		
MOO-MW4	10/16/2015	12:10	15.99	62.21		
MOO-MW4	11/12/2015	12:29	16.98	61.22		
MOO-MW4	12/26/2015	11:40	18.48	59.72		
MOO-MW4	1/16/2016	8:55	19.04	59.16		
MOO-MW4	2/25/2016	8:04	19.65	58.55		
MOO-MW4	3/18/2016	13:15	19.62	58.58		
MOO-MW4	4/18/2016	13:43	20.13	58.07		
MOO-MW4	5/18/2016	8:13	18.74	59.46		
MOO-MW4	6/17/2016	13:44	16.50	61.70		
MOO-MW4	7/21/2016	13:05	16.17	62.03		
MOO-MW4	8/17/2016	9:56	16.89	61.31		
MOO-MW4	9/15/2016	17:07	17.37	60.83		
MOO-MW4	10/14/2016	13:27	17.50	60.70		
MOO-MW4	11/30/2016	14:45	18.23	59.97		
MOO-MW4	12/13/2016	9:16	18.60	59.60		
MOO-MW4	1/26/2017	8:33	18.15	60.05		
MOO-MW4	2/1/2017		N/M			
MOO-MW4	3/16/2017	9:16	16.78	61.42		
MOO-MW4	4/20/2017	16:10	16.52	61.68		
MOO-MW4	5/18/2017	7:41	14.11	64.09		
MOO-MW4	6/24/2017	12:45	12.33	65.87		
MOO-MW4	7/14/2017	13:41	11.53	66.67		
MOO-MW4	8/29/2017	11:30	13.82	64.38		
MOO-MW4	9/23/2017	15:44	14.26	63.94		
MOO-MW4	10/20/2017	9:59	14.86	63.34		
MOO-MW4	11/21/2017	12:41	15.25	62.95		
MOO-MW4	12/31/2017	10:44	15.64	62.56		
MOO-MW4	1/22/2018	16:30	16.03	62.17		
MOO-MW4	2/20/2018	16:22	16.52	61.68		
MOO-MW4	3/1/2018		N/M			
MOO-MW4	4/24/2018	11:30	16.41	61.79		
MOO-MW4	5/15/2018	8:20	14.95	63.25		
MOO-MW4	6/14/2018	16:15	14.05	64.15		
MOO-MW4	7/17/2018	9:53	12.08	66.12		
MOO-MW4	8/20/2018	14:38	11.39	66.81		
MOO-MW4	9/16/2018	19:12	12.83	65.37		
MOO-MW4	10/25/2018	15:36	14.03	64.17		
MOO-MW4	11/13/2018	13:04	14.37	63.83		
MOO-MW4	12/14/2018	16:25	14.55	63.65		
MOO-MW4	1/25/2019	12:53	14.70	63.50		
MOO-MW4	2/26/2019	7:44	14.45	63.75		
MOO-MW4	3/17/2019	16:27	14.65	63.55		
MOO-MW4	4/16/2019	10:35	13.18	65.02		
MOO-MW4	5/23/2019	11:57	10.52	67.68		
MOO-MW4	6/20/2019	17:04	10.62	67.58		
MOO-MW4	7/18/2019	10:33	9.00	69.20		
MOO-MW4	8/15/2019	7:36	10.28	67.92		
MOO-MW4	9/26/2019	14:02	12.00	66.20		
MOO-MW4	10/28/2019	11:34	13.07	65.13		
MOO-MW4	11/13/2019	10:42	13.43	64.77		
MOO-MW4	12/14/2019	14:14	12.95	65.25		
MOO-MW5s	1/30/2012	8:45	12.11	64.93	1.53	0.07
MOO-MW5s	2/26/2012	14:06	11.96	65.08	1.59	0.08
MOO-MW5s	3/5/2012	14:53	12.53	64.51	1.66	0.08
MOO-MW5s	4/5/2012	14:56	13.10	63.94	1.63	0.08

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MOO-MW5s	5/11/2012	12:19	13.48	63.56	<|0.05|	0
MOO-MW5s	6/18/2012	10:24	13.36	63.68	2.02	0.10
MOO-MW5s	7/9/2012	10:44	12.95	64.09	3.66	0.18
MOO-MW5s	8/14/2012	12:14	12.10	64.94	4.39	0.21
MOO-MW5s	9/17/2012	11:43	11.60	65.44	3.91	0.19
MOO-MW5s	10/19/2012	11:33	12.70	64.34	3.25	0.16
MOO-MW5s	12/10/2012	10:00	14.03	63.01	2.36	0.12
MOO-MW5s	12/28/2012	10:55	14.30	62.74	2.13	0.10
MOO-MW5s	1/15/2013	14:54	14.46	62.58	1.98	0.10
MOO-MW5s	2/16/2013	15:54	15.01	62.03	1.90	0.09
MOO-MW5s	3/19/2013	10:30	14.44	62.60	2.57	0.13
MOO-MW5s	4/16/2013	11:05	13.79	63.25	2.56	0.12
MOO-MW5s	5/29/2013	8:36	13.02	64.02	3.75	0.18
MOO-MW5s	6/18/2013	8:40	13.53	63.51	3.48	0.17
MOO-MW5s	7/15/2013	16:34	13.12	63.92	4.54	0.22
MOO-MW5s	8/22/2013	17:25	11.35	65.69	5.21	0.25
MOO-MW5s	9/9/2013	13:53	10.60	66.44	7.90	0.39
MOO-MW5s	10/7/2013	13:57	11.81	65.23	4.82	0.24
MOO-MW5s	11/13/2013	15:33	13.30	63.74	4.18	0.20
MOO-MW5s	12/17/2013	13:16	14.55	62.49	3.76	0.18
MOO-MW5s	1/13/2014	12:55	14.24	62.80	4.47	0.22
MOO-MW5s	2/18/2014	16:29	15.84	61.20	4.09	0.20
MOO-MW5s	3/16/2014	13:09	15.90	61.14	3.78	0.18
MOO-MW5s	4/20/2014	11:15	15.88	61.16	6.93	0.34
MOO-MW5s	5/20/2014	16:32	15.75	61.29	4.64	0.23
MOO-MW5s	6/19/2014	12:36	15.59	61.45	5.90	0.29
MOO-MW5s	7/17/2014	16:53	15.40	61.64	8.46	0.41
MOO-MW5s	8/20/2014	15:18	13.69	63.35	9.31	0.45
MOO-MW5s	9/19/2014	16:31	12.80	64.24	8.46	0.41
MOO-MW5s	10/14/2014	13:43	13.86	63.18	6.28	0.31
MOO-MW5s	11/6/2014	12:43	14.94	62.10	5.42	0.26
MOO-MW5s	12/14/2014	14:46	16.11	60.93	4.45	0.22
MOO-MW5s	1/12/2015	15:46	15.50	61.54	4.15	0.20
MOO-MW5s	2/6/2015	11:39	15.54	61.50	5.07	0.25
MOO-MW5s	3/13/2015	13:40	15.31	61.73	4.84	0.24
MOO-MW5s	4/17/2015	11:40	15.21	61.83	6.38	0.31
MOO-MW5s	5/12/2015	16:21	15.24	61.80	5.79	0.28
MOO-MW5s	6/4/2015	17:04	15.48	61.56	6.76	0.33
MOO-MW5s	7/20/2015	17:22	13.26	63.78	8.22	0.40
MOO-MW5s	8/24/2015	10:04	12.40	64.64	9.23	0.45
MOO-MW5s	9/14/2015	12:02	13.05	63.99	8.18	0.40
MOO-MW5s	10/16/2015	12:01	14.58	62.46	7.13	0.35
MOO-MW5s	11/12/2015	12:19	15.81	61.23	5.72	0.28
MOO-MW5s	12/26/2015	11:44	17.37	59.67	4.62	0.23
MOO-MW5s	1/16/2016	9:59	18.02	59.02	4.02	0.20
MOO-MW5s	2/25/2016	8:08	18.85	58.19	3.36	0.16
MOO-MW5s	3/18/2016	13:23	19.30	57.74	-0.07	-0.00
MOO-MW5s	4/18/2016	13:51	19.67	57.37	2.57	0.13
MOO-MW5s	5/18/2016	8:05	19.83	57.21	3.76	0.18
MOO-MW5s	6/17/2016	14:23	18.87	58.17	2.66	0.13
MOO-MW5s	7/21/2016	13:16	17.18	59.86	4.85	0.24
MOO-MW5s	8/17/2016	9:44	16.30	60.74	5.07	0.25
MOO-MW5s	9/15/2016	17:33	15.95	61.09	5.05	0.25
MOO-MW5s	10/14/2016	13:37	16.01	61.03	4.85	0.24
MOO-MW5s	11/30/2016	14:42	16.63	60.41	4.00	0.20
MOO-MW5s	12/13/2016	9:19	17.04	60.00	3.83	0.19
MOO-MW5s	1/26/2017	8:36	17.96	59.08	1.55	0.08
MOO-MW5s	2/1/2017		N/M			
MOO-MW5s	3/16/2017	9:20	16.51	60.53	0.19	0.01
MOO-MW5s	4/20/2017	16:16	15.66	61.38	0.32	0.02
MOO-MW5s	5/18/2017	7:46	15.02	62.02	1.25	0.06
MOO-MW5s	6/24/2017	12:48	13.87	63.17	0.85	0.04
MOO-MW5s	7/14/2017	13:44	13.30	63.74	1.52	0.07
MOO-MW5s	8/29/2017	11:22	12.51	64.53	2.78	0.14
MOO-MW5s	9/23/2017	15:49	12.52	64.52	3.03	0.15
MOO-MW5s	10/20/2017	10:03	13.24	63.80	2.47	0.12
MOO-MW5s	11/21/2017	12:46	13.92	63.12	2.34	0.11
MOO-MW5s	12/31/2017	10:36	14.64	62.40	2.27	0.11
MOO-MW5s	1/22/2018	16:33	15.11	61.93	2.05	0.10
MOO-MW5s	2/20/2018	16:26	15.71	61.33	2.71	0.13
MOO-MW5s	3/1/2018		N/M			
MOO-MW5s	4/24/2018	11:39	15.74	61.30	1.55	0.08
MOO-MW5s	5/15/2018	8:28	15.61	61.43	1.93	0.09
MOO-MW5s	6/14/2018	16:06	14.84	62.20	2.50	0.12
MOO-MW5s	7/17/2018	9:47	14.27	62.77	3.07	0.15
MOO-MW5s	8/20/2018	14:40	13.39	63.65	3.29	0.16
MOO-MW5s	9/16/2018	19:18	12.70	64.34	4.34	0.21
MOO-MW5s	10/25/2018	15:28	13.64	63.40	3.49	0.17
MOO-MW5s	11/13/2018	13:12	14.11	62.93	3.05	0.15
MOO-MW5s	12/14/2018	16:28	14.36	62.68	2.75	0.13
MOO-MW5s	1/25/2019	12:47	14.90	62.14	2.39	0.12
MOO-MW5s	2/26/2019	7:54	14.74	62.30	1.30	0.06
MOO-MW5s	3/17/2019	16:32	14.70	62.34	1.24	0.06
MOO-MW5s	4/16/2019	10:31	14.38	62.66	0.95	0.05
MOO-MW5s	5/23/2019	11:50	13.39	63.65	1.71	0.08
MOO-MW5s	6/20/2019	16:58	12.52	64.52	1.61	0.08
MOO-MW5s	7/18/2019	10:30	11.75	65.29	3.50	0.17
MOO-MW5s	8/15/2019	7:28	11.12	65.92	3.54	0.17
MOO-MW5s	9/26/2019	13:56	11.32	65.72	3.19	0.16
MOO-MW5s	10/28/2019	11:27	12.44	64.60	2.88	0.14
MOO-MW5s	11/13/2019	10:34	12.74	64.30	0.06	0.00
MOO-MW5s	12/14/2019	14:09	12.96	64.08	2.58	0.13
MOO-MW5d	1/30/2012	8:48	13.63	63.40		
MOO-MW5d	2/26/2012	14:07	13.54	63.49		
MOO-MW5d	3/5/2012	14:52	14.18	62.85		
MOO-MW5d	4/5/2012	14:57	14.72	62.31		
MOO-MW5d	5/11/2012	12:20	13.50	63.53		
MOO-MW5d	6/18/2012	10:23	15.37	61.66		
MOO-MW5d	7/9/2012	10:43	16.60	60.43		
MOO-MW5d	8/14/2012	12:15	16.48	60.55		
MOO-MW5d	9/17/2012	11:43	15.50	61.53		
MOO-MW5d	10/19/2012	11:33	15.94	61.09		
MOO-MW5d	12/10/2012	10:00	16.38	60.65		
MOO-MW5d	12/28/2012	10:56	16.42	60.61		
MOO-MW5d	1/15/2013	14:55	16.43	60.60		
MOO-MW5d	2/16/2013	15:55	16.90	60.13		
MOO-MW5d	3/19/2013	10:31	17.00	60.03		
MOO-MW5d	4/16/2013	11:05	16.34	60.69		
MOO-MW5d	5/29/2013	8:36	16.76	60.27		
MOO-MW5d	6/18/2013	8:42	17.00	60.03		
MOO-MW5d	7/15/2013	16:34	17.65	59.38		
MOO-MW5d	8/22/2013	17:25	16.55	60.48		
MOO-MW5d	9/9/2013	13:53	18.49	58.54		
MOO-MW5d	10/7/2013	13:57	16.62	60.41		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MOO-MW5d	11/13/2013	15:33	17.47	59.56		
MOO-MW5d	12/17/2013	13:16	18.30	58.73		
MOO-MW5d	1/13/2014	12:55	18.70	58.33		
MOO-MW5d	2/18/2014	16:29	19.92	57.11		
MOO-MW5d	3/16/2014	13:09	19.67	57.36		
MOO-MW5d	4/20/2014	11:15	22.80	54.23		
MOO-MW5d	5/20/2014	16:32	20.38	56.65		
MOO-MW5d	6/19/2014	12:36	21.48	55.55		
MOO-MW5d	7/17/2014	16:53	23.85	53.18		
MOO-MW5d	8/20/2014	15:18	22.99	54.04		
MOO-MW5d	9/19/2014	16:31	21.25	55.78		
MOO-MW5d	10/14/2014	13:43	20.13	56.90		
MOO-MW5d	11/6/2014	12:43	20.35	56.68		
MOO-MW5d	12/14/2014	14:46	20.55	56.48		
MOO-MW5d	1/12/2015	15:46	19.64	57.39		
MOO-MW5d	2/6/2015	11:39	20.60	56.43		
MOO-MW5d	3/13/2015	13:40	20.14	56.89		
MOO-MW5d	4/17/2015	11:40	21.58	55.45		
MOO-MW5d	5/12/2015	16:21	21.02	56.01		
MOO-MW5d	6/4/2015	17:04	22.23	54.80		
MOO-MW5d	7/20/2015	17:22	21.47	55.56		
MOO-MW5d	8/24/2015	10:09	21.62	55.41		
MOO-MW5d	9/14/2015	12:02	21.22	55.81		
MOO-MW5d	10/16/2015	12:01	21.70	55.33		
MOO-MW5d	11/12/2015	12:20	21.52	55.51		
MOO-MW5d	12/26/2015	11:45	21.98	55.05		
MOO-MW5d	1/16/2016	10:00	22.03	55.00		
MOO-MW5d	2/25/2016	8:07	22.20	54.83		
MOO-MW5d	3/18/2016	13:23	19.22	57.81		
MOO-MW5d	4/18/2016	13:51	22.23	54.80		
MOO-MW5d	5/18/2016	8:05	23.58	53.45		
MOO-MW5d	6/17/2016	14:24	21.52	55.51		
MOO-MW5d	7/21/2016	13:16	22.02	55.01		
MOO-MW5d	8/17/2016	9:44	21.36	55.67		
MOO-MW5d	9/15/2016	17:34	20.99	56.04		
MOO-MW5d	10/14/2016	13:37	20.85	56.18		
MOO-MW5d	11/30/2016	14:13	20.62	56.41		
MOO-MW5d	12/13/2016	9:20	20.86	56.17		
MOO-MW5d	1/26/2017	8:37	19.50	57.53		
MOO-MW5d	2/1/2017		N/M			
MOO-MW5d	3/16/2017	9:20	16.69	60.34		
MOO-MW5d	4/20/2017	16:17	15.97	61.06		
MOO-MW5d	5/18/2017	7:46	16.26	60.77		
MOO-MW5d	6/24/2017	12:49	14.71	62.32		
MOO-MW5d	7/14/2017	13:45	14.81	62.22		
MOO-MW5d	8/29/2017	11:23	15.28	61.75		
MOO-MW5d	9/23/2017	15:50	15.54	61.49		
MOO-MW5d	10/20/2017	10:04	15.70	61.33		
MOO-MW5d	11/21/2017	12:46	16.25	60.78		
MOO-MW5d	12/31/2017	10:36	16.90	60.13		
MOO-MW5d	1/22/2018	16:34	17.15	59.88		
MOO-MW5d	2/20/2018	16:27	18.41	58.62		
MOO-MW5d	3/1/2018		N/M			
MOO-MW5d	4/24/2018	11:40	17.28	59.75		
MOO-MW5d	5/15/2018	8:28	17.53	59.50		
MOO-MW5d	6/14/2018	16:06	17.33	59.70		
MOO-MW5d	7/17/2018	9:48	17.33	59.70		
MOO-MW5d	8/20/2018	14:41	16.67	60.36		
MOO-MW5d	9/16/2018	19:18	17.03	60.00		
MOO-MW5d	10/25/2018	15:28	17.12	59.91		
MOO-MW5d	11/13/2018	13:12	17.15	59.88		
MOO-MW5d	12/14/2018	16:29	17.10	59.93		
MOO-MW5d	1/25/2019	12:48	17.28	59.75		
MOO-MW5d	2/26/2019	7:54	16.03	61.00		
MOO-MW5d	3/17/2019	16:33	15.93	61.10		
MOO-MW5d	4/16/2019	10:31	15.32	61.71		
MOO-MW5d	5/23/2019	11:50	15.09	61.94		
MOO-MW5d	6/20/2019	16:59	14.12	62.91		
MOO-MW5d	7/18/2019	10:30	15.24	61.79		
MOO-MW5d	8/15/2019	7:28	14.65	62.38		
MOO-MW5d	9/26/2019	13:56	14.50	62.53		
MOO-MW5d	10/28/2019	11:28	15.31	61.72		
MOO-MW5d	11/13/2019	10:34	12.79	64.24		
MOO-MW5d	12/14/2019	14:10	15.53	61.50		
MOO-MW6s	1/30/2012	9:24	20.00	51.52	1.95	0.10
MOO-MW6s	2/9/2012	13:03	19.17	52.35	2.80	0.14
MOO-MW6s	3/5/2012	15:03	19.90	51.62	2.23	0.11
MOO-MW6s	4/5/2012	15:22	20.89	50.63	1.72	0.08
MOO-MW6s	5/11/2012	10:58	22.73	48.79	0.35	0.02
MOO-MW6s	6/18/2012	10:36	22.42	49.10	1.86	0.09
MOO-MW6s	7/9/2012	11:01	21.72	49.80	4.08	0.20
MOO-MW6s	8/14/2012	12:33	18.88	52.64	6.92	0.34
MOO-MW6s	9/17/2012	11:55	20.85	50.67	4.09	0.20
MOO-MW6s	10/19/2012	12:12	22.30	49.22	2.41	0.12
MOO-MW6s	12/10/2012	9:45	22.83	48.69	1.15	0.06
MOO-MW6s	12/28/2012	11:09	22.02	49.50	1.61	0.08
MOO-MW6s	1/15/2013	15:05	22.21	49.31	1.18	0.06
MOO-MW6s	2/16/2013	16:03	22.65	48.87	1.18	0.06
MOO-MW6s	3/19/2013	10:25	16.42	55.10	7.80	0.38
MOO-MW6s	4/16/2013	11:19	20.19	51.33	3.98	0.19
MOO-MW6s	5/29/2013	8:10	18.59	52.93	6.49	0.32
MOO-MW6s	6/18/2013	8:28	21.30	50.22	3.52	0.17
MOO-MW6s	7/15/2013	16:23	20.30	51.22	5.85	0.29
MOO-MW6s	8/22/2013	17:33	18.24	53.28	7.64	0.37
MOO-MW6s	9/9/2013	14:04	14.76	56.76	13.50	0.66
MOO-MW6s	10/7/2013	14:13	19.70	51.82	5.12	0.25
MOO-MW6s	11/13/2013	15:49	21.25	50.27	3.89	0.19
MOO-MW6s	12/17/2013	13:32	23.61	47.91	1.99	0.10
MOO-MW6s	1/13/2014	13:04	24.02	47.50	1.73	0.08
MOO-MW6s	2/18/2014	16:39	24.18	47.34	3.48	0.17
MOO-MW6s	3/16/2014	13:19	24.70	46.82	2.13	0.10
MOO-MW6s	4/20/2014	11:24	22.38	49.14	8.49	0.41
MOO-MW6s	5/20/2014	16:44	25.44	46.08	4.71	0.23
MOO-MW6s	6/19/2014	13:01	24.82	46.70	4.46	0.22
MOO-MW6s	7/17/2014	16:42	22.96	48.56	9.62	0.47
MOO-MW6s	8/20/2014	15:31	19.14	52.38	12.96	0.63
MOO-MW6s	9/19/2014	16:20	19.00	52.52	12.10	0.59
MOO-MW6s	10/14/2014	13:54	23.05	48.47	5.06	0.25
MOO-MW6s	11/6/2014	13:03	24.30	47.22	3.48	0.17
MOO-MW6s	12/14/2014	14:56	25.01	46.51	2.13	0.10
MOO-MW6s	1/12/2015	16:01	24.20	47.32	2.09	0.10
MOO-MW6s	2/6/2015	11:29	23.72	47.80	4.79	0.23
MOO-MW6s	3/13/2015	13:50	19.79	51.73	7.89	0.38
MOO-MW6s	4/17/2015	11:54	23.19	48.33	4.82	0.24

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MOO-MW6s	5/12/2015	16:33	22.35	49.17	6.59	0.32
MOO-MW6s	6/4/2015	17:21	24.25	47.27	5.65	0.28
MOO-MW6s	7/20/2015	17:11	17.12	54.40	13.58	0.66
MOO-MW6s	8/24/2015	9:34	18.99	52.53	12.33	0.60
MOO-MW6s	9/14/2015	11:45	22.68	48.84	7.70	0.38
MOO-MW6s	10/16/2015	11:39	24.95	46.57	5.02	0.24
MOO-MW6s	11/12/2015	11:59	25.49	46.03	3.11	0.15
MOO-MW6s	12/26/2015	12:04	25.58	45.94	2.18	0.11
MOO-MW6s	1/16/2016	9:30	25.43	46.09	1.72	0.08
MOO-MW6s	2/25/2016	8:22	24.42	47.10	2.14	0.10
MOO-MW6s	3/18/2016	13:36	24.33	47.19	1.02	0.05
MOO-MW6s	4/18/2016	14:06	23.89	47.63	2.03	0.10
MOO-MW6s	5/18/2016	7:53	22.32	49.20	6.81	0.33
MOO-MW6s	6/17/2016	14:01	23.20	48.32	4.77	0.23
MOO-MW6s	7/21/2016	13:30	19.39	52.13	9.25	0.45
MOO-MW6s	8/17/2016	9:32	18.41	53.11	2.91	0.14
MOO-MW6s	9/15/2016	17:17	21.89	49.63	6.16	0.30
MOO-MW6s	10/14/2016	13:48	23.22	48.30	4.68	0.23
MOO-MW6s	11/30/2016	14:25	23.51	48.01	2.91	0.14
MOO-MW6s	12/13/2016	9:04	23.80	47.72	2.56	0.12
MOO-MW6s	1/26/2017	8:54	22.46	49.06	-2.50	-0.12
MOO-MW6s	2/1/2017		N/M			
MOO-MW6s	3/16/2017	9:31	15.14	56.38	-2.44	-0.12
MOO-MW6s	4/20/2017	16:26	13.26	58.26	0.49	0.02
MOO-MW6s	5/18/2017	7:57	11.73	59.79	6.00	0.29
MOO-MW6s	6/24/2017	13:05	15.15	56.37	0.96	0.05
MOO-MW6s	7/14/2017	13:31	12.22	59.30	5.98	0.29
MOO-MW6s	8/29/2017	11:11	16.02	55.50	5.71	0.28
MOO-MW6s	9/23/2017	15:57	18.84	52.68	3.15	0.15
MOO-MW6s	10/20/2017	10:21	19.73	51.79	1.91	0.09
MOO-MW6s	11/21/2017	12:54	20.22	51.30	2.02	0.10
MOO-MW6s	12/31/2017	10:22	21.02	50.50	1.81	0.09
MOO-MW6s	1/22/2018	16:47	21.32	50.20	1.29	0.06
MOO-MW6s	2/20/2018	16:45	21.66	49.86	2.24	0.11
MOO-MW6s	3/1/2018		N/M			
MOO-MW6s	4/24/2018	11:57	19.70	51.82	1.42	0.07
MOO-MW6s	5/15/2018	8:56	20.08	51.44	2.62	0.13
MOO-MW6s	6/14/2018	15:48	19.99	51.53	3.66	0.18
MOO-MW6s	7/17/2018	9:36	21.81	49.71	2.97	0.14
MOO-MW6s	8/20/2018	14:51	20.07	51.45	4.80	0.23
MOO-MW6s	9/16/2018	19:25	19.36	52.16	5.82	0.28
MOO-MW6s	10/25/2018	15:14	20.76	50.76	3.74	0.18
MOO-MW6s	11/13/2018	13:24	21.61	49.91	2.67	0.13
MOO-MW6s	12/14/2018	16:39	22.20	49.32	1.69	0.08
MOO-MW6s	1/25/2019	12:36	22.42	49.10	1.03	0.05
MOO-MW6s	2/26/2019	8:10	21.05	50.47	-1.86	-0.09
MOO-MW6s	3/17/2019	16:40	19.76	51.76	-0.56	-0.03
MOO-MW6s	4/16/2019	10:16	18.72	52.80	2.03	0.10
MOO-MW6s	5/23/2019	11:39	18.63	52.89	1.17	0.06
MOO-MW6s	6/20/2019	16:48	17.18	54.34	1.05	0.05
MOO-MW6s	7/18/2019	10:13	18.25	53.27	4.11	0.20
MOO-MW6s	8/15/2019	7:18	19.30	52.22	3.26	0.16
MOO-MW6s	9/26/2019	13:37	20.02	51.50	1.56	0.08
MOO-MW6s	10/28/2019	10:55	20.34	51.18	1.66	0.08
MOO-MW6s	11/13/2019	10:22	20.79	50.73	2.09	0.10
MOO-MW6s	12/14/2019	13:59	21.36	50.16	0.89	0.04
MOO-MW6d	1/30/2012	9:27	21.85	49.57		
MOO-MW6d	2/9/2012	13:04	21.87	49.55		
MOO-MW6d	3/5/2012	15:05	22.03	49.39		
MOO-MW6d	4/5/2012	15:23	22.51	48.91		
MOO-MW6d	5/11/2012	10:59	22.98	48.44		
MOO-MW6d	6/18/2012	10:35	24.18	47.24		
MOO-MW6d	7/9/2012	11:00	25.70	45.72		
MOO-MW6d	8/14/2012	12:34	25.70	45.72		
MOO-MW6d	9/17/2012	11:55	24.84	46.58		
MOO-MW6d	10/19/2012	12:12	24.61	46.81		
MOO-MW6d	12/10/2012	9:45	23.88	47.54		
MOO-MW6d	12/28/2012	11:10	23.53	47.89		
MOO-MW6d	1/15/2013	15:06	23.29	48.13		
MOO-MW6d	2/16/2013	16:04	23.73	47.69		
MOO-MW6d	3/19/2013	10:25	24.12	47.30		
MOO-MW6d	4/16/2013	11:19	24.07	47.35		
MOO-MW6d	5/29/2013	8:10	24.98	46.44		
MOO-MW6d	6/18/2013	8:30	24.72	46.70		
MOO-MW6d	7/15/2013	16:23	26.05	45.37		
MOO-MW6d	8/22/2013	17:38	25.78	45.64		
MOO-MW6d	9/9/2013	14:04	28.16	43.26		
MOO-MW6d	10/7/2013	14:13	24.72	46.70		
MOO-MW6d	11/13/2013	15:49	25.04	46.38		
MOO-MW6d	12/17/2013	13:32	25.50	45.92		
MOO-MW6d	1/13/2014	13:04	25.65	45.77		
MOO-MW6d	2/18/2014	16:39	27.56	43.86		
MOO-MW6d	3/16/2014	13:19	26.73	44.69		
MOO-MW6d	4/20/2014	11:24	30.77	40.65		
MOO-MW6d	5/20/2014	16:44	30.05	41.37		
MOO-MW6d	6/19/2014	13:01	29.18	42.24		
MOO-MW6d	7/17/2014	16:42	32.48	38.94		
MOO-MW6d	8/20/2014	15:31	32.00	39.42		
MOO-MW6d	9/19/2014	16:20	31.00	40.42		
MOO-MW6d	10/14/2014	13:54	28.01	43.41		
MOO-MW6d	11/6/2014	13:03	27.68	43.74		
MOO-MW6d	12/14/2014	14:56	27.04	44.38		
MOO-MW6d	1/12/2015	16:01	26.19	45.23		
MOO-MW6d	2/6/2015	11:29	28.41	43.01		
MOO-MW6d	3/13/2015	13:50	27.58	43.84		
MOO-MW6d	4/17/2015	11:54	27.91	43.51		
MOO-MW6d	5/12/2015	16:33	28.84	42.58		
MOO-MW6d	6/4/2015	17:21	29.80	41.62		
MOO-MW6d	7/20/2015	17:11	30.60	40.82		
MOO-MW6d	8/24/2015	9:35	31.22	40.20		
MOO-MW6d	9/14/2015	11:45	30.28	41.14		
MOO-MW6d	10/16/2015	11:39	29.87	41.55		
MOO-MW6d	11/12/2015	12:00	28.50	42.92		
MOO-MW6d	12/26/2015	12:05	27.66	43.76		
MOO-MW6d	1/16/2016	9:31	27.05	44.37		
MOO-MW6d	2/25/2016	8:21	26.46	44.96		
MOO-MW6d	3/18/2016	13:36	25.25	46.17		
MOO-MW6d	4/18/2016	14:06	25.82	45.60		
MOO-MW6d	5/18/2016	7:53	29.03	42.39		
MOO-MW6d	6/17/2016	14:02	27.87	43.55		
MOO-MW6d	7/21/2016	13:30	28.54	42.88		
MOO-MW6d	8/17/2016	9:32	21.22	50.20		
MOO-MW6d	9/15/2016	17:18	27.95	43.47		
MOO-MW6d	10/14/2016	13:48	27.80	43.62		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MOO-MW6d	11/30/2016	14:26	26.32	45.10		
MOO-MW6d	12/13/2016	9:05	26.26	45.16		
MOO-MW6d	1/26/2017	8:55	19.86	51.56		
MOO-MW6d	2/1/2017		N/M			
MOO-MW6d	3/16/2017	9:31	12.60	58.82		
MOO-MW6d	4/20/2017	16:27	13.65	57.77		
MOO-MW6d	5/18/2017	7:57	17.63	53.79		
MOO-MW6d	6/24/2017	13:06	16.01	55.41		
MOO-MW6d	7/14/2017	13:32	18.10	53.32		
MOO-MW6d	8/29/2017	11:12	21.63	49.79		
MOO-MW6d	9/23/2017	15:58	21.89	49.53		
MOO-MW6d	10/20/2017	10:22	21.54	49.88		
MOO-MW6d	11/21/2017	12:55	22.14	49.28		
MOO-MW6d	12/31/2017	10:22	22.73	48.69		
MOO-MW6d	1/22/2018	16:46	22.51	48.91		
MOO-MW6d	2/20/2018	16:46	23.80	47.62		
MOO-MW6d	3/1/2018		N/M			
MOO-MW6d	4/24/2018	11:58	21.02	50.40		
MOO-MW6d	5/15/2018	8:57	22.60	48.82		
MOO-MW6d	6/14/2018	15:49	23.55	47.87		
MOO-MW6d	7/17/2018	9:36	24.68	46.74		
MOO-MW6d	8/20/2018	14:52	24.77	46.65		
MOO-MW6d	9/16/2018	19:25	25.08	46.34		
MOO-MW6d	10/25/2018	15:14	24.40	47.02		
MOO-MW6d	11/13/2018	13:24	24.18	47.24		
MOO-MW6d	12/14/2018	16:40	23.79	47.63		
MOO-MW6d	1/25/2019	12:37	23.35	48.07		
MOO-MW6d	2/26/2019	8:10	19.09	52.33		
MOO-MW6d	3/17/2019	16:41	19.10	52.32		
MOO-MW6d	4/16/2019	10:16	20.65	50.77		
MOO-MW6d	5/23/2019	11:39	19.70	51.72		
MOO-MW6d	6/20/2019	16:49	18.13	53.29		
MOO-MW6d	7/18/2019	10:13	22.26	49.16		
MOO-MW6d	8/15/2019	7:18	22.46	48.96		
MOO-MW6d	9/26/2019	13:37	21.48	49.94		
MOO-MW6d	10/28/2019	10:56	21.90	49.52		
MOO-MW6d	11/13/2019	10:22	22.78	48.64		
MOO-MW6d	12/14/2019	14:00	22.15	49.27		
MOO-MW7s	1/30/2012	9:33	17.79	51.46	0.06	0.00
MOO-MW7s	2/9/2012	12:46	18.06	51.19	0.06	0.00
MOO-MW7s	3/5/2012	15:10	18.73	50.52	<|0.05|	0
MOO-MW7s	4/5/2012	15:35	19.18	50.07	0.07	0.00
MOO-MW7s	5/11/2012	10:42	19.52	49.73	<|0.05|	0
MOO-MW7s	6/18/2012	10:39	19.78	49.47	<|0.05|	0
MOO-MW7s	7/9/2012	11:06	19.96	49.29	0.06	0.00
MOO-MW7s	8/14/2012	12:42	19.85	49.40	<|0.05|	0
MOO-MW7s	9/17/2012	11:59	19.55	49.70	0.06	0.00
MOO-MW7s	10/19/2012	12:05	20.17	49.08	0.09	0.01
MOO-MW7s	12/10/2012	9:42	20.92	48.33	<|0.05|	0
MOO-MW7s	12/28/2012	11:13	21.11	48.14	<|0.05|	0
MOO-MW7s	1/15/2013	15:10	20.88	48.37	<|0.05|	0
MOO-MW7s	2/16/2013	16:08	20.83	48.42	0.06	0.00
MOO-MW7s	3/19/2013	10:22	20.63	48.62	<|0.05|	0
MOO-MW7s	4/16/2013	11:22	18.68	50.57	<|0.05|	0
MOO-MW7s	5/29/2013	8:03	17.84	51.41	<|0.05|	0
MOO-MW7s	6/18/2013	8:24	18.07	51.18	0.06	0.00
MOO-MW7s	7/15/2013	16:20	18.50	50.75	<|0.05|	0
MOO-MW7s	8/22/2013	17:43	17.44	51.81	<|0.05|	0
MOO-MW7s	9/9/2013	14:08	15.88	53.37	<|0.05|	0
MOO-MW7s	10/7/2013	14:16	16.65	52.60	0.07	0.00
MOO-MW7s	11/13/2013	15:55	18.61	50.64	0.10	0.01
MOO-MW7s	12/17/2013	13:36	19.95	49.30	0.07	0.00
MOO-MW7s	1/13/2014	13:08	20.76	48.49	0.11	0.01
MOO-MW7s	2/18/2014	16:44	21.62	47.63	0.17	0.01
MOO-MW7s	3/16/2014	13:23	22.06	47.19	0.09	0.01
MOO-MW7s	4/20/2014	11:28	22.34	46.91	0.23	0.01
MOO-MW7s	5/20/2014	16:49	22.49	46.76	0.14	0.01
MOO-MW7s	6/19/2014	13:06	22.25	47.00	0.14	0.01
MOO-MW7s	7/17/2014	16:37	22.32	46.93	0.15	0.01
MOO-MW7s	8/20/2014	15:37	21.54	47.71	0.15	0.01
MOO-MW7s	9/19/2014	16:16	19.70	49.55	0.17	0.01
MOO-MW7s	10/14/2014	13:58	20.24	49.01	0.18	0.01
MOO-MW7s	11/6/2014	13:06	21.02	48.23	0.13	0.01
MOO-MW7s	12/14/2014	15:00	22.02	47.23	0.09	0.01
MOO-MW7s	1/12/2015	16:05	21.73	47.52	0.07	0.00
MOO-MW7s	2/6/2015	11:25	21.76	47.49	0.11	0.01
MOO-MW7s	3/13/2015	13:55	21.09	48.16	0.15	0.01
MOO-MW7s	4/17/2015	12:00	21.06	48.19	3.06	0.20
MOO-MW7s	5/12/2015	16:37	21.85	47.40	<|0.05|	0
MOO-MW7s	6/4/2015	17:26	21.95	47.30	0.16	0.01
MOO-MW7s	7/20/2015	16:50	22.32	46.93	0.13	0.01
MOO-MW7s	8/24/2015	9:41	21.81	47.44	0.19	0.01
MOO-MW7s	9/14/2015	11:31	22.04	47.21	0.22	0.01
MOO-MW7s	10/16/2015	11:22	22.76	46.49	0.13	0.01
MOO-MW7s	11/12/2015	12:03	23.23	46.02	0.08	0.01
MOO-MW7s	12/26/2015	12:00	23.51	45.74	<|0.05|	0
MOO-MW7s	1/16/2016	9:26	23.63	45.62	<|0.05|	0
MOO-MW7s	2/25/2016	8:19	23.35	45.90	<|0.05|	0
MOO-MW7s	3/18/2016	13:40	23.40	45.85	<|0.05|	0
MOO-MW7s	4/18/2016	14:11	23.25	46.00	<|0.05|	0
MOO-MW7s	5/18/2016	7:49	23.20	46.05	0.12	0.01
MOO-MW7s	6/17/2016	14:06	23.16	46.09	0.07	0.00
MOO-MW7s	7/21/2016	13:34	21.75	47.50	<|0.05|	0
MOO-MW7s	8/17/2016	9:28	21.57	47.68	<|0.05|	0
MOO-MW7s	9/15/2016	17:21	21.12	48.13	0.07	0.00
MOO-MW7s	10/14/2016	13:52	21.54	47.71	0.10	0.01
MOO-MW7s	11/30/2016	14:30	21.79	47.46	0.06	0.00
MOO-MW7s	12/13/2016	9:01	21.97	47.28	0.08	0.01
MOO-MW7s	1/26/2017	8:50	22.13	47.12	-0.08	-0.01
MOO-MW7s	2/1/2017		N/M			
MOO-MW7s	3/16/2017	9:36	15.69	53.56	-0.11	-0.01
MOO-MW7s	4/20/2017	16:29	12.90	56.35	<|0.05|	0
MOO-MW7s	5/18/2017	8:00	12.62	56.63	<|0.05|	0
MOO-MW7s	6/24/2017	13:00	13.57	55.68	<|0.05|	0
MOO-MW7s	7/14/2017	13:56	12.93	56.32	<|0.05|	0
MOO-MW7s	8/29/2017	11:08	14.53	54.72	0.07	0.00
MOO-MW7s	9/23/2017	16:00	15.59	53.66	0.09	0.01
MOO-MW7s	10/20/2017	10:18	16.65	52.60	0.08	0.01
MOO-MW7s	11/21/2017	12:57	17.61	51.64	<|0.05|	0
MOO-MW7s	12/31/2017	10:17	18.20	51.05	0.06	0.00
MOO-MW7s	1/22/2018	16:49	18.25	51.00	<|0.05|	0
MOO-MW7s	2/20/2018	16:48	18.22	51.03	<|0.05|	0
MOO-MW7s	3/1/2018		N/M			
MOO-MW7s	4/24/2018	12:02	17.33	51.92	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MOO-MW7s	5/15/2018	8:52	17.85	51.40	<|0.05|	0
MOO-MW7s	6/14/2018	15:44	18.33	50.92	0.08	0.01
MOO-MW7s	7/17/2018	9:33	18.40	50.85	0.53	0.03
MOO-MW7s	8/20/2018	14:55	19.02	50.23	0.09	0.01
MOO-MW7s	9/16/2018	19:29	18.75	50.50	<|0.05|	0
MOO-MW7s	10/25/2018	15:08	19.49	49.76	0.07	0.00
MOO-MW7s	11/13/2018	13:27	19.90	49.35	0.10	0.01
MOO-MW7s	12/14/2018	16:42	20.18	49.07	0.06	0.00
MOO-MW7s	1/25/2019	12:33	20.16	49.09	0.06	0.00
MOO-MW7s	2/26/2019	8:13	20.10	49.15	-0.11	-0.01
MOO-MW7s	3/17/2019	16:43	19.50	49.75	<|0.05|	0
MOO-MW7s	4/16/2019	10:13	18.70	50.55	0.09	0.01
MOO-MW7s	5/23/2019	11:35	18.36	50.89	<|0.05|	0
MOO-MW7s	6/20/2019	16:43	17.84	51.41	<|0.05|	0
MOO-MW7s	7/18/2019	10:08	16.52	52.73	<|0.05|	0
MOO-MW7s	8/15/2019	7:14	16.97	52.28	0.06	0.00
MOO-MW7s	9/26/2019	13:33	17.68	51.57	<|0.05|	0
MOO-MW7s	10/28/2019	10:44	18.35	50.90	0.09	0.01
MOO-MW7s	11/13/2019	10:18	18.72	50.53	0.07	0.00
MOO-MW7s	12/14/2019	13:55	19.15	50.10	0.07	0.00
MOO-MW7d	1/30/2012	9:37	17.76	51.40		
MOO-MW7d	2/9/2012	12:57	18.03	51.13		
MOO-MW7d	3/5/2012	15:11	18.63	50.53		
MOO-MW7d	4/5/2012	15:36	19.16	50.00		
MOO-MW7d	5/11/2012	10:43	19.48	49.68		
MOO-MW7d	6/18/2012	10:38	19.73	49.43		
MOO-MW7d	7/9/2012	11:05	19.93	49.23		
MOO-MW7d	8/14/2012	12:43	19.81	49.35		
MOO-MW7d	9/17/2012	11:58	19.52	49.64		
MOO-MW7d	10/19/2012	12:05	20.17	48.99		
MOO-MW7d	12/10/2012	9:42	20.88	48.28		
MOO-MW7d	12/28/2012	11:14	21.06	48.10		
MOO-MW7d	1/15/2013	15:11	20.82	48.34		
MOO-MW7d	2/16/2013	16:09	20.80	48.36		
MOO-MW7d	3/19/2013	10:22	20.55	48.61		
MOO-MW7d	4/16/2013	11:22	18.62	50.54		
MOO-MW7d	5/29/2013	8:03	17.80	51.36		
MOO-MW7d	6/18/2013	8:25	18.04	51.12		
MOO-MW7d	7/15/2013	16:20	18.46	50.70		
MOO-MW7d	8/22/2013	17:43	17.39	51.77		
MOO-MW7d	9/9/2013	14:08	15.83	53.33		
MOO-MW7d	10/7/2013	14:16	16.63	52.53		
MOO-MW7d	11/13/2013	15:55	18.62	50.54		
MOO-MW7d	12/17/2013	13:36	19.93	49.23		
MOO-MW7d	1/13/2014	13:08	20.78	48.38		
MOO-MW7d	2/18/2014	16:44	21.70	47.46		
MOO-MW7d	3/16/2014	13:23	22.06	47.10		
MOO-MW7d	4/20/2014	11:28	22.48	46.68		
MOO-MW7d	5/20/2014	16:49	22.54	46.62		
MOO-MW7d	6/19/2014	13:06	22.30	46.86		
MOO-MW7d	7/17/2014	16:37	22.38	46.78		
MOO-MW7d	8/20/2014	15:37	21.60	47.56		
MOO-MW7d	9/19/2014	16:16	19.78	49.38		
MOO-MW7d	10/14/2014	13:58	20.33	48.83		
MOO-MW7d	11/6/2014	13:06	21.06	48.10		
MOO-MW7d	12/14/2014	15:00	22.02	47.14		
MOO-MW7d	1/12/2015	16:05	21.71	47.45		
MOO-MW7d	2/6/2015	11:25	21.78	47.38		
MOO-MW7d	3/13/2015	13:55	21.15	48.01		
MOO-MW7d	4/17/2015	12:00	24.03	45.13		
MOO-MW7d	5/12/2015	16:37	21.73	47.43		
MOO-MW7d	6/4/2015	17:26	22.02	47.14		
MOO-MW7d	7/20/2015	16:50	22.36	46.80		
MOO-MW7d	8/24/2015	9:42	21.91	47.25		
MOO-MW7d	9/14/2015	11:31	22.17	46.99		
MOO-MW7d	10/16/2015	11:23	22.80	46.36		
MOO-MW7d	11/12/2015	12:04	23.22	45.94		
MOO-MW7d	12/26/2015	12:01	23.46	45.70		
MOO-MW7d	1/16/2016	9:27	23.57	45.59		
MOO-MW7d	2/25/2016	8:18	23.27	45.89		
MOO-MW7d	3/18/2016	13:40	23.29	45.87		
MOO-MW7d	4/18/2016	14:11	23.18	45.98		
MOO-MW7d	5/18/2016	7:49	23.23	45.93		
MOO-MW7d	6/17/2016	14:07	23.14	46.02		
MOO-MW7d	7/21/2016	13:34	21.71	47.45		
MOO-MW7d	8/17/2016	9:28	21.50	47.66		
MOO-MW7d	9/15/2016	17:22	21.10	48.06		
MOO-MW7d	10/14/2016	13:52	21.55	47.61		
MOO-MW7d	11/30/2016	14:31	21.76	47.40		
MOO-MW7d	12/13/2016	9:00	21.96	47.20		
MOO-MW7d	1/26/2017	8:51	21.96	47.20		
MOO-MW7d	2/1/2017		N/M			
MOO-MW7d	3/16/2017	9:36	15.49	53.67		
MOO-MW7d	4/20/2017	16:30	12.78	56.38		
MOO-MW7d	5/18/2017	8:00	12.57	56.59		
MOO-MW7d	6/24/2017	12:59	13.49	55.67		
MOO-MW7d	7/14/2017	13:57	12.86	56.30		
MOO-MW7d	8/29/2017	11:09	14.51	54.65		
MOO-MW7d	9/23/2017	16:01	15.59	53.57		
MOO-MW7d	10/20/2017	10:19	16.64	52.52		
MOO-MW7d	11/21/2017	12:57	17.57	51.59		
MOO-MW7d	12/31/2017	10:17	18.17	50.99		
MOO-MW7d	1/22/2018	16:50	18.19	50.97		
MOO-MW7d	2/20/2018	16:49	18.13	51.03		
MOO-MW7d	3/1/2018		N/M			
MOO-MW7d	4/24/2018	12:02	17.28	51.88		
MOO-MW7d	5/15/2018	8:51	17.81	51.35		
MOO-MW7d	6/14/2018	15:44	18.32	50.84		
MOO-MW7d	7/17/2018	9:33	18.84	50.32		
MOO-MW7d	8/20/2018	14:56	19.02	50.14		
MOO-MW7d	9/16/2018	19:29	18.70	50.46		
MOO-MW7d	10/25/2018	15:08	19.47	49.69		
MOO-MW7d	11/13/2018	13:27	19.91	49.25		
MOO-MW7d	12/14/2018	16:43	20.15	49.01		
MOO-MW7d	1/25/2019	12:34	20.13	49.03		
MOO-MW7d	2/26/2019	8:13	19.90	49.26		
MOO-MW7d	3/17/2019	16:44	19.36	49.80		
MOO-MW7d	4/16/2019	10:13	18.70	50.46		
MOO-MW7d	5/23/2019	11:35	18.30	50.86		
MOO-MW7d	6/20/2019	16:44	17.75	51.41		
MOO-MW7d	7/18/2019	10:08	16.48	52.68		
MOO-MW7d	8/15/2019	7:14	16.94	52.22		
MOO-MW7d	9/26/2019	13:33	17.62	51.54		
MOO-MW7d	10/28/2019	10:45	18.35	50.81		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MOO-MW7d	11/13/2019	10:18	18.70	50.46		
MOO-MW7d	12/14/2019	13:56	19.13	50.03		
MOO-MW8s	1/30/2012	9:44	18.54	50.66	-0.18	-0.01
MOO-MW8s	2/9/2012	12:24	18.75	50.45	-0.16	-0.01
MOO-MW8s	3/5/2012	15:15	18.99	50.21	-0.11	-0.01
MOO-MW8s	4/5/2012	15:39	19.32	49.88	-0.11	-0.01
MOO-MW8s	5/11/2012	10:29	20.00	49.20	-0.09	-0.01
MOO-MW8s	6/18/2012	10:42	20.26	48.94	-0.08	-0.01
MOO-MW8s	7/9/2012	11:09	20.18	49.02	-0.07	-0.00
MOO-MW8s	8/14/2012	12:45	19.49	49.71	-0.06	-0.00
MOO-MW8s	9/17/2012	12:01	19.57	49.63	-0.10	-0.01
MOO-MW8s	10/19/2012	12:00	20.55	48.65	-0.09	-0.01
MOO-MW8s	12/10/2012	9:39	20.83	48.37	<|0.05|	0
MOO-MW8s	12/28/2012	11:17	21.05	48.15	<|0.05|	0
MOO-MW8s	1/15/2013	15:13	20.94	48.26	<|0.05|	0
MOO-MW8s	2/16/2013	16:11	20.98	48.22	-0.07	-0.00
MOO-MW8s	3/19/2013	10:18	20.22	48.98	-0.06	-0.00
MOO-MW8s	4/16/2013	11:25	17.00	52.20	-0.11	-0.01
MOO-MW8s	5/29/2013	7:56	17.09	52.11	-0.11	-0.01
MOO-MW8s	6/18/2013	8:20	17.73	51.47	-0.21	-0.01
MOO-MW8s	7/15/2013	16:15	18.70	50.50	-0.16	-0.01
MOO-MW8s	8/22/2013	17:47	17.92	51.28	-0.19	-0.01
MOO-MW8s	9/9/2013	14:12	17.63	51.57	-0.20	-0.01
MOO-MW8s	10/7/2013	14:19	17.80	51.40	-0.17	-0.01
MOO-MW8s	11/13/2013	15:59	19.03	50.17	-0.08	-0.01
MOO-MW8s	12/17/2013	13:39	20.18	49.02	-0.10	-0.01
MOO-MW8s	1/13/2014	13:11	20.87	48.33	<|0.05|	0
MOO-MW8s	2/18/2014	16:47	21.52	47.68	<|0.05|	0
MOO-MW8s	3/16/2014	13:27	20.93	48.27	<|0.05|	0
MOO-MW8s	4/20/2014	11:31	21.90	47.30	-0.06	-0.00
MOO-MW8s	5/20/2014	16:51	21.41	47.79	<|0.05|	0
MOO-MW8s	6/19/2014	13:09	20.40	48.80	<|0.05|	0
MOO-MW8s	7/17/2014	16:33	21.29	47.91	-0.06	-0.00
MOO-MW8s	8/20/2014	15:41	20.17	49.03	-0.08	-0.01
MOO-MW8s	9/19/2014	16:12	18.65	50.55	0.24	0.02
MOO-MW8s	10/14/2014	14:01	19.84	49.36	-0.10	-0.01
MOO-MW8s	11/6/2014	13:09	20.66	48.54	<|0.05|	0
MOO-MW8s	12/14/2014	15:03	21.46	47.74	-0.06	-0.00
MOO-MW8s	1/12/2015	16:08	20.84	48.36	<|0.05|	0
MOO-MW8s	2/6/2015	11:21	21.39	47.81	-0.06	-0.00
MOO-MW8s	3/13/2015	13:59	20.93	48.27	<|0.05|	0
MOO-MW8s	4/17/2015	12:03	21.82	47.38	<|0.05|	0
MOO-MW8s	5/12/2015	16:40	22.16	47.04	<|0.05|	0
MOO-MW8s	6/4/2015	17:31	22.23	46.97	<|0.05|	0
MOO-MW8s	7/20/2015	16:54	22.52	46.68	<|0.05|	0
MOO-MW8s	8/24/2015	9:45	22.40	46.80	<|0.05|	0
MOO-MW8s	9/14/2015	11:36	22.33	46.87	<|0.05|	0
MOO-MW8s	10/16/2015	11:30	23.14	46.06	<|0.05|	0
MOO-MW8s	11/12/2015	12:09	23.44	45.76	<|0.05|	0
MOO-MW8s	12/26/2015	11:56	23.70	45.50	<|0.05|	0
MOO-MW8s	1/16/2016	9:21	23.75	45.45	<|0.05|	0
MOO-MW8s	2/25/2016	8:16	23.56	45.64	<|0.05|	0
MOO-MW8s	3/18/2016	13:43	23.50	45.70	<|0.05|	0
MOO-MW8s	4/18/2016	14:14	23.48	45.72	<|0.05|	0
MOO-MW8s	5/18/2016	7:46	23.78	45.42	<|0.05|	0
MOO-MW8s	6/17/2016	14:11	23.85	45.35	<|0.05|	0
MOO-MW8s	7/21/2016	13:38	23.81	45.39	<|0.05|	0
MOO-MW8s	8/17/2016	9:25	23.65	45.55	<|0.05|	0
MOO-MW8s	9/15/2016	17:24	23.40	45.80	<|0.05|	0
MOO-MW8s	10/14/2016	13:56	23.62	45.58	<|0.05|	0
MOO-MW8s	11/30/2016	14:34	23.46	45.74	<|0.05|	0
MOO-MW8s	12/13/2016	8:56	23.46	45.74	<|0.05|	0
MOO-MW8s	1/26/2017	8:47	22.18	47.02	0.11	0.01
MOO-MW8s	2/1/2017		N/M			
MOO-MW8s	3/16/2017	9:39	9.22	59.98	0.34	0.02
MOO-MW8s	4/20/2017	16:32	11.42	57.78	0.12	0.01
MOO-MW8s	5/18/2017	8:03	12.21	56.99	<|0.05|	0
MOO-MW8s	6/24/2017	12:57	13.79	55.41	<|0.05|	0
MOO-MW8s	7/14/2017	13:53	14.39	54.81	-0.06	-0.00
MOO-MW8s	8/29/2017	11:05	16.63	52.57	-0.20	-0.01
MOO-MW8s	9/23/2017	16:03	17.36	51.84	-0.23	-0.01
MOO-MW8s	10/20/2017	10:15	17.89	51.31	-0.12	-0.01
MOO-MW8s	11/21/2017	12:59	18.60	50.60	-0.15	-0.01
MOO-MW8s	12/31/2017	10:13	19.26	49.94	-0.09	-0.01
MOO-MW8s	1/22/2018	16:53	19.60	49.60	-0.09	-0.01
MOO-MW8s	2/20/2018	16:51	19.97	49.23	-0.06	-0.00
MOO-MW8s	3/1/2018		N/M			
MOO-MW8s	4/24/2018	12:05	19.58	49.62	<|0.05|	0
MOO-MW8s	5/15/2018	8:49	19.84	49.36	-0.06	-0.00
MOO-MW8s	6/14/2018	15:39	20.23	48.97	-0.06	-0.00
MOO-MW8s	7/17/2018	9:28	20.52	48.68	-0.07	-0.00
MOO-MW8s	8/20/2018	14:59	20.84	48.36	-0.06	-0.00
MOO-MW8s	9/16/2018	19:32	20.94	48.26	-0.10	-0.01
MOO-MW8s	10/25/2018	15:03	21.29	47.91	-0.08	-0.01
MOO-MW8s	11/13/2018	13:30	21.43	47.77	-0.07	-0.00
MOO-MW8s	12/14/2018	16:45	21.25	47.95	<|0.05|	0
MOO-MW8s	1/25/2019	12:29	21.40	47.80	<|0.05|	0
MOO-MW8s	2/26/2019	8:16	20.30	48.90	0.12	0.01
MOO-MW8s	3/17/2019	16:47	19.61	49.59	0.17	0.01
MOO-MW8s	4/16/2019	10:08	19.19	50.01	0.11	0.01
MOO-MW8s	5/23/2019	11:32	18.94	50.26	0.07	0.00
MOO-MW8s	6/20/2019	16:40	17.93	51.27	0.20	0.01
MOO-MW8s	7/18/2019	10:04	18.47	50.73	<|0.05|	0
MOO-MW8s	8/15/2019	7:11	19.01	50.19	-0.12	-0.01
MOO-MW8s	9/26/2019	13:30	19.33	49.87	-0.07	-0.00
MOO-MW8s	10/28/2019	10:49	19.58	49.62	-0.08	-0.01
MOO-MW8s	11/13/2019	10:15	19.84	49.36	-0.11	-0.01
MOO-MW8s	12/14/2019	13:52	19.77	49.43	-0.09	-0.01
MOO-MW8d	1/30/2012	9:46	18.28	50.84		
MOO-MW8d	2/9/2012	12:25	18.51	50.61		
MOO-MW8d	3/5/2012	15:16	18.80	50.32		
MOO-MW8d	4/5/2012	15:40	19.13	49.99		
MOO-MW8d	5/11/2012	10:30	19.83	49.29		
MOO-MW8d	6/18/2012	10:41	20.10	49.02		
MOO-MW8d	7/9/2012	11:08	20.03	49.09		
MOO-MW8d	8/14/2012	12:46	19.35	49.77		
MOO-MW8d	9/17/2012	12:01	19.39	49.73		
MOO-MW8d	10/19/2012	12:00	20.38	48.74		
MOO-MW8d	12/10/2012	9:39	20.71	48.41		
MOO-MW8d	12/28/2012	11:18	20.93	48.19		
MOO-MW8d	1/15/2013	15:14	20.83	48.29		
MOO-MW8d	2/16/2013	16:12	20.83	48.29		
MOO-MW8d	3/19/2013	10:18	20.08	49.04		
MOO-MW8d	4/16/2013	11:25	16.81	52.31		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MOO-MW8d	5/29/2013	7:56	16.90	52.22		
MOO-MW8d	6/18/2013	8:22	17.44	51.68		
MOO-MW8d	7/15/2013	16:15	18.46	50.66		
MOO-MW8d	8/22/2013	17:47	17.65	51.47		
MOO-MW8d	9/9/2013	14:12	17.35	51.77		
MOO-MW8d	10/7/2013	14:19	17.55	51.57		
MOO-MW8d	11/13/2013	15:59	18.87	50.25		
MOO-MW8d	12/17/2013	13:39	20.00	49.12		
MOO-MW8d	1/13/2014	13:11	20.75	48.37		
MOO-MW8d	2/18/2014	16:47	21.41	47.71		
MOO-MW8d	3/16/2014	13:27	20.84	48.28		
MOO-MW8d	4/20/2014	11:31	21.76	47.36		
MOO-MW8d	5/20/2014	16:51	21.30	47.82		
MOO-MW8d	6/19/2014	13:09	20.33	48.79		
MOO-MW8d	7/17/2014	16:33	21.15	47.97		
MOO-MW8d	8/20/2014	15:41	20.01	49.11		
MOO-MW8d	9/19/2014	16:12	18.81	50.31		
MOO-MW8d	10/14/2014	14:01	19.66	49.46		
MOO-MW8d	11/6/2014	13:09	20.55	48.57		
MOO-MW8d	12/14/2014	15:03	21.32	47.80		
MOO-MW8d	1/12/2015	16:08	20.72	48.40		
MOO-MW8d	2/6/2015	11:21	21.25	47.87		
MOO-MW8d	3/13/2015	13:59	20.80	48.32		
MOO-MW8d	4/17/2015	12:03	21.70	47.42		
MOO-MW8d	5/12/2015	16:40	22.04	47.08		
MOO-MW8d	6/4/2015	17:31	22.17	46.95		
MOO-MW8d	7/20/2015	16:54	22.46	46.66		
MOO-MW8d	8/24/2015	9:46	22.37	46.75		
MOO-MW8d	9/14/2015	11:36	22.25	46.87		
MOO-MW8d	10/16/2015	11:30	23.06	46.06		
MOO-MW8d	11/12/2015	12:10	23.33	45.79		
MOO-MW8d	12/26/2015	11:57	23.65	45.47		
MOO-MW8d	1/16/2016	9:22	23.65	45.47		
MOO-MW8d	2/25/2016	8:15	23.48	45.64		
MOO-MW8d	3/18/2016	13:43	23.42	45.70		
MOO-MW8d	4/18/2016	14:14	23.40	45.72		
MOO-MW8d	5/18/2016	7:46	23.68	45.44		
MOO-MW8d	6/17/2016	14:12	23.75	45.37		
MOO-MW8d	7/21/2016	13:38	23.70	45.42		
MOO-MW8d	8/17/2016	9:25	23.56	45.56		
MOO-MW8d	9/15/2016	17:25	23.30	45.82		
MOO-MW8d	10/14/2016	13:56	23.50	45.62		
MOO-MW8d	11/30/2016	14:35	23.37	45.75		
MOO-MW8d	12/13/2016	8:57	23.37	45.75		
MOO-MW8d	1/26/2017	8:48	22.21	46.91		
MOO-MW8d	2/1/2017		N/M			
MOO-MW8d	3/16/2017	9:39	9.48	59.64		
MOO-MW8d	4/20/2017	16:33	11.46	57.66		
MOO-MW8d	5/18/2017	8:03	12.15	56.97		
MOO-MW8d	6/24/2017	12:56	13.74	55.38		
MOO-MW8d	7/14/2017	13:54	14.25	54.87		
MOO-MW8d	8/29/2017	11:06	16.35	52.77		
MOO-MW8d	9/23/2017	16:04	17.05	52.07		
MOO-MW8d	10/20/2017	10:16	17.69	51.43		
MOO-MW8d	11/21/2017	13:00	18.37	50.75		
MOO-MW8d	12/31/2017	10:13	19.09	50.03		
MOO-MW8d	1/22/2018	16:54	19.43	49.69		
MOO-MW8d	2/20/2018	16:52	19.83	49.29		
MOO-MW8d	3/1/2018		N/M			
MOO-MW8d	4/24/2018	12:06	19.46	49.66		
MOO-MW8d	5/15/2018	8:48	19.70	49.42		
MOO-MW8d	6/14/2018	15:39	20.09	49.03		
MOO-MW8d	7/17/2018	9:29	20.37	48.75		
MOO-MW8d	8/20/2018	14:59	20.70	48.42		
MOO-MW8d	9/16/2018	19:32	20.76	48.36		
MOO-MW8d	10/25/2018	15:03	21.13	47.99		
MOO-MW8d	11/13/2018	13:30	21.28	47.84		
MOO-MW8d	12/14/2018	16:46	21.14	47.98		
MOO-MW8d	1/25/2019	12:30	21.31	47.81		
MOO-MW8d	2/26/2019	8:16	20.34	48.78		
MOO-MW8d	3/17/2019	16:48	19.70	49.42		
MOO-MW8d	4/16/2019	10:08	19.22	49.90		
MOO-MW8d	5/23/2019	11:32	18.93	50.19		
MOO-MW8d	6/20/2019	16:41	18.05	51.07		
MOO-MW8d	7/18/2019	10:04	18.35	50.77		
MOO-MW8d	8/15/2019	7:11	18.81	50.31		
MOO-MW8d	9/26/2019	13:30	19.18	49.94		
MOO-MW8d	10/28/2019	10:50	19.42	49.70		
MOO-MW8d	11/13/2019	10:15	19.65	49.47		
MOO-MW8d	12/14/2019	13:53	19.60	49.52		
TON-MW1s	1/30/2012	16:33	7.53	97.24	-0.21	-0.01
TON-MW1s	2/10/2012	12:42	7.58	97.19	<|0.05|	0
TON-MW1s	3/5/2012	12:05	6.53	98.24	<|0.05|	0
TON-MW1s	4/9/2012	10:24	7.04	97.73	<|0.05|	0
TON-MW1s	5/10/2012	15:52	7.84	96.93	<|0.05|	0
TON-MW1s	6/20/2012	10:26	9.56	95.21	<|0.05|	0
TON-MW1s	7/9/2012	12:44	11.43	93.34	<|0.05|	0
TON-MW1s	8/16/2012	10:11	11.24	93.53	<|0.05|	0
TON-MW1s	9/20/2012	11:14	12.13	92.64	<|0.05|	0
TON-MW1s	10/19/2012	12:22	7.77	97.00	<|0.05|	0
TON-MW1s	12/6/2012	14:11	9.10	95.67	<|0.05|	0
TON-MW1s	12/31/2012	9:59	7.95	96.82	<|0.05|	0
TON-MW1s	1/15/2013	11:25	7.53	97.24	0.08	0.01
TON-MW1s	2/18/2013	17:10	7.33	97.44	<|0.05|	0
TON-MW1s	3/22/2013	13:22	7.55	97.22	<|0.05|	0
TON-MW1s	4/17/2013	14:36	8.33	96.44	<|0.05|	0
TON-MW1s	5/29/2013	11:50	8.12	96.65	<|0.05|	0
TON-MW1s	6/18/2013	11:25	9.61	95.16	<|0.05|	0
TON-MW1s	7/15/2013	14:57	12.73	92.04	<|0.05|	0
TON-MW1s	8/22/2013	12:07	10.86	93.91	<|0.05|	0
TON-MW1s	9/9/2013	10:51	12.72	92.05	<|0.05|	0
TON-MW1s	10/7/2013	13:46	11.75	93.02	<|0.05|	0
TON-MW1s	11/13/2013	9:18	10.63	94.14	<|0.05|	0
TON-MW1s	12/17/2013	14:19	11.53	93.24	<|0.05|	0
TON-MW1s	1/14/2014	14:30	11.16	93.61	<|0.05|	0
TON-MW1s	2/19/2014	9:30	9.30	95.47	<|0.05|	0
TON-MW1s	3/17/2014	12:15	9.70	95.07	<|0.05|	0
TON-MW1s	4/19/2014	11:06	9.13	95.64	<|0.05|	0
TON-MW1s	5/23/2014	8:55	13.03	91.74	<|0.05|	0
TON-MW1s	6/20/2014	14:22	15.51	89.26	<|0.05|	0
TON-MW1s	7/16/2014	18:29	17.60	87.17	<|0.05|	0
TON-MW1s	8/27/2014	15:44	19.95	84.82	<|0.05|	0
TON-MW1s	9/19/2014	12:12	17.13	87.64	<|0.05|	0
TON-MW1s	10/14/2014	10:15	17.35	87.42	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
TON-MW1s	11/12/2014	9:44	16.95	87.82	<|0.05|	0
TON-MW1s	12/15/2014	12:41	14.02	90.75	<|0.05|	0
TON-MW1s	1/13/2015	12:37	12.95	91.82	<|0.05|	0
TON-MW1s	2/10/2015	11:24	12.00	92.77	<|0.05|	0
TON-MW1s	3/13/2015	10:45	12.50	92.27	<|0.05|	0
TON-MW1s	4/17/2015	9:40	12.49	92.28	<|0.05|	0
TON-MW1s	5/13/2015	8:47	16.68	88.09	<|0.05|	0
TON-MW1s	6/4/2015	10:35	18.28	86.49	<|0.05|	0
TON-MW1s	7/20/2015	14:03	22.45	82.32	<|0.05|	0
TON-MW1s	8/17/2015	10:14	20.40	84.37	2.02	0.13
TON-MW1s	9/14/2015	14:46	20.49	84.28	<|0.05|	0
TON-MW1s	10/16/2015	14:43	21.98	82.79	<|0.05|	0
TON-MW1s	11/19/2015	13:35	19.51	85.26	<|0.05|	0
TON-MW1s	12/31/2015	14:04	18.25	86.52	<|0.05|	0
TON-MW1s	1/16/2016	14:54	17.71	87.06	<|0.05|	0
TON-MW1s	2/25/2016	14:40	16.15	88.62	<|0.05|	0
TON-MW1s	3/19/2016	8:44	15.31	89.46	<|0.05|	0
TON-MW1s	4/18/2016	12:58	14.71	90.06	<|0.05|	0
TON-MW1s	5/17/2016	12:19	14.62	90.15	<|0.05|	0
TON-MW1s	6/17/2016	11:51	18.37	86.40	<|0.05|	0
TON-MW1s	7/22/2016	8:41	21.70	83.07	<|0.05|	0
TON-MW1s	8/15/2016	12:31	Dry			
TON-MW1s	9/16/2016	12:48	Dry			
TON-MW1s	10/14/2016	13:32	21.91	82.86	<|0.05|	0
TON-MW1s	11/22/2016	13:06	18.55	86.22	<|0.05|	0
TON-MW1s	12/13/2016	16:07	17.38	87.39	<|0.05|	0
TON-MW1s	1/26/2017	10:51	14.02	90.75	<|0.05|	0
TON-MW1s	2/1/2017		N/M			
TON-MW1s	3/14/2017	12:13	11.58	93.19	<|0.05|	0
TON-MW1s	4/21/2017	13:48	10.94	93.83	<|0.05|	0
TON-MW1s	5/17/2017	13:27	10.89	93.88	<|0.05|	0
TON-MW1s	6/23/2017	10:04	12.90	91.87	<|0.05|	0
TON-MW1s	7/14/2017	10:26	12.41	92.36	<|0.05|	0
TON-MW1s	8/23/2017	10:40	10.63	94.14	<|0.05|	0
TON-MW1s	9/23/2017	13:59	12.78	91.99	<|0.05|	0
TON-MW1s	10/20/2017	11:54	12.44	92.33	<|0.05|	0
TON-MW1s	11/16/2017	11:51	11.53	93.24	<|0.05|	0
TON-MW1s	12/31/2017	13:30	5.82	98.95	<|0.05|	0
TON-MW1s	1/22/2018	14:38	7.05	97.72	<|0.05|	0
TON-MW1s	2/27/2018	12:57	5.58	99.19	<|0.05|	0
TON-MW1s	3/1/2018		N/M			
TON-MW1s	4/25/2018	11:28	8.89	95.88	<|0.05|	0
TON-MW1s	5/15/2018	16:00	8.88	95.89	<|0.05|	0
TON-MW1s	6/14/2018	11:17	9.15	95.62	<|0.05|	0
TON-MW1s	7/17/2018	11:50	9.10	95.67	<|0.05|	0
TON-MW1s	8/17/2018	10:18	10.01	94.76	<|0.05|	0
TON-MW1s	9/12/2018	11:16	11.89	92.88	<|0.05|	0
TON-MW1s	10/25/2018	14:56	12.68	92.09	<|0.05|	0
TON-MW1s	11/14/2018	9:03	12.21	92.56	<|0.05|	0
TON-MW1s	12/14/2018	14:50	11.30	93.47	<|0.05|	0
TON-MW1s	1/24/2019	15:35	8.56	96.21	<|0.05|	0
TON-MW1s	3/1/2019	13:33	5.50	99.27	<|0.05|	0
TON-MW1s	3/17/2019	14:43	5.58	99.19	<|0.05|	0
TON-MW1s	4/15/2019	10:58	6.72	98.05	<|0.05|	0
TON-MW1s	5/22/2019	10:55	6.95	97.82	<|0.05|	0
TON-MW1s	6/20/2019	11:29	9.58	95.19	<|0.05|	0
TON-MW1s	7/17/2019	9:44	11.31	93.46	<|0.05|	0
TON-MW1s	8/21/2019	12:05	13.73	91.04	0.05	0.00
TON-MW1s	9/26/2019	11:04	12.30	92.47	<|0.05|	0
TON-MW1s	10/25/2019	9:34	11.78	92.99	<|0.05|	0
TON-MW1s	11/14/2019	13:28	12.45	92.32	<|0.05|	0
TON-MW1s	12/13/2019	11:18	12.56	92.21	<|0.05|	0
TON-MW1d	1/30/2012	16:34	7.19	97.45		
TON-MW1d	2/10/2012	12:43	7.45	97.19		
TON-MW1d	3/5/2012	12:04	6.40	98.24		
TON-MW1d	4/9/2012	10:25	6.92	97.72		
TON-MW1d	5/10/2012	15:53	7.73	96.91		
TON-MW1d	6/20/2012	10:27	9.43	95.21		
TON-MW1d	7/9/2012	12:43	11.33	93.31		
TON-MW1d	8/16/2012	10:12	11.11	93.53		
TON-MW1d	9/20/2012	11:14	12.01	92.63		
TON-MW1d	10/19/2012	12:22	7.60	97.04		
TON-MW1d	12/6/2012	14:11	9.00	95.64		
TON-MW1d	12/31/2012	10:00	7.81	96.83		
TON-MW1d	1/15/2013	11:25	7.48	97.16		
TON-MW1d	2/18/2013	17:10	7.18	97.46		
TON-MW1d	3/22/2013	13:22	7.44	97.20		
TON-MW1d	4/17/2013	14:36	8.20	96.44		
TON-MW1d	5/29/2013	11:50	7.99	96.65		
TON-MW1d	6/18/2013	11:27	9.50	95.14		
TON-MW1d	7/15/2013	14:57	12.61	92.03		
TON-MW1d	8/22/2013	12:07	10.73	93.91		
TON-MW1d	9/9/2013	10:51	12.59	92.05		
TON-MW1d	10/7/2013	13:46	11.62	93.02		
TON-MW1d	11/13/2013	9:18	10.49	94.15		
TON-MW1d	12/17/2013	14:19	11.37	93.27		
TON-MW1d	1/14/2014	14:30	11.04	93.60		
TON-MW1d	2/19/2014	9:30	9.18	95.46		
TON-MW1d	3/17/2014	12:15	9.58	95.06		
TON-MW1d	4/19/2014	11:06	8.98	95.66		
TON-MW1d	5/23/2014	8:56	12.90	91.74		
TON-MW1d	6/20/2014	14:22	15.39	89.25		
TON-MW1d	7/16/2014	18:29	17.48	87.16		
TON-MW1d	8/27/2014	15:44	19.83	84.81		
TON-MW1d	9/19/2014	12:12	17.00	87.64		
TON-MW1d	10/14/2014	10:15	17.21	87.43		
TON-MW1d	11/12/2014	9:44	16.83	87.81		
TON-MW1d	12/15/2014	12:41	13.88	90.76		
TON-MW1d	1/13/2015	12:37	12.82	91.82		
TON-MW1d	2/10/2015	11:24	11.85	92.79		
TON-MW1d	3/13/2015	10:45	12.38	92.26		
TON-MW1d	4/17/2015	9:40	12.37	92.27		
TON-MW1d	5/13/2015	8:47	16.57	88.07		
TON-MW1d	6/4/2015	10:35	18.14	86.50		
TON-MW1d	7/20/2015	14:03	22.31	82.33		
TON-MW1d	8/17/2015	10:14	22.29	82.35		
TON-MW1d	9/14/2015	14:46	20.37	84.27		
TON-MW1d	10/16/2015	14:43	21.82	82.82		
TON-MW1d	11/19/2015	13:35	19.38	85.26		
TON-MW1d	12/31/2015	14:05	18.12	86.52		
TON-MW1d	1/16/2016	14:55	17.58	87.06		
TON-MW1d	2/25/2016	14:39	16.02	88.62		
TON-MW1d	3/19/2016	8:44	15.20	89.44		
TON-MW1d	4/18/2016	12:59	14.61	90.03		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
TON-MW1d	5/17/2016	12:20	14.50	90.14		
TON-MW1d	6/17/2016	11:52	18.22	86.42		
TON-MW1d	7/22/2016	8:41	21.59	83.05		
TON-MW1d	8/15/2016	12:32	23.90	80.74		
TON-MW1d	9/16/2016	12:49	23.46	81.18		
TON-MW1d	10/14/2016	13:33	21.76	82.88		
TON-MW1d	11/22/2016	13:07	18.42	86.22		
TON-MW1d	12/13/2016	16:08	17.23	87.41		
TON-MW1d	1/26/2017	10:52	13.88	90.76		
TON-MW1d	2/1/2017		N/M			
TON-MW1d	3/14/2017	12:13	11.45	93.19		
TON-MW1d	4/21/2017	13:49	10.82	93.82		
TON-MW1d	5/17/2017	13:27	10.77	93.87		
TON-MW1d	6/23/2017	10:04	12.80	91.84		
TON-MW1d	7/14/2017	10:26	12.28	92.36		
TON-MW1d	8/23/2017	10:40	10.52	94.12		
TON-MW1d	9/23/2017	14:00	12.67	91.97		
TON-MW1d	10/20/2017	11:55	12.30	92.34		
TON-MW1d	11/16/2017	11:51	11.41	93.23		
TON-MW1d	12/31/2017	13:32	5.69	98.95		
TON-MW1d	1/22/2018	14:39	6.91	97.73		
TON-MW1d	2/27/2018	12:56	5.40	99.24		
TON-MW1d	3/1/2018		N/M			
TON-MW1d	4/25/2018	11:28	8.78	95.86		
TON-MW1d	5/15/2018	16:00	8.74	95.90		
TON-MW1d	6/14/2018	11:18	9.04	95.60		
TON-MW1d	7/17/2018	11:51	8.93	95.71		
TON-MW1d	8/17/2018	10:18	9.89	94.75		
TON-MW1d	9/12/2018	11:16	11.79	92.85		
TON-MW1d	10/25/2018	14:56	12.57	92.07		
TON-MW1d	11/14/2018	9:03	12.10	92.54		
TON-MW1d	12/14/2018	14:51	11.18	93.46		
TON-MW1d	1/24/2019	15:36	8.45	96.19		
TON-MW1d	3/1/2019	13:33	5.37	99.27		
TON-MW1d	3/17/2019	14:44	5.45	99.19		
TON-MW1d	4/15/2019	10:58	6.59	98.05		
TON-MW1d	5/22/2019	10:55	6.83	97.81		
TON-MW1d	6/20/2019	11:29	9.43	95.21		
TON-MW1d	7/17/2019	9:44	11.22	93.42		
TON-MW1d	8/21/2019	12:05	13.65	90.99		
TON-MW1d	9/26/2019	11:04	12.15	92.49		
TON-MW1d	10/25/2019	9:34	11.65	92.99		
TON-MW1d	11/14/2019	13:28	12.33	92.31		
TON-MW1d	12/13/2019	11:18	12.44	92.20		
TON-MW2s	1/30/2012	16:37	6.73	94.82	<|0.05|	0
TON-MW2s	2/10/2012	12:24	5.64	95.91	<|0.05|	0
TON-MW2s	3/5/2012	12:02	5.56	95.99	<|0.05|	0
TON-MW2s	4/9/2012	10:52	6.68	94.87	<|0.05|	0
TON-MW2s	5/10/2012	17:26	6.56	94.99	<|0.05|	0
TON-MW2s	6/20/2012	10:49	7.32	94.23	<|0.05|	0
TON-MW2s	7/9/2012	12:47	6.85	94.70	<|0.05|	0
TON-MW2s	8/16/2012	9:40	4.66	96.89	<|0.05|	0
TON-MW2s	9/20/2012	11:11	5.03	96.52	<|0.05|	0
TON-MW2s	10/19/2012	12:20	6.98	94.57	<|0.05|	0
TON-MW2s	12/6/2012	14:13	7.57	93.98	<|0.05|	0
TON-MW2s	12/31/2012	10:06	6.87	94.68	<|0.05|	0
TON-MW2s	1/15/2013	11:41	6.56	94.99	<|0.05|	0
TON-MW2s	2/18/2013	16:57	5.90	95.65	<|0.05|	0
TON-MW2s	3/22/2013	13:10	5.90	95.65	<|0.05|	0
TON-MW2s	4/17/2013	14:40	6.27	95.28	<|0.05|	0
TON-MW2s	5/29/2013	11:24	7.34	94.21	<|0.05|	0
TON-MW2s	6/18/2013	11:21	6.70	94.85	<|0.05|	0
TON-MW2s	7/15/2013	15:01	7.37	94.18	<|0.05|	0
TON-MW2s	8/22/2013	12:18	8.09	93.46	<|0.05|	0
TON-MW2s	9/9/2013	11:10	7.00	94.55	<|0.05|	0
TON-MW2s	10/7/2013	14:00	7.78	93.77	<|0.05|	0
TON-MW2s	11/13/2013	9:14	9.00	92.55	<|0.05|	0
TON-MW2s	12/17/2013	14:35	8.15	93.40	0.05	0.00
TON-MW2s	1/14/2014	14:26	8.81	92.74	0.34	0.02
TON-MW2s	2/19/2014	9:19	5.13	96.42	<|0.05|	0
TON-MW2s	3/17/2014	12:09	7.05	94.50	0.17	0.01
TON-MW2s	4/19/2014	11:02	6.92	94.63	<|0.05|	0
TON-MW2s	5/23/2014	8:38	8.28	93.27	0.07	0.00
TON-MW2s	6/20/2014	14:33	8.82	92.73	<|0.05|	0
TON-MW2s	7/16/2014	18:32	8.22	93.33	<|0.05|	0
TON-MW2s	8/27/2014	15:40	7.58	93.97	<|0.05|	0
TON-MW2s	9/19/2014	12:08	9.43	92.12	0.06	0.00
TON-MW2s	10/14/2014	10:32	10.55	91.00	<|0.05|	0
TON-MW2s	11/12/2014	9:48	8.68	92.87	<|0.05|	0
TON-MW2s	12/15/2014	12:46	6.32	95.23	<|0.05|	0
TON-MW2s	1/13/2015	12:34	7.82	93.73	<|0.05|	0
TON-MW2s	2/10/2015	11:21	7.50	94.05	<|0.05|	0
TON-MW2s	3/13/2015	9:41	8.24	93.31	0.07	0.00
TON-MW2s	4/17/2015	9:38	8.72	92.83	<|0.05|	0
TON-MW2s	5/13/2015	8:43	9.60	91.95	<|0.05|	0
TON-MW2s	6/4/2015	10:42	10.67	90.88	<|0.05|	0
TON-MW2s	7/20/2015	13:39	10.79	90.76	<|0.05|	0
TON-MW2s	8/17/2015	10:04	11.32	90.23	<|0.05|	0
TON-MW2s	9/14/2015	14:40	9.73	91.82	<|0.05|	0
TON-MW2s	10/16/2015	14:23	9.93	91.62	<|0.05|	0
TON-MW2s	11/19/2015	13:30	9.99	91.56	<|0.05|	0
TON-MW2s	12/31/2015	13:40	12.30	89.25	<|0.05|	0
TON-MW2s	1/16/2016	15:01	12.53	89.02	<|0.05|	0
TON-MW2s	2/25/2016	14:50	8.72	92.83	<|0.05|	0
TON-MW2s	3/19/2016	8:49	9.74	91.81	<|0.05|	0
TON-MW2s	4/18/2016	13:02	9.88	91.67	<|0.05|	0
TON-MW2s	5/17/2016	12:00	8.50	93.05	0.51	0.03
TON-MW2s	6/17/2016	11:34	9.58	91.97	<|0.05|	0
TON-MW2s	7/22/2016	8:46	8.19	93.36	<|0.05|	0
TON-MW2s	8/15/2016	13:36	10.50	91.05	<|0.05|	0
TON-MW2s	9/16/2016	12:52	12.56	88.99	<|0.05|	0
TON-MW2s	10/14/2016	13:37	13.89	87.66	<|0.05|	0
TON-MW2s	11/22/2016	13:09	10.04	91.51	-0.06	-0.00
TON-MW2s	12/13/2016	16:10	9.94	91.61	<|0.05|	0
TON-MW2s	1/26/2017	10:54	7.01	94.54	<|0.05|	0
TON-MW2s	2/1/2017		N/M			
TON-MW2s	3/14/2017	12:17	7.50	94.05	<|0.05|	0
TON-MW2s	4/21/2017	13:33	8.33	93.22	<|0.05|	0
TON-MW2s	5/17/2017	13:30	8.87	92.68	<|0.05|	0
TON-MW2s	6/23/2017	10:01	7.81	93.74	0.09	0.01
TON-MW2s	7/14/2017	10:23	6.28	95.27	0.17	0.01
TON-MW2s	8/23/2017	10:44	5.81	95.74	-0.07	-0.00
TON-MW2s	9/23/2017	14:03	8.01	93.54	<|0.05|	0
TON-MW2s	10/20/2017	11:57	8.05	93.50	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
TON-MW2s	11/16/2017	12:10	7.57	93.98	<|0.05|	0
TON-MW2s	12/31/2017	13:10	8.39	93.16	<|0.05|	0
TON-MW2s	1/22/2018	14:44	6.60	94.95	-0.18	-0.01
TON-MW2s	2/27/2018	13:08	6.63	94.92	-0.23	-0.01
TON-MW2s	3/1/2018		N/M			
TON-MW2s	4/25/2018	11:32	7.23	94.32	<|0.05|	0
TON-MW2s	5/15/2018	15:54	6.82	94.73	<|0.05|	0
TON-MW2s	6/14/2018	11:22	6.48	95.07	-0.19	-0.01
TON-MW2s	7/17/2018	11:54	6.96	94.59	-0.06	-0.00
TON-MW2s	8/17/2018	10:31	7.97	93.58	<|0.05|	0
TON-MW2s	9/12/2018	11:12	8.11	93.44	0.06	0.00
TON-MW2s	10/25/2018	14:52	8.28	93.27	0.23	0.01
TON-MW2s	11/14/2018	8:59	7.08	94.47	<|0.05|	0
TON-MW2s	12/14/2018	14:35	7.90	93.65	0.05	0.00
TON-MW2s	1/24/2019	15:15	6.80	94.75	0.12	0.01
TON-MW2s	3/1/2019	13:32	5.40	96.15	0.05	0.00
TON-MW2s	3/17/2019	14:40	5.06	96.49	<|0.05|	0
TON-MW2s	4/15/2019	10:53	5.33	96.22	<|0.05|	0
TON-MW2s	5/22/2019	11:04	4.72	96.83	<|0.05|	0
TON-MW2s	6/20/2019	11:26	5.68	95.87	0.07	0.00
TON-MW2s	7/17/2019	9:39	7.52	94.03	<|0.05|	0
TON-MW2s	8/21/2019	12:00	7.48	94.07	0.07	0.00
TON-MW2s	9/26/2019	11:00	7.57	93.98	0.10	0.01
TON-MW2s	10/25/2019	9:30	8.48	93.07	<|0.05|	0
TON-MW2s	11/14/2019	13:30	9.12	92.43	<|0.05|	0
TON-MW2s	12/13/2019	11:15	9.09	92.46	<|0.05|	0
TON-MW2d	1/30/2012	16:40	6.55	94.83		
TON-MW2d	2/10/2012	12:25	5.45	95.93		
TON-MW2d	3/5/2012	12:01	5.36	96.02		
TON-MW2d	4/9/2012	10:53	6.54	94.84		
TON-MW2d	5/10/2012	17:27	6.40	94.98		
TON-MW2d	6/20/2012	10:50	7.16	94.22		
TON-MW2d	7/9/2012	12:47	6.70	94.68		
TON-MW2d	8/16/2012	9:40	4.50	96.88		
TON-MW2d	9/20/2012	11:11	4.89	96.49		
TON-MW2d	10/19/2012	12:20	6.79	94.59		
TON-MW2d	12/6/2012	14:13	7.38	94.00		
TON-MW2d	12/31/2012	10:07	6.69	94.69		
TON-MW2d	1/15/2013	11:41	6.41	94.97		
TON-MW2d	2/18/2013	16:57	5.70	95.68		
TON-MW2d	3/22/2013	13:10	5.73	95.65		
TON-MW2d	4/17/2013	14:40	6.11	95.27		
TON-MW2d	5/29/2013	11:24	7.15	94.23		
TON-MW2d	6/18/2013	11:23	6.52	94.86		
TON-MW2d	7/15/2013	15:01	7.18	94.20		
TON-MW2d	8/22/2013	12:18	7.93	93.45		
TON-MW2d	9/9/2013	11:10	6.81	94.57		
TON-MW2d	10/7/2013	14:00	7.63	93.75		
TON-MW2d	11/13/2013	9:14	8.83	92.55		
TON-MW2d	12/17/2013	14:35	8.03	93.35		
TON-MW2d	1/14/2014	14:26	8.98	92.40		
TON-MW2d	2/19/2014	9:19	4.93	96.45		
TON-MW2d	3/17/2014	12:09	7.05	94.33		
TON-MW2d	4/19/2014	11:02	6.75	94.63		
TON-MW2d	5/23/2014	8:39	8.18	93.20		
TON-MW2d	6/20/2014	14:33	8.66	92.72		
TON-MW2d	7/16/2014	18:32	8.01	93.37		
TON-MW2d	8/27/2014	15:40	7.40	93.98		
TON-MW2d	9/19/2014	12:08	9.32	92.06		
TON-MW2d	10/14/2014	10:32	10.38	91.00		
TON-MW2d	11/12/2014	9:48	8.51	92.87		
TON-MW2d	12/15/2014	12:46	6.14	95.24		
TON-MW2d	1/13/2015	12:34	7.63	93.75		
TON-MW2d	2/10/2015	11:21	7.33	94.05		
TON-MW2d	3/13/2015	9:41	8.14	93.24		
TON-MW2d	4/17/2015	9:38	8.53	92.85		
TON-MW2d	5/13/2015	8:43	9.47	91.91		
TON-MW2d	6/4/2015	10:42	10.48	90.90		
TON-MW2d	7/20/2015	13:39	10.63	90.75		
TON-MW2d	8/17/2015	10:04	11.15	90.23		
TON-MW2d	9/14/2015	14:40	9.57	91.81		
TON-MW2d	10/16/2015	14:23	9.75	91.63		
TON-MW2d	11/19/2015	13:30	9.82	91.56		
TON-MW2d	12/31/2015	13:41	12.12	89.26		
TON-MW2d	1/16/2016	15:02	12.35	89.03		
TON-MW2d	2/25/2016	14:51	8.60	92.78		
TON-MW2d	3/19/2016	8:49	9.60	91.78		
TON-MW2d	4/18/2016	13:03	9.70	91.68		
TON-MW2d	5/17/2016	12:01	8.84	92.54		
TON-MW2d	6/17/2016	11:35	9.40	91.98		
TON-MW2d	7/22/2016	8:46	8.03	93.35		
TON-MW2d	8/15/2016	13:37	10.28	91.10		
TON-MW2d	9/16/2016	12:51	12.39	88.99		
TON-MW2d	10/14/2016	13:38	13.70	87.68		
TON-MW2d	11/22/2016	13:10	9.81	91.57		
TON-MW2d	12/13/2016	16:11	9.79	91.59		
TON-MW2d	1/26/2017	10:55	6.85	94.53		
TON-MW2d	2/1/2017		N/M			
TON-MW2d	3/14/2017	12:17	7.36	94.02		
TON-MW2d	4/21/2017	13:34	8.18	93.20		
TON-MW2d	5/17/2017	13:30	8.70	92.68		
TON-MW2d	6/23/2017	10:01	7.73	93.65		
TON-MW2d	7/14/2017	10:23	6.28	95.10		
TON-MW2d	8/23/2017	10:44	5.57	95.81		
TON-MW2d	9/23/2017	14:04	7.88	93.50		
TON-MW2d	10/20/2017	11:58	7.87	93.51		
TON-MW2d	11/16/2017	12:10	7.35	94.03		
TON-MW2d	12/31/2017	13:12	8.22	93.16		
TON-MW2d	1/22/2018	14:45	6.25	95.13		
TON-MW2d	2/27/2018	13:09	6.23	95.15		
TON-MW2d	3/1/2018		N/M			
TON-MW2d	4/25/2018	11:32	7.07	94.31		
TON-MW2d	5/15/2018	15:56	6.62	94.76		
TON-MW2d	6/14/2018	11:23	6.12	95.26		
TON-MW2d	7/17/2018	11:55	6.73	94.65		
TON-MW2d	8/17/2018	10:31	7.80	93.58		
TON-MW2d	9/12/2018	11:12	8.00	93.38		
TON-MW2d	10/25/2018	14:52	8.34	93.04		
TON-MW2d	11/14/2018	9:00	6.90	94.48		
TON-MW2d	12/14/2018	14:36	7.78	93.60		
TON-MW2d	1/24/2019	15:16	6.75	94.63		
TON-MW2d	3/1/2019	13:32	5.28	96.10		
TON-MW2d	3/17/2019	14:41	4.94	96.44		
TON-MW2d	4/15/2019	10:53	5.13	96.25		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
TON-MW2d	5/22/2019	11:04	4.58	96.80		
TON-MW2d	6/20/2019	11:26	5.58	95.80		
TON-MW2d	7/17/2019	9:39	7.40	93.98		
TON-MW2d	8/21/2019	12:00	7.38	94.00		
TON-MW2d	9/26/2019	11:00	7.50	93.88		
TON-MW2d	10/25/2019	9:30	8.35	93.03		
TON-MW2d	11/14/2019	13:30	8.98	92.40		
TON-MW2d	12/13/2019	11:15	8.95	92.43		
TON-MW3s	1/30/2012	16:44	9.83	100.45	<|0.05|	0
TON-MW3s	2/10/2012	13:41	8.13	102.15	<|0.05|	0
TON-MW3s	3/5/2012	11:58	9.58	100.70	<|0.05|	0
TON-MW3s	4/9/2012	10:38	9.44	100.84	<|0.05|	0
TON-MW3s	5/10/2012	16:35	10.77	99.51	<|0.05|	0
TON-MW3s	6/20/2012	10:38	12.63	97.65	<|0.05|	0
TON-MW3s	7/9/2012	12:56	13.60	96.68	<|0.05|	0
TON-MW3s	8/16/2012	10:18	15.75	94.53	<|0.05|	0
TON-MW3s	9/20/2012	11:07	16.01	94.27	<|0.05|	0
TON-MW3s	10/19/2012	12:14	13.11	97.17	<|0.05|	0
TON-MW3s	12/6/2012	14:05	11.32	98.96	<|0.05|	0
TON-MW3s	12/31/2012	9:48	9.17	101.11	<|0.05|	0
TON-MW3s	1/15/2013	11:30	8.97	101.31	<|0.05|	0
TON-MW3s	2/18/2013	17:02	8.10	102.18	<|0.05|	0
TON-MW3s	3/22/2013	13:18	11.75	98.53	<|0.05|	0
TON-MW3s	4/17/2013	14:47	10.75	99.53	<|0.05|	0
TON-MW3s	5/29/2013	11:39	14.38	95.90	<|0.05|	0
TON-MW3s	6/18/2013	11:37	16.78	93.50	<|0.05|	0
TON-MW3s	7/15/2013	14:45	16.69	93.59	<|0.05|	0
TON-MW3s	8/22/2013	12:14	15.77	94.51	<|0.05|	0
TON-MW3s	9/9/2013	11:04	15.45	94.83	<|0.05|	0
TON-MW3s	10/7/2013	13:53	13.66	96.62	<|0.05|	0
TON-MW3s	11/13/2013	9:27	15.78	94.50	<|0.05|	0
TON-MW3s	12/17/2013	14:30	12.83	97.45	<|0.05|	0
TON-MW3s	1/14/2014	14:18	10.73	99.55	<|0.05|	0
TON-MW3s	2/19/2014	9:25	12.78	97.50	<|0.05|	0
TON-MW3s	3/17/2014	12:26	11.97	98.31	<|0.05|	0
TON-MW3s	4/19/2014	11:14	11.81	98.47	<|0.05|	0
TON-MW3s	5/23/2014	8:46	18.18	92.10	<|0.05|	0
TON-MW3s	6/20/2014	14:16	19.54	90.74	<|0.05|	0
TON-MW3s	7/16/2014	18:24	22.11	88.17	<|0.05|	0
TON-MW3s	8/27/2014	15:57	21.78	88.50	0.17	0.01
TON-MW3s	9/19/2014	12:24	21.00	89.28	<|0.05|	0
TON-MW3s	10/14/2014	10:25	19.31	90.97	<|0.05|	0
TON-MW3s	11/12/2014	9:40	18.58	91.70	<|0.05|	0
TON-MW3s	12/15/2014	12:55	15.47	94.81	<|0.05|	0
TON-MW3s	1/13/2015	12:47	12.80	97.48	<|0.05|	0
TON-MW3s	2/10/2015	11:33	12.82	97.46	<|0.05|	0
TON-MW3s	3/13/2015	11:05	15.07	95.21	<|0.05|	0
TON-MW3s	4/17/2015	9:50	18.77	91.51	0.06	0.00
TON-MW3s	5/13/2015	8:51	22.14	88.14	1.98	0.11
TON-MW3s	6/4/2015	10:24	Dry			
TON-MW3s	7/20/2015	13:52	Dry			
TON-MW3s	8/17/2015	10:23	Dry			
TON-MW3s	9/14/2015	14:56	Dry			
TON-MW3s	10/16/2015	14:32	Dry			
TON-MW3s	11/19/2015	13:43	Dry			
TON-MW3s	12/31/2015	13:51	Dry			
TON-MW3s	1/16/2016	15:10	22.00	88.28	-0.50	-0.03
TON-MW3s	2/25/2016	14:46	19.94	90.34	<|0.05|	0
TON-MW3s	3/19/2016	8:37	18.89	91.39	<|0.05|	0
TON-MW3s	4/18/2016	13:14	18.64	91.64	<|0.05|	0
TON-MW3s	5/17/2016	12:22	19.26	91.02	<|0.05|	0
TON-MW3s	6/17/2016	11:42	Dry			
TON-MW3s	7/22/2016	8:35	Dry			
TON-MW3s	8/15/2016	13:44	Dry			
TON-MW3s	9/16/2016	12:59	Dry			
TON-MW3s	10/14/2016	13:45	Dry			
TON-MW3s	11/22/2016	13:16	22.33	87.95	0.07	0.00
TON-MW3s	12/13/2016	16:17	20.59	89.69	<|0.05|	0
TON-MW3s	1/26/2017	11:05	16.64	93.64	<|0.05|	0
TON-MW3s	2/1/2017		N/M			
TON-MW3s	3/14/2017	12:06	13.38	96.90	<|0.05|	0
TON-MW3s	4/21/2017	13:41	12.65	97.63	<|0.05|	0
TON-MW3s	5/17/2017	13:20	15.88	94.40	<|0.05|	0
TON-MW3s	6/23/2017	10:13	18.73	91.55	0.07	0.00
TON-MW3s	7/14/2017	10:31	21.88	88.40	-0.33	-0.02
TON-MW3s	8/23/2017	10:34	22.88	87.40	-0.35	-0.02
TON-MW3s	9/23/2017	14:11	20.46	89.82	<|0.05|	0
TON-MW3s	10/20/2017	12:04	17.23	93.05	<|0.05|	0
TON-MW3s	11/16/2017	11:55	16.06	94.22	<|0.05|	0
TON-MW3s	12/31/2017	13:20	12.08	98.20	<|0.05|	0
TON-MW3s	1/22/2018	14:54	10.84	99.44	<|0.05|	0
TON-MW3s	2/27/2018	13:02	13.45	96.83	<|0.05|	0
TON-MW3s	3/1/2018		N/M			
TON-MW3s	4/25/2018	11:23	12.32	97.96	0.06	0.00
TON-MW3s	5/15/2018	15:48	13.78	96.50	-0.06	-0.00
TON-MW3s	6/14/2018	11:11	15.58	94.70	<|0.05|	0
TON-MW3s	7/17/2018	12:04	18.98	91.30	0.28	0.02
TON-MW3s	8/17/2018	10:24	22.15	88.13	0.55	0.03
TON-MW3s	9/12/2018	11:29	21.10	89.18	<|0.05|	0
TON-MW3s	10/25/2018	15:02	20.47	89.81	<|0.05|	0
TON-MW3s	11/14/2018	8:52	17.02	93.26	2.27	0.13
TON-MW3s	12/14/2018	14:42	15.83	94.45	<|0.05|	0
TON-MW3s	1/24/2019	15:44	11.34	98.94	<|0.05|	0
TON-MW3s	3/1/2019	13:46	8.34	101.94	<|0.05|	0
TON-MW3s	3/17/2019	14:50	9.65	100.63	<|0.05|	0
TON-MW3s	4/15/2019	11:15	9.89	100.39	<|0.05|	0
TON-MW3s	5/22/2019	10:41	12.96	97.32	0.06	0.00
TON-MW3s	6/20/2019	11:38	15.32	94.96	0.06	0.00
TON-MW3s	7/17/2019	10:06	20.60	89.68	0.14	0.01
TON-MW3s	8/21/2019	12:20	Dry			
TON-MW3s	9/26/2019	11:14	18.22	92.06	<|0.05|	0
TON-MW3s	10/25/2019	9:42	15.52	94.76	<|0.05|	0
TON-MW3s	11/14/2019	13:35	15.24	95.04	<|0.05|	0
TON-MW3s	12/13/2019	11:26	15.28	95.00	<|0.05|	0
TON-MW3d	1/30/2012	16:45	9.75	100.43		
TON-MW3d	2/10/2012	13:42	8.01	102.17		
TON-MW3d	3/5/2012	11:57	9.50	100.68		
TON-MW3d	4/9/2012	10:39	9.35	100.83		
TON-MW3d	5/10/2012	16:35	10.69	99.49		
TON-MW3d	6/20/2012	10:39	12.55	97.63		
TON-MW3d	7/9/2012	12:56	13.52	96.66		
TON-MW3d	8/16/2012	10:19	15.65	94.53		
TON-MW3d	9/20/2012	11:07	15.94	94.24		
TON-MW3d	10/19/2012	12:14	13.03	97.15		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
TON-MW3d	12/6/2012	14:05	11.22	98.96		
TON-MW3d	12/31/2012	9:49	9.08	101.10		
TON-MW3d	1/15/2013	11:30	8.89	101.29		
TON-MW3d	2/18/2013	17:02	7.99	102.19		
TON-MW3d	3/22/2013	13:18	11.68	98.50		
TON-MW3d	4/17/2013	14:47	10.66	99.52		
TON-MW3d	5/29/2013	11:39	14.28	95.90		
TON-MW3d	6/18/2013	11:38	16.69	93.49		
TON-MW3d	7/15/2013	14:45	16.61	93.57		
TON-MW3d	8/22/2013	12:14	15.71	94.47		
TON-MW3d	9/9/2013	11:04	15.35	94.83		
TON-MW3d	10/7/2013	13:53	13.55	96.63		
TON-MW3d	11/13/2013	9:27	15.68	94.50		
TON-MW3d	12/17/2013	14:30	12.75	97.43		
TON-MW3d	1/14/2014	14:18	10.59	99.59		
TON-MW3d	2/19/2014	9:25	12.68	97.50		
TON-MW3d	3/17/2014	12:26	11.86	98.32		
TON-MW3d	4/19/2014	11:14	11.72	98.46		
TON-MW3d	5/23/2014	8:47	18.06	92.12		
TON-MW3d	6/20/2014	14:16	19.43	90.75		
TON-MW3d	7/16/2014	18:24	21.99	88.19		
TON-MW3d	8/27/2014	15:57	21.85	88.33		
TON-MW3d	9/19/2014	12:24	20.90	89.28		
TON-MW3d	10/14/2014	10:25	19.19	90.99		
TON-MW3d	11/12/2014	9:40	18.50	91.68		
TON-MW3d	12/15/2014	12:55	15.33	94.85		
TON-MW3d	1/13/2015	12:47	12.72	97.46		
TON-MW3d	2/10/2015	11:33	12.71	97.47		
TON-MW3d	3/13/2015	11:05	15.00	95.18		
TON-MW3d	4/17/2015	9:50	18.73	91.45		
TON-MW3d	5/13/2015	8:51	24.02	86.16		
TON-MW3d	6/4/2015	10:24	27.56	82.62		
TON-MW3d	7/20/2015	13:52	31.76	78.42		
TON-MW3d	8/17/2015	10:23	34.37	75.81		
TON-MW3d	9/14/2015	14:56	33.54	76.64		
TON-MW3d	10/16/2015	14:32	32.71	77.47		
TON-MW3d	11/19/2015	13:43	23.70	86.48		
TON-MW3d	12/31/2015	13:52	22.26	87.92		
TON-MW3d	1/16/2016	15:11	21.40	88.78		
TON-MW3d	2/25/2016	14:45	19.81	90.37		
TON-MW3d	3/19/2016	8:37	18.78	91.40		
TON-MW3d	4/18/2016	13:15	18.52	91.66		
TON-MW3d	5/17/2016	12:23	19.16	91.02		
TON-MW3d	6/17/2016	11:43	25.30	84.88		
TON-MW3d	7/22/2016	8:35	28.30	81.88		
TON-MW3d	8/15/2016	13:45	32.95	77.23		
TON-MW3d	9/16/2016	13:01	33.48	76.70		
TON-MW3d	10/14/2016	13:46	25.57	84.61		
TON-MW3d	11/22/2016	13:17	22.30	87.88		
TON-MW3d	12/13/2016	16:18	20.45	89.73		
TON-MW3d	1/26/2017	11:06	16.55	93.63		
TON-MW3d	2/1/2017		N/M			
TON-MW3d	3/14/2017	12:06	13.28	96.90		
TON-MW3d	4/21/2017	13:42	12.57	97.61		
TON-MW3d	5/17/2017	13:20	15.78	94.40		
TON-MW3d	6/23/2017	10:13	18.70	91.48		
TON-MW3d	7/14/2017	10:31	21.45	88.73		
TON-MW3d	8/23/2017	10:34	22.43	87.75		
TON-MW3d	9/23/2017	14:12	20.33	89.85		
TON-MW3d	10/20/2017	12:05	17.10	93.08		
TON-MW3d	11/16/2017	11:54	15.96	94.22		
TON-MW3d	12/31/2017	12:22	11.97	98.21		
TON-MW3d	1/22/2018	14:55	10.72	99.46		
TON-MW3d	2/27/2018	13:03	13.37	96.81		
TON-MW3d	3/1/2018		N/M			
TON-MW3d	4/25/2018	11:23	12.28	97.90		
TON-MW3d	5/15/2018	15:49	13.62	96.56		
TON-MW3d	6/14/2018	11:12	15.49	94.69		
TON-MW3d	7/17/2018	12:05	19.16	91.02		
TON-MW3d	8/17/2018	10:24	22.60	87.58		
TON-MW3d	9/12/2018	11:29	20.98	89.20		
TON-MW3d	10/25/2018	15:02	20.40	89.78		
TON-MW3d	11/14/2018	8:51	19.19	90.99		
TON-MW3d	12/14/2018	14:43	15.74	94.44		
TON-MW3d	1/24/2019	15:45	11.20	98.98		
TON-MW3d	3/1/2019	13:46	8.23	101.95		
TON-MW3d	3/17/2019	14:51	9.57	100.61		
TON-MW3d	4/15/2019	11:15	9.76	100.42		
TON-MW3d	5/22/2019	10:41	12.92	97.26		
TON-MW3d	6/20/2019	11:38	15.28	94.90		
TON-MW3d	7/17/2019	10:06	20.64	89.54		
TON-MW3d	8/21/2019	12:20	24.55	85.63		
TON-MW3d	9/26/2019	11:14	18.12	92.06		
TON-MW3d	10/25/2019	9:42	15.42	94.76		
TON-MW3d	11/14/2019	13:35	15.17	95.01		
TON-MW3d	12/13/2019	11:26	15.19	94.99		
TON-MW4s	1/30/2012	16:47	8.98	98.56	<|0.05|	0
TON-MW4s	2/10/2012	13:02	9.26	98.28	<|0.05|	0
TON-MW4s	3/5/2012	11:49	8.82	98.72	<|0.05|	0
TON-MW4s	4/9/2012	10:29	8.88	98.66	<|0.05|	0
TON-MW4s	5/10/2012	16:13	9.75	97.79	<|0.05|	0
TON-MW4s	6/20/2012	10:31	15.03	92.51	<|0.05|	0
TON-MW4s	7/9/2012	12:40	16.28	91.26	<|0.05|	0
TON-MW4s	8/16/2012	10:14	17.92	89.62	<|0.05|	0
TON-MW4s	9/20/2012	10:58	18.11	89.43	0.18	0.01
TON-MW4s	10/19/2012	12:10	14.51	93.03	<|0.05|	0
TON-MW4s	12/6/2012	14:00	12.81	94.73	<|0.05|	0
TON-MW4s	12/31/2012	9:55	9.95	97.59	<|0.05|	0
TON-MW4s	1/15/2013	11:22	9.03	98.51	<|0.05|	0
TON-MW4s	2/18/2013	17:07	8.52	99.02	<|0.05|	0
TON-MW4s	3/22/2013	13:25	10.72	96.82	<|0.05|	0
TON-MW4s	4/17/2013	14:32	10.78	96.76	<|0.05|	0
TON-MW4s	5/29/2013	11:45	13.45	94.09	<|0.05|	0
TON-MW4s	6/18/2013	11:29	17.70	89.84	<|0.05|	0
TON-MW4s	7/15/2013	14:54	18.90	88.64	<|0.05|	0
TON-MW4s	8/22/2013	12:04	18.18	89.36	<|0.05|	0
TON-MW4s	9/9/2013	10:47	17.10	90.44	-0.09	-0.00
TON-MW4s	10/7/2013	13:44	15.02	92.52	<|0.05|	0
TON-MW4s	11/13/2013	9:33	17.25	90.29	<|0.05|	0
TON-MW4s	12/17/2013	14:15	14.28	93.26	<|0.05|	0
TON-MW4s	1/14/2014	14:34	13.34	94.20	<|0.05|	0
TON-MW4s	2/19/2014	9:40	12.88	94.66	<|0.05|	0
TON-MW4s	3/17/2014	12:18	12.40	95.14	<|0.05|	0
TON-MW4s	4/19/2014	11:09	11.59	95.95	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
TON-MW4s	5/23/2014	8:50	17.84	89.70	<|0.05|	0
TON-MW4s	6/20/2014	14:05	21.92	85.62	<|0.05|	0
TON-MW4s	7/16/2014	18:12	Dry			
TON-MW4s	8/27/2014	15:47	Dry			
TON-MW4s	9/19/2014	12:16	Dry			
TON-MW4s	10/14/2014	10:11	21.53	86.01	<|0.05|	0
TON-MW4s	11/12/2014	9:30	21.13	86.41	0.11	0.01
TON-MW4s	12/15/2014	12:39	16.92	90.62	<|0.05|	0
TON-MW4s	1/13/2015	12:40	15.15	92.39	<|0.05|	0
TON-MW4s	2/10/2015	11:37	14.78	92.76	<|0.05|	0
TON-MW4s	3/13/2015	11:11	15.52	92.02	0.29	0.02
TON-MW4s	4/17/2015	9:55	17.20	90.34	<|0.05|	0
TON-MW4s	5/13/2015	9:00	Dry			
TON-MW4s	6/4/2015	10:19	Dry			
TON-MW4s	7/20/2015	13:58	Dry			
TON-MW4s	8/17/2015	10:30	Dry			
TON-MW4s	9/14/2015	15:01	Dry			
TON-MW4s	10/16/2015	14:37	Dry			
TON-MW4s	11/19/2015	13:49	Dry			
TON-MW4s	12/31/2015	14:00	Dry			
TON-MW4s	1/16/2016	14:50	21.34	86.20	<|0.05|	0
TON-MW4s	2/25/2016	14:43	20.35	87.19	<|0.05|	0
TON-MW4s	3/19/2016	8:24	18.82	88.72	<|0.05|	0
TON-MW4s	4/18/2016	12:54	17.96	89.58	0.09	0.00
TON-MW4s	5/17/2016	12:27	19.00	88.54	1.00	0.06
TON-MW4s	6/17/2016	11:47	Dry			
TON-MW4s	7/22/2016	8:26	Dry			
TON-MW4s	8/15/2016	13:28	Dry			
TON-MW4s	9/16/2016	12:44	Dry			
TON-MW4s	10/14/2016	13:29	Dry			
TON-MW4s	11/22/2016	13:03	Dry			
TON-MW4s	12/13/2016	16:21	21.71	85.83	<|0.05|	0
TON-MW4s	1/26/2017	10:47	17.22	90.32	<|0.05|	0
TON-MW4s	2/1/2017		N/M			
TON-MW4s	3/14/2017	12:02	14.47	93.07	<|0.05|	0
TON-MW4s	4/21/2017	13:46	13.19	94.35	<|0.05|	0
TON-MW4s	5/17/2017	13:17	13.73	93.81	<|0.05|	0
TON-MW4s	6/23/2017	10:28	16.61	90.93	<|0.05|	0
TON-MW4s	7/14/2017	10:39	19.19	88.35	-0.05	-0.00
TON-MW4s	8/23/2017	10:38	18.60	88.94	-0.06	-0.00
TON-MW4s	9/23/2017	14:16	17.44	90.10	<|0.05|	0
TON-MW4s	10/20/2017	11:52	15.66	91.88	<|0.05|	0
TON-MW4s	11/16/2017	11:52	14.82	92.72	<|0.05|	0
TON-MW4s	12/31/2017	13:27	10.20	97.34	1.93	0.11
TON-MW4s	1/22/2018	15:01	9.03	98.51	<|0.05|	0
TON-MW4s	2/27/2018	13:00	11.50	96.04	<|0.05|	0
TON-MW4s	3/1/2018		N/M			
TON-MW4s	4/25/2018	11:13	10.30	97.24	<|0.05|	0
TON-MW4s	5/15/2018	16:03	11.57	95.97	<|0.05|	0
TON-MW4s	6/14/2018	11:01	13.19	94.35	<|0.05|	0
TON-MW4s	7/17/2018	11:46	16.78	90.76	<|0.05|	0
TON-MW4s	8/17/2018	10:15	19.23	88.31	<|0.05|	0
TON-MW4s	9/12/2018	11:20	16.85	90.69	<|0.05|	0
TON-MW4s	10/25/2018	14:59	17.52	90.02	<|0.05|	0
TON-MW4s	11/14/2018	9:07	17.02	90.52	<|0.05|	0
TON-MW4s	12/14/2018	14:47	14.58	92.96	<|0.05|	0
TON-MW4s	1/24/2019	15:49	10.55	96.99	<|0.05|	0
TON-MW4s	3/1/2019	13:36	6.99	100.55	<|0.05|	0
TON-MW4s	3/17/2019	14:55	7.57	99.97	<|0.05|	0
TON-MW4s	4/15/2019	11:03	8.18	99.36	<|0.05|	0
TON-MW4s	5/22/2019	10:49	10.82	96.72	<|0.05|	0
TON-MW4s	6/20/2019	11:33	12.85	94.69	<|0.05|	0
TON-MW4s	7/17/2019	9:48	17.05	90.49	<|0.05|	0
TON-MW4s	8/21/2019	12:09	21.60	85.94	<|0.05|	0
TON-MW4s	9/26/2019	11:07	16.85	90.69	<|0.05|	0
TON-MW4s	10/25/2019	9:37	14.90	92.64	<|0.05|	0
TON-MW4s	11/14/2019	13:38	15.42	92.12	<|0.05|	0
TON-MW4s	12/13/2019	11:21	15.55	91.99	0.08	0.00
TON-MW4d	1/30/2012	16:50	8.68	98.57		
TON-MW4d	2/10/2012	13:03	8.92	98.33		
TON-MW4d	3/5/2012	11:48	8.52	98.73		
TON-MW4d	4/9/2012	10:30	8.60	98.65		
TON-MW4d	5/10/2012	16:14	9.45	97.80		
TON-MW4d	6/20/2012	10:32	14.72	92.53		
TON-MW4d	7/9/2012	12:39	16.00	91.25		
TON-MW4d	8/16/2012	10:15	17.62	89.63		
TON-MW4d	9/20/2012	10:58	18.00	89.25		
TON-MW4d	10/19/2012	12:10	14.22	93.03		
TON-MW4d	12/6/2012	14:00	12.47	94.78		
TON-MW4d	12/31/2012	9:56	9.65	97.60		
TON-MW4d	1/15/2013	11:22	8.77	98.48		
TON-MW4d	2/18/2013	17:07	8.23	99.02		
TON-MW4d	3/22/2013	13:25	10.45	96.80		
TON-MW4d	4/17/2013	14:32	10.46	96.79		
TON-MW4d	5/29/2013	11:45	13.18	94.07		
TON-MW4d	6/18/2013	11:30	17.38	89.87		
TON-MW4d	7/15/2013	14:54	18.62	88.63		
TON-MW4d	8/22/2013	12:04	17.88	89.37		
TON-MW4d	9/9/2013	10:47	16.72	90.53		
TON-MW4d	10/7/2013	13:44	14.72	92.53		
TON-MW4d	11/13/2013	9:33	16.95	90.30		
TON-MW4d	12/17/2013	14:15	14.00	93.25		
TON-MW4d	1/14/2014	14:34	13.05	94.20		
TON-MW4d	2/19/2014	9:40	12.60	94.65		
TON-MW4d	3/17/2014	12:18	12.13	95.12		
TON-MW4d	4/19/2014	11:09	11.30	95.95		
TON-MW4d	5/23/2014	8:50	17.58	89.67		
TON-MW4d	6/20/2014	14:05	21.63	85.62		
TON-MW4d	7/16/2014	18:12	24.20	83.05		
TON-MW4d	8/27/2014	15:47	27.98	79.27		
TON-MW4d	9/19/2014	12:16	23.83	83.42		
TON-MW4d	10/14/2014	10:11	21.23	86.02		
TON-MW4d	11/12/2014	9:30	20.95	86.30		
TON-MW4d	12/15/2014	12:39	16.62	90.63		
TON-MW4d	1/13/2015	12:40	14.83	92.42		
TON-MW4d	2/10/2015	11:37	14.48	92.77		
TON-MW4d	3/13/2015	11:11	15.52	91.73		
TON-MW4d	4/17/2015	9:55	16.90	90.35		
TON-MW4d	5/13/2015	9:00	23.93	83.32		
TON-MW4d	6/4/2015	10:19	27.90	79.35		
TON-MW4d	7/20/2015	13:58	32.69	74.56		
TON-MW4d	8/17/2015	10:30	33.90	73.35		
TON-MW4d	9/14/2015	15:01	32.97	74.28		
TON-MW4d	10/16/2015	14:37	30.95	76.30		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
TON-MW4d	11/19/2015	13:49	25.45	81.80		
TON-MW4d	12/31/2015	14:01	22.22	85.03		
TON-MW4d	1/16/2016	14:51	21.08	86.17		
TON-MW4d	2/25/2016	14:42	20.06	87.19		
TON-MW4d	3/19/2016	8:24	18.50	88.75		
TON-MW4d	4/18/2016	12:55	17.76	89.49		
TON-MW4d	5/17/2016	12:28	19.71	87.54		
TON-MW4d	6/17/2016	11:48	25.75	81.50		
TON-MW4d	7/22/2016	8:26	33.43	73.82		
TON-MW4d	8/15/2016	13:29	33.86	73.39		
TON-MW4d	9/16/2016	12:45	30.94	76.31		
TON-MW4d	10/14/2016	13:30	27.33	79.92		
TON-MW4d	11/22/2016	13:04	23.30	83.95		
TON-MW4d	12/13/2016	16:22	21.40	85.85		
TON-MW4d	1/26/2017	10:48	16.90	90.35		
TON-MW4d	2/1/2017		N/M			
TON-MW4d	3/14/2017	12:02	14.18	93.07		
TON-MW4d	4/21/2017	13:47	12.91	94.34		
TON-MW4d	5/17/2017	13:17	13.45	93.80		
TON-MW4d	6/23/2017	10:28	16.34	90.91		
TON-MW4d	7/14/2017	10:39	18.85	88.40		
TON-MW4d	8/23/2017	10:38	18.25	89.00		
TON-MW4d	9/23/2017	14:17	17.15	90.10		
TON-MW4d	10/20/2017	11:53	15.38	91.87		
TON-MW4d	11/16/2017	11:52	14.53	92.72		
TON-MW4d	12/31/2017	13:28	11.84	95.41		
TON-MW4d	1/22/2018	15:00	8.75	98.50		
TON-MW4d	2/27/2018	13:00	11.20	96.05		
TON-MW4d	3/1/2018		N/M			
TON-MW4d	4/25/2018	11:13	9.97	97.28		
TON-MW4d	5/15/2018	16:04	11.27	95.98		
TON-MW4d	6/14/2018	11:02	12.89	94.36		
TON-MW4d	7/17/2018	11:47	16.46	90.79		
TON-MW4d	8/17/2018	10:15	18.92	88.33		
TON-MW4d	9/12/2018	11:20	16.52	90.73		
TON-MW4d	10/25/2018	14:59	17.20	90.05		
TON-MW4d	11/14/2018	9:07	16.68	90.57		
TON-MW4d	12/14/2018	14:48	14.26	92.99		
TON-MW4d	1/24/2019	15:50	10.25	97.00		
TON-MW4d	3/1/2019	13:36	6.72	100.53		
TON-MW4d	3/17/2019	14:56	7.30	99.95		
TON-MW4d	4/15/2019	11:03	7.90	99.35		
TON-MW4d	5/22/2019	10:49	10.52	96.73		
TON-MW4d	6/20/2019	11:33	12.54	94.71		
TON-MW4d	7/17/2019	9:48	16.72	90.53		
TON-MW4d	8/21/2019	12:09	21.28	85.97		
TON-MW4d	9/26/2019	11:07	16.55	90.70		
TON-MW4d	10/25/2019	9:37	14.62	92.63		
TON-MW4d	11/14/2019	13:38	15.12	92.13		
TON-MW4d	12/13/2019	11:21	15.34	91.91		
TON-MW5s	1/30/2012	16:52	8.65	99.21	-0.09	-0.00
TON-MW5s	2/10/2012	13:20	8.67	99.19	<|0.05|	0
TON-MW5s	3/5/2012	11:54	7.98	99.88	<|0.05|	0
TON-MW5s	4/9/2012	10:45	8.37	99.49	<|0.05|	0
TON-MW5s	5/10/2012	16:52	9.60	98.26	<|0.05|	0
TON-MW5s	6/20/2012	10:42	13.33	94.53	<|0.05|	0
TON-MW5s	7/9/2012	12:53	13.20	94.66	<|0.05|	0
TON-MW5s	8/16/2012	10:23	12.96	94.90	<|0.05|	0
TON-MW5s	9/20/2012	11:01	13.13	94.73	<|0.05|	0
TON-MW5s	10/19/2012	12:12	11.45	96.41	<|0.05|	0
TON-MW5s	12/6/2012	14:09	11.43	96.43	<|0.05|	0
TON-MW5s	12/31/2012	9:52	9.47	98.39	<|0.05|	0
TON-MW5s	1/15/2013	11:33	8.83	99.03	<|0.05|	0
TON-MW5s	2/18/2013	16:59	8.46	99.40	<|0.05|	0
TON-MW5s	3/22/2013	13:14	9.54	98.32	<|0.05|	0
TON-MW5s	4/17/2013	14:43	9.68	98.18	<|0.05|	0
TON-MW5s	5/29/2013	11:33	13.70	94.16	<|0.05|	0
TON-MW5s	6/18/2013	11:33	15.50	92.36	<|0.05|	0
TON-MW5s	7/15/2013	14:49	15.11	92.75	<|0.05|	0
TON-MW5s	8/22/2013	12:11	15.94	91.92	<|0.05|	0
TON-MW5s	9/9/2013	10:55	14.30	93.56	<|0.05|	0
TON-MW5s	10/7/2013	13:48	12.56	95.30	<|0.05|	0
TON-MW5s	11/13/2013	9:22	15.66	92.20	<|0.05|	0
TON-MW5s	12/17/2013	14:25	12.85	95.01	<|0.05|	0
TON-MW5s	1/14/2014	14:22	11.92	95.94	<|0.05|	0
TON-MW5s	2/19/2014	9:21	11.35	96.51	<|0.05|	0
TON-MW5s	3/17/2014	12:22	11.88	95.98	<|0.05|	0
TON-MW5s	4/19/2014	11:17	10.63	97.23	<|0.05|	0
TON-MW5s	5/23/2014	8:42	16.02	91.84	<|0.05|	0
TON-MW5s	6/20/2014	14:13	18.19	89.67	<|0.05|	0
TON-MW5s	7/16/2014	18:17	19.96	87.90	<|0.05|	0
TON-MW5s	8/27/2014	15:52	Dry			
TON-MW5s	9/19/2014	12:21	18.42	89.44	<|0.05|	0
TON-MW5s	10/14/2014	10:21	18.37	89.49	<|0.05|	0
TON-MW5s	11/12/2014	9:36	18.12	89.74	<|0.05|	0
TON-MW5s	12/15/2014	12:51	13.71	94.15	<|0.05|	0
TON-MW5s	1/13/2015	12:47	12.65	95.21	<|0.05|	0
TON-MW5s	2/10/2015	11:30	13.12	94.74	<|0.05|	0
TON-MW5s	3/13/2015	10:56	13.52	94.34	<|0.05|	0
TON-MW5s	4/17/2015	9:46	15.78	92.08	<|0.05|	0
TON-MW5s	5/13/2015	8:55	21.65	86.21	<|0.05|	0
TON-MW5s	6/4/2015	10:30	Dry			
TON-MW5s	7/20/2015	13:47	Dry			
TON-MW5s	8/17/2015	10:18	Dry			
TON-MW5s	9/14/2015	14:51	Dry			
TON-MW5s	10/16/2015	14:28	21.40	86.46	<|0.05|	0
TON-MW5s	11/19/2015	13:39	21.42	86.44	<|0.05|	0
TON-MW5s	12/31/2015	13:40	20.25	87.61	<|0.05|	0
TON-MW5s	1/16/2016	15:06	19.61	88.25	<|0.05|	0
TON-MW5s	2/25/2016	14:48	16.82	91.04	<|0.05|	0
TON-MW5s	3/19/2016	8:29	16.63	91.23	<|0.05|	0
TON-MW5s	4/18/2016	13:09	16.00	91.86	<|0.05|	0
TON-MW5s	5/17/2016	12:15	15.83	92.03	-0.32	-0.02
TON-MW5s	6/17/2016	11:38	Dry			
TON-MW5s	7/22/2016	8:31	Dry			
TON-MW5s	8/15/2016	13:41	Dry			
TON-MW5s	9/16/2016	12:56	Dry			
TON-MW5s	10/14/2016	13:41	Dry			
TON-MW5s	11/22/2016	13:12	18.65	89.21	<|0.05|	0
TON-MW5s	12/13/2016	16:13	18.11	89.75	<|0.05|	0
TON-MW5s	1/26/2017	10:59	13.16	94.70	<|0.05|	0
TON-MW5s	2/1/2017		N/M			
TON-MW5s	3/14/2017	12:10	12.19	95.67	<|0.05|	0
TON-MW5s	4/21/2017	13:38	11.65	96.21	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
TON-MW5s	5/17/2017	13:24	14.65	93.21	<|0.05|	0
TON-MW5s	6/23/2017	10:16	16.48	91.38	<|0.05|	0
TON-MW5s	7/14/2017	10:35	15.35	92.51	<|0.05|	0
TON-MW5s	8/23/2017	10:36	17.45	90.41	<|0.05|	0
TON-MW5s	9/23/2017	14:07	16.57	91.29	-0.06	-0.00
TON-MW5s	10/20/2017	12:01	15.39	92.47	<|0.05|	0
TON-MW5s	11/16/2017	12:12	12.69	95.17	<|0.05|	0
TON-MW5s	12/31/2017	13:15	11.47	96.39	<|0.05|	0
TON-MW5s	1/22/2018	14:49	8.35	99.51	<|0.05|	0
TON-MW5s	2/27/2018	13:05	12.13	95.73	<|0.05|	0
TON-MW5s	3/1/2018		N/M			
TON-MW5s	4/25/2018	11:17	10.84	97.02	<|0.05|	0
TON-MW5s	5/15/2018	15:51	11.04	96.82	<|0.05|	0
TON-MW5s	6/14/2018	11:06	11.02	96.84	<|0.05|	0
TON-MW5s	7/17/2018	11:59	15.53	92.33	-0.99	-0.06
TON-MW5s	8/17/2018	10:27	17.33	90.53	<|0.05|	0
TON-MW5s	9/12/2018	11:24	17.83	90.03	<|0.05|	0
TON-MW5s	10/25/2018	15:06	18.17	89.69	-0.11	-0.01
TON-MW5s	11/14/2018	8:56	15.14	92.72	<|0.05|	0
TON-MW5s	12/14/2018	14:38	13.35	94.51	<|0.05|	0
TON-MW5s	1/24/2019	15:38	10.34	97.52	<|0.05|	0
TON-MW5s	3/1/2019	13:39	7.36	100.50	<|0.05|	0
TON-MW5s	3/17/2019	14:46	7.87	99.99	<|0.05|	0
TON-MW5s	4/15/2019	11:20	8.86	99.00	<|0.05|	0
TON-MW5s	5/22/2019	10:45	10.42	97.44	<|0.05|	0
TON-MW5s	6/20/2019	11:41	11.13	96.73	<|0.05|	0
TON-MW5s	7/17/2019	10:02	17.06	90.80	-0.08	-0.00
TON-MW5s	8/21/2019	12:14	19.03	88.83	<|0.05|	0
TON-MW5s	9/26/2019	11:11	16.63	91.23	<|0.05|	0
TON-MW5s	10/25/2019	9:46	14.45	93.41	<|0.05|	0
TON-MW5s	11/14/2019	13:33	14.69	93.17	<|0.05|	0
TON-MW5s	12/13/2019	11:23	14.77	93.09	<|0.05|	0
TON-MW5d	1/30/2012	16:55	8.48	99.30		
TON-MW5d	2/10/2012	13:21	8.59	99.19		
TON-MW5d	3/5/2012	11:53	7.88	99.90		
TON-MW5d	4/9/2012	10:46	8.25	99.53		
TON-MW5d	5/10/2012	16:55	9.50	98.28		
TON-MW5d	6/20/2012	10:43	13.27	94.51		
TON-MW5d	7/9/2012	12:52	13.11	94.67		
TON-MW5d	8/16/2012	10:24	12.88	94.90		
TON-MW5d	9/20/2012	11:01	13.04	94.74		
TON-MW5d	10/19/2012	12:12	11.38	96.40		
TON-MW5d	12/6/2012	14:09	11.35	96.43		
TON-MW5d	12/31/2012	9:53	9.38	98.40		
TON-MW5d	1/15/2013	11:33	8.74	99.04		
TON-MW5d	2/18/2013	16:59	8.38	99.40		
TON-MW5d	3/22/2013	13:14	9.44	98.34		
TON-MW5d	4/17/2013	14:43	9.57	98.21		
TON-MW5d	5/29/2013	11:33	13.63	94.15		
TON-MW5d	6/18/2013	11:34	15.40	92.38		
TON-MW5d	7/15/2013	14:49	15.07	92.71		
TON-MW5d	8/22/2013	12:11	15.83	91.95		
TON-MW5d	9/9/2013	10:55	14.25	93.53		
TON-MW5d	10/7/2013	13:48	12.48	95.30		
TON-MW5d	11/13/2013	9:22	15.58	92.20		
TON-MW5d	12/17/2013	14:25	12.78	95.00		
TON-MW5d	1/14/2014	14:22	11.83	95.95		
TON-MW5d	2/19/2014	9:21	11.28	96.50		
TON-MW5d	3/17/2014	12:22	11.81	95.97		
TON-MW5d	4/19/2014	11:17	10.59	97.19		
TON-MW5d	5/23/2014	8:42	15.95	91.83		
TON-MW5d	6/20/2014	14:13	18.11	89.67		
TON-MW5d	7/16/2014	18:17	19.85	87.93		
TON-MW5d	8/27/2014	15:52	21.70	86.08		
TON-MW5d	9/19/2014	12:21	18.33	89.45		
TON-MW5d	10/14/2014	10:21	18.30	89.48		
TON-MW5d	11/12/2014	9:36	18.03	89.75		
TON-MW5d	12/15/2014	12:51	13.60	94.18		
TON-MW5d	1/13/2015	12:47	12.53	95.25		
TON-MW5d	2/10/2015	11:30	13.03	94.75		
TON-MW5d	3/13/2015	10:56	13.43	94.35		
TON-MW5d	4/17/2015	9:46	15.68	92.10		
TON-MW5d	5/13/2015	8:55	21.60	86.18		
TON-MW5d	6/4/2015	10:30	23.88	83.90		
TON-MW5d	7/20/2015	13:47	29.24	78.54		
TON-MW5d	8/17/2015	10:18	29.29	78.49		
TON-MW5d	9/14/2015	14:51	27.35	80.43		
TON-MW5d	10/16/2015	14:28	21.33	86.45		
TON-MW5d	11/19/2015	13:39	21.32	86.46		
TON-MW5d	12/31/2015	13:47	20.15	87.63		
TON-MW5d	1/16/2016	15:07	19.53	88.25		
TON-MW5d	2/25/2016	14:47	16.70	91.08		
TON-MW5d	3/19/2016	8:29	16.52	91.26		
TON-MW5d	4/18/2016	13:10	15.91	91.87		
TON-MW5d	5/17/2016	12:16	15.43	92.35		
TON-MW5d	6/17/2016	11:39	21.86	85.92		
TON-MW5d	7/22/2016	8:31	25.90	81.88		
TON-MW5d	8/15/2016	13:42	29.55	78.23		
TON-MW5d	9/16/2016	12:57	27.58	80.20		
TON-MW5d	10/14/2016	13:42	24.00	83.78		
TON-MW5d	11/22/2016	13:13	18.54	89.24		
TON-MW5d	12/13/2016	16:14	18.02	89.76		
TON-MW5d	1/26/2017	11:00	13.09	94.69		
TON-MW5d	2/1/2017		N/M			
TON-MW5d	3/14/2017	12:10	12.12	95.66		
TON-MW5d	4/21/2017	13:39	11.55	96.23		
TON-MW5d	5/17/2017	13:24	14.57	93.21		
TON-MW5d	6/23/2017	10:16	16.37	91.41		
TON-MW5d	7/14/2017	10:35	15.25	92.53		
TON-MW5d	8/23/2017	10:36	17.35	90.43		
TON-MW5d	9/23/2017	14:08	16.43	91.35		
TON-MW5d	10/20/2017	12:02	15.29	92.49		
TON-MW5d	11/16/2017	12:13	12.58	95.20		
TON-MW5d	12/31/2017	13:16	11.39	96.39		
TON-MW5d	1/22/2018	14:50	8.26	99.52		
TON-MW5d	2/27/2018	13:05	12.01	95.77		
TON-MW5d	3/1/2018		N/M			
TON-MW5d	4/25/2018	11:17	10.78	97.00		
TON-MW5d	5/15/2018	15:52	10.93	96.85		
TON-MW5d	6/14/2018	11:07	10.95	96.83		
TON-MW5d	7/17/2018	11:59	14.46	93.32		
TON-MW5d	8/17/2018	10:27	17.22	90.56		
TON-MW5d	9/12/2018	11:24	17.75	90.03		
TON-MW5d	10/25/2018	15:06	17.98	89.80		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
TON-MW5d	11/14/2018	8:55	15.03	92.75		
TON-MW5d	12/14/2018	14:39	13.27	94.51		
TON-MW5d	1/24/2019	15:39	10.24	97.54		
TON-MW5d	3/1/2019	13:39	7.26	100.52		
TON-MW5d	3/17/2019	14:47	7.77	100.01		
TON-MW5d	4/15/2019	11:20	8.78	99.00		
TON-MW5d	5/22/2019	10:45	10.29	97.49		
TON-MW5d	6/20/2019	11:41	11.02	96.76		
TON-MW5d	7/17/2019	10:02	16.90	90.88		
TON-MW5d	8/21/2019	12:14	18.93	88.85		
TON-MW5d	9/26/2019	11:11	16.53	91.25		
TON-MW5d	10/25/2019	9:46	14.35	93.43		
TON-MW5d	11/14/2019	13:33	14.61	93.17		
TON-MW5d	12/13/2019	11:23	14.73	93.05		
TON-MW6s	1/30/2012	16:55	9.00	89.66	-0.21	-0.01
TON-MW6s	2/10/2012	11:00	8.33	90.33	0.06	0.00
TON-MW6s	3/5/2012	12:09	9.80	88.86	-0.25	-0.01
TON-MW6s	4/9/2012	10:15	9.97	88.69	-0.28	-0.01
TON-MW6s	5/10/2012	17:46	8.99	89.67	-0.17	-0.01
TON-MW6s	6/20/2012	10:18	8.23	90.43	0.15	0.01
TON-MW6s	7/9/2012	13:02	7.42	91.24	0.62	0.03
TON-MW6s	8/16/2012	9:49	8.70	89.96	0.29	0.01
TON-MW6s	9/20/2012	11:19	8.98	89.68	0.26	0.01
TON-MW6s	10/19/2012	12:29	10.58	88.08	-0.06	-0.00
TON-MW6s	12/6/2012	14:20	10.96	87.70	-0.19	-0.01
TON-MW6s	12/31/2012	10:10	10.58	88.08	-0.23	-0.01
TON-MW6s	1/15/2013	11:47	10.55	88.11	-0.23	-0.01
TON-MW6s	2/18/2013	16:52	10.65	88.01	-0.28	-0.01
TON-MW6s	3/22/2013	13:07	9.75	88.91	-0.26	-0.01
TON-MW6s	4/17/2013	14:12	8.21	90.45	0.15	0.01
TON-MW6s	5/29/2013	11:18	10.32	88.34	<|0.05|	0
TON-MW6s	6/18/2013	11:18	10.10	88.56	0.24	0.01
TON-MW6s	7/15/2013	15:06	10.69	87.97	0.22	0.01
TON-MW6s	8/22/2013	12:24	8.94	89.72	0.21	0.01
TON-MW6s	9/9/2013	11:15	10.87	87.79	0.22	0.01
TON-MW6s	10/7/2013	14:05	10.00	88.66	0.11	0.01
TON-MW6s	11/13/2013	9:11	9.80	88.86	0.49	0.02
TON-MW6s	12/17/2013	14:41	11.39	87.27	-0.17	-0.01
TON-MW6s	1/14/2014	14:39	11.41	87.25	-0.18	-0.01
TON-MW6s	2/19/2014	9:14	9.59	89.07	0.11	0.01
TON-MW6s	3/17/2014	12:03	10.83	87.83	-0.17	-0.01
TON-MW6s	4/19/2014	11:22	9.23	89.43	0.32	0.02
TON-MW6s	5/23/2014	9:00	6.62	92.04	0.68	0.03
TON-MW6s	6/20/2014	14:27	10.04	88.62	0.51	0.02
TON-MW6s	7/16/2014	18:36	11.75	86.91	0.58	0.03
TON-MW6s	8/27/2014	15:34	9.63	89.03	0.91	0.04
TON-MW6s	9/19/2014	11:59	9.22	89.44	0.67	0.03
TON-MW6s	10/14/2014	10:40	12.72	85.94	0.18	0.01
TON-MW6s	11/12/2014	9:49	12.20	86.46	0.18	0.01
TON-MW6s	12/15/2014	13:05	9.80	88.86	0.14	0.01
TON-MW6s	1/13/2015	12:29	11.71	86.95	-0.06	-0.00
TON-MW6s	2/10/2015	11:16	11.78	86.88	-0.05	-0.00
TON-MW6s	3/13/2015	9:34	9.60	89.06	0.29	0.01
TON-MW6s	4/17/2015	9:32	11.11	87.55	0.06	0.00
TON-MW6s	5/13/2015	8:38	9.55	89.11	0.86	0.04
TON-MW6s	6/4/2015	10:47	9.44	89.22	-0.15	-0.01
TON-MW6s	7/20/2015	14:10	12.63	86.03	0.59	0.03
TON-MW6s	8/17/2015	9:58	13.09	85.57	0.71	0.03
TON-MW6s	9/14/2015	14:33	10.89	87.77	0.98	0.05
TON-MW6s	10/16/2015	14:16	10.46	88.20	0.65	0.03
TON-MW6s	11/19/2015	13:55	13.31	85.35	0.24	0.01
TON-MW6s	12/31/2015	14:10	12.57	86.09	-0.29	-0.01
TON-MW6s	1/16/2016	15:18	12.80	85.86	0.13	0.01
TON-MW6s	2/25/2016	14:57	11.52	87.14	0.15	0.01
TON-MW6s	3/19/2016	8:54	11.98	86.68	0.08	0.00
TON-MW6s	4/18/2016	13:20	11.91	86.75	0.12	0.01
TON-MW6s	5/17/2016	11:52	11.72	86.94	0.12	0.01
TON-MW6s	6/17/2016	11:28	10.90	87.76	1.29	0.06
TON-MW6s	7/22/2016	8:54	9.84	88.82	0.75	0.04
TON-MW6s	8/15/2016	13:45	9.49	89.17	0.83	0.04
TON-MW6s	9/16/2016	13:08	10.56	88.10	0.50	0.02
TON-MW6s	10/14/2016	13:53	12.53	86.13	0.21	0.01
TON-MW6s	11/22/2016	13:21	8.09	90.57	0.42	0.02
TON-MW6s	12/13/2016	16:03	11.64	87.02	<|0.05|	0
TON-MW6s	1/26/2017	11:14	8.98	89.68	0.07	0.00
TON-MW6s	2/1/2017		N/M			
TON-MW6s	3/14/2017	12:20	10.65	88.01	<|0.05|	0
TON-MW6s	4/21/2017	13:28	11.06	87.60		
TON-MW6s	5/17/2017	13:35	8.41	90.25	0.20	0.01
TON-MW6s	6/23/2017	9:53	9.93	88.73	0.17	0.01
TON-MW6s	7/14/2017	10:18	7.72	90.94	-0.32	-0.02
TON-MW6s	8/23/2017	10:47	7.53	91.13	0.39	0.02
TON-MW6s	9/23/2017	13:55	7.13	91.53	0.32	0.02
TON-MW6s	10/20/2017	12:11	10.53	88.13	-0.11	-0.01
TON-MW6s	11/16/2017	12:06	7.76	90.90	<|0.05|	0
TON-MW6s	12/31/2017	13:35	10.64	88.02	-0.18	-0.01
TON-MW6s	1/22/2018	14:34	10.46	88.20	-0.34	-0.02
TON-MW6s	2/27/2018	12:55	7.14	91.52	0.21	0.01
TON-MW6s	3/1/2018		N/M			
TON-MW6s	4/25/2018	11:38	10.35	88.31	-0.18	-0.01
TON-MW6s	5/15/2018	16:10	7.10	91.56	<|0.05|	0
TON-MW6s	6/14/2018	11:28	9.02	89.64	0.15	0.01
TON-MW6s	7/17/2018	12:12	6.82	91.84	0.59	0.03
TON-MW6s	8/17/2018	10:14	5.43	93.23	0.77	0.04
TON-MW6s	9/12/2018	11:08	8.63	90.03	0.23	0.01
TON-MW6s	10/25/2018	14:47	9.59	89.07	<|0.05|	0
TON-MW6s	11/14/2018	9:13	9.72	88.94	1.49	0.07
TON-MW6s	12/14/2018	14:55	9.35	89.31	-0.20	-0.01
TON-MW6s	1/24/2019	15:57	9.20	89.46	-0.31	-0.02
TON-MW6s	3/1/2019	13:23	8.68	89.98	0.56	0.03
TON-MW6s	3/17/2019	14:59	6.90	91.76	-0.07	-0.00
TON-MW6s	4/15/2019	10:49	9.31	89.35	-0.29	-0.01
TON-MW6s	5/22/2019	11:13	9.78	88.88	<|0.05|	0
TON-MW6s	6/20/2019	11:46	8.91	89.75	0.08	0.00
TON-MW6s	7/17/2019	10:14	8.98	89.68	2.19	0.11
TON-MW6s	8/21/2019	11:54	9.45	89.21	2.07	0.10
TON-MW6s	9/26/2019	11:24	9.89	88.77	-0.07	-0.00
TON-MW6s	10/25/2019	9:23	10.63	88.03	-0.12	-0.01
TON-MW6s	11/14/2019	13:26	9.20	89.46	0.09	0.00
TON-MW6s	12/13/2019	11:30	9.11	89.55	0.15	0.01
TON-MW6d	1/30/2012	17:03	8.50	89.87		
TON-MW6d	2/10/2012	11:01	8.10	90.27		
TON-MW6d	3/5/2012	12:08	9.26	89.11		
TON-MW6d	4/9/2012	10:16	9.40	88.97		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
TON-MW6d	5/10/2012	17:47	8.53	89.84		
TON-MW6d	6/20/2012	10:19	8.09	90.28		
TON-MW6d	7/9/2012	13:02	7.75	90.62		
TON-MW6d	8/16/2012	9:50	8.70	89.67		
TON-MW6d	9/20/2012	11:19	8.95	89.42		
TON-MW6d	10/19/2012	12:29	10.23	88.14		
TON-MW6d	12/6/2012	14:20	10.48	87.89		
TON-MW6d	12/31/2012	10:11	10.06	88.31		
TON-MW6d	1/15/2013	11:47	10.03	88.34		
TON-MW6d	2/18/2013	16:52	10.08	88.29		
TON-MW6d	3/22/2013	13:07	9.20	89.17		
TON-MW6d	4/17/2013	14:12	8.07	90.30		
TON-MW6d	5/29/2013	11:18	10.01	88.36		
TON-MW6d	6/18/2013	11:19	10.05	88.32		
TON-MW6d	7/15/2013	15:06	10.62	87.75		
TON-MW6d	8/22/2013	12:24	8.86	89.51		
TON-MW6d	9/9/2013	11:15	10.80	87.57		
TON-MW6d	10/7/2013	14:05	9.82	88.55		
TON-MW6d	11/13/2013	9:11	10.00	88.37		
TON-MW6d	12/17/2013	14:41	10.93	87.44		
TON-MW6d	1/14/2014	14:39	10.94	87.43		
TON-MW6d	2/19/2014	9:14	9.41	88.96		
TON-MW6d	3/17/2014	12:03	10.37	88.00		
TON-MW6d	4/19/2014	11:22	9.26	89.11		
TON-MW6d	5/23/2014	9:00	7.01	91.36		
TON-MW6d	6/20/2014	14:27	10.26	88.11		
TON-MW6d	7/16/2014	18:36	12.04	86.33		
TON-MW6d	8/27/2014	15:34	10.25	88.12		
TON-MW6d	9/19/2014	11:59	9.60	88.77		
TON-MW6d	10/14/2014	10:40	12.61	85.76		
TON-MW6d	11/12/2014	9:49	12.09	86.28		
TON-MW6d	12/15/2014	13:05	9.65	88.72		
TON-MW6d	1/13/2015	12:29	11.36	87.01		
TON-MW6d	2/10/2015	11:16	11.44	86.93		
TON-MW6d	3/13/2015	9:34	9.60	88.77		
TON-MW6d	4/17/2015	9:32	10.88	87.49		
TON-MW6d	5/13/2015	8:38	10.12	88.25		
TON-MW6d	6/4/2015	10:47	9.00	89.37		
TON-MW6d	7/20/2015	14:10	12.93	85.44		
TON-MW6d	8/17/2015	9:58	13.51	84.86		
TON-MW6d	9/14/2015	14:33	11.58	86.79		
TON-MW6d	10/16/2015	14:16	10.82	87.55		
TON-MW6d	11/19/2015	13:55	13.26	85.11		
TON-MW6d	12/31/2015	14:11	11.99	86.38		
TON-MW6d	1/16/2016	15:19	12.64	85.73		
TON-MW6d	2/25/2016	14:56	11.38	86.99		
TON-MW6d	3/19/2016	8:54	11.77	86.60		
TON-MW6d	4/18/2016	13:21	11.74	86.63		
TON-MW6d	5/17/2016	11:53	11.55	86.82		
TON-MW6d	6/17/2016	11:29	11.90	86.47		
TON-MW6d	7/22/2016	8:54	10.30	88.07		
TON-MW6d	8/15/2016	13:46	10.03	88.34		
TON-MW6d	9/16/2016	13:09	10.77	87.60		
TON-MW6d	10/14/2016	13:54	12.45	85.92		
TON-MW6d	11/22/2016	13:22	8.22	90.15		
TON-MW6d	12/13/2016	16:04	11.40	86.97		
TON-MW6d	1/26/2017	11:15	8.76	89.61		
TON-MW6d	2/1/2017		N/M			
TON-MW6d	3/14/2017	12:20	10.31	88.06		
TON-MW6d	4/21/2017	13:29	Q/M			
TON-MW6d	5/17/2017	13:35	8.32	90.05		
TON-MW6d	6/23/2017	9:53	9.81	88.56		
TON-MW6d	7/14/2017	10:18	7.11	91.26		
TON-MW6d	8/23/2017	10:47	7.63	90.74		
TON-MW6d	9/23/2017	13:56	7.16	91.21		
TON-MW6d	10/20/2017	12:12	10.13	88.24		
TON-MW6d	11/16/2017	12:07	7.42	90.95		
TON-MW6d	12/31/2017	13:36	10.17	88.20		
TON-MW6d	1/22/2018	14:35	9.83	88.54		
TON-MW6d	2/27/2018	12:55	7.06	91.31		
TON-MW6d	3/1/2018		N/M			
TON-MW6d	4/25/2018	11:39	9.88	88.49		
TON-MW6d	5/15/2018	16:11	6.83	91.54		
TON-MW6d	6/14/2018	11:29	8.88	89.49		
TON-MW6d	7/17/2018	12:13	7.12	91.25		
TON-MW6d	8/17/2018	10:14	5.91	92.46		
TON-MW6d	9/12/2018	11:08	8.57	89.80		
TON-MW6d	10/25/2018	14:47	9.33	89.04		
TON-MW6d	11/14/2018	9:11	10.92	87.45		
TON-MW6d	12/14/2018	14:56	8.86	89.51		
TON-MW6d	1/24/2019	15:58	8.60	89.77		
TON-MW6d	3/1/2019	13:23	8.95	89.42		
TON-MW6d	3/17/2019	15:00	6.54	91.83		
TON-MW6d	4/15/2019	10:49	8.73	89.64		
TON-MW6d	5/22/2019	11:13	9.45	88.92		
TON-MW6d	6/20/2019	11:46	8.70	89.67		
TON-MW6d	7/17/2019	10:14	10.88	87.49		
TON-MW6d	8/21/2019	11:54	11.23	87.14		
TON-MW6d	9/26/2019	11:24	9.53	88.84		
TON-MW6d	10/25/2019	9:23	10.22	88.15		
TON-MW6d	11/14/2019	13:26	9.00	89.37		
TON-MW6d	12/13/2019	11:30	8.97	89.40		
TON-MW7s	1/30/2012	17:05	7.65	92.96	<|0.05|	0
TON-MW7s	2/10/2012	11:57	8.42	92.19	<|0.05|	0
TON-MW7s	3/5/2012	12:21	8.62	91.99	<|0.05|	0
TON-MW7s	4/9/2012	10:00	8.85	91.76	<|0.05|	0
TON-MW7s	5/10/2012	17:25	6.14	94.47	<|0.05|	0
TON-MW7s	6/20/2012	10:09	6.51	94.10	<|0.05|	0
TON-MW7s	7/9/2012	13:12	8.47	92.14	-0.10	-0.00
TON-MW7s	8/16/2012	9:59	7.07	93.54	<|0.05|	0
TON-MW7s	9/20/2012	11:26	7.66	92.95	<|0.05|	0
TON-MW7s	10/19/2012	12:34	7.15	93.46	<|0.05|	0
TON-MW7s	12/6/2012	14:14	9.07	91.54	<|0.05|	0
TON-MW7s	12/31/2012	10:16	8.81	91.80	<|0.05|	0
TON-MW7s	1/15/2013	12:00	8.97	91.64	<|0.05|	0
TON-MW7s	2/18/2013	16:47	9.42	91.19	<|0.05|	0
TON-MW7s	3/22/2013	13:00	8.81	91.80	<|0.05|	0
TON-MW7s	4/17/2013	14:19	7.23	93.38	<|0.05|	0
TON-MW7s	5/29/2013	11:04	9.50	91.11	<|0.05|	0
TON-MW7s	6/18/2013	11:11	9.11	91.50	<|0.05|	0
TON-MW7s	7/15/2013	15:16	9.02	91.59	<|0.05|	0
TON-MW7s	8/22/2013	12:33	9.18	91.43	<|0.05|	0
TON-MW7s	9/9/2013	11:26	8.83	91.78	<|0.05|	0
TON-MW7s	10/7/2013	14:13	7.71	92.90	-0.06	-0.00

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
TON-MW7s	11/13/2013	9:02	8.77	91.84	<|0.05|	0
TON-MW7s	12/17/2013	14:49	9.18	91.43	<|0.05|	0
TON-MW7s	1/14/2014	14:45	8.54	92.07	<|0.05|	0
TON-MW7s	2/19/2014	9:06	8.85	91.76	<|0.05|	0
TON-MW7s	3/17/2014	11:54	9.04	91.57	<|0.05|	0
TON-MW7s	4/19/2014	11:26	8.40	92.21	<|0.05|	0
TON-MW7s	5/23/2014	9:10	8.74	91.87	<|0.05|	0
TON-MW7s	6/20/2014	14:42	9.07	91.54	<|0.05|	0
TON-MW7s	7/16/2014	18:41	9.98	90.63	<|0.05|	0
TON-MW7s	8/27/2014	15:28	7.55	93.06	<|0.05|	0
TON-MW7s	9/19/2014	11:53	10.20	90.41	<|0.05|	0
TON-MW7s	10/14/2014	10:49	8.33	92.28	<|0.05|	0
TON-MW7s	11/12/2014	10:00	8.97	91.64	<|0.05|	0
TON-MW7s	12/15/2014	13:17	6.23	94.38	<|0.05|	0
TON-MW7s	1/13/2015	12:23	9.13	91.48	<|0.05|	0
TON-MW7s	2/10/2015	11:08	9.50	91.11	<|0.05|	0
TON-MW7s	3/13/2015	10:28	9.06	91.55	<|0.05|	0
TON-MW7s	4/17/2015	9:23	9.53	91.08	<|0.05|	0
TON-MW7s	5/13/2015	8:26	10.09	90.52	<|0.05|	0
TON-MW7s	6/4/2015	10:57	9.73	90.88	<|0.05|	0
TON-MW7s	7/20/2015	14:29	10.40	90.21	<|0.05|	0
TON-MW7s	8/17/2015	9:48	10.10	90.51	<|0.05|	0
TON-MW7s	9/14/2015	14:20	9.90	90.71	<|0.05|	0
TON-MW7s	10/16/2015	14:08	5.99	94.62	<|0.05|	0
TON-MW7s	11/19/2015	14:03	8.72	91.89	<|0.05|	0
TON-MW7s	12/31/2015	14:19	9.48	91.13	<|0.05|	0
TON-MW7s	1/16/2016	15:28	9.50	91.11	<|0.05|	0
TON-MW7s	2/25/2016	15:05	8.82	91.79	<|0.05|	0
TON-MW7s	3/19/2016	9:02	8.95	91.66	<|0.05|	0
TON-MW7s	4/18/2016	13:28	8.75	91.86	<|0.05|	0
TON-MW7s	5/17/2016	11:42	9.68	90.93	<|0.05|	0
TON-MW7s	6/17/2016	11:22	6.86	93.75	<|0.05|	0
TON-MW7s	7/22/2016	9:05	7.58	93.03	<|0.05|	0
TON-MW7s	8/15/2016	13:52	8.06	92.55	-0.66	-0.03
TON-MW7s	9/16/2016	13:16	7.48	93.13	<|0.05|	0
TON-MW7s	10/14/2016	14:01	7.09	93.52	<|0.05|	0
TON-MW7s	11/22/2016	13:28	8.54	92.07	<|0.05|	0
TON-MW7s	12/13/2016	15:57	8.27	92.34	<|0.05|	0
TON-MW7s	1/26/2017	11:22	4.84	95.77	<|0.05|	0
TON-MW7s	2/1/2017		N/M			
TON-MW7s	3/14/2017	12:25	8.70	91.91	<|0.05|	0
TON-MW7s	4/21/2017	13:22	8.10	92.51	<|0.05|	0
TON-MW7s	5/17/2017	13:45	9.25	91.36	<|0.05|	0
TON-MW7s	6/23/2017	9:43	6.59	94.02	<|0.05|	0
TON-MW7s	7/14/2017	9:50	5.08	95.53	<|0.05|	0
TON-MW7s	8/23/2017	10:52	5.31	95.30	<|0.05|	0
TON-MW7s	9/23/2017	13:48	6.16	94.45	<|0.05|	0
TON-MW7s	10/20/2017	12:17	7.53	93.08	<|0.05|	0
TON-MW7s	11/16/2017	12:00	6.21	94.40	<|0.05|	0
TON-MW7s	12/31/2017	13:44	8.40	92.21	<|0.05|	0
TON-MW7s	1/22/2018	14:19	8.45	92.16	<|0.05|	0
TON-MW7s	2/27/2018	12:47	7.44	93.17	<|0.05|	0
TON-MW7s	3/1/2018		N/M			
TON-MW7s	4/25/2018	11:47	8.36	92.25	<|0.05|	0
TON-MW7s	5/15/2018	16:15	8.45	92.16	<|0.05|	0
TON-MW7s	6/14/2018	11:37	8.11	92.50	<|0.05|	0
TON-MW7s	7/17/2018	12:19	8.55	92.06	<|0.05|	0
TON-MW7s	8/17/2018	10:10	6.08	94.53	0.06	0.00
TON-MW7s	9/12/2018	10:59	8.22	92.39	<|0.05|	0
TON-MW7s	10/25/2018	14:30	7.21	93.40	0.11	0.01
TON-MW7s	11/14/2018	9:19	8.15	92.46	<|0.05|	0
TON-MW7s	12/14/2018	15:01	7.05	93.56	<|0.05|	0
TON-MW7s	1/24/2019	16:04	8.29	92.32	<|0.05|	0
TON-MW7s	3/1/2019	13:18	8.40	92.21	<|0.05|	0
TON-MW7s	3/17/2019	15:05	7.05	93.56	<|0.05|	0
TON-MW7s	4/15/2019	10:43	8.67	91.94	<|0.05|	0
TON-MW7s	5/22/2019	11:23	8.75	91.86	<|0.05|	0
TON-MW7s	6/20/2019	11:53	8.35	92.26	<|0.05|	0
TON-MW7s	7/17/2019	10:22	7.37	93.24	<|0.05|	0
TON-MW7s	8/21/2019	11:45	5.74	94.87	<|0.05|	0
TON-MW7s	9/26/2019	11:40	5.79	94.82	<|0.05|	0
TON-MW7s	10/25/2019	9:15	8.32	92.29	<|0.05|	0
TON-MW7s	11/14/2019	13:22	7.68	92.93	<|0.05|	0
TON-MW7s	12/13/2019	11:37	7.80	92.81	0.14	0.01
TON-MW7d	1/30/2012	17:07	7.33	92.96		
TON-MW7d	2/10/2012	11:58	8.12	92.17		
TON-MW7d	3/5/2012	12:20	8.30	91.99		
TON-MW7d	4/9/2012	10:00	8.55	91.74		
TON-MW7d	5/10/2012	17:25	5.81	94.48		
TON-MW7d	6/20/2012	10:10	6.21	94.08		
TON-MW7d	7/9/2012	13:12	8.05	92.24		
TON-MW7d	8/16/2012	10:00	6.75	93.54		
TON-MW7d	9/20/2012	11:26	7.35	92.94		
TON-MW7d	10/19/2012	12:34	6.83	93.46		
TON-MW7d	12/6/2012	14:14	8.75	91.54		
TON-MW7d	12/31/2012	10:17	8.49	91.80		
TON-MW7d	1/15/2013	12:00	8.67	91.62		
TON-MW7d	2/18/2013	16:47	9.10	91.19		
TON-MW7d	3/22/2013	13:00	8.53	91.76		
TON-MW7d	4/17/2013	14:19	6.92	93.37		
TON-MW7d	5/29/2013	11:04	9.18	91.11		
TON-MW7d	6/18/2013	11:13	8.80	91.49		
TON-MW7d	7/15/2013	15:16	8.72	91.57		
TON-MW7d	8/22/2013	12:33	8.87	91.42		
TON-MW7d	9/9/2013	11:26	8.51	91.78		
TON-MW7d	10/7/2013	14:13	7.33	92.96		
TON-MW7d	11/13/2013	9:02	8.47	91.82		
TON-MW7d	12/17/2013	14:49	8.83	91.46		
TON-MW7d	1/14/2014	14:45	8.22	92.07		
TON-MW7d	2/19/2014	9:06	8.53	91.76		
TON-MW7d	3/17/2014	11:54	8.73	91.56		
TON-MW7d	4/19/2014	11:26	8.08	92.21		
TON-MW7d	5/23/2014	9:10	8.43	91.86		
TON-MW7d	6/20/2014	14:42	8.78	91.51		
TON-MW7d	7/16/2014	18:41	9.67	90.62		
TON-MW7d	8/27/2014	15:28	7.23	93.06		
TON-MW7d	9/19/2014	11:53	9.89	90.40		
TON-MW7d	10/14/2014	10:49	8.00	92.29		
TON-MW7d	11/12/2014	10:00	8.65	91.64		
TON-MW7d	12/15/2014	13:17	5.93	94.36		
TON-MW7d	1/13/2015	12:23	8.82	91.47		
TON-MW7d	2/10/2015	11:08	9.18	91.11		
TON-MW7d	3/13/2015	10:28	8.75	91.54		
TON-MW7d	4/17/2015	9:23	9.25	91.04		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
TON-MW7d	5/13/2015	8:26	9.78	90.51		
TON-MW7d	6/4/2015	10:57	9.45	90.84		
TON-MW7d	7/20/2015	14:29	10.13	90.16		
TON-MW7d	8/17/2015	9:49	9.81	90.48		
TON-MW7d	9/14/2015	14:20	9.62	90.67		
TON-MW7d	10/16/2015	14:08	5.70	94.59		
TON-MW7d	11/19/2015	14:03	8.38	91.91		
TON-MW7d	12/31/2015	14:20	9.17	91.12		
TON-MW7d	1/16/2016	15:29	9.19	91.10		
TON-MW7d	2/25/2016	15:04	8.54	91.75		
TON-MW7d	3/19/2016	9:02	8.64	91.65		
TON-MW7d	4/18/2016	13:29	8.46	91.83		
TON-MW7d	5/17/2016	11:43	9.36	90.93		
TON-MW7d	6/17/2016	11:23	6.56	93.73		
TON-MW7d	7/22/2016	9:05	7.27	93.02		
TON-MW7d	8/15/2016	13:53	7.08	93.21		
TON-MW7d	9/16/2016	13:17	7.19	93.10		
TON-MW7d	10/14/2016	14:02	6.82	93.47		
TON-MW7d	11/22/2016	13:29	8.21	92.08		
TON-MW7d	12/13/2016	15:58	7.97	92.32		
TON-MW7d	1/26/2017	11:23	4.52	95.77		
TON-MW7d	2/1/2017		N/M			
TON-MW7d	3/14/2017	12:25	8.40	91.89		
TON-MW7d	4/21/2017	13:23	7.81	92.48		
TON-MW7d	5/17/2017	13:45	8.92	91.37		
TON-MW7d	6/23/2017	9:43	6.28	94.01		
TON-MW7d	7/14/2017	9:50	4.78	95.51		
TON-MW7d	8/23/2017	10:52	4.98	95.31		
TON-MW7d	9/23/2017	13:49	5.85	94.44		
TON-MW7d	10/20/2017	12:18	7.23	93.06		
TON-MW7d	11/16/2017	12:01	5.89	94.40		
TON-MW7d	12/31/2017	13:46	8.07	92.22		
TON-MW7d	1/22/2018	14:20	8.14	92.15		
TON-MW7d	2/27/2018	12:46	7.10	93.19		
TON-MW7d	3/1/2018		N/M			
TON-MW7d	4/25/2018	11:47	8.02	92.27		
TON-MW7d	5/15/2018	16:16	8.15	92.14		
TON-MW7d	6/14/2018	11:38	7.82	92.47		
TON-MW7d	7/17/2018	12:20	8.24	92.05		
TON-MW7d	8/17/2018	10:10	5.82	94.47		
TON-MW7d	9/12/2018	10:59	7.90	92.39		
TON-MW7d	10/25/2018	14:30	7.00	93.29		
TON-MW7d	11/14/2018	9:20	7.83	92.46		
TON-MW7d	12/14/2018	15:02	6.72	93.57		
TON-MW7d	1/24/2019	16:05	7.96	92.33		
TON-MW7d	3/1/2019	13:18	8.09	92.20		
TON-MW7d	3/17/2019	15:06	6.73	93.56		
TON-MW7d	4/15/2019	10:43	8.40	91.89		
TON-MW7d	5/22/2019	11:23	8.42	91.87		
TON-MW7d	6/20/2019	11:53	8.03	92.26		
TON-MW7d	7/17/2019	10:22	7.05	93.24		
TON-MW7d	8/21/2019	11:45	5.42	94.87		
TON-MW7d	9/26/2019	11:40	5.50	94.79		
TON-MW7d	10/25/2019	9:15	8.00	92.29		
TON-MW7d	11/14/2019	13:22	7.40	92.89		
TON-MW7d	12/13/2019	11:37	7.62	92.67		
TON-MW8s	1/30/2012	17:09	9.79	84.22	-0.15	-0.01
TON-MW8s	2/10/2012	11:36	9.71	84.30	-0.15	-0.01
TON-MW8s	3/5/2012	12:17	9.80	84.21	-0.11	-0.01
TON-MW8s	4/9/2012	10:07	9.71	84.30	-0.09	-0.00
TON-MW8s	5/10/2012	17:08	10.14	83.87	-0.12	-0.01
TON-MW8s	6/20/2012	10:13	10.00	84.01	-0.10	-0.00
TON-MW8s	7/9/2012	13:08	9.90	84.11	-0.08	-0.00
TON-MW8s	8/16/2012	9:53	9.78	84.23	-0.16	-0.01
TON-MW8s	9/20/2012	11:22	10.09	83.92	0.21	0.01
TON-MW8s	10/19/2012	12:31	9.93	84.08	-0.09	-0.00
TON-MW8s	12/6/2012	14:17	9.80	84.21	<|0.05|	0
TON-MW8s	12/31/2012	10:20	9.74	84.27	-0.14	-0.01
TON-MW8s	1/15/2013	11:56	9.85	84.16	-0.14	-0.01
TON-MW8s	2/18/2013	16:49	9.44	84.57	<|0.05|	0
TON-MW8s	3/22/2013	13:03	10.03	83.98	<|0.05|	0
TON-MW8s	4/17/2013	14:23	10.34	83.67	<|0.05|	0
TON-MW8s	5/29/2013	11:11	9.88	84.13	<|0.05|	0
TON-MW8s	6/18/2013	11:15	9.74	84.27	<|0.05|	0
TON-MW8s	7/15/2013	15:11	10.25	83.76	<|0.05|	0
TON-MW8s	8/22/2013	12:30	10.00	84.01	<|0.05|	0
TON-MW8s	9/9/2013	11:20	10.32	83.69	<|0.05|	0
TON-MW8s	10/7/2013	14:09	10.00	84.01	-0.08	-0.00
TON-MW8s	11/13/2013	9:07	9.98	84.03	<|0.05|	0
TON-MW8s	12/17/2013	14:45	9.82	84.19	-0.13	-0.01
TON-MW8s	1/14/2014	14:49	9.19	84.82	<|0.05|	0
TON-MW8s	2/19/2014	9:11	9.88	84.13	-0.14	-0.01
TON-MW8s	3/17/2014	11:49	9.95	84.06	-0.12	-0.01
TON-MW8s	4/19/2014	11:29	9.68	84.33	-0.10	-0.00
TON-MW8s	5/23/2014	9:07	9.97	84.04	-0.13	-0.01
TON-MW8s	6/20/2014	14:38	10.05	83.96	-0.06	-0.00
TON-MW8s	7/16/2014	18:45	10.24	83.77	<|0.05|	0
TON-MW8s	8/27/2014	15:24	7.43	86.58	0.32	0.02
TON-MW8s	9/19/2014	11:49	10.35	83.66	<|0.05|	0
TON-MW8s	10/14/2014	10:45	10.19	83.82	<|0.05|	0
TON-MW8s	11/12/2014	9:53	9.93	84.08	<|0.05|	0
TON-MW8s	12/15/2014	13:14	8.70	85.31	-0.34	-0.02
TON-MW8s	1/13/2015	12:21	9.68	84.33	-0.07	-0.00
TON-MW8s	2/10/2015	11:10	9.81	84.20	-0.07	-0.00
TON-MW8s	3/13/2015	10:30	10.10	83.91	<|0.05|	0
TON-MW8s	4/17/2015	9:28	10.03	83.98	-0.06	-0.00
TON-MW8s	5/13/2015	8:30	10.28	83.73	<|0.05|	0
TON-MW8s	6/4/2015	10:53	10.36	83.65	<|0.05|	0
TON-MW8s	7/20/2015	14:15	10.39	83.62	0.08	0.00
TON-MW8s	8/17/2015	9:52	10.71	83.30	<|0.05|	0
TON-MW8s	9/14/2015	14:24	8.95	85.06	0.06	0.00
TON-MW8s	10/16/2015	14:12	6.90	87.11	0.16	0.01
TON-MW8s	11/19/2015	13:59	9.53	84.48	<|0.05|	0
TON-MW8s	12/31/2015	14:15	9.73	84.28	<|0.05|	0
TON-MW8s	1/16/2016	15:23	9.90	84.11	-0.06	-0.00
TON-MW8s	2/25/2016	15:02	9.41	84.60	-0.06	-0.00
TON-MW8s	3/19/2016	8:58	9.32	84.69	<|0.05|	0
TON-MW8s	4/18/2016	13:26	9.49	84.52	<|0.05|	0
TON-MW8s	5/17/2016	11:47	9.88	84.13	0.06	0.00
TON-MW8s	6/17/2016	11:24	10.20	83.81	0.08	0.00
TON-MW8s	7/22/2016	8:59	10.13	83.88	<|0.05|	0
TON-MW8s	8/15/2016	13:48	10.01	84.00	0.08	0.00
TON-MW8s	9/16/2016	13:13	10.22	83.79	<|0.05|	0
TON-MW8s	10/14/2016	13:57	9.75	84.26	-0.06	-0.00

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
TON-MW8s	11/22/2016	13:24	9.63	84.38	-0.10	-0.00
TON-MW8s	12/13/2016	16:00	9.77	84.24	-0.08	-0.00
TON-MW8s	1/26/2017	11:19	6.35	87.66	<|0.05|	0
TON-MW8s	2/1/2017		N/M			
TON-MW8s	3/14/2017	12:22	8.09	85.92	0.23	0.01
TON-MW8s	4/21/2017	13:25	9.49	84.52	-0.09	-0.00
TON-MW8s	5/17/2017	13:42	9.69	84.32	<|0.05|	0
TON-MW8s	6/23/2017	9:48	9.80	84.21	-0.05	-0.00
TON-MW8s	7/14/2017	10:15	8.31	85.70	<|0.05|	0
TON-MW8s	8/23/2017	10:50	9.25	84.76	<|0.05|	0
TON-MW8s	9/23/2017	13:51	9.51	84.50	-0.11	-0.01
TON-MW8s	10/20/2017	12:14	9.71	84.30	-0.11	-0.01
TON-MW8s	11/16/2017	12:03	9.65	84.36	-0.11	-0.01
TON-MW8s	12/31/2017	13:40	9.66	84.35	-0.13	-0.01
TON-MW8s	1/22/2018	14:25	9.62	84.39	-0.15	-0.01
TON-MW8s	2/27/2018	12:52	9.68	84.33	-0.15	-0.01
TON-MW8s	3/1/2018		N/M			
TON-MW8s	4/25/2018	11:44	9.54	84.47	-0.17	-0.01
TON-MW8s	5/15/2018	16:13	8.86	85.15	-0.11	-0.01
TON-MW8s	6/14/2018	11:33	9.36	84.65	-0.33	-0.02
TON-MW8s	7/17/2018	12:16	9.53	84.48	<|0.05|	0
TON-MW8s	8/17/2018	10:12	9.72	84.29	<|0.05|	0
TON-MW8s	9/12/2018	11:04	8.08	85.93	0.19	0.01
TON-MW8s	10/25/2018	14:34	7.51	86.50	0.11	0.01
TON-MW8s	11/14/2018	9:16	9.66	84.35	-0.12	-0.01
TON-MW8s	12/14/2018	14:58	7.30	86.71	0.09	0.00
TON-MW8s	1/24/2019	16:01	9.29	84.72	-0.20	-0.01
TON-MW8s	3/1/2019	13:28	8.73	85.28	-0.12	-0.01
TON-MW8s	3/17/2019	15:03	7.71	86.30	-0.12	-0.01
TON-MW8s	4/15/2019	10:45	9.45	84.56	-0.09	-0.00
TON-MW8s	5/22/2019	11:18	8.97	85.04	<|0.05|	0
TON-MW8s	6/20/2019	11:50	9.72	84.29	<|0.05|	0
TON-MW8s	7/17/2019	10:20	9.42	84.59	-0.07	-0.00
TON-MW8s	8/21/2019	11:49	5.95	88.06	0.32	0.02
TON-MW8s	9/26/2019	11:30	7.52	86.49	0.10	0.00
TON-MW8s	10/25/2019	9:18	9.79	84.22	-0.13	-0.01
TON-MW8s	11/14/2019	13:24	9.81	84.20	-0.13	-0.01
TON-MW8s	12/13/2019	11:34	9.89	84.12	0.08	0.00
TON-MW8d	1/30/2012	17:11	9.25	84.37		
TON-MW8d	2/10/2012	11:37	9.17	84.45		
TON-MW8d	3/5/2012	12:16	9.30	84.32		
TON-MW8d	4/9/2012	10:08	9.23	84.39		
TON-MW8d	5/10/2012	17:10	9.63	83.99		
TON-MW8d	6/20/2012	10:14	9.51	84.11		
TON-MW8d	7/9/2012	13:08	9.43	84.19		
TON-MW8d	8/16/2012	9:54	9.23	84.39		
TON-MW8d	9/20/2012	11:22	9.91	83.71		
TON-MW8d	10/19/2012	12:31	9.45	84.17		
TON-MW8d	12/6/2012	14:17	9.37	84.25		
TON-MW8d	12/31/2012	10:21	9.21	84.41		
TON-MW8d	1/15/2013	11:56	9.32	84.30		
TON-MW8d	2/18/2013	16:49	9.10	84.52		
TON-MW8d	3/22/2013	13:03	9.63	83.99		
TON-MW8d	4/17/2013	14:23	9.90	83.72		
TON-MW8d	5/29/2013	11:11	9.45	84.17		
TON-MW8d	6/18/2013	11:16	9.32	84.30		
TON-MW8d	7/15/2013	15:11	9.83	83.79		
TON-MW8d	8/22/2013	12:30	9.63	83.99		
TON-MW8d	9/9/2013	11:20	9.94	83.68		
TON-MW8d	10/7/2013	14:09	9.53	84.09		
TON-MW8d	11/13/2013	9:07	9.58	84.04		
TON-MW8d	12/17/2013	14:45	9.30	84.32		
TON-MW8d	1/14/2014	14:49	8.82	84.80		
TON-MW8d	2/19/2014	9:11	9.35	84.27		
TON-MW8d	3/17/2014	11:49	9.44	84.18		
TON-MW8d	4/19/2014	11:29	9.19	84.43		
TON-MW8d	5/23/2014	9:07	9.45	84.17		
TON-MW8d	6/20/2014	14:38	9.60	84.02		
TON-MW8d	7/16/2014	18:45	9.85	83.77		
TON-MW8d	8/27/2014	15:24	7.36	86.26		
TON-MW8d	9/19/2014	11:49	10.01	83.61		
TON-MW8d	10/14/2014	10:45	9.81	83.81		
TON-MW8d	11/12/2014	9:53	9.53	84.09		
TON-MW8d	12/15/2014	13:14	7.97	85.65		
TON-MW8d	1/13/2015	12:21	9.22	84.40		
TON-MW8d	2/10/2015	11:10	9.35	84.27		
TON-MW8d	3/13/2015	10:30	9.66	83.96		
TON-MW8d	4/17/2015	9:28	9.58	84.04		
TON-MW8d	5/13/2015	8:30	9.87	83.75		
TON-MW8d	6/4/2015	10:53	9.96	83.66		
TON-MW8d	7/20/2015	14:15	10.08	83.54		
TON-MW8d	8/17/2015	9:52	10.37	83.25		
TON-MW8d	9/14/2015	14:24	8.62	85.00		
TON-MW8d	10/16/2015	14:12	6.67	86.95		
TON-MW8d	11/19/2015	13:59	9.09	84.53		
TON-MW8d	12/31/2015	14:16	9.32	84.30		
TON-MW8d	1/16/2016	15:24	9.45	84.17		
TON-MW8d	2/25/2016	15:01	8.96	84.66		
TON-MW8d	3/19/2016	8:58	8.96	84.66		
TON-MW8d	4/18/2016	13:25	9.08	84.54		
TON-MW8d	5/17/2016	11:48	9.55	84.07		
TON-MW8d	6/17/2016	11:25	9.89	83.73		
TON-MW8d	7/22/2016	8:59	9.70	83.92		
TON-MW8d	8/15/2016	13:49	9.70	83.92		
TON-MW8d	9/16/2016	13:14	9.80	83.82		
TON-MW8d	10/14/2016	13:58	9.30	84.32		
TON-MW8d	11/22/2016	13:25	9.14	84.48		
TON-MW8d	12/13/2016	16:01	9.30	84.32		
TON-MW8d	1/26/2017	11:20	5.99	87.63		
TON-MW8d	2/1/2017		N/M			
TON-MW8d	3/14/2017	12:22	7.93	85.69		
TON-MW8d	4/21/2017	13:26	9.01	84.61		
TON-MW8d	5/17/2017	13:42	9.32	84.30		
TON-MW8d	6/23/2017	9:48	9.36	84.26		
TON-MW8d	7/14/2017	10:15	7.91	85.71		
TON-MW8d	8/23/2017	10:50	8.83	84.79		
TON-MW8d	9/23/2017	13:52	9.01	84.61		
TON-MW8d	10/20/2017	12:15	9.21	84.41		
TON-MW8d	11/16/2017	12:03	9.15	84.47		
TON-MW8d	12/31/2017	13:41	9.14	84.48		
TON-MW8d	1/22/2018	14:26	9.08	84.54		
TON-MW8d	2/27/2018	12:51	9.14	84.48		
TON-MW8d	3/1/2018		N/M			
TON-MW8d	4/25/2018	11:44	8.98	84.64		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
TON-MW8d	5/15/2018	16:14	8.36	85.26		
TON-MW8d	6/14/2018	11:33	8.64	84.98		
TON-MW8d	7/17/2018	12:17	9.12	84.50		
TON-MW8d	8/17/2018	10:12	9.31	84.31		
TON-MW8d	9/12/2018	11:04	7.88	85.74		
TON-MW8d	10/25/2018	14:34	7.23	86.39		
TON-MW8d	11/14/2018	9:17	9.15	84.47		
TON-MW8d	12/14/2018	14:59	7.00	86.62		
TON-MW8d	1/24/2019	16:02	8.70	84.92		
TON-MW8d	3/1/2019	13:28	8.22	85.40		
TON-MW8d	3/17/2019	15:04	7.20	86.42		
TON-MW8d	4/15/2019	10:45	8.97	84.65		
TON-MW8d	5/22/2019	11:18	8.57	85.05		
TON-MW8d	6/20/2019	11:50	9.28	84.34		
TON-MW8d	7/17/2019	10:20	8.96	84.66		
TON-MW8d	8/21/2019	11:49	5.88	87.74		
TON-MW8d	9/26/2019	11:30	7.23	86.39		
TON-MW8d	10/25/2019	9:18	9.27	84.35		
TON-MW8d	11/14/2019	13:24	9.29	84.33		
TON-MW8d	12/13/2019	11:34	9.58	84.04		
BRE-MW1s	1/21/2013	12:38	18.11	198.18		
BRE-MW1s	2/11/2013	11:35	18.25	198.04		
BRE-MW1s	3/18/2013	14:28	18.42	197.87		
BRE-MW1s	4/22/2013	9:55	29.98	186.31		
BRE-MW1s	5/13/2013	14:16	18.78	197.51		
BRE-MW1s	6/18/2013	12:37	18.75	197.54		
BRE-MW1s	7/16/2013	12:40	19.16	197.13		
BRE-MW1s	8/12/2013	13:55	19.54	196.75		
BRE-MW1s	9/10/2013	7:05	20.16	196.13		
BRE-MW1s	10/25/2013	12:38	22.22	194.07		
BRE-MW1s	11/26/2013	11:00	28.37	187.92		
BRE-MW1s	12/23/2013	9:18	30.81	185.48		
BRE-MW1s	1/13/2014	12:44	33.23	183.06		
BRE-MW1s	2/21/2014	12:10	Dry			
BRE-MW1s	3/21/2014	9:59	Dry			
BRE-MW1s	4/11/2014	10:51	Dry			
BRE-MW1s	5/21/2014	7:44	Dry			
BRE-MW1s	6/10/2014	14:02	Dry			
BRE-MW1s	7/7/2014	12:20	Dry			
BRE-MW1s	8/11/2014	13:02	20.76	195.53		
BRE-MW1s	9/23/2014	9:02	20.11	196.18		
BRE-MW1s	10/20/2014	9:20	20.49	195.80		
BRE-MW1s	11/10/2014	8:50	22.22	194.07		
BRE-MW1s	12/15/2014	11:01	19.14	197.15		
BRE-MW1s	1/8/2015	9:37	16.47	199.82		
BRE-MW1s	2/26/2015	6:34	16.48	199.81		
BRE-MW1s	3/9/2015	9:35	16.67	199.62		
BRE-MW1s	4/24/2015	10:54	17.21	199.08		
BRE-MW1s	5/20/2015	8:47	17.77	198.52		
BRE-MW1s	6/15/2015	9:05	18.12	198.17		
BRE-MW1s	7/27/2015	9:07	18.41	197.88		
BRE-MW1s	8/27/2015	7:36	18.72	197.57		
BRE-MW1s	9/11/2015	8:50	18.86	197.43		
BRE-MW1s	10/19/2015	10:15	19.95	196.34		
BRE-MW1s	11/24/2015	7:20	21.36	194.93		
BRE-MW1s	12/21/2015	8:35	27.02	189.27		
BRE-MW1s	1/7/2016	9:18	29.02	187.27		
BRE-MW1s	2/25/2016	7:17	18.04	198.25		
BRE-MW1s	3/17/2016	9:38	16.40	199.89		
BRE-MW1s	4/19/2016	9:10	16.56	199.73		
BRE-MW1s	5/27/2016	12:57	21.62	194.67		
BRE-MW1s	6/23/2016	8:30	21.75	194.54		
BRE-MW1s	7/22/2016	8:01	17.87	198.42		
BRE-MW1s	8/22/2016	8:02	18.22	198.07		
BRE-MW1s	9/24/2016	8:34	18.90	197.39		
BRE-MW1s	10/21/2016	9:15	19.71	196.58		
BRE-MW1s	11/3/2016	8:15	20.48	195.81		
BRE-MW1s	12/20/2016	9:23	20.31	195.98		
BRE-MW1s	1/6/2017	9:00	19.87	196.42		
BRE-MW1s	2/1/2017		N/M			
BRE-MW1s	3/13/2017	9:55	17.10	199.19		
BRE-MW1s	4/17/2017	12:12	17.89	198.40		
BRE-MW1s	5/15/2017	9:53	13.41	202.88		
BRE-MW1s	6/8/2017	9:09	17.42	198.87		
BRE-MW1s	7/7/2017	9:18	14.99	201.30		
BRE-MW1s	8/25/2017	10:26	16.00	200.29		
BRE-MW1s	9/18/2017	10:01	16.64	199.65		
BRE-MW1s	10/19/2017	8:49	17.97	198.32		
BRE-MW1s	11/30/2017	9:30	20.96	195.33		
BRE-MW1s	12/29/2017	9:10	22.50	193.79		
BRE-MW1s	1/9/2018	8:54	21.37	194.92		
BRE-MW1s	2/12/2018	9:42	27.82	188.47		
BRE-MW1s	3/24/2018	11:01	30.30	185.99		
BRE-MW1s	4/26/2018	14:36	27.98	188.31		
BRE-MW1s	5/29/2018	13:56	33.30	182.99		
BRE-MW1s	6/15/2018	8:45	29.20	187.09		
BRE-MW1s	7/10/2018	8:47	20.80	195.49		
BRE-MW1s	8/13/2018	9:00	N/M			
BRE-MW1s	9/17/2018	14:00	19.98	196.31		
BRE-MW1s	10/22/2018	8:46	20.99	195.30		
BRE-MW1s	11/19/2018	9:57	25.45	190.84		
BRE-MW1s	12/26/2018	8:41	28.44	187.85		
BRE-MW1s	1/8/2019	8:57	31.22	185.07		
BRE-MW1s	2/12/2019	9:37	20.47	195.82		
BRE-MW1s	3/16/2019	9:15	11.63	204.66		
BRE-MW1s	4/15/2019	12:41	11.20	205.09		
BRE-MW1s	5/8/2019		N/M			
BRE-MW1s	6/14/2019	8:23	13.33	202.96		
BRE-MW1s	7/19/2019	10:08	14.93	201.36		
BRE-MW1s	8/16/2019	9:20	15.81	200.48		
BRE-MW1s	9/21/2019	9:31	17.15	199.14		
BRE-MW1s	10/25/2019	9:00	22.14	194.15		
BRE-MW1s	11/25/2019	9:10	19.82	196.47		
BRE-MW1s	12/9/2019	8:51	11.51	204.78		
BRE-MW1d	1/21/2013	12:41	53.18	163.12		
BRE-MW1d	2/11/2013	11:40	51.24	165.06		
BRE-MW1d	3/18/2013	14:31	53.25	163.05		
BRE-MW1d	4/22/2013	10:00	62.41	153.89		
BRE-MW1d	5/13/2013	14:19	67.10	149.20		
BRE-MW1d	6/18/2013	12:43	73.03	143.27		
BRE-MW1d	7/16/2013	12:45	79.08	137.22		
BRE-MW1d	8/12/2013	13:58	80.49	135.81		
BRE-MW1d	9/10/2013	7:09	79.01	137.29		
BRE-MW1d	10/25/2013	12:42	70.95	145.35		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
BRE-MW1d	11/26/2013	11:03	63.53	152.77		
BRE-MW1d	12/23/2013	9:22	63.46	152.84		
BRE-MW1d	1/13/2014	12:40	61.08	155.22		
BRE-MW1d	2/21/2014	12:15	74.37	141.93		
BRE-MW1d	3/21/2014	10:05	56.67	159.63		
BRE-MW1d	4/11/2014	10:54	56.60	159.70		
BRE-MW1d	5/21/2014	7:46	68.60	147.70		
BRE-MW1d	6/10/2014	14:05	77.34	138.96		
BRE-MW1d	7/7/2014	12:16	81.69	134.61		
BRE-MW1d	8/11/2014	13:04	82.74	133.56		
BRE-MW1d	9/23/2014	9:04	81.21	135.09		
BRE-MW1d	10/20/2014	9:25	Q/M			
BRE-MW1d	11/10/2014	8:53	70.44	145.86		
BRE-MW1d	12/15/2014	11:03	64.76	151.54		
BRE-MW1d	1/8/2015	9:39	61.33	154.97		
BRE-MW1d	2/26/2015	6:37	56.83	159.47		
BRE-MW1d	3/9/2015	9:37	58.72	157.58		
BRE-MW1d	4/24/2015	10:58	57.37	158.93		
BRE-MW1d	5/20/2015	8:45	70.50	145.80		
BRE-MW1d	6/15/2015	9:10	78.57	137.73		
BRE-MW1d	7/27/2015	9:10	83.59	132.71		
BRE-MW1d	8/27/2015	7:39	83.56	132.74		
BRE-MW1d	9/11/2015	8:55	83.58	132.72		
BRE-MW1d	10/19/2015	10:20	80.00	136.30		
BRE-MW1d	11/24/2015	7:22	69.91	146.39		
BRE-MW1d	12/21/2015	8:38	66.55	149.75		
BRE-MW1d	1/7/2016	9:21	64.85	151.45		
BRE-MW1d	2/25/2016	7:20	59.76	156.54		
BRE-MW1d	3/17/2016	9:40	57.49	158.81		
BRE-MW1d	4/19/2016	9:12	56.94	159.36		
BRE-MW1d	5/27/2016	13:00	61.09	155.21		
BRE-MW1d	6/23/2016	8:35	61.17	155.13		
BRE-MW1d	7/22/2016	8:04	81.29	135.01		
BRE-MW1d	8/22/2016	8:05	84.43	131.87		
BRE-MW1d	9/24/2016	8:36	82.83	133.47		
BRE-MW1d	10/21/2016	9:19	Q/M			
BRE-MW1d	11/3/2016	8:17	70.70	145.60		
BRE-MW1d	12/20/2016	9:20	63.86	152.44		
BRE-MW1d	1/6/2017	9:04	61.81	154.49		
BRE-MW1d	2/1/2017		N/M			
BRE-MW1d	3/13/2017	9:58	64.22	152.08		
BRE-MW1d	4/17/2017	12:15	47.44	168.86		
BRE-MW1d	5/15/2017	9:56	57.66	158.64		
BRE-MW1d	6/8/2017	9:10	Q/M			
BRE-MW1d	7/7/2017	9:22	75.50	140.80		
BRE-MW1d	8/25/2017	10:30	79.48	136.82		
BRE-MW1d	9/18/2017	10:04	76.97	139.33		
BRE-MW1d	10/19/2017	8:55	74.18	142.12		
BRE-MW1d	11/30/2017	9:32	63.12	153.18		
BRE-MW1d	12/29/2017	9:12	63.11	153.19		
BRE-MW1d	1/9/2018	8:56	62.16	154.14		
BRE-MW1d	2/12/2018	9:44	58.74	157.56		
BRE-MW1d	3/24/2018	10:58	58.05	158.25		
BRE-MW1d	4/26/2018	14:38	59.00	157.30		
BRE-MW1d	5/29/2018	13:58	71.10	145.20		
BRE-MW1d	6/15/2018	8:47	78.83	137.47		
BRE-MW1d	7/10/2018	8:50	84.60	131.70		
BRE-MW1d	8/13/2018	9:00	N/M			
BRE-MW1d	9/17/2018	14:05	85.35	130.95		
BRE-MW1d	10/22/2018	8:48	Dry			
BRE-MW1d	11/19/2018	10:00	78.30	138.00		
BRE-MW1d	12/26/2018	8:42	78.61	137.69		
BRE-MW1d	1/8/2019	9:00	68.56	147.74		
BRE-MW1d	2/12/2019	9:35	63.36	152.94		
BRE-MW1d	3/16/2019	9:18	58.00	158.30		
BRE-MW1d	4/15/2019	12:38	53.81	162.49		
BRE-MW1d	5/8/2019		N/M			
BRE-MW1d	6/14/2019	8:21	66.34	149.96		
BRE-MW1d	7/19/2019	10:12	75.47	140.83		
BRE-MW1d	8/16/2019	9:23	73.91	142.39		
BRE-MW1d	9/21/2019	9:34	75.75	140.55		
BRE-MW1d	10/25/2019	9:02	73.84	142.46		
BRE-MW1d	11/25/2019	9:13	69.65	146.65		
BRE-MW1d	12/9/2019	8:54	69.37	146.93		
BRE-MW2s	1/21/2013	12:27	63.30	163.84	<|0.05|	0
BRE-MW2s	2/11/2013	11:55	61.25	165.89	0.06	0.00
BRE-MW2s	3/18/2013	13:40	64.31	162.83	<|0.05|	0
BRE-MW2s	4/22/2013	9:40	73.60	153.54	0.25	0.01
BRE-MW2s	5/13/2013	14:05	78.12	149.02	1.08	0.05
BRE-MW2s	6/18/2013	12:15	85.40	141.74	0.07	0.00
BRE-MW2s	7/16/2013	12:20	91.26	135.88	<|0.05|	0
BRE-MW2s	8/12/2013	13:45	92.35	134.79	0.11	0.01
BRE-MW2s	9/10/2013	7:15	90.54	136.60	<|0.05|	0
BRE-MW2s	10/25/2013	12:26	82.06	145.08	<|0.05|	0
BRE-MW2s	11/26/2013	11:13	74.06	153.08	<|0.05|	0
BRE-MW2s	12/23/2013	9:00	74.07	153.07	<|0.05|	0
BRE-MW2s	1/13/2014	12:31	71.65	155.49	<|0.05|	0
BRE-MW2s	2/21/2014	11:55	71.86	155.28	-0.11	-0.01
BRE-MW2s	3/21/2014	9:41	67.04	160.10	<|0.05|	0
BRE-MW2s	4/11/2014	10:39	67.26	159.88	<|0.05|	0
BRE-MW2s	5/21/2014	7:33	79.81	147.33	0.15	0.01
BRE-MW2s	6/10/2014	13:44	90.11	137.03	0.08	0.00
BRE-MW2s	7/7/2014	11:54	94.49	132.65	<|0.05|	0
BRE-MW2s	8/11/2014	12:54	94.89	132.25	0.06	0.00
BRE-MW2s	9/23/2014	8:52	92.43	134.71	<|0.05|	0
BRE-MW2s	10/20/2014	9:05	87.39	139.75	<|0.05|	0
BRE-MW2s	11/10/2014	8:40	81.14	146.00	<|0.05|	0
BRE-MW2s	12/15/2014	10:46	75.30	151.84	<|0.05|	0
BRE-MW2s	1/8/2015	9:23	71.82	155.32	-0.06	-0.00
BRE-MW2s	2/26/2015	6:49	67.24	159.90	<|0.05|	0
BRE-MW2s	3/9/2015	9:19	69.12	158.02	<|0.05|	0
BRE-MW2s	4/24/2015	11:12	68.01	159.13	<|0.05|	0
BRE-MW2s	5/20/2015	8:50	82.98	144.16	<|0.05|	0
BRE-MW2s	6/15/2015	8:45	91.13	136.01	-0.07	-0.00
BRE-MW2s	7/27/2015	8:50	96.19	130.95	<|0.05|	0
BRE-MW2s	8/27/2015	7:19	95.54	131.60	<|0.05|	0
BRE-MW2s	9/11/2015	8:35	95.12	132.02	<|0.05|	0
BRE-MW2s	10/19/2015	9:50	90.33	136.81	-0.12	-0.01
BRE-MW2s	11/24/2015	7:09	80.27	146.87	0.06	0.00
BRE-MW2s	12/21/2015	8:15	76.93	150.21	<|0.05|	0
BRE-MW2s	1/7/2016	9:00	75.32	151.82	<|0.05|	0
BRE-MW2s	2/25/2016	7:00	70.21	156.93	<|0.05|	0
BRE-MW2s	3/17/2016	9:14	67.83	159.31	<|0.05|	0
BRE-MW2s	4/19/2016	8:43	69.46	157.68	<|0.05|	0

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
BRE-MW2s	5/27/2016	12:49	76.88	150.26	<|0.05|	0
BRE-MW2s	6/23/2016	8:10	77.03	150.11	0.14	0.01
BRE-MW2s	7/22/2016	7:45	94.12	133.02	0.06	0.00
BRE-MW2s	8/22/2016	7:43	96.55	130.59	<|0.05|	0
BRE-MW2s	9/24/2016	8:20	94.94	132.20	<|0.05|	0
BRE-MW2s	10/21/2016	8:31	84.51	142.63	<|0.05|	0
BRE-MW2s	11/3/2016	8:00	81.13	146.01	<|0.05|	0
BRE-MW2s	12/20/2016	9:00	74.21	152.93	<|0.05|	0
BRE-MW2s	1/6/2017	8:40	72.20	154.94	<|0.05|	0
BRE-MW2s	2/1/2017		N/M			
BRE-MW2s	3/13/2017	9:40	61.71	165.43	0.22	0.01
BRE-MW2s	4/17/2017	12:32	58.18	168.96	<|0.05|	0
BRE-MW2s	5/15/2017	9:45	68.90	158.24	<|0.05|	0
BRE-MW2s	6/8/2017	8:59	79.42	147.72	-0.08	-0.00
BRE-MW2s	7/7/2017	8:57	88.75	138.39	<|0.05|	0
BRE-MW2s	8/25/2017	9:17	91.45	135.69	<|0.05|	0
BRE-MW2s	9/18/2017	9:30	87.91	139.23	<|0.05|	0
BRE-MW2s	10/19/2017	8:40	85.15	141.99	<|0.05|	0
BRE-MW2s	11/30/2017	9:15	73.16	153.98	0.11	0.01
BRE-MW2s	12/29/2017	9:05	74.17	152.97	<|0.05|	0
BRE-MW2s	1/9/2018	8:40	71.27	155.87	-0.17	-0.01
BRE-MW2s	2/12/2018	9:24	69.19	157.95	-0.14	-0.01
BRE-MW2s	3/24/2018	10:42	68.44	158.70	<|0.05|	0
BRE-MW2s	4/26/2018	14:18	69.46	157.68	-0.38	-0.02
BRE-MW2s	5/29/2018	13:28	82.91	144.23	-0.58	-0.03
BRE-MW2s	6/15/2018	8:25	91.52	135.62	0.05	0.00
BRE-MW2s	7/10/2018	8:37	97.51	129.63	0.06	0.00
BRE-MW2s	8/13/2018	8:40	99.60	127.54	<|0.05|	0
BRE-MW2s	9/17/2018	14:26	97.16	129.98	<|0.05|	0
BRE-MW2s	10/22/2018	9:10	98.60	128.54	-5.99	-0.29
BRE-MW2s	11/19/2018	9:06	88.90	138.24	<|0.05|	0
BRE-MW2s	12/26/2018	8:29	91.44	135.70	<|0.05|	0
BRE-MW2s	1/8/2019	8:45	78.90	148.24	0.07	0.00
BRE-MW2s	2/12/2019	9:20	74.05	153.09	<|0.05|	0
BRE-MW2s	3/16/2019	8:58	68.30	158.84	0.05	0.00
BRE-MW2s	4/15/2019	12:22	64.00	163.14	<|0.05|	0
BRE-MW2s	5/8/2019	10:07	72.28	154.86		
BRE-MW2s	6/14/2019	8:06	77.87	149.27	0.07	0.00
BRE-MW2s	7/19/2019	9:54	88.13	139.01	0.08	0.00
BRE-MW2s	8/16/2019	8:51	92.24	134.90	0.13	0.01
BRE-MW2s	9/21/2019	9:10	86.42	140.72	0.05	0.00
BRE-MW2s	10/25/2019	8:46	83.90	143.24	0.12	0.01
BRE-MW2s	11/25/2019	8:49	80.11	147.03	0.06	0.00
BRE-MW2s	12/9/2019	8:34	76.60	150.54	<|0.05|	0
BRE-MW2d	1/21/2013	12:23	63.15	163.82		
BRE-MW2d	2/11/2013	12:01	61.14	165.83		
BRE-MW2d	3/18/2013	13:44	64.13	162.84		
BRE-MW2d	4/22/2013	9:45	73.68	153.29		
BRE-MW2d	5/13/2013	14:08	79.03	147.94		
BRE-MW2d	6/18/2013	12:20	85.30	141.67		
BRE-MW2d	7/16/2013	12:25	91.10	135.87		
BRE-MW2d	8/12/2013	13:48	92.29	134.68		
BRE-MW2d	9/10/2013	7:19	90.41	136.56		
BRE-MW2d	10/25/2013	12:32	81.87	145.10		
BRE-MW2d	11/26/2013	11:16	73.86	153.11		
BRE-MW2d	12/23/2013	9:05	73.90	153.07		
BRE-MW2d	1/13/2014	12:34	71.46	155.51		
BRE-MW2d	2/21/2014	12:00	71.58	155.39		
BRE-MW2d	3/21/2014	9:46	66.89	160.08		
BRE-MW2d	4/11/2014	10:42	67.13	159.84		
BRE-MW2d	5/21/2014	7:37	79.79	147.18		
BRE-MW2d	6/10/2014	13:49	90.02	136.95		
BRE-MW2d	7/7/2014	11:59	94.36	132.61		
BRE-MW2d	8/11/2014	12:56	94.78	132.19		
BRE-MW2d	9/23/2014	8:50	92.25	134.72		
BRE-MW2d	10/20/2014	9:10	87.25	139.72		
BRE-MW2d	11/10/2014	8:43	80.96	146.01		
BRE-MW2d	12/15/2014	10:48	75.12	151.85		
BRE-MW2d	1/8/2015	9:19	71.59	155.38		
BRE-MW2d	2/26/2015	6:52	67.04	159.93		
BRE-MW2d	3/9/2015	9:23	68.96	158.01		
BRE-MW2d	4/24/2015	11:17	67.84	159.13		
BRE-MW2d	5/20/2015	8:52	82.86	144.11		
BRE-MW2d	6/15/2015	8:50	90.89	136.08		
BRE-MW2d	7/27/2015	8:55	96.00	130.97		
BRE-MW2d	8/27/2015	7:22	95.38	131.59		
BRE-MW2d	9/11/2015	8:39	94.99	131.98		
BRE-MW2d	10/19/2015	9:55	90.04	136.93		
BRE-MW2d	11/24/2015	7:11	80.16	146.81		
BRE-MW2d	12/21/2015	8:18	76.73	150.24		
BRE-MW2d	1/7/2016	9:03	75.13	151.84		
BRE-MW2d	2/25/2016	7:03	70.02	156.95		
BRE-MW2d	3/17/2016	9:17	67.64	159.33		
BRE-MW2d	4/19/2016	8:46	69.27	157.70		
BRE-MW2d	5/27/2016	12:51	76.70	150.27		
BRE-MW2d	6/23/2016	8:15	77.00	149.97		
BRE-MW2d	7/22/2016	7:48	94.01	132.96		
BRE-MW2d	8/22/2016	7:46	96.36	130.61		
BRE-MW2d	9/24/2016	8:24	94.81	132.16		
BRE-MW2d	10/21/2016	8:34	84.32	142.65		
BRE-MW2d	11/3/2016	8:03	81.01	145.96		
BRE-MW2d	12/20/2016	9:05	74.00	152.97		
BRE-MW2d	1/6/2017	8:45	72.00	154.97		
BRE-MW2d	2/1/2017		N/M			
BRE-MW2d	3/13/2017	9:42	61.76	165.21		
BRE-MW2d	4/17/2017	12:35	57.99	168.98		
BRE-MW2d	5/15/2017	9:48	68.68	158.29		
BRE-MW2d	6/8/2017	8:58	79.17	147.80		
BRE-MW2d	7/7/2017	9:02	88.56	138.41		
BRE-MW2d	8/25/2017	9:23	91.28	135.69		
BRE-MW2d	9/18/2017	9:33	87.72	139.25		
BRE-MW2d	10/19/2017	8:43	85.00	141.97		
BRE-MW2d	11/30/2017	9:17	73.10	153.87		
BRE-MW2d	12/29/2017	9:02	74.00	152.97		
BRE-MW2d	1/9/2018	8:37	70.93	156.04		
BRE-MW2d	2/12/2018	9:27	68.88	158.09		
BRE-MW2d	3/24/2018	10:45	68.26	158.71		
BRE-MW2d	4/26/2018	14:20	68.91	158.06		
BRE-MW2d	5/29/2018	13:26	82.16	144.81		
BRE-MW2d	6/15/2018	8:29	91.40	135.57		
BRE-MW2d	7/10/2018	8:35	97.40	129.57		
BRE-MW2d	8/13/2018	8:41	99.47	127.50		
BRE-MW2d	9/17/2018	14:31	96.98	129.99		
BRE-MW2d	10/22/2018	9:12	92.44	134.53		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
BRE-MW2d	11/19/2018	9:04	88.71	138.26		
BRE-MW2d	12/26/2018	8:30	91.32	135.65		
BRE-MW2d	1/8/2019	8:42	78.80	148.17		
BRE-MW2d	2/12/2019	9:22	73.90	153.07		
BRE-MW2d	3/16/2019	8:57	68.18	158.79		
BRE-MW2d	4/15/2019	12:25	63.85	163.12		
BRE-MW2d	5/8/2019		N/M			
BRE-MW2d	6/14/2019	8:07	77.77	149.20		
BRE-MW2d	7/19/2019	9:50	88.04	138.93		
BRE-MW2d	8/16/2019	8:48	92.20	134.77		
BRE-MW2d	9/21/2019	9:15	86.30	140.67		
BRE-MW2d	10/25/2019	8:48	83.85	143.12		
BRE-MW2d	11/25/2019	8:47	80.00	146.97		
BRE-MW2d	12/9/2019	8:32	76.44	150.53		
BRE-MW3s	1/21/2013	13:10	51.10	161.88	<|0.05|	0
BRE-MW3s	2/11/2013	12:12	49.46	163.52	<|0.05|	0
BRE-MW3s	3/18/2013	13:52	51.92	161.06	0.18	0.01
BRE-MW3s	4/22/2013	10:15	73.68	139.30	-12.86	-1.03
BRE-MW3s	5/13/2013	14:20	67.18	145.80	-0.07	-0.01
BRE-MW3s	6/18/2013	13:02	73.04	139.94	<|0.05|	0
BRE-MW3s	7/16/2013	13:01	79.48	133.50	<|0.05|	0
BRE-MW3s	8/12/2013	14:05	80.65	132.33	<|0.05|	0
BRE-MW3s	9/10/2013	6:49	78.33	134.65	<|0.05|	0
BRE-MW3s	10/25/2013	12:00	69.54	143.44	<|0.05|	0
BRE-MW3s	11/26/2013	11:25	61.25	151.73	-0.07	-0.01
BRE-MW3s	12/23/2013	8:40	62.13	150.85	-0.08	-0.01
BRE-MW3s	1/13/2014	12:14	59.32	153.66	<|0.05|	0
BRE-MW3s	2/21/2014	11:40	70.22	142.76	-9.02	-0.72
BRE-MW3s	3/21/2014	10:29	54.85	158.13	<|0.05|	0
BRE-MW3s	4/11/2014	11:18	54.60	158.38	<|0.05|	0
BRE-MW3s	5/21/2014	7:53	68.23	144.75	<|0.05|	0
BRE-MW3s	6/10/2014	14:17	77.28	135.70	<|0.05|	0
BRE-MW3s	7/7/2014	11:37	81.48	131.50	<|0.05|	0
BRE-MW3s	8/11/2014	13:11	81.41	131.57	-0.15	-0.01
BRE-MW3s	9/23/2014	9:20	78.98	134.00	<|0.05|	0
BRE-MW3s	10/20/2014	9:35	73.93	139.05	<|0.05|	0
BRE-MW3s	11/10/2014	8:30	67.41	145.57	<|0.05|	0
BRE-MW3s	12/15/2014	11:15	62.59	150.39	-0.06	-0.00
BRE-MW3s	1/8/2015	9:06	58.52	154.46	<|0.05|	0
BRE-MW3s	2/26/2015	7:04	54.46	158.52	-0.22	-0.02
BRE-MW3s	3/9/2015	9:01	57.60	155.38	<|0.05|	0
BRE-MW3s	4/24/2015	11:28	55.61	157.37	-0.22	-0.02
BRE-MW3s	5/20/2015	9:10	69.22	143.76	<|0.05|	0
BRE-MW3s	6/15/2015	9:25	77.27	135.71	<|0.05|	0
BRE-MW3s	7/27/2015	9:20	82.07	130.91	<|0.05|	0
BRE-MW3s	8/27/2015	7:05	81.70	131.28	-0.13	-0.01
BRE-MW3s	9/11/2015	9:17	81.61	131.37	<|0.05|	0
BRE-MW3s	10/19/2015	9:20	77.13	135.85	-0.17	-0.01
BRE-MW3s	11/24/2015	6:53	66.98	146.00	<|0.05|	0
BRE-MW3s	12/21/2015	8:55	63.77	149.21	<|0.05|	0
BRE-MW3s	1/7/2016	9:45	62.21	150.77	<|0.05|	0
BRE-MW3s	2/25/2016	6:49	57.19	155.79	<|0.05|	0
BRE-MW3s	3/17/2016	8:47	54.85	158.13	-0.05	-0.00
BRE-MW3s	4/19/2016	8:30	56.80	156.18	-0.19	-0.02
BRE-MW3s	5/27/2016	12:40	64.27	148.71	-0.22	-0.02
BRE-MW3s	6/23/2016	8:45	64.55	148.43	-0.25	-0.02
BRE-MW3s	7/22/2016	8:20	80.62	132.36	<|0.05|	0
BRE-MW3s	8/22/2016	7:32	82.66	130.32	<|0.05|	0
BRE-MW3s	9/24/2016	8:50	81.17	131.81	-0.06	-0.00
BRE-MW3s	10/21/2016	8:50	70.49	142.49	<|0.05|	0
BRE-MW3s	11/3/2016	8:25	67.45	145.53	<|0.05|	0
BRE-MW3s	12/20/2016	9:55	60.93	152.05	<|0.05|	0
BRE-MW3s	1/6/2017	9:30	59.00	153.98	-0.08	-0.01
BRE-MW3s	2/1/2017		N/M			
BRE-MW3s	3/13/2017	9:27	48.60	164.38	<|0.05|	0
BRE-MW3s	4/17/2017	12:47	45.78	167.20	-0.05	-0.00
BRE-MW3s	5/15/2017	9:39	56.80	156.18	-0.15	-0.01
BRE-MW3s	6/8/2017	8:50	69.91	143.07	-4.02	-0.32
BRE-MW3s	7/7/2017	9:53	74.62	138.36	0.92	0.07
BRE-MW3s	8/25/2017	8:44	76.48	136.50	0.85	0.07
BRE-MW3s	9/18/2017	9:49	Q/M			
BRE-MW3s	10/19/2017	8:25	72.02	140.96	<|0.05|	0
BRE-MW3s	11/30/2017	9:03	61.70	151.28	<|0.05|	0
BRE-MW3s	12/29/2017	8:45	60.60	152.38	0.06	0.00
BRE-MW3s	1/9/2018	8:26	58.00	154.98	0.13	0.01
BRE-MW3s	2/12/2018	9:00	56.91	156.07	-0.52	-0.04
BRE-MW3s	3/24/2018	10:19	55.73	157.25	<|0.05|	0
BRE-MW3s	4/26/2018	14:00	56.99	155.99	-0.42	-0.03
BRE-MW3s	5/29/2018	13:17	69.64	143.34	<|0.05|	0
BRE-MW3s	6/15/2018	8:00	78.90	134.08	<|0.05|	0
BRE-MW3s	7/10/2018	8:25	83.34	129.64	<|0.05|	0
BRE-MW3s	8/13/2018	8:25	85.40	127.58	<|0.05|	0
BRE-MW3s	9/17/2018	15:00	82.40	130.58	<|0.05|	0
BRE-MW3s	10/22/2018		78.96	134.02	-0.08	-0.01
BRE-MW3s	11/19/2018	8:45	74.32	138.66	<|0.05|	0
BRE-MW3s	12/26/2018	8:20	78.70	134.28	<|0.05|	0
BRE-MW3s	1/8/2019	8:21	65.25	147.73	<|0.05|	0
BRE-MW3s	2/12/2019	9:06	60.47	152.51	-0.05	-0.00
BRE-MW3s	3/16/2019	8:35	54.60	158.38	<|0.05|	0
BRE-MW3s	4/15/2019	12:10	50.75	162.23	-0.09	-0.01
BRE-MW3s	5/8/2019	8:32	60.68	152.30	<|0.05|	0
BRE-MW3s	6/14/2019	8:39	66.14	146.84	-0.16	-0.01
BRE-MW3s	7/19/2019	10:28	73.82	139.16	<|0.05|	0
BRE-MW3s	8/16/2019	8:36	78.79	134.19	-0.05	-0.00
BRE-MW3s	9/21/2019	8:42	72.22	140.76	<|0.05|	0
BRE-MW3s	10/25/2019	9:20	70.50	142.48	2.59	0.21
BRE-MW3s	11/25/2019	8:35	76.73	136.25	0.05	0.00
BRE-MW3s	12/9/2019	9:15	63.30	149.68	<|0.05|	0
BRE-MW3d	1/21/2013	13:15	51.11	161.88		
BRE-MW3d	2/11/2013	12:15	49.48	163.51		
BRE-MW3d	3/18/2013	13:56	52.11	160.88		
BRE-MW3d	4/22/2013	10:18	60.83	152.16		
BRE-MW3d	5/13/2013	14:22	67.12	145.87		
BRE-MW3d	6/18/2013	13:10	73.02	139.97		
BRE-MW3d	7/16/2013	13:08	79.45	133.54		
BRE-MW3d	8/12/2013	14:08	80.67	132.32		
BRE-MW3d	9/10/2013	6:55	78.29	134.70		
BRE-MW3d	10/25/2013	12:04	69.51	143.48		
BRE-MW3d	11/26/2013	11:28	61.19	151.80		
BRE-MW3d	12/23/2013	8:45	62.06	150.93		
BRE-MW3d	1/13/2014	12:16	59.30	153.69		
BRE-MW3d	2/21/2014	11:45	61.21	151.78		
BRE-MW3d	3/21/2014	10:33	54.88	158.11		
BRE-MW3d	4/11/2014	11:22	54.60	158.39		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
BRE-MW3d	5/21/2014	7:56	68.23	144.76		
BRE-MW3d	6/10/2014	14:20	77.28	135.71		
BRE-MW3d	7/7/2014	11:32	81.53	131.46		
BRE-MW3d	8/11/2014	13:13	81.27	131.72		
BRE-MW3d	9/23/2014	9:18	78.95	134.04		
BRE-MW3d	10/20/2014	9:40	73.92	139.07		
BRE-MW3d	11/10/2014	8:33	67.45	145.54		
BRE-MW3d	12/15/2014	11:17	62.54	150.45		
BRE-MW3d	1/8/2015	9:09	58.55	154.44		
BRE-MW3d	2/26/2015	7:07	54.25	158.74		
BRE-MW3d	3/9/2015	8:56	57.57	155.42		
BRE-MW3d	4/24/2015	11:33	55.40	157.59		
BRE-MW3d	5/20/2015	9:08	69.28	143.71		
BRE-MW3d	6/15/2015	9:30	77.30	135.69		
BRE-MW3d	7/27/2015	9:24	82.04	130.95		
BRE-MW3d	8/27/2015	7:08	81.58	131.41		
BRE-MW3d	9/11/2015	9:21	81.63	131.36		
BRE-MW3d	10/19/2015	9:25	76.97	136.02		
BRE-MW3d	11/24/2015	6:56	67.03	145.96		
BRE-MW3d	12/21/2015	8:58	63.75	149.24		
BRE-MW3d	1/7/2016	9:48	62.20	150.79		
BRE-MW3d	2/25/2016	6:51	57.17	155.82		
BRE-MW3d	3/17/2016	8:50	54.81	158.18		
BRE-MW3d	4/19/2016	8:34	56.62	156.37		
BRE-MW3d	5/27/2016	12:43	64.06	148.93		
BRE-MW3d	6/23/2016	8:50	64.31	148.68		
BRE-MW3d	7/22/2016	8:23	80.63	132.36		
BRE-MW3d	8/22/2016	7:35	82.63	130.36		
BRE-MW3d	9/24/2016	8:52	81.12	131.87		
BRE-MW3d	10/21/2016	8:53	70.47	142.52		
BRE-MW3d	11/3/2016	8:27	67.46	145.53		
BRE-MW3d	12/20/2016	10:00	60.91	152.08		
BRE-MW3d	1/6/2017	9:33	58.93	154.06		
BRE-MW3d	2/1/2017		N/M			
BRE-MW3d	3/13/2017	9:30	48.64	164.35		
BRE-MW3d	4/17/2017	12:49	45.74	167.25		
BRE-MW3d	5/15/2017	9:40	56.66	156.33		
BRE-MW3d	6/8/2017	8:51	65.90	147.09		
BRE-MW3d	7/7/2017	9:50	75.55	137.44		
BRE-MW3d	8/25/2017	8:48	77.34	135.65		
BRE-MW3d	9/18/2017	9:51	Q/M			
BRE-MW3d	10/19/2017	8:28	72.04	140.95		
BRE-MW3d	11/30/2017	9:00	61.75	151.24		
BRE-MW3d	12/29/2017	8:47	60.67	152.32		
BRE-MW3d	1/9/2018	8:24	58.14	154.85		
BRE-MW3d	2/12/2018	9:03	56.40	156.59		
BRE-MW3d	3/24/2018	10:21	55.71	157.28		
BRE-MW3d	4/26/2018	14:02	56.58	156.41		
BRE-MW3d	5/29/2018	13:19	69.60	143.39		
BRE-MW3d	6/15/2018	8:03	78.95	134.04		
BRE-MW3d	7/10/2018	8:26	83.37	129.62		
BRE-MW3d	8/13/2018	8:26	85.43	127.56		
BRE-MW3d	9/17/2018	14:55	82.44	130.55		
BRE-MW3d	10/22/2018		78.89	134.10		
BRE-MW3d	11/19/2018	8:48	74.35	138.64		
BRE-MW3d	12/26/2018	8:17	78.73	134.26		
BRE-MW3d	1/8/2019	8:24	65.30	147.69		
BRE-MW3d	2/12/2019	9:05	60.43	152.56		
BRE-MW3d	3/16/2019	8:40	54.66	158.33		
BRE-MW3d	4/15/2019	12:13	50.67	162.32		
BRE-MW3d	5/8/2019	8:35	60.67	152.32		
BRE-MW3d	6/14/2019	8:39	65.99	147.00		
BRE-MW3d	7/19/2019	10:25	73.87	139.12		
BRE-MW3d	8/16/2019	8:39	78.75	134.24		
BRE-MW3d	9/21/2019	8:46	72.21	140.78		
BRE-MW3d	10/25/2019	9:22	73.10	139.89		
BRE-MW3d	11/25/2019	8:38	76.79	136.20		
BRE-MW3d	12/9/2019	9:18	63.30	149.69		
CRE-MW1s	1/21/2013	10:51	2.45	215.97		
CRE-MW1s	2/11/2013	10:01	2.33	216.09		
CRE-MW1s	3/18/2013	11:30	3.31	215.11		
CRE-MW1s	4/22/2013	11:11	2.97	215.45		
CRE-MW1s	5/13/2013	9:10	3.28	215.14		
CRE-MW1s	6/18/2013	11:01	2.14	216.28		
CRE-MW1s	7/16/2013	10:42	2.16	216.26		
CRE-MW1s	8/12/2013	11:55	2.15	216.27		
CRE-MW1s	9/10/2013	8:05	1.87	216.55		
CRE-MW1s	10/25/2013	10:03	1.74	216.68		
CRE-MW1s	11/26/2013	13:58	2.16	216.26		
CRE-MW1s	12/23/2013	10:05	2.76	215.66		
CRE-MW1s	1/13/2014	9:18	3.49	214.93		
CRE-MW1s	2/21/2014	14:20	1.79	216.63		
CRE-MW1s	3/21/2014	8:57	2.25	216.17		
CRE-MW1s	4/11/2014	9:26	3.06	215.36		
CRE-MW1s	5/20/2014	10:51	3.97	214.45		
CRE-MW1s	6/10/2014	12:30	3.85	214.57		
CRE-MW1s	7/7/2014	10:20	5.64	212.78		
CRE-MW1s	8/11/2014	10:38	6.85	211.57		
CRE-MW1s	9/23/2014	10:10	4.78	213.64		
CRE-MW1s	10/20/2014	11:10	3.66	214.76		
CRE-MW1s	11/10/2014	13:55	4.34	214.08		
CRE-MW1s	12/15/2014	9:48	1.24	217.18		
CRE-MW1s	1/8/2015	10:43	1.75	216.67		
CRE-MW1s	2/26/2015	9:44	2.81	215.61		
CRE-MW1s	3/9/2015	10:33	3.52	214.90		
CRE-MW1s	4/24/2015	9:35	2.99	215.43		
CRE-MW1s	5/21/2015	11:45	3.75	214.67		
CRE-MW1s	6/15/2015	10:30	4.04	214.38		
CRE-MW1s	7/27/2015	10:15	5.65	212.77		
CRE-MW1s	8/27/2015	10:07	6.63	211.79		
CRE-MW1s	9/11/2015	9:56	7.07	211.35		
CRE-MW1s	10/19/2015	11:25	6.78	211.64		
CRE-MW1s	11/24/2015	9:47	6.73	211.69		
CRE-MW1s	12/21/2015	10:00	4.83	213.59		
CRE-MW1s	1/7/2016	10:20	4.45	213.97		
CRE-MW1s	2/25/2016	10:03	3.36	215.06		
CRE-MW1s	3/17/2016	10:33	1.48	216.94		
CRE-MW1s	4/19/2016	10:00	4.12	214.30		
CRE-MW1s	5/27/2016	14:35	2.85	215.57		
CRE-MW1s	6/22/2016	9:30	4.09	214.33		
CRE-MW1s	7/22/2016	9:18	3.45	214.97		
CRE-MW1s	8/22/2016	10:23	3.03	215.39		
CRE-MW1s	9/24/2016	9:25	3.65	214.77		
CRE-MW1s	10/21/2016	10:32	4.33	214.09		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
CRE-MW1s	11/3/2016	10:55	4.00	214.42		
CRE-MW1s	12/20/2016	11:20	2.55	215.87		
CRE-MW1s	1/6/2017	10:17	1.70	216.72		
CRE-MW1s	2/1/2017		N/M			
CRE-MW1s	3/13/2017	12:33	3.72	214.70		
CRE-MW1s	4/17/2017	13:34	2.78	215.64		
CRE-MW1s	5/19/2017	10:27	2.64	215.78		
CRE-MW1s	6/8/2017	9:43	2.91	215.51		
CRE-MW1s	7/7/2017	10:32	3.49	214.93		
CRE-MW1s	8/29/2017	8:36	4.40	214.02		
CRE-MW1s	9/18/2017	10:47	4.70	213.72		
CRE-MW1s	10/18/2017	9:37	4.30	214.12		
CRE-MW1s	11/30/2017	8:24	3.73	214.69		
CRE-MW1s	12/29/2017	9:58	5.44	212.98		
CRE-MW1s	1/9/2018	9:22	5.85	212.57		
CRE-MW1s	2/12/2018	8:43	4.56	213.86		
CRE-MW1s	3/24/2018	9:10	4.99	213.43		
CRE-MW1s	4/26/2018	15:19	2.06	216.36		
CRE-MW1s	5/30/2018	8:26	4.30	214.12		
CRE-MW1s	6/15/2018	9:33	3.53	214.89		
CRE-MW1s	7/10/2018	9:50	2.61	215.81		
CRE-MW1s	8/13/2018	11:30	2.27	216.15		
CRE-MW1s	9/21/2018	11:58	2.46	215.96		
CRE-MW1s	10/22/2018	10:20	4.41	214.01		
CRE-MW1s	11/19/2018	8:46	5.71	212.71		
CRE-MW1s	12/26/2018	9:18	3.11	215.31		
CRE-MW1s	1/8/2019	9:50	2.62	215.80		
CRE-MW1s	2/12/2019	8:29	.07	218.35		
CRE-MW1s	3/16/2019	10:06	1.95	216.47		
CRE-MW1s	4/15/2019	13:20	2.89	215.53		
CRE-MW1s	5/7/2019	8:31	4.08	214.34		
CRE-MW1s	6/14/2019	9:20	4.16	214.26		
CRE-MW1s	7/19/2019	10:58	4.31	214.11		
CRE-MW1s	8/16/2019	10:10	4.20	214.22		
CRE-MW1s	9/21/2019	11:30	5.10	213.32		
CRE-MW1s	10/25/2019	10:10	4.65	213.77		
CRE-MW1s	11/25/2019	10:19	5.50	212.92		
CRE-MW1s	12/9/2019	10:25	3.07	215.35		
CRE-MW1d	1/21/2013	10:54	83.88	134.53		
CRE-MW1d	2/11/2013	10:06	83.15	135.26		
CRE-MW1d	3/18/2013	11:34	84.25	134.16		
CRE-MW1d	4/22/2013	11:15	86.93	131.48		
CRE-MW1d	5/13/2013	9:18	89.09	129.32		
CRE-MW1d	6/18/2013	11:05	86.41	132.00		
CRE-MW1d	7/16/2013	10:47	87.05	131.36		
CRE-MW1d	8/12/2013	11:57	75.47	142.94		
CRE-MW1d	9/10/2013	8:10	95.44	122.97		
CRE-MW1d	10/25/2013	10:30	94.61	123.80		
CRE-MW1d	11/26/2013	13:59	92.17	126.24		
CRE-MW1d	12/23/2013	10:08	92.22	126.19		
CRE-MW1d	1/13/2014	9:12	92.50	125.91		
CRE-MW1d	2/21/2014	14:23	94.69	123.72		
CRE-MW1d	3/21/2014	8:59	89.81	128.60		
CRE-MW1d	4/11/2014	9:30	89.16	129.25		
CRE-MW1d	5/20/2014	10:53	95.25	123.16		
CRE-MW1d	6/10/2014	12:33	97.82	120.59		
CRE-MW1d	7/7/2014	10:14	100.73	117.68		
CRE-MW1d	8/11/2014	10:41	103.09	115.32		
CRE-MW1d	9/23/2014	10:08	103.32	115.09		
CRE-MW1d	10/20/2014	11:15	105.32	113.09		
CRE-MW1d	11/10/2014	13:58	104.73	113.68		
CRE-MW1d	12/15/2014	9:50	103.08	115.33		
CRE-MW1d	1/8/2015	10:41	101.40	117.01		
CRE-MW1d	2/26/2015	9:47	98.82	119.59		
CRE-MW1d	3/9/2015	10:35	98.94	119.47		
CRE-MW1d	4/24/2015	9:40	100.70	117.71		
CRE-MW1d	5/21/2015	11:46	103.53	114.88		
CRE-MW1d	6/15/2015	10:35	106.44	111.97		
CRE-MW1d	7/27/2015	10:18	109.67	108.74		
CRE-MW1d	8/27/2015	10:10	111.20	107.21		
CRE-MW1d	9/11/2015	10:00	111.53	106.88		
CRE-MW1d	10/19/2015	11:30	112.37	106.04		
CRE-MW1d	11/24/2015	9:49	111.02	107.39		
CRE-MW1d	12/21/2015	10:05	109.92	108.49		
CRE-MW1d	1/7/2016	10:23	109.20	109.21		
CRE-MW1d	2/25/2016	10:05	106.46	111.95		
CRE-MW1d	3/17/2016	10:35	105.28	113.13		
CRE-MW1d	4/19/2016	10:02	104.35	114.06		
CRE-MW1d	5/27/2016	14:37	105.54	112.87		
CRE-MW1d	6/22/2016	9:35	105.97	112.44		
CRE-MW1d	7/22/2016	9:20	110.81	107.60		
CRE-MW1d	8/22/2016	10:26	112.12	106.29		
CRE-MW1d	9/24/2016	9:27	112.70	105.71		
CRE-MW1d	10/21/2016	10:35	112.38	106.03		
CRE-MW1d	11/3/2016	10:57	112.26	106.15		
CRE-MW1d	12/20/2016	11:23	110.53	107.88		
CRE-MW1d	1/6/2017	10:20	109.80	108.61		
CRE-MW1d	2/1/2017		N/M			
CRE-MW1d	3/13/2017	12:30	110.42	107.99		
CRE-MW1d	4/17/2017	13:36	103.62	114.79		
CRE-MW1d	5/19/2017	10:29	105.14	113.27		
CRE-MW1d	6/8/2017	9:45	105.98	112.43		
CRE-MW1d	7/7/2017	10:36	108.17	110.24		
CRE-MW1d	8/29/2017	8:38	110.77	107.64		
CRE-MW1d	9/18/2017	10:50	96.71	121.70		
CRE-MW1d	10/18/2017	9:40	110.89	107.52		
CRE-MW1d	11/30/2017	8:25	109.54	108.87		
CRE-MW1d	12/29/2017	10:00	Q/M			
CRE-MW1d	1/9/2018	9:21	107.10	111.31		
CRE-MW1d	2/12/2018	8:45	105.90	112.51		
CRE-MW1d	3/24/2018	9:06	106.02	112.39		
CRE-MW1d	4/26/2018	15:21	110.50	107.91		
CRE-MW1d	5/30/2018	8:28	113.10	105.31		
CRE-MW1d	6/15/2018	9:35	110.86	107.55		
CRE-MW1d	7/10/2018	9:52	112.89	105.52		
CRE-MW1d	8/13/2018	11:31	113.90	104.51		
CRE-MW1d	9/21/2018	12:00	114.09	104.32		
CRE-MW1d	10/22/2018	10:22	116.22	102.19		
CRE-MW1d	11/19/2018	8:47	116.70	101.71		
CRE-MW1d	12/26/2018	9:16	108.32	110.09		
CRE-MW1d	1/8/2019	9:51	114.40	104.01		
CRE-MW1d	2/12/2019	8:30	111.98	106.43		
CRE-MW1d	3/16/2019	10:09	107.56	110.85		
CRE-MW1d	4/15/2019	13:25	108.33	110.08		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
CRE-MW1d	5/7/2019	8:32	108.49	109.92		
CRE-MW1d	6/14/2019	9:22	108.12	110.29		
CRE-MW1d	7/19/2019	11:00	111.32	107.09		
CRE-MW1d	8/16/2019	10:12	112.80	105.61		
CRE-MW1d	9/21/2019	11:35	113.90	104.51		
CRE-MW1d	10/25/2019	10:12	113.84	104.57		
CRE-MW1d	11/25/2019	10:20	113.15	105.26		
CRE-MW1d	12/9/2019	10:23	108.88	109.53		
CRE-MW2s	1/21/2013	11:00	2.85	214.37	2.02	0.12
CRE-MW2s	2/11/2013	10:21	3.31	213.91	1.43	0.08
CRE-MW2s	3/18/2013	12:12	4.06	213.16	0.98	0.06
CRE-MW2s	4/22/2013	11:33	4.17	213.05	0.81	0.05
CRE-MW2s	5/13/2013	9:28	4.43	212.79	0.80	0.05
CRE-MW2s	6/18/2013	11:13	3.59	213.63	0.37	0.02
CRE-MW2s	7/16/2013	10:30	3.55	213.67	0.60	0.04
CRE-MW2s	8/12/2013	11:49	3.16	214.06	0.68	0.04
CRE-MW2s	9/10/2013	8:16	3.19	214.03	0.46	0.03
CRE-MW2s	10/25/2013	10:37	3.50	213.72	0.64	0.04
CRE-MW2s	11/26/2013	14:08	4.76	212.46	0.49	0.03
CRE-MW2s	12/23/2013	10:18	4.62	212.60	0.75	0.04
CRE-MW2s	1/13/2014	9:36	4.58	212.64	0.69	0.04
CRE-MW2s	2/21/2014	14:28	3.56	213.66	1.30	0.08
CRE-MW2s	3/21/2014	9:05	4.07	213.15	-0.16	-0.01
CRE-MW2s	4/11/2014	9:35	3.88	213.34	0.52	0.03
CRE-MW2s	5/20/2014	10:58	5.27	211.95	0.54	0.03
CRE-MW2s	6/10/2014	12:36	5.87	211.35	0.52	0.03
CRE-MW2s	7/7/2014	10:36	6.41	210.81	0.50	0.03
CRE-MW2s	8/11/2014	10:49	6.94	210.28	0.54	0.03
CRE-MW2s	9/23/2014	10:18	5.10	212.12	0.48	0.03
CRE-MW2s	10/20/2014	11:20	4.55	212.67	0.53	0.03
CRE-MW2s	11/10/2014	14:05	4.77	212.45	0.50	0.03
CRE-MW2s	12/15/2014	9:53	2.64	214.58	0.61	0.04
CRE-MW2s	1/8/2015	10:54	3.25	213.97	0.48	0.03
CRE-MW2s	2/26/2015	9:36	3.94	213.28	0.52	0.03
CRE-MW2s	3/9/2015	10:44	4.16	213.06	0.50	0.03
CRE-MW2s	4/24/2015	9:49	5.00	212.22	0.55	0.03
CRE-MW2s	5/21/2015	11:49	5.21	212.01	0.61	0.04
CRE-MW2s	6/15/2015	10:40	5.74	211.48	0.66	0.04
CRE-MW2s	7/27/2015	10:24	6.72	210.50	0.59	0.03
CRE-MW2s	8/27/2015	10:16	7.50	209.72	0.71	0.04
CRE-MW2s	9/11/2015	10:08	7.50	209.72	0.65	0.04
CRE-MW2s	10/19/2015	11:40	8.04	209.18	0.91	0.05
CRE-MW2s	11/24/2015	9:55	6.83	210.39	0.98	0.06
CRE-MW2s	12/21/2015	10:15	7.62	209.60	0.60	0.04
CRE-MW2s	1/7/2016	10:32	7.35	209.87	0.73	0.04
CRE-MW2s	2/25/2016	10:11	4.65	212.57	0.63	0.04
CRE-MW2s	3/17/2016	10:43	3.30	213.92	0.67	0.04
CRE-MW2s	4/19/2016	10:11	4.29	212.93	0.68	0.04
CRE-MW2s	5/27/2016	14:40	4.66	212.56	0.61	0.04
CRE-MW2s	6/22/2016	9:45	6.06	211.16	-0.70	-0.04
CRE-MW2s	7/22/2016	9:34	5.14	212.08	0.57	0.03
CRE-MW2s	8/22/2016	10:31	4.94	212.28	0.64	0.04
CRE-MW2s	9/24/2016	9:35	5.41	211.81	0.66	0.04
CRE-MW2s	10/21/2016	10:45	6.01	211.21	-0.72	-0.04
CRE-MW2s	11/3/2016	11:02	6.12	211.10	0.57	0.03
CRE-MW2s	12/20/2016	11:30	4.78	212.44	0.62	0.04
CRE-MW2s	1/6/2017	10:28	4.25	212.97	0.65	0.04
CRE-MW2s	2/1/2017		N/M			
CRE-MW2s	3/13/2017	12:37	5.82	211.40	0.17	0.01
CRE-MW2s	4/17/2017	13:41	3.97	213.25	0.54	0.03
CRE-MW2s	5/19/2017	10:35	4.78	212.44	0.20	0.01
CRE-MW2s	6/8/2017	9:39	4.50	212.72	-1.54	-0.09
CRE-MW2s	7/7/2017	10:47	4.92	212.30	0.47	0.03
CRE-MW2s	8/29/2017	8:44	5.45	211.77	0.55	0.03
CRE-MW2s	9/18/2017	10:56	5.80	211.42	0.14	0.01
CRE-MW2s	10/18/2017	9:44	5.90	211.32	0.50	0.03
CRE-MW2s	11/30/2017	8:28	5.55	211.67	1.37	0.08
CRE-MW2s	12/29/2017	10:04	5.95	211.27	0.50	0.03
CRE-MW2s	1/9/2018	9:29	5.16	212.06	-0.31	-0.02
CRE-MW2s	2/12/2018	8:52	5.14	212.08	0.59	0.03
CRE-MW2s	3/24/2018	9:00	6.09	211.13	0.52	0.03
CRE-MW2s	4/26/2018	15:27	4.80	212.42	0.32	0.02
CRE-MW2s	5/30/2018	8:38	5.22	212.00	<|0.05|	0
CRE-MW2s	6/15/2018	9:43	4.62	212.60	0.46	0.03
CRE-MW2s	7/10/2018	9:40	3.97	213.25	0.51	0.03
CRE-MW2s	8/13/2018	11:15	3.78	213.44	0.46	0.03
CRE-MW2s	9/21/2018	12:09	4.08	213.14	0.20	0.01
CRE-MW2s	10/22/2018	10:28	5.66	211.56	0.32	0.02
CRE-MW2s	11/19/2018	8:40	6.67	210.55	0.38	0.02
CRE-MW2s	12/26/2018	9:25	4.19	213.03	0.59	0.03
CRE-MW2s	1/8/2019	9:59	5.42	211.80	0.38	0.02
CRE-MW2s	2/12/2019	8:12	2.42	214.80	0.63	0.04
CRE-MW2s	3/16/2019	10:21	2.90	214.32	0.58	0.03
CRE-MW2s	4/15/2019	13:36	3.59	213.63	0.44	0.03
CRE-MW2s	5/7/2019	8:23	5.26	211.96	0.42	0.02
CRE-MW2s	6/14/2019	9:28	5.52	211.70	-0.44	-0.03
CRE-MW2s	7/19/2019	11:08	4.79	212.43	0.37	0.02
CRE-MW2s	8/16/2019	10:16	4.55	212.67	0.35	0.02
CRE-MW2s	9/21/2019	10:46	5.22	212.00	0.41	0.02
CRE-MW2s	10/25/2019	10:05	5.20	212.02	0.40	0.02
CRE-MW2s	11/25/2019	10:26	6.58	210.64	0.37	0.02
CRE-MW2s	12/9/2019	10:30	3.98	213.24	0.82	0.05
CRE-MW2d	1/21/2013	11:04	4.89	212.35		
CRE-MW2d	2/11/2013	10:27	4.76	212.48		
CRE-MW2d	3/18/2013	12:17	5.06	212.18		
CRE-MW2d	4/22/2013	11:36	5.00	212.24		
CRE-MW2d	5/13/2013	9:30	5.25	211.99		
CRE-MW2d	6/18/2013	11:18	3.98	213.26		
CRE-MW2d	7/16/2013	10:36	4.17	213.07		
CRE-MW2d	8/12/2013	11:52	3.86	213.38		
CRE-MW2d	9/10/2013	8:20	3.67	213.57		
CRE-MW2d	10/25/2013	10:40	4.16	213.08		
CRE-MW2d	11/26/2013	14:12	5.27	211.97		
CRE-MW2d	12/23/2013	10:22	5.39	211.85		
CRE-MW2d	1/13/2014	9:30	5.29	211.95		
CRE-MW2d	2/21/2014	14:30	4.88	212.36		
CRE-MW2d	3/21/2014	9:08	3.93	213.31		
CRE-MW2d	4/11/2014	9:42	4.42	212.82		
CRE-MW2d	5/20/2014	11:01	5.83	211.41		
CRE-MW2d	6/10/2014	12:39	6.41	210.83		
CRE-MW2d	7/7/2014	10:32	6.93	210.31		
CRE-MW2d	8/11/2014	10:51	7.50	209.74		
CRE-MW2d	9/23/2014	10:16	5.60	211.64		
CRE-MW2d	10/20/2014	11:25	5.10	212.14		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
CRE-MW2d	11/10/2014	14:08	5.29	211.95		
CRE-MW2d	12/15/2014	9:55	3.27	213.97		
CRE-MW2d	1/8/2015	10:51	3.75	213.49		
CRE-MW2d	2/26/2015	9:39	4.48	212.76		
CRE-MW2d	3/9/2015	10:46	4.68	212.56		
CRE-MW2d	4/24/2015	9:53	5.57	211.67		
CRE-MW2d	5/21/2015	11:52	5.84	211.40		
CRE-MW2d	6/15/2015	10:45	6.42	210.82		
CRE-MW2d	7/27/2015	10:27	7.33	209.91		
CRE-MW2d	8/27/2015	10:19	8.23	209.01		
CRE-MW2d	9/11/2015	10:12	8.17	209.07		
CRE-MW2d	10/19/2015	11:45	8.97	208.27		
CRE-MW2d	11/24/2015	9:57	7.83	209.41		
CRE-MW2d	12/21/2015	10:18	8.24	209.00		
CRE-MW2d	1/7/2016	10:35	8.10	209.14		
CRE-MW2d	2/25/2016	10:13	5.30	211.94		
CRE-MW2d	3/17/2016	10:45	3.99	213.25		
CRE-MW2d	4/19/2016	10:13	4.99	212.25		
CRE-MW2d	5/27/2016	14:42	5.29	211.95		
CRE-MW2d	6/22/2016	9:50	5.38	211.86		
CRE-MW2d	7/22/2016	9:36	5.73	211.51		
CRE-MW2d	8/22/2016	10:34	5.60	211.64		
CRE-MW2d	9/24/2016	9:37	6.09	211.15		
CRE-MW2d	10/21/2016	10:49	5.31	211.93		
CRE-MW2d	11/3/2016	11:04	6.71	210.53		
CRE-MW2d	12/20/2016	11:33	5.42	211.82		
CRE-MW2d	1/6/2017	10:30	4.92	212.32		
CRE-MW2d	2/1/2017		N/M			
CRE-MW2d	3/13/2017	12:40	6.01	211.23		
CRE-MW2d	4/17/2017	13:43	4.53	212.71		
CRE-MW2d	5/19/2017	10:53	5.00	212.24		
CRE-MW2d	6/8/2017	9:37	2.98	214.26		
CRE-MW2d	7/7/2017	10:51	5.41	211.83		
CRE-MW2d	8/29/2017	8:46	6.02	211.22		
CRE-MW2d	9/18/2017	10:58	5.96	211.28		
CRE-MW2d	10/18/2017	9:46	6.42	210.82		
CRE-MW2d	11/30/2017	8:29	6.94	210.30		
CRE-MW2d	12/29/2017	10:06	6.47	210.77		
CRE-MW2d	1/9/2018	9:30	4.87	212.37		
CRE-MW2d	2/12/2018	8:53	5.75	211.49		
CRE-MW2d	3/24/2018	8:56	6.63	210.61		
CRE-MW2d	4/26/2018	15:25	5.14	212.10		
CRE-MW2d	5/30/2018	8:36	5.20	212.04		
CRE-MW2d	6/15/2018	9:45	5.10	212.14		
CRE-MW2d	7/10/2018	9:42	4.50	212.74		
CRE-MW2d	8/13/2018	11:16	4.26	212.98		
CRE-MW2d	9/21/2018	12:11	4.30	212.94		
CRE-MW2d	10/22/2018	10:30	6.00	211.24		
CRE-MW2d	11/19/2018	8:41	7.07	210.17		
CRE-MW2d	12/26/2018	9:28	4.80	212.44		
CRE-MW2d	1/8/2019	10:02	5.82	211.42		
CRE-MW2d	2/12/2019	8:13	3.07	214.17		
CRE-MW2d	3/16/2019	10:23	3.50	213.74		
CRE-MW2d	4/15/2019	13:39	4.05	213.19		
CRE-MW2d	5/7/2019	8:24	5.70	211.54		
CRE-MW2d	6/14/2019	9:30	5.10	212.14		
CRE-MW2d	7/19/2019	11:05	5.18	212.06		
CRE-MW2d	8/16/2019	10:18	4.92	212.32		
CRE-MW2d	9/21/2019	10:52	5.65	211.59		
CRE-MW2d	10/25/2019	10:07	5.62	211.62		
CRE-MW2d	11/25/2019	10:27	6.97	210.27		
CRE-MW2d	12/9/2019	10:32	4.82	212.42		
CRE-MW3s	1/21/2013	11:15	3.51	210.27		
CRE-MW3s	2/11/2013	10:47	4.01	209.77		
CRE-MW3s	3/18/2013	11:48	2.91	210.87		
CRE-MW3s	4/22/2013	11:45	3.50	210.28		
CRE-MW3s	5/13/2013	9:39	3.72	210.06		
CRE-MW3s	6/18/2013	10:45	3.18	210.60		
CRE-MW3s	7/16/2013	10:55	3.62	210.16		
CRE-MW3s	8/12/2013	11:40	3.24	210.54		
CRE-MW3s	9/10/2013	8:32	2.80	210.98		
CRE-MW3s	10/25/2013	10:56	3.22	210.56		
CRE-MW3s	11/26/2013	14:25	4.10	209.68		
CRE-MW3s	12/23/2013	10:40	3.66	210.12		
CRE-MW3s	1/13/2014	9:56	4.27	209.51		
CRE-MW3s	2/21/2014	14:36	3.08	210.70		
CRE-MW3s	3/21/2014	8:44	3.98	209.80		
CRE-MW3s	4/11/2014	9:51	4.54	209.24		
CRE-MW3s	5/21/2014	11:00	3.38	210.40		
CRE-MW3s	6/10/2014	12:56	4.79	208.99		
CRE-MW3s	7/7/2014	10:01	4.96	208.82		
CRE-MW3s	8/11/2014	11:06	6.05	207.73		
CRE-MW3s	9/23/2014	10:30	6.04	207.74		
CRE-MW3s	10/20/2014	11:35	4.10	209.68		
CRE-MW3s	11/10/2014	13:45	5.93	207.85		
CRE-MW3s	12/15/2014	10:03	3.94	209.84		
CRE-MW3s	1/8/2015	11:16	3.75	210.03		
CRE-MW3s	2/26/2015	9:24	4.23	209.55		
CRE-MW3s	3/9/2015	11:30	4.22	209.56		
CRE-MW3s	4/24/2015	10:08	4.79	208.99		
CRE-MW3s	5/21/2015	11:59	5.88	207.90		
CRE-MW3s	6/15/2015	11:00	6.53	207.25		
CRE-MW3s	7/27/2015	10:34	7.79	205.99		
CRE-MW3s	8/27/2015	10:33	8.86	204.92		
CRE-MW3s	9/11/2015	10:23	9.17	204.61		
CRE-MW3s	10/19/2015	13:10	6.72	207.06		
CRE-MW3s	11/24/2015	10:08	6.60	207.18		
CRE-MW3s	12/21/2015	10:32	6.76	207.02		
CRE-MW3s	1/7/2016	10:50	5.25	208.53		
CRE-MW3s	2/25/2016	10:20	4.63	209.15		
CRE-MW3s	3/17/2016	10:58	3.05	210.73		
CRE-MW3s	4/19/2016	10:19	4.20	209.58		
CRE-MW3s	5/27/2016	14:46	5.52	208.26		
CRE-MW3s	6/22/2016	10:10	6.47	207.31		
CRE-MW3s	7/22/2016	9:52	4.45	209.33		
CRE-MW3s	8/22/2016	10:39	4.65	209.13		
CRE-MW3s	9/24/2016	9:50	5.17	208.61		
CRE-MW3s	10/21/2016	11:05	4.93	208.85		
CRE-MW3s	11/3/2016	11:10	4.41	209.37		
CRE-MW3s	12/20/2016	12:00	3.04	210.74		
CRE-MW3s	1/6/2017	10:45	2.63	211.15		
CRE-MW3s	2/1/2017		N/M			
CRE-MW3s	3/13/2017	12:50	4.18	209.60		
CRE-MW3s	4/17/2017	13:55	2.87	210.91		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
CRE-MW3s	5/19/2017		N/M			
CRE-MW3s	6/8/2017	10:10	4.08	209.70		
CRE-MW3s	7/7/2017	11:12	4.21	209.57		
CRE-MW3s	8/29/2017		N/M			
CRE-MW3s	9/18/2017	11:13	3.70	210.08		
CRE-MW3s	10/18/2017	10:09	4.26	209.52		
CRE-MW3s	11/30/2017	8:34	4.11	209.67		
CRE-MW3s	12/29/2017	10:12	4.95	208.83		
CRE-MW3s	1/9/2018	9:42	4.92	208.86		
CRE-MW3s	2/12/2018	9:00	3.83	209.95		
CRE-MW3s	3/24/2018	9:30	4.55	209.23		
CRE-MW3s	4/26/2018	15:10	2.69	211.09		
CRE-MW3s	5/30/2018	8:07	4.26	209.52		
CRE-MW3s	6/15/2018	9:58	2.89	210.89		
CRE-MW3s	7/10/2018	10:10	4.19	209.59		
CRE-MW3s	8/13/2018	11:42	3.68	210.10		
CRE-MW3s	9/21/2018	12:24	4.09	209.69		
CRE-MW3s	10/22/2018	11:08	5.79	207.99		
CRE-MW3s	11/19/2018	8:53	6.57	207.21		
CRE-MW3s	12/26/2018	9:39	2.66	211.12		
CRE-MW3s	1/8/2019	10:21	2.64	211.14		
CRE-MW3s	2/12/2019	8:45	1.94	211.84		
CRE-MW3s	3/16/2019	10:40	2.66	211.12		
CRE-MW3s	4/15/2019	13:58	3.68	210.10		
CRE-MW3s	5/7/2019	8:50	4.67	209.11		
CRE-MW3s	6/14/2019	9:51	4.73	209.05		
CRE-MW3s	7/19/2019	11:18	5.33	208.45		
CRE-MW3s	8/16/2019	10:32	4.37	209.41		
CRE-MW3s	9/21/2019	10:19	5.70	208.08		
CRE-MW3s	10/25/2019	10:20	5.83	207.95		
CRE-MW3s	11/25/2019	10:36	5.52	208.26		
CRE-MW3s	12/9/2019	10:42	2.59	211.19		
CRE-MW3d	1/21/2013	11:19	35.34	178.44		
CRE-MW3d	2/11/2013	10:53	35.24	178.54		
CRE-MW3d	3/18/2013	11:55	35.19	178.59		
CRE-MW3d	4/22/2013	11:50	35.84	177.94		
CRE-MW3d	5/13/2013	9:47	37.31	176.47		
CRE-MW3d	6/18/2013	10:49	38.59	175.19		
CRE-MW3d	7/16/2013	11:00	39.61	174.17		
CRE-MW3d	8/12/2013	11:42	40.69	173.09		
CRE-MW3d	9/10/2013	8:36	40.37	173.41		
CRE-MW3d	10/25/2013	11:00	39.29	174.49		
CRE-MW3d	11/26/2013	14:28	38.58	175.20		
CRE-MW3d	12/23/2013	10:43	39.83	173.95		
CRE-MW3d	1/13/2014	9:52	40.19	173.59		
CRE-MW3d	2/21/2014	14:39	39.46	174.32		
CRE-MW3d	3/21/2014	8:47	39.54	174.24		
CRE-MW3d	4/11/2014	9:54	39.90	173.88		
CRE-MW3d	5/21/2014	11:03	42.77	171.01		
CRE-MW3d	6/10/2014	13:00	43.88	169.90		
CRE-MW3d	7/7/2014	9:56	45.81	167.97		
CRE-MW3d	8/11/2014	11:08	47.14	166.64		
CRE-MW3d	9/23/2014	10:28	48.22	165.56		
CRE-MW3d	10/20/2014	11:40	44.99	168.79		
CRE-MW3d	11/10/2014	13:48	48.30	165.48		
CRE-MW3d	12/15/2014	10:05	46.88	166.90		
CRE-MW3d	1/8/2015	11:18	47.73	166.05		
CRE-MW3d	2/26/2015	9:27	46.42	167.36		
CRE-MW3d	3/9/2015	11:32	46.28	167.50		
CRE-MW3d	4/24/2015	10:11	47.16	166.62		
CRE-MW3d	5/21/2015	12:03	48.53	165.25		
CRE-MW3d	6/15/2015	11:05	49.21	164.57		
CRE-MW3d	7/27/2015	10:37	49.98	163.80		
CRE-MW3d	8/27/2015	10:36	50.21	163.57		
CRE-MW3d	9/11/2015	10:27	50.51	163.27		
CRE-MW3d	10/19/2015	13:05	50.82	162.96		
CRE-MW3d	11/24/2015	10:10	50.26	163.52		
CRE-MW3d	12/21/2015	10:35	50.36	163.42		
CRE-MW3d	1/7/2016	10:53	48.37	165.41		
CRE-MW3d	2/25/2016	10:22	47.83	165.95		
CRE-MW3d	3/17/2016	11:00	48.88	164.90		
CRE-MW3d	4/19/2016	10:21	45.11	168.67		
CRE-MW3d	5/27/2016	14:48	Q/M			
CRE-MW3d	6/22/2016	10:15	49.03	164.75		
CRE-MW3d	7/22/2016	9:54	50.15	163.63		
CRE-MW3d	8/22/2016	10:41	50.34	163.44		
CRE-MW3d	9/24/2016	9:53	50.90	162.88		
CRE-MW3d	10/21/2016	11:08	50.12	163.66		
CRE-MW3d	11/3/2016	11:13	49.63	164.15		
CRE-MW3d	12/20/2016	12:03	45.71	168.07		
CRE-MW3d	1/6/2017	10:47	48.40	165.38		
CRE-MW3d	2/1/2017		N/M			
CRE-MW3d	3/13/2017	12:52	47.02	166.76		
CRE-MW3d	4/17/2017	13:57	44.61	169.17		
CRE-MW3d	5/19/2017		N/M			
CRE-MW3d	6/8/2017	10:11	41.88	171.90		
CRE-MW3d	7/7/2017	11:17	41.91	171.87		
CRE-MW3d	8/29/2017		N/M			
CRE-MW3d	9/18/2017	11:15	47.61	166.17		
CRE-MW3d	10/18/2017	10:11	43.24	170.54		
CRE-MW3d	11/30/2017	8:35	43.40	170.38		
CRE-MW3d	12/29/2017	10:15	43.67	170.11		
CRE-MW3d	1/9/2018	9:43	47.17	166.61		
CRE-MW3d	2/12/2018	9:02	43.83	169.95		
CRE-MW3d	3/24/2018	9:32	45.23	168.55		
CRE-MW3d	4/26/2018	15:12	49.16	164.62		
CRE-MW3d	5/30/2018	8:10	52.90	160.88		
CRE-MW3d	6/15/2018	10:00	49.01	164.77		
CRE-MW3d	7/10/2018	10:12	49.55	164.23		
CRE-MW3d	8/13/2018	11:43	50.38	163.40		
CRE-MW3d	9/21/2018	12:23	50.46	163.32		
CRE-MW3d	10/22/2018	11:10	50.57	163.21		
CRE-MW3d	11/19/2018	8:54	50.87	162.91		
CRE-MW3d	12/26/2018	9:40	48.60	165.18		
CRE-MW3d	1/8/2019	10:19	50.30	163.48		
CRE-MW3d	2/12/2019	8:46	48.72	165.06		
CRE-MW3d	3/16/2019	10:43	45.55	168.23		
CRE-MW3d	4/15/2019	14:00	42.27	171.51		
CRE-MW3d	5/7/2019	8:51	42.00	171.78		
CRE-MW3d	6/14/2019	9:53	41.64	172.14		
CRE-MW3d	7/19/2019	11:15	41.63	172.15		
CRE-MW3d	8/16/2019	10:35	41.90	171.88		
CRE-MW3d	9/21/2019	10:24	42.68	171.10		
CRE-MW3d	10/25/2019	10:23	44.58	169.20		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
CRE-MW3d	11/25/2019	10:37	42.92	170.86		
CRE-MW3d	12/9/2019	10:45	47.76	166.02		
MTS-MW1	1/21/2013	9:26	54.31	132.33		
MTS-MW1	2/11/2013	9:02	53.18	133.46		
MTS-MW1	3/18/2013	9:30	55.07	131.57		
MTS-MW1	4/22/2013	12:24	55.25	131.39		
MTS-MW1	5/13/2013	12:08	57.48	129.16		
MTS-MW1	6/18/2013	9:20	60.59	126.05		
MTS-MW1	7/16/2013	9:25	63.10	123.54		
MTS-MW1	8/12/2013	9:05	64.73	121.91		
MTS-MW1	9/9/2013	15:45	64.20	122.44		
MTS-MW1	10/25/2013	9:48	63.32	123.32		
MTS-MW1	11/26/2013	7:52	62.81	123.83		
MTS-MW1	12/23/2013	12:05	62.94	123.70		
MTS-MW1	1/13/2014	8:43	62.34	124.30		
MTS-MW1	2/21/2014	9:30	64.08	122.56		
MTS-MW1	3/21/2014	8:04	61.39	125.25		
MTS-MW1	4/11/2014	8:56	60.94	125.70		
MTS-MW1	5/20/2014	8:20	68.18	118.46		
MTS-MW1	6/10/2014	12:06	70.34	116.30		
MTS-MW1	7/7/2014	8:42	74.00	112.64		
MTS-MW1	8/11/2014	9:01	75.12	111.52		
MTS-MW1	9/23/2014	11:20	75.20	111.44		
MTS-MW1	10/20/2014	10:40	73.79	112.85		
MTS-MW1	11/10/2014	11:35	73.19	113.45		
MTS-MW1	12/15/2014	12:08	70.04	116.60		
MTS-MW1	1/8/2015	11:59	66.95	119.69		
MTS-MW1	2/26/2015	12:13	64.11	122.53		
MTS-MW1	3/9/2015	12:13	65.13	121.51		
MTS-MW1	4/24/2015	8:40	66.49	120.15		
MTS-MW1	5/21/2015	14:05	70.30	116.34		
MTS-MW1	6/15/2015	12:17	76.78	109.86		
MTS-MW1	7/27/2015	11:22	79.98	106.66		
MTS-MW1	8/27/2015	12:56	80.71	105.93		
MTS-MW1	9/11/2015	11:05	80.40	106.24		
MTS-MW1	10/19/2015	13:50	79.50	107.14		
MTS-MW1	11/24/2015	12:30	77.82	108.82		
MTS-MW1	12/21/2015	11:20	76.41	110.23		
MTS-MW1	1/7/2016	11:15	75.76	110.88		
MTS-MW1	2/25/2016	12:46	73.13	113.51		
MTS-MW1	3/17/2016	11:29	71.81	114.83		
MTS-MW1	4/19/2016	10:53	70.84	115.80		
MTS-MW1	5/31/2016	8:10	72.95	113.69		
MTS-MW1	6/22/2016	11:15	73.87	112.77		
MTS-MW1	7/21/2016	16:11	73.48	113.16		
MTS-MW1	8/22/2016	12:17	72.83	113.81		
MTS-MW1	9/24/2016	10:24	73.81	112.83		
MTS-MW1	10/21/2016	11:31	73.82	112.82		
MTS-MW1	11/3/2016	13:30	72.89	113.75		
MTS-MW1	12/20/2016	10:35	70.81	115.83		
MTS-MW1	1/6/2017	11:20	69.79	116.85		
MTS-MW1	2/1/2017		N/M			
MTS-MW1	3/13/2017	14:50	58.92	127.72		
MTS-MW1	4/17/2017	14:55	55.93	130.71		
MTS-MW1	5/19/2017	10:10	54.80	131.84		
MTS-MW1	6/8/2017	8:04	55.50	131.14		
MTS-MW1	7/7/2017	11:52	56.29	130.35		
MTS-MW1	8/29/2017	10:34	58.96	127.68		
MTS-MW1	9/18/2017	12:06	62.33	124.31		
MTS-MW1	10/19/2017	11:08	59.08	127.56		
MTS-MW1	11/30/2017	10:39	60.38	126.26		
MTS-MW1	12/29/2017	10:41	60.00	126.64		
MTS-MW1	1/9/2018	10:28	52.94	133.70		
MTS-MW1	2/12/2018	11:07	59.90	126.74		
MTS-MW1	3/24/2018	8:11	60.72	125.92		
MTS-MW1	4/26/2018	15:45	60.50	126.14		
MTS-MW1	5/30/2018	10:59	62.70	123.94		
MTS-MW1	6/15/2018	10:25	62.26	124.38		
MTS-MW1	7/10/2018	11:06	64.77	121.87		
MTS-MW1	8/13/2018	14:10	67.00	119.64		
MTS-MW1	9/21/2018	11:18	67.17	119.47		
MTS-MW1	10/22/2018	11:55	69.05	117.59		
MTS-MW1	11/19/2018	11:30	71.13	115.51		
MTS-MW1	12/26/2018	10:20	60.47	126.17		
MTS-MW1	1/8/2019	11:15	68.92	117.72		
MTS-MW1	2/13/2019	11:32	64.10	122.54		
MTS-MW1	3/16/2019	11:30	58.19	128.45		
MTS-MW1	4/15/2019	14:30	55.70	130.94		
MTS-MW1	5/7/2019	12:07	55.30	131.34		
MTS-MW1	6/14/2019	10:46	55.99	130.65		
MTS-MW1	7/19/2019	11:52	58.03	128.61		
MTS-MW1	8/16/2019	8:32	57.70	128.94		
MTS-MW1	9/21/2019	12:16	60.00	126.64		
MTS-MW1	10/25/2019	10:48	61.24	125.40		
MTS-MW1	11/25/2019	8:36	63.16	123.48		
MTS-MW1	12/9/2019	9:40	60.27	126.37		
MTS-MW2s	1/21/2013	9:40	Dry			
MTS-MW2s	2/11/2013	9:12	Dry			
MTS-MW2s	3/18/2013	10:24	Dry			
MTS-MW2s	4/22/2013	12:38	Dry			
MTS-MW2s	5/13/2013	12:14	Dry			
MTS-MW2s	6/18/2013	9:27	22.30	158.56		
MTS-MW2s	7/16/2013	9:34	24.51	156.35		
MTS-MW2s	8/12/2013	9:12	24.33	156.53		
MTS-MW2s	9/9/2013	15:50	Dry			
MTS-MW2s	10/25/2013	9:36	Dry			
MTS-MW2s	11/26/2013	7:59	Dry			
MTS-MW2s	12/23/2013	12:15	Dry			
MTS-MW2s	1/13/2014	8:30	Dry			
MTS-MW2s	2/21/2014	9:10	Dry			
MTS-MW2s	3/21/2014	7:51	Dry			
MTS-MW2s	4/11/2014	8:44	Dry			
MTS-MW2s	5/20/2014	8:01	23.42	157.44		
MTS-MW2s	6/10/2014	11:58	24.16	156.70		
MTS-MW2s	7/7/2014	8:56	Dry			
MTS-MW2s	8/11/2014	8:45	Dry			
MTS-MW2s	9/23/2014	11:08	Dry			
MTS-MW2s	10/20/2014	10:30	Dry			
MTS-MW2s	11/10/2014	11:40	Dry			
MTS-MW2s	12/15/2014	11:58	24.48	156.38		
MTS-MW2s	1/8/2015	12:13	Dry			
MTS-MW2s	2/26/2015	12:21	Dry			
MTS-MW2s	3/9/2015	12:23	Dry			
MTS-MW2s	4/24/2015	8:46	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MTS-MW2s	5/21/2015	14:10	Dry			
MTS-MW2s	6/15/2015	12:05	Dry			
MTS-MW2s	7/27/2015	11:09	Dry			
MTS-MW2s	8/27/2015	13:07	Dry			
MTS-MW2s	9/11/2015	10:54	Dry			
MTS-MW2s	10/19/2015	13:55	Dry			
MTS-MW2s	11/24/2015	12:23	Dry			
MTS-MW2s	12/21/2015	11:35	Dry			
MTS-MW2s	1/7/2016	11:25	Dry			
MTS-MW2s	2/25/2016	12:37	Dry			
MTS-MW2s	3/17/2016	11:36	Dry			
MTS-MW2s	4/19/2016	10:45	Dry			
MTS-MW2s	5/31/2016	8:14	Dry			
MTS-MW2s	6/22/2016	10:55	Dry			
MTS-MW2s	7/21/2016	16:18	Dry			
MTS-MW2s	8/22/2016	12:23	Dry			
MTS-MW2s	9/24/2016	10:18	Dry			
MTS-MW2s	10/21/2016	11:44	Dry			
MTS-MW2s	11/3/2016	13:22	Dry			
MTS-MW2s	12/20/2016	10:46	24.80	156.06		
MTS-MW2s	1/6/2017	11:30	Dry			
MTS-MW2s	2/1/2017		N/M			
MTS-MW2s	3/13/2017	14:53	Dry			
MTS-MW2s	4/17/2017	14:45	Dry			
MTS-MW2s	5/19/2017	10:16	Dry			
MTS-MW2s	6/8/2017	8:08	Dry			
MTS-MW2s	7/7/2017	11:57	Dry			
MTS-MW2s	8/29/2017	10:16	Dry			
MTS-MW2s	9/18/2017	11:53	Dry			
MTS-MW2s	10/19/2017	11:15	Dry			
MTS-MW2s	11/30/2017	10:33	Dry			
MTS-MW2s	12/29/2017	10:47	Dry			
MTS-MW2s	1/9/2018	10:21	Dry			
MTS-MW2s	2/12/2018	11:13	Dry			
MTS-MW2s	3/24/2018	8:20	Dry			
MTS-MW2s	4/26/2018	15:52	Dry			
MTS-MW2s	5/30/2018	10:52	Dry			
MTS-MW2s	6/15/2018	10:33	Dry			
MTS-MW2s	7/10/2018	11:01	Dry			
MTS-MW2s	8/13/2018	14:00	Dry			
MTS-MW2s	9/21/2018	11:27	Dry			
MTS-MW2s	10/22/2018	12:08	Dry			
MTS-MW2s	11/19/2018	11:20	Dry			
MTS-MW2s	12/26/2018	10:14	Dry			
MTS-MW2s	1/8/2019	11:45	Dry			
MTS-MW2s	2/13/2019	11:45	Dry			
MTS-MW2s	3/16/2019	11:42	Dry			
MTS-MW2s	4/15/2019	14:37	Dry			
MTS-MW2s	5/7/2019	12:01	Dry			
MTS-MW2s	6/14/2019	10:43	22.61	158.25		
MTS-MW2s	7/19/2019	12:03	23.17	157.69		
MTS-MW2s	8/16/2019	8:25	Dry			
MTS-MW2s	9/21/2019	12:30	Dry			
MTS-MW2s	10/25/2019	10:38	Dry			
MTS-MW2s	11/25/2019	8:31	Dry			
MTS-MW2s	12/9/2019	10:04	25.43	155.43		
MTS-MW2d	1/21/2013	9:37	49.05	131.89		
MTS-MW2d	2/11/2013	9:18	47.89	133.05		
MTS-MW2d	3/18/2013	10:27	49.18	131.76		
MTS-MW2d	4/22/2013	12:41	49.65	131.29		
MTS-MW2d	5/13/2013	12:16	51.88	129.06		
MTS-MW2d	6/18/2013	9:31	54.23	126.71		
MTS-MW2d	7/16/2013	9:38	56.57	124.37		
MTS-MW2d	8/12/2013	9:15	58.40	122.54		
MTS-MW2d	9/9/2013	15:54	58.57	122.37		
MTS-MW2d	10/25/2013	9:32	57.96	122.98		
MTS-MW2d	11/26/2013	8:04	57.43	123.51		
MTS-MW2d	12/23/2013	12:19	57.26	123.68		
MTS-MW2d	1/13/2014	8:33	57.05	123.89		
MTS-MW2d	2/21/2014	9:15	64.81	116.13		
MTS-MW2d	3/21/2014	7:55	56.12	124.82		
MTS-MW2d	4/11/2014	8:48	55.77	125.17		
MTS-MW2d	5/20/2014	8:08	61.25	119.69		
MTS-MW2d	6/10/2014	12:00	63.41	117.53		
MTS-MW2d	7/7/2014	8:50	Dry			
MTS-MW2d	8/11/2014	8:49	Dry			
MTS-MW2d	9/23/2014	11:06	Dry			
MTS-MW2d	10/20/2014	10:35	Dry			
MTS-MW2d	11/10/2014	11:43	Dry			
MTS-MW2d	12/15/2014	12:00	64.02	116.92		
MTS-MW2d	1/8/2015	12:10	61.38	119.56		
MTS-MW2d	2/26/2015	12:24	58.67	122.27		
MTS-MW2d	3/9/2015	12:25	58.92	122.02		
MTS-MW2d	4/24/2015	8:50	61.03	119.91		
MTS-MW2d	5/21/2015	14:12	64.80	116.14		
MTS-MW2d	6/15/2015	12:10	Dry			
MTS-MW2d	7/27/2015	11:12	Dry			
MTS-MW2d	8/27/2015	13:10	Dry			
MTS-MW2d	9/11/2015	10:56	Dry			
MTS-MW2d	10/19/2015	14:00	Dry			
MTS-MW2d	11/24/2015	12:25	Dry			
MTS-MW2d	12/21/2015	11:38	Dry			
MTS-MW2d	1/7/2016	11:28	Dry			
MTS-MW2d	2/25/2016	12:40	Dry			
MTS-MW2d	3/17/2016	11:38	Dry			
MTS-MW2d	4/19/2016	10:48	65.13	115.81		
MTS-MW2d	5/31/2016	8:16	Dry			
MTS-MW2d	6/22/2016	11:00	Dry			
MTS-MW2d	7/21/2016	16:21	Dry			
MTS-MW2d	8/22/2016	12:25	Dry			
MTS-MW2d	9/28/2016	10:17	Dry			
MTS-MW2d	10/21/2016	11:47	Q/M			
MTS-MW2d	11/3/2016	13:24	65.30	115.64		
MTS-MW2d	12/20/2016	10:43	Dry			
MTS-MW2d	1/6/2017	11:33	64.30	116.64		
MTS-MW2d	2/1/2017		N/M			
MTS-MW2d	3/13/2017	14:52	65.21	115.73		
MTS-MW2d	4/17/2017	14:41	50.68	130.26		
MTS-MW2d	5/19/2017	10:19	49.80	131.14		
MTS-MW2d	6/8/2017	8:09	50.42	130.52		
MTS-MW2d	7/7/2017	12:02	51.41	129.53		
MTS-MW2d	8/29/2017	10:18	52.30	128.64		
MTS-MW2d	9/18/2017	11:55	52.90	128.04		
MTS-MW2d	10/19/2017	11:17	54.18	126.76		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MTS-MW2d	11/30/2017	10:31	55.40	125.54		
MTS-MW2d	12/29/2017	10:49	Q/M			
MTS-MW2d	1/9/2018	10:19	54.86	126.08		
MTS-MW2d	2/12/2018	11:11	54.63	126.31		
MTS-MW2d	3/24/2018	8:23	55.52	125.42		
MTS-MW2d	4/26/2018	15:50	Q/M			
MTS-MW2d	5/30/2018	10:54	56.73	124.21		
MTS-MW2d	6/15/2018	10:35	56.74	124.20		
MTS-MW2d	7/10/2018	11:00	59.16	121.78		
MTS-MW2d	8/13/2018	14:01	61.87	119.07		
MTS-MW2d	9/21/2018	11:29	61.84	119.10		
MTS-MW2d	10/22/2018	12:10	64.38	116.56		
MTS-MW2d	11/19/2018	11:21	Dry			
MTS-MW2d	12/26/2018	10:12	53.61	127.33		
MTS-MW2d	1/8/2019	11:50	Dry			
MTS-MW2d	2/13/2019	11:46	38.64	142.30		
MTS-MW2d	3/16/2019	11:49	52.83	128.11		
MTS-MW2d	4/15/2019	14:40	50.45	130.49		
MTS-MW2d	5/7/2019	12:02	50.14	130.80		
MTS-MW2d	6/14/2019	10:41	49.95	130.99		
MTS-MW2d	7/19/2019	12:00	51.70	129.24		
MTS-MW2d	8/16/2019	8:27	52.78	128.16		
MTS-MW2d	9/21/2019	12:35	54.90	126.04		
MTS-MW2d	10/25/2019	10:40	56.20	124.74		
MTS-MW2d	11/25/2019	8:32	57.82	123.12		
MTS-MW2d	12/9/2019	10:02	40.31	140.63		
MTS-MW3s	1/21/2013	9:48	24.98	153.26		
MTS-MW3s	2/11/2013	9:32	Dry			
MTS-MW3s	3/18/2013	10:28	Dry			
MTS-MW3s	4/22/2013	12:45	22.71	155.53		
MTS-MW3s	5/13/2013	12:19	Dry			
MTS-MW3s	6/18/2013	9:38	21.08	157.16		
MTS-MW3s	7/16/2013	9:45	Dry			
MTS-MW3s	8/12/2013	9:20	22.03	156.21		
MTS-MW3s	9/9/2013	15:59	Dry			
MTS-MW3s	10/25/2013	9:24	24.87	153.37		
MTS-MW3s	11/26/2013	8:10	Dry			
MTS-MW3s	12/23/2013	12:31	Dry			
MTS-MW3s	1/13/2014	8:20	24.78	153.46		
MTS-MW3s	2/21/2014	8:55	Dry			
MTS-MW3s	3/21/2014	7:41	Dry			
MTS-MW3s	4/11/2014	8:34	Dry			
MTS-MW3s	5/20/2014	7:46	Dry			
MTS-MW3s	6/10/2014	11:49	Dry			
MTS-MW3s	7/7/2014	9:10	Dry			
MTS-MW3s	8/11/2014	8:31	Dry			
MTS-MW3s	9/23/2014	10:58	Dry			
MTS-MW3s	10/20/2014	10:20	Dry			
MTS-MW3s	11/10/2014	11:50	Dry			
MTS-MW3s	12/15/2014	11:54	Dry			
MTS-MW3s	1/8/2015	12:19	Dry			
MTS-MW3s	2/26/2015	12:30	Dry			
MTS-MW3s	3/9/2015	12:34	Dry			
MTS-MW3s	4/24/2015	8:55	Dry			
MTS-MW3s	5/21/2015	14:16	Dry			
MTS-MW3s	6/15/2015	11:58	Dry			
MTS-MW3s	7/27/2015	10:58	Dry			
MTS-MW3s	8/27/2015	13:17	Dry			
MTS-MW3s	9/11/2015	10:46	Dry			
MTS-MW3s	10/19/2015	14:05	Dry			
MTS-MW3s	11/24/2015	12:16	24.86	153.38		
MTS-MW3s	12/21/2015	11:27	Dry			
MTS-MW3s	1/7/2016	11:33	Dry			
MTS-MW3s	2/25/2016	12:29	Dry			
MTS-MW3s	3/17/2016	11:50	Dry			
MTS-MW3s	4/19/2016	10:41	Dry			
MTS-MW3s	5/31/2016	8:19	Dry			
MTS-MW3s	6/22/2016	10:40	Dry			
MTS-MW3s	7/21/2016	16:25	Dry			
MTS-MW3s	8/22/2016	12:29	Dry			
MTS-MW3s	9/24/2016	10:08	Dry			
MTS-MW3s	10/21/2016	11:58	Dry			
MTS-MW3s	11/3/2016	13:15	Dry			
MTS-MW3s	12/20/2016	10:58	Dry			
MTS-MW3s	1/6/2017	11:41	Dry			
MTS-MW3s	2/1/2017		N/M			
MTS-MW3s	3/13/2017	14:55	Dry			
MTS-MW3s	4/17/2017	14:28	Dry			
MTS-MW3s	5/19/2017	10:28	Dry			
MTS-MW3s	6/8/2017	8:13	Dry			
MTS-MW3s	7/7/2017	12:10	Dry			
MTS-MW3s	8/29/2017	10:10	Dry			
MTS-MW3s	9/18/2017	11:45	Dry			
MTS-MW3s	10/19/2017	11:22	Dry			
MTS-MW3s	11/30/2017	10:24	Dry			
MTS-MW3s	12/29/2017	10:53	Dry			
MTS-MW3s	1/9/2018	10:11	Dry			
MTS-MW3s	2/12/2018	11:01	Dry			
MTS-MW3s	3/24/2018	8:30	Dry			
MTS-MW3s	4/26/2018	15:55	Dry			
MTS-MW3s	5/30/2018	10:47	Dry			
MTS-MW3s	6/15/2018	10:45	Dry			
MTS-MW3s	7/10/2018	10:42	Dry			
MTS-MW3s	8/13/2018	13:49	Dry			
MTS-MW3s	9/21/2018	11:38	Dry			
MTS-MW3s	10/22/2018	12:23	Dry			
MTS-MW3s	11/19/2018	11:15	Dry			
MTS-MW3s	12/26/2018	10:07	Dry			
MTS-MW3s	1/8/2019	11:30	Dry			
MTS-MW3s	2/13/2019	12:15	Dry			
MTS-MW3s	3/16/2019	11:10	Dry			
MTS-MW3s	4/15/2019	14:49	Dry			
MTS-MW3s	5/7/2019	11:55	Dry			
MTS-MW3s	6/14/2019	10:30	Dry			
MTS-MW3s	7/19/2019	12:13	Dry			
MTS-MW3s	8/16/2019	8:20	Dry			
MTS-MW3s	9/21/2019	11:55	Dry			
MTS-MW3s	10/25/2019	10:53	Dry			
MTS-MW3s	11/25/2019	8:25	Dry			
MTS-MW3s	12/9/2019	9:59	23.31	154.93		
MTS-MW3d	1/21/2013	9:45	46.81	131.45		
MTS-MW3d	2/11/2013	9:38	45.66	132.60		
MTS-MW3d	3/18/2013	10:34	46.69	131.57		
MTS-MW3d	4/22/2013	12:49	47.25	131.01		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MTS-MW3d	5/13/2013	12:20	49.72	128.54		
MTS-MW3d	6/18/2013	9:44	51.26	127.00		
MTS-MW3d	7/16/2013	9:50	54.24	124.02		
MTS-MW3d	8/12/2013	9:25	56.02	122.24		
MTS-MW3d	9/9/2013	16:03	56.57	121.69		
MTS-MW3d	10/25/2013	9:20	56.05	122.21		
MTS-MW3d	11/26/2013	8:13	55.38	122.88		
MTS-MW3d	12/23/2013	12:35	55.07	123.19		
MTS-MW3d	1/13/2014	8:25	54.94	123.32		
MTS-MW3d	2/21/2014	9:00	55.78	122.48		
MTS-MW3d	3/21/2014	7:44	54.12	124.14		
MTS-MW3d	4/11/2014	8:37	53.66	124.60		
MTS-MW3d	5/20/2014	7:52	57.93	120.33		
MTS-MW3d	6/10/2014	11:52	60.38	117.88		
MTS-MW3d	7/7/2014	9:04	63.93	114.33		
MTS-MW3d	8/11/2014	8:33	66.48	111.78		
MTS-MW3d	9/23/2014	10:56	66.32	111.94		
MTS-MW3d	10/20/2014	10:25	65.39	112.87		
MTS-MW3d	11/10/2014	11:53	65.06	113.20		
MTS-MW3d	12/15/2014	11:56	61.42	116.84		
MTS-MW3d	1/8/2015	12:22	58.88	119.38		
MTS-MW3d	2/26/2015	12:33	56.46	121.80		
MTS-MW3d	3/9/2015	12:36	56.44	121.82		
MTS-MW3d	4/24/2015	9:00	58.75	119.51		
MTS-MW3d	5/21/2015	14:17	62.30	115.96		
MTS-MW3d	6/15/2015	12:03	66.70	111.56		
MTS-MW3d	7/27/2015	11:01	69.89	108.37		
MTS-MW3d	8/27/2015	13:20	Dry			
MTS-MW3d	9/11/2015	10:49	Dry			
MTS-MW3d	10/19/2015	14:10	Dry			
MTS-MW3d	11/24/2015	12:18	Dry			
MTS-MW3d	12/21/2015	11:30	Dry			
MTS-MW3d	1/7/2016	11:38	67.75	110.51		
MTS-MW3d	2/25/2016	12:32	67.02	111.24		
MTS-MW3d	3/17/2016	11:48	63.79	114.47		
MTS-MW3d	4/19/2016	10:43	62.52	115.74		
MTS-MW3d	5/31/2016	8:21	63.24	115.02		
MTS-MW3d	6/22/2016	10:45	63.88	114.38		
MTS-MW3d	7/21/2016	16:28	64.19	114.07		
MTS-MW3d	8/22/2016	12:30	65.27	112.99		
MTS-MW3d	9/24/2016	10:10	66.22	112.04		
MTS-MW3d	10/21/2016	12:03	65.61	112.65		
MTS-MW3d	11/3/2016	13:17	65.19	113.07		
MTS-MW3d	12/20/2016	10:55	62.88	115.38		
MTS-MW3d	1/6/2017	11:44	61.65	116.61		
MTS-MW3d	2/1/2017		N/M			
MTS-MW3d	3/13/2017	14:56	64.01	114.25		
MTS-MW3d	4/17/2017	14:30	48.56	129.70		
MTS-MW3d	5/19/2017	10:26	48.00	130.26		
MTS-MW3d	6/8/2017	8:14	49.18	129.08		
MTS-MW3d	7/7/2017	12:14	50.06	128.20		
MTS-MW3d	8/29/2017	10:12	50.84	127.42		
MTS-MW3d	9/18/2017	11:47	66.13	112.13		
MTS-MW3d	10/19/2017	11:24	52.42	125.84		
MTS-MW3d	11/30/2017	10:22	53.46	124.80		
MTS-MW3d	12/29/2017	10:55	52.80	125.46		
MTS-MW3d	1/9/2018	10:12	58.33	119.93		
MTS-MW3d	2/12/2018	11:02	52.61	125.65		
MTS-MW3d	3/24/2018	8:34	53.51	124.75		
MTS-MW3d	4/26/2018	15:57	53.16	125.10		
MTS-MW3d	5/30/2018	10:45	54.50	123.76		
MTS-MW3d	6/15/2018	10:48	55.19	123.07		
MTS-MW3d	7/10/2018	10:43	57.10	121.16		
MTS-MW3d	8/13/2018	13:48	60.22	118.04		
MTS-MW3d	9/21/2018	11:40	60.16	118.10		
MTS-MW3d	10/22/2018	12:25	62.53	115.73		
MTS-MW3d	11/19/2018	11:13	63.07	115.19		
MTS-MW3d	12/26/2018	10:05	53.81	124.45		
MTS-MW3d	1/8/2019	11:33	61.10	117.16		
MTS-MW3d	2/13/2019	12:17	56.24	122.02		
MTS-MW3d	3/16/2019	11:14	50.80	127.46		
MTS-MW3d	4/15/2019	14:52	48.49	129.77		
MTS-MW3d	5/7/2019	11:56	48.48	129.78		
MTS-MW3d	6/14/2019	10:28	Dry			
MTS-MW3d	7/19/2019	12:16	Dry			
MTS-MW3d	8/16/2019	8:22	51.33	126.93		
MTS-MW3d	9/21/2019	12:00	53.30	124.96		
MTS-MW3d	10/25/2019	10:55	59.58	118.68		
MTS-MW3d	11/25/2019	8:26	55.81	122.45		
MTS-MW3d	12/9/2019	9:55	51.45	126.81		
AUK-MW1	1/23/2013	15:05	57.89	183.17		
AUK-MW1	2/13/2013	12:54	59.68	181.38		
AUK-MW1	3/21/2013	14:11	62.01	179.05		
AUK-MW1	4/24/2013	13:45	61.91	179.15		
AUK-MW1	5/16/2013	8:43	62.65	178.41		
AUK-MW1	6/20/2013	11:30	64.34	176.72		
AUK-MW1	7/18/2013	12:50	66.32	174.74		
AUK-MW1	8/14/2013	13:51	66.03	175.03		
AUK-MW1	9/11/2013	8:01	65.97	175.09		
AUK-MW1	10/25/2013	10:12	Dry			
AUK-MW1	11/22/2013	10:30	66.20	174.86		
AUK-MW1	12/27/2013	7:51	65.28	175.78		
AUK-MW1	1/14/2014	16:58	65.74	175.32		
AUK-MW1	2/18/2014	13:40	67.72	173.34		
AUK-MW1	3/19/2014	9:01	70.18	170.88		
AUK-MW1	4/15/2014	9:19	71.11	169.95		
AUK-MW1	5/29/2014	10:46	72.13	168.93		
AUK-MW1	6/12/2014	8:44	73.08	167.98		
AUK-MW1	7/8/2014	17:24	75.56	165.50		
AUK-MW1	8/21/2014	7:30	77.09	163.97		
AUK-MW1	9/24/2014	13:00	76.01	165.05		
AUK-MW1	10/21/2014	17:50	75.92	165.14		
AUK-MW1	11/11/2014	14:25	74.21	166.85		
AUK-MW1	12/16/2014	15:58	74.80	166.26		
AUK-MW1	1/8/2015	9:22	74.77	166.29		
AUK-MW1	2/18/2015	12:25	74.50	166.56		
AUK-MW1	3/12/2015	8:33	74.50	166.56		
AUK-MW1	4/21/2015	7:24	77.17	163.89		
AUK-MW1	5/12/2015	11:40	77.76	163.30		
AUK-MW1	6/11/2015	8:48	79.64	161.42		
AUK-MW1	7/21/2015	6:30	81.41	159.65		
AUK-MW1	8/26/2015	10:00	81.21	159.85		
AUK-MW1	9/14/2015	15:16	81.16	159.90		
AUK-MW1	10/21/2015	8:15	80.47	160.59		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
AUK-MW1	11/17/2015	15:46	77.82	163.24		
AUK-MW1	12/16/2015	16:20	78.67	162.39		
AUK-MW1	1/11/2016	16:05	79.94	161.12		
AUK-MW1	2/23/2016	15:24	80.02	161.04		
AUK-MW1	3/18/2016	7:09	80.91	160.15		
AUK-MW1	4/18/2016	15:35	81.96	159.10		
AUK-MW1	5/4/2016	9:34	79.98	161.08		
AUK-MW1	6/21/2016	11:43	82.58	158.48		
AUK-MW1	7/14/2016	15:27	83.31	157.75		
AUK-MW1	8/10/2016	14:12	84.31	156.75		
AUK-MW1	9/27/2016	7:55	81.00	160.06		
AUK-MW1	10/26/2016	13:47	82.13	158.93		
AUK-MW1	11/9/2016	9:26	82.17	158.89		
AUK-MW1	12/21/2016	16:40	82.61	158.45		
AUK-MW1	1/13/2017	9:40	82.53	158.53		
AUK-MW1	2/1/2017		N/M			
AUK-MW1	3/28/2017	11:35	81.87	159.19		
AUK-MW1	4/17/2017	15:52	80.31	160.75		
AUK-MW1	5/17/2017	9:10	76.94	164.12		
AUK-MW1	6/6/2017	8:22	75.00	166.06		
AUK-MW1	7/13/2017	8:12	78.02	163.04		
AUK-MW1	8/22/2017	13:14	69.78	171.28		
AUK-MW1	9/11/2017	14:17	67.62	173.44		
AUK-MW1	10/17/2017	9:10	65.80	175.26		
AUK-MW1	11/21/2017	11:26	62.95	178.11		
AUK-MW1	12/21/2017	16:20	65.50	175.56		
AUK-MW1	1/10/2018	9:21	61.70	179.36		
AUK-MW1	2/13/2018	11:20	62.41	178.65		
AUK-MW1	3/20/2018	11:15	62.71	178.35		
AUK-MW1	4/24/2018	7:20	63.45	177.61		
AUK-MW1	5/16/2018	9:56	64.21	176.85		
AUK-MW1	6/13/2018	7:05	66.44	174.62		
AUK-MW1	7/17/2018	17:01	68.77	172.29		
AUK-MW1	8/6/2018	11:06	69.10	171.96		
AUK-MW1	9/25/2018	13:26	67.35	173.71		
AUK-MW1	10/31/2018	7:30	66.53	174.53		
AUK-MW1	11/15/2018	8:55	68.04	173.02		
AUK-MW1	12/26/2018	14:18	65.60	175.46		
AUK-MW1	1/9/2019	8:21	65.60	175.46		
AUK-MW1	2/14/2019	9:00	66.71	174.35		
AUK-MW1	3/27/2019	14:07	67.08	173.98		
AUK-MW1	4/17/2019	8:00	65.62	175.44		
AUK-MW1	5/14/2019	15:20	64.50	176.56		
AUK-MW1	6/12/2019	7:50	64.00	177.06		
AUK-MW1	7/17/2019	8:22	65.03	176.03		
AUK-MW1	8/13/2019	15:12	61.45	179.61		
AUK-MW1	9/6/2019	18:17	59.51	181.55		
AUK-MW1	10/28/2019	15:30	55.25	185.81		
AUK-MW1	11/20/2019	11:57	55.15	185.91		
AUK-MW1	12/11/2019	16:10	59.10	181.96		
AUK-MW2	1/23/2013	15:00	64.33	175.93		
AUK-MW2	2/13/2013	13:10	65.01	175.25		
AUK-MW2	3/21/2013	13:42	65.61	174.65		
AUK-MW2	4/24/2013	13:55	66.38	173.88		
AUK-MW2	5/16/2013	8:31	67.61	172.65		
AUK-MW2	6/20/2013	11:24	69.67	170.59		
AUK-MW2	7/18/2013	12:58	71.58	168.68		
AUK-MW2	8/14/2013	13:59	72.68	167.58		
AUK-MW2	9/11/2013	8:20	67.56	172.70		
AUK-MW2	10/25/2013	10:16	92.98	147.28		
AUK-MW2	11/22/2013	10:35	72.76	167.50		
AUK-MW2	12/27/2013	8:03	74.16	166.10		
AUK-MW2	1/14/2014	17:08	74.51	165.75		
AUK-MW2	2/18/2014	13:35	75.45	164.81		
AUK-MW2	3/19/2014	9:26	74.14	166.12		
AUK-MW2	4/15/2014	9:37	72.33	167.93		
AUK-MW2	5/29/2014	10:30	75.12	165.14		
AUK-MW2	6/12/2014	8:56	76.30	163.96		
AUK-MW2	7/8/2014	17:37	76.69	163.57		
AUK-MW2	8/21/2014	7:08	78.31	161.95		
AUK-MW2	9/24/2014	12:50	77.98	162.28		
AUK-MW2	10/21/2014	18:00	77.39	162.87		
AUK-MW2	11/11/2014	14:20	78.71	161.55		
AUK-MW2	12/16/2014	16:07	80.06	160.20		
AUK-MW2	1/8/2015	9:36	80.64	159.62		
AUK-MW2	2/18/2015	12:13	81.11	159.15		
AUK-MW2	3/12/2015	8:41	80.52	159.74		
AUK-MW2	4/21/2015	7:32	81.36	158.90		
AUK-MW2	5/12/2015	11:44	82.33	157.93		
AUK-MW2	6/11/2015	9:00	83.46	156.80		
AUK-MW2	7/21/2015	6:43	84.41	155.85		
AUK-MW2	8/26/2015	9:48	84.11	156.15		
AUK-MW2	9/14/2015	15:24	83.66	156.60		
AUK-MW2	10/21/2015	8:25	84.75	155.51		
AUK-MW2	11/17/2015	15:53	84.36	155.90		
AUK-MW2	12/16/2015	16:25	84.91	155.35		
AUK-MW2	1/11/2016	16:15	85.58	154.68		
AUK-MW2	2/23/2016	15:09	86.15	154.11		
AUK-MW2	3/18/2016	7:01	85.45	154.81		
AUK-MW2	4/18/2016	15:48	85.81	154.45		
AUK-MW2	5/4/2016	9:50	84.83	155.43		
AUK-MW2	6/21/2016	11:20	86.36	153.90		
AUK-MW2	7/14/2016	15:47	87.23	153.03		
AUK-MW2	8/10/2016	14:21	87.24	153.02		
AUK-MW2	9/27/2016	8:15	83.42	156.84		
AUK-MW2	10/26/2016	13:59	85.92	154.34		
AUK-MW2	11/9/2016	9:33	84.48	155.78		
AUK-MW2	12/21/2016	17:00	85.59	154.67		
AUK-MW2	1/13/2017	9:56	86.20	154.06		
AUK-MW2	2/1/2017		N/M			
AUK-MW2	3/28/2017	11:28	82.30	157.96		
AUK-MW2	4/17/2017	15:37	79.16	161.10		
AUK-MW2	5/17/2017	9:13	75.84	164.42		
AUK-MW2	6/6/2017	8:29	73.70	166.56		
AUK-MW2	7/13/2017	8:25	72.61	167.65		
AUK-MW2	8/22/2017	13:00	67.03	173.23		
AUK-MW2	9/11/2017	14:26	65.86	174.40		
AUK-MW2	10/17/2017	9:18	65.65	174.61		
AUK-MW2	11/21/2017	11:24	65.10	175.16		
AUK-MW2	12/21/2017	16:33	65.21	175.05		
AUK-MW2	1/10/2018	9:28	66.11	174.15		
AUK-MW2	2/13/2018	11:28	66.73	173.53		
AUK-MW2	3/20/2018	10:45	67.30	172.96		
AUK-MW2	4/24/2018	7:40	68.00	172.26		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
AUK-MW2	5/16/2018	10:05	68.68	171.58		
AUK-MW2	6/13/2018	7:26	70.83	169.43		
AUK-MW2	7/17/2018	17:09	69.40	170.86		
AUK-MW2	8/6/2018	11:13	69.07	171.19		
AUK-MW2	9/25/2018	13:38	68.36	171.90		
AUK-MW2	10/31/2018	7:40	69.25	171.01		
AUK-MW2	11/15/2018	9:02	69.94	170.32		
AUK-MW2	12/26/2018	14:04	71.55	168.71		
AUK-MW2	1/9/2019	8:15	72.14	168.12		
AUK-MW2	2/14/2019	9:22	67.11	173.15		
AUK-MW2	3/27/2019	14:12	73.66	166.60		
AUK-MW2	4/17/2019	8:15	71.79	168.47		
AUK-MW2	5/14/2019	15:25	69.40	170.86		
AUK-MW2	6/12/2019	7:57	68.17	172.09		
AUK-MW2	7/17/2019	8:08	65.91	174.35		
AUK-MW2	8/13/2019	15:20	62.72	177.54		
AUK-MW2	9/6/2019	18:00	60.51	179.75		
AUK-MW2	10/28/2019	15:35	57.20	183.06		
AUK-MW2	11/20/2019	12:02	51.00	189.26		
AUK-MW2	12/11/2019	16:28	57.30	182.96		
AUK-MW3	1/23/2013	14:55	62.94	175.24		
AUK-MW3	2/13/2013	13:18	63.41	174.77		
AUK-MW3	3/21/2013	12:54	64.35	173.83		
AUK-MW3	4/24/2013	13:50	64.87	173.31		
AUK-MW3	5/16/2013	8:20	66.05	172.13		
AUK-MW3	6/20/2013	11:15	66.25	171.93		
AUK-MW3	7/18/2013	13:05	68.35	169.83		
AUK-MW3	8/14/2013	13:42	67.96	170.22		
AUK-MW3	9/11/2013	8:12	71.42	166.76		
AUK-MW3	10/25/2013	10:20	89.68	148.50		
AUK-MW3	11/22/2013	10:40	69.84	168.34		
AUK-MW3	12/27/2013	7:57	71.45	166.73		
AUK-MW3	1/14/2014	17:02	72.02	166.16		
AUK-MW3	2/18/2014	13:30	72.99	165.19		
AUK-MW3	3/19/2014	9:16	72.47	165.71		
AUK-MW3	4/15/2014	9:30	72.11	166.07		
AUK-MW3	5/29/2014	10:38	73.49	164.69		
AUK-MW3	6/12/2014	8:51	74.06	164.12		
AUK-MW3	7/8/2014	17:31	74.61	163.57		
AUK-MW3	8/21/2014	7:21	73.70	164.48		
AUK-MW3	9/24/2014	12:55	73.70	164.48		
AUK-MW3	10/21/2014	17:55	74.16	164.02		
AUK-MW3	11/11/2014	14:15	76.50	161.68		
AUK-MW3	12/16/2014	16:03	76.79	161.39		
AUK-MW3	1/8/2015	9:29	77.59	160.59		
AUK-MW3	2/18/2015	12:19	78.90	159.28		
AUK-MW3	3/12/2015	8:50	79.26	158.92		
AUK-MW3	4/21/2015	7:37	80.03	158.15		
AUK-MW3	5/12/2015	11:48	80.81	157.37		
AUK-MW3	6/11/2015	8:55	81.69	156.49		
AUK-MW3	7/21/2015	6:38	81.85	156.33		
AUK-MW3	8/26/2015	9:55	80.82	157.36		
AUK-MW3	9/14/2015	15:20	80.70	157.48		
AUK-MW3	10/21/2015	8:38	82.20	155.98		
AUK-MW3	11/17/2015	15:58	82.35	155.83		
AUK-MW3	12/16/2015	16:30	83.11	155.07		
AUK-MW3	1/11/2016	16:10	83.82	154.36		
AUK-MW3	2/23/2016	15:16	84.45	153.73		
AUK-MW3	3/18/2016	7:17	85.11	153.07		
AUK-MW3	4/18/2016	15:41	85.70	152.48		
AUK-MW3	5/4/2016	9:41	83.52	154.66		
AUK-MW3	6/21/2016	11:33	84.15	154.03		
AUK-MW3	7/14/2016	15:40	84.70	153.48		
AUK-MW3	8/10/2016	14:16	83.91	154.27		
AUK-MW3	9/27/2016	8:30	81.69	156.49		
AUK-MW3	10/26/2016	14:08	85.69	152.49		
AUK-MW3	11/9/2016	9:30	83.01	155.17		
AUK-MW3	12/21/2016	16:50	84.00	154.18		
AUK-MW3	1/13/2017	9:48	84.65	153.53		
AUK-MW3	2/1/2017		N/M			
AUK-MW3	3/28/2017	11:21	77.79	160.39		
AUK-MW3	4/17/2017	15:45	74.61	163.57		
AUK-MW3	5/17/2017	9:18	71.53	166.65		
AUK-MW3	6/6/2017	8:36	69.60	168.58		
AUK-MW3	7/13/2017	8:19	66.63	171.55		
AUK-MW3	8/22/2017	13:00	62.91	175.27		
AUK-MW3	9/11/2017	14:31	63.10	175.08		
AUK-MW3	10/17/2017	9:26	64.68	173.50		
AUK-MW3	11/21/2017	11:28	64.64	173.54		
AUK-MW3	12/21/2017	16:25	64.10	174.08		
AUK-MW3	1/10/2018	9:33	66.85	171.33		
AUK-MW3	2/13/2018	11:35	66.40	171.78		
AUK-MW3	3/20/2018	11:00	66.70	171.48		
AUK-MW3	4/24/2018	7:30	67.55	170.63		
AUK-MW3	5/16/2018	10:14	68.44	169.74		
AUK-MW3	6/13/2018	7:15	71.06	167.12		
AUK-MW3	7/17/2018	17:16	69.71	168.47		
AUK-MW3	8/6/2018	11:21	67.87	170.31		
AUK-MW3	9/25/2018	13:47	66.86	171.32		
AUK-MW3	10/31/2018	7:45	68.53	169.65		
AUK-MW3	11/15/2018	9:09	70.01	168.17		
AUK-MW3	12/26/2018	14:10	71.20	166.98		
AUK-MW3	1/9/2019	8:25	71.70	166.48		
AUK-MW3	2/14/2019	9:46	67.28	170.90		
AUK-MW3	3/27/2019	14:17	71.86	166.32		
AUK-MW3	4/17/2019	8:23	70.10	168.08		
AUK-MW3	5/14/2019	15:30	69.90	168.28		
AUK-MW3	6/12/2019	8:01	68.27	169.91		
AUK-MW3	7/17/2019	8:14	66.50	171.68		
AUK-MW3	8/13/2019	15:28	62.97	175.21		
AUK-MW3	9/6/2019	18:10	61.33	176.85		
AUK-MW3	10/28/2019	15:40	59.54	178.64		
AUK-MW3	11/20/2019	12:07	59.90	178.28		
AUK-MW3	12/11/2019	16:18	60.11	178.07		
DLF-MW1	1/24/2013	9:18	114.75	206.98		
DLF-MW1	2/13/2013	15:44	Dry			
DLF-MW1	3/21/2013	15:39	Dry			
DLF-MW1	4/25/2013	15:04	Dry			
DLF-MW1	5/16/2013	14:18	Dry			
DLF-MW1	6/20/2013	10:11	Dry			
DLF-MW1	7/19/2013	7:15	Dry			
DLF-MW1	8/14/2013	7:20	Dry			
DLF-MW1	9/11/2013	10:49	Dry			
DLF-MW1	10/25/2013	9:01	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
DLF-MW1	11/21/2013	13:40	Dry			
DLF-MW1	12/26/2013	15:25	Dry			
DLF-MW1	1/14/2014	15:32	109.29	212.44		
DLF-MW1	2/18/2014	6:40	111.24	210.49		
DLF-MW1	3/18/2014	16:32	Dry			
DLF-MW1	4/14/2014	15:30	Dry			
DLF-MW1	5/29/2014	14:49	Dry			
DLF-MW1	6/11/2014	15:44	Dry			
DLF-MW1	7/8/2014	15:50	Dry			
DLF-MW1	8/13/2014	14:19	Dry			
DLF-MW1	9/24/2014	9:25	Dry			
DLF-MW1	10/21/2014	14:35	Dry			
DLF-MW1	11/11/2014	8:24	Dry			
DLF-MW1	12/16/2014	14:24	Dry			
DLF-MW1	1/7/2015	16:50	Dry			
DLF-MW1	2/16/2015	13:28	Dry			
DLF-MW1	3/11/2015	15:30	Dry			
DLF-MW1	4/20/2015	15:00	Dry			
DLF-MW1	5/12/2015	7:59	Dry			
DLF-MW1	6/10/2015	15:37	Dry			
DLF-MW1	7/20/2015	16:25	Dry			
DLF-MW1	8/20/2015	15:04	Dry			
DLF-MW1	9/14/2015	13:47	Dry			
DLF-MW1	10/20/2015	15:30	Dry			
DLF-MW1	11/16/2015	12:26	Dry			
DLF-MW1	12/16/2015	15:00	Dry			
DLF-MW1	1/11/2016	14:27	Dry			
DLF-MW1	2/22/2016	16:22	Dry			
DLF-MW1	3/17/2016	14:09	Dry			
DLF-MW1	4/18/2016	13:46	Dry			
DLF-MW1	5/3/2016	11:12	Dry			
DLF-MW1	6/21/2016	10:00	Dry			
DLF-MW1	7/19/2016	8:15	Dry			
DLF-MW1	8/9/2016	13:48	Dry			
DLF-MW1	9/28/2016	16:00	Dry			
DLF-MW1	10/26/2016	14:36	Dry			
DLF-MW1	11/9/2016	7:22	Dry			
DLF-MW1	12/21/2016	15:27	Dry			
DLF-MW1	1/12/2017	17:40	Dry			
DLF-MW1	2/1/2017		N/M			
DLF-MW1	3/29/2017	12:15	Dry			
DLF-MW1	4/19/2017	8:10	116.10	205.63		
DLF-MW1	5/17/2017	14:16	Dry			
DLF-MW1	6/5/2017	14:06	Dry			
DLF-MW1	7/12/2017	16:00	Dry			
DLF-MW1	8/22/2017	8:30	115.31	206.42		
DLF-MW1	9/11/2017	11:59	110.17	211.56		
DLF-MW1	10/16/2017	14:28	108.59	213.14		
DLF-MW1	11/21/2017	7:29	108.70	213.03		
DLF-MW1	12/21/2017	13:53	109.64	212.09		
DLF-MW1	1/9/2018	15:29	109.27	212.46		
DLF-MW1	2/6/2018	7:35	110.02	211.71		
DLF-MW1	3/23/2018	11:10	112.61	209.12		
DLF-MW1	4/24/2018	15:48	Dry			
DLF-MW1	5/15/2018	11:06	111.51	210.22		
DLF-MW1	6/12/2018	14:59	111.16	210.57		
DLF-MW1	7/17/2018	16:01	111.11	210.62		
DLF-MW1	8/7/2018	9:48	116.07	205.66		
DLF-MW1	9/25/2018	7:39	115.55	206.18		
DLF-MW1	10/30/2018	16:26	Dry			
DLF-MW1	11/15/2018	11:05	Dry			
DLF-MW1	12/26/2018	12:05	Dry			
DLF-MW1	1/8/2019	15:22	Dry			
DLF-MW1	2/14/2019	10:52	Dry			
DLF-MW1	3/27/2019	10:26	Q/M			
DLF-MW1	4/16/2019	15:02	Dry			
DLF-MW1	5/14/2019	7:50	Dry			
DLF-MW1	6/11/2019	15:37	115.93	205.80		
DLF-MW1	7/16/2019	14:46	115.84	205.89		
DLF-MW1	8/13/2019	7:40	Dry			
DLF-MW1	9/6/2019	17:20	115.73	206.00		
DLF-MW1	10/28/2019	13:55	116.22	205.51		
DLF-MW1	11/20/2019	7:21	115.83	205.90		
DLF-MW1	12/11/2019	14:26	115.89	205.84		
DLF-MW2	1/24/2013	8:50	Dry			
DLF-MW2	2/13/2013	15:14	Dry			
DLF-MW2	3/21/2013	15:13	Dry			
DLF-MW2	4/25/2013	15:15	Dry			
DLF-MW2	5/16/2013	14:22	Dry			
DLF-MW2	6/20/2013	9:29	Dry			
DLF-MW2	7/19/2013	6:51	Dry			
DLF-MW2	8/14/2013	7:04	Dry			
DLF-MW2	9/11/2013	10:11	Dry			
DLF-MW2	10/25/2013	9:42	Dry			
DLF-MW2	11/21/2013	14:08	Dry			
DLF-MW2	12/26/2013	15:17	Dry			
DLF-MW2	1/14/2014	14:58	Dry			
DLF-MW2	2/18/2014	6:59	Dry			
DLF-MW2	3/18/2014	15:44	Dry			
DLF-MW2	4/14/2014	14:49	Dry			
DLF-MW2	5/29/2014	14:20	Dry			
DLF-MW2	6/11/2014	15:09	Dry			
DLF-MW2	7/8/2014	15:22	Dry			
DLF-MW2	8/13/2014	13:23	Dry			
DLF-MW2	9/24/2014	9:35	Dry			
DLF-MW2	10/21/2014	13:50	Dry			
DLF-MW2	11/11/2014	8:31	Dry			
DLF-MW2	12/16/2014	14:33	Dry			
DLF-MW2	1/7/2015	16:12	Dry			
DLF-MW2	2/16/2015	14:02	Dry			
DLF-MW2	3/11/2015	14:59	Dry			
DLF-MW2	4/20/2015	14:24	Dry			
DLF-MW2	5/12/2015	7:48	Dry			
DLF-MW2	6/10/2015	15:06	Dry			
DLF-MW2	7/20/2015	15:53	Dry			
DLF-MW2	8/20/2015	15:35	Dry			
DLF-MW2	9/14/2015	13:14	Dry			
DLF-MW2	10/20/2015	15:15	Dry			
DLF-MW2	11/16/2015	12:54	Dry			
DLF-MW2	12/16/2015	14:35	Dry			
DLF-MW2	1/11/2016	14:00	Dry			
DLF-MW2	2/22/2016	16:25	Dry			
DLF-MW2	3/17/2016	14:15	Dry			
DLF-MW2	4/18/2016	13:15	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
DLF-MW2	5/3/2016	11:44	Dry			
DLF-MW2	6/21/2016	8:43	Dry			
DLF-MW2	7/19/2016	7:32	Dry			
DLF-MW2	8/9/2016	14:22	Dry			
DLF-MW2	9/28/2016	16:50	Dry			
DLF-MW2	10/26/2016	15:29	Dry			
DLF-MW2	11/9/2016	6:54	Dry			
DLF-MW2	12/21/2016	14:47	Dry			
DLF-MW2	1/12/2017	17:30	Dry			
DLF-MW2	2/1/2017		N/M			
DLF-MW2	3/29/2017	12:35	Dry			
DLF-MW2	4/19/2017	8:37	Dry			
DLF-MW2	5/17/2017	14:49	Dry			
DLF-MW2	6/5/2017	14:44	120.82	188.79		
DLF-MW2	7/12/2017	15:34	Dry			
DLF-MW2	8/22/2017	8:38	Dry			
DLF-MW2	9/11/2017	12:31	Dry			
DLF-MW2	10/16/2017	14:38	Dry			
DLF-MW2	11/21/2017	7:55	Dry			
DLF-MW2	12/21/2017	13:21	Dry			
DLF-MW2	1/9/2018	14:53	Dry			
DLF-MW2	2/6/2018	8:28	Dry			
DLF-MW2	3/23/2018	10:20	Dry			
DLF-MW2	4/24/2018	15:20	Dry			
DLF-MW2	5/15/2018	10:25	Dry			
DLF-MW2	6/12/2018	14:22	Dry			
DLF-MW2	7/17/2018	15:25	Dry			
DLF-MW2	8/7/2018	10:18	Dry			
DLF-MW2	9/25/2018	8:05	N/M			
DLF-MW2	10/30/2018	15:58	Dry			
DLF-MW2	11/15/2018	11:36	Dry			
DLF-MW2	12/26/2018	11:45	Dry			
DLF-MW2	1/8/2019	14:40	Dry			
DLF-MW2	2/14/2019	11:58	Dry			
DLF-MW2	3/27/2019	10:54	Dry			
DLF-MW2	4/16/2019	14:25	Dry			
DLF-MW2	5/14/2019	7:02	Dry			
DLF-MW2	6/11/2019	15:05	Dry			
DLF-MW2	7/16/2019	14:00	94.41	215.20		
DLF-MW2	8/13/2019	7:38	93.85	215.76		
DLF-MW2	9/6/2019	17:13	93.34	216.27		
DLF-MW2	10/28/2019	14:24	98.63	210.98		
DLF-MW2	11/20/2019	6:55	Dry			
DLF-MW2	12/11/2019	14:02	118.61	191.00		
DLF-MW3	1/24/2013	8:55	Dry			
DLF-MW3	2/13/2013	15:10	Dry			
DLF-MW3	3/21/2013	14:45	Dry			
DLF-MW3	4/25/2013	15:10	Dry			
DLF-MW3	5/16/2013	14:24	Dry			
DLF-MW3	6/20/2013	9:20	Dry			
DLF-MW3	7/19/2013	6:45	Dry			
DLF-MW3	8/14/2013	7:00	Dry			
DLF-MW3	9/11/2013	10:05	Dry			
DLF-MW3	10/25/2013	9:10	Dry			
DLF-MW3	11/21/2013	14:13	Dry			
DLF-MW3	12/26/2013	15:22	Dry			
DLF-MW3	1/14/2014	14:51	Dry			
DLF-MW3	2/18/2014	7:04	Dry			
DLF-MW3	3/18/2014	15:35	Dry			
DLF-MW3	4/14/2014	14:40	Dry			
DLF-MW3	5/29/2014	14:15	Dry			
DLF-MW3	6/11/2014	15:02	Dry			
DLF-MW3	7/8/2014	15:14	Dry			
DLF-MW3	8/13/2014	13:12	Dry			
DLF-MW3	9/24/2014	9:30	Dry			
DLF-MW3	10/21/2014	13:45	Dry			
DLF-MW3	11/11/2014	8:37	Dry			
DLF-MW3	12/16/2014	14:29	Dry			
DLF-MW3	1/7/2015	16:04	Dry			
DLF-MW3	2/16/2015	14:07	Dry			
DLF-MW3	3/11/2015	14:35	Dry			
DLF-MW3	4/20/2015	14:18	Dry			
DLF-MW3	5/12/2015	7:53	Dry			
DLF-MW3	6/10/2015	14:59	Dry			
DLF-MW3	7/20/2015	15:45	Dry			
DLF-MW3	8/20/2015	15:40	Dry			
DLF-MW3	9/14/2015	13:07	Dry			
DLF-MW3	10/20/2015	15:25	Dry			
DLF-MW3	11/16/2015	12:58	Dry			
DLF-MW3	12/16/2015	14:30	Dry			
DLF-MW3	1/11/2016	13:55	Dry			
DLF-MW3	2/22/2016	16:20	Dry			
DLF-MW3	3/17/2016	14:20	Dry			
DLF-MW3	4/18/2016	13:10	Dry			
DLF-MW3	5/3/2016	11:50	Dry			
DLF-MW3	6/21/2016	8:32	Dry			
DLF-MW3	7/19/2016	7:23	Dry			
DLF-MW3	8/9/2016	14:28	Dry			
DLF-MW3	9/28/2016	16:57	Dry			
DLF-MW3	10/26/2016	15:24	Dry			
DLF-MW3	11/9/2016	6:50	Dry			
DLF-MW3	12/21/2016	14:35	Dry			
DLF-MW3	1/12/2017	16:39	Dry			
DLF-MW3	2/1/2017		N/M			
DLF-MW3	3/29/2017	12:30	Dry			
DLF-MW3	4/19/2017	8:25	Dry			
DLF-MW3	5/17/2017	14:43	Dry			
DLF-MW3	6/5/2017	14:51	Dry			
DLF-MW3	7/12/2017	15:30	Dry			
DLF-MW3	8/22/2017	8:20	Dry			
DLF-MW3	9/11/2017	12:36	Dry			
DLF-MW3	10/16/2017	14:45	Dry			
DLF-MW3	11/21/2017	8:02	Dry			
DLF-MW3	12/21/2017	13:16	Dry			
DLF-MW3	1/9/2018	14:45	Dry			
DLF-MW3	2/6/2018	8:34	Dry			
DLF-MW3	3/23/2018	10:00	Dry			
DLF-MW3	4/24/2018	15:15	Dry			
DLF-MW3	5/15/2018	10:30	Dry			
DLF-MW3	6/12/2018	14:15	Dry			
DLF-MW3	7/17/2018	15:19	Dry			
DLF-MW3	8/7/2018	10:14	Dry			
DLF-MW3	9/25/2018	8:15	Dry			
DLF-MW3	10/30/2018	15:50	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
DLF-MW3	11/15/2018	11:42	Dry			
DLF-MW3	12/26/2018	11:40	Dry			
DLF-MW3	1/8/2019	14:34	Dry			
DLF-MW3	2/14/2019	12:02	Dry			
DLF-MW3	3/27/2019	11:03	Dry			
DLF-MW3	4/16/2019	14:18	Dry			
DLF-MW3	5/14/2019	6:55	Dry			
DLF-MW3	6/11/2019	14:58	Dry			
DLF-MW3	7/16/2019	13:53	Dry			
DLF-MW3	8/13/2019	7:30	Dry			
DLF-MW3	9/6/2019	16:36	Dry			
DLF-MW3	10/28/2019	14:19	Dry			
DLF-MW3	11/20/2019	6:45	Dry			
DLF-MW3	12/11/2019	13:55	Dry			
DLF-MW4A	1/24/2013	8:58	Dry			
DLF-MW4A	2/13/2013	15:17	Dry			
DLF-MW4A	3/21/2013	15:00	Dry			
DLF-MW4A	4/25/2013	15:19	Dry			
DLF-MW4A	5/16/2013	14:31	Dry			
DLF-MW4A	6/20/2013	9:35	Dry			
DLF-MW4A	7/19/2013	7:00	Dry			
DLF-MW4A	8/14/2013	7:08	Dry			
DLF-MW4A	9/11/2013	10:18	Dry			
DLF-MW4A	10/25/2013	9:15	Dry			
DLF-MW4A	11/21/2013	13:59	Dry			
DLF-MW4A	12/26/2013	15:33	Dry			
DLF-MW4A	1/14/2014	15:05	Dry			
DLF-MW4A	2/18/2014	6:48	Dry			
DLF-MW4A	3/18/2014	15:50	Dry			
DLF-MW4A	4/14/2014	14:55	Dry			
DLF-MW4A	5/29/2014	14:25	Dry			
DLF-MW4A	6/11/2014	15:15	Dry			
DLF-MW4A	7/8/2014	15:24	Dry			
DLF-MW4A	8/13/2014	13:31	Dry			
DLF-MW4A	9/24/2014	9:40	Dry			
DLF-MW4A	10/21/2014	13:55	Dry			
DLF-MW4A	11/11/2014	8:43	Dry			
DLF-MW4A	12/16/2014	14:36	Dry			
DLF-MW4A	1/7/2015	16:17	Dry			
DLF-MW4A	2/16/2015	13:49	Dry			
DLF-MW4A	3/11/2015	14:45	Dry			
DLF-MW4A	4/20/2015	14:28	Dry			
DLF-MW4A	5/12/2015	7:42	Dry			
DLF-MW4A	6/10/2015	15:09	Dry			
DLF-MW4A	7/20/2015	15:59	Dry			
DLF-MW4A	8/20/2015	15:25	Dry			
DLF-MW4A	9/14/2015	13:19	Dry			
DLF-MW4A	10/20/2015	15:55	Dry			
DLF-MW4A	11/16/2015	12:44	Dry			
DLF-MW4A	12/16/2015	14:40	Dry			
DLF-MW4A	1/11/2016	14:05	Dry			
DLF-MW4A	2/22/2016	16:43	Dry			
DLF-MW4A	3/17/2016	13:45	Dry			
DLF-MW4A	4/18/2016	13:20	Dry			
DLF-MW4A	5/3/2016	11:35	Dry			
DLF-MW4A	6/21/2016	9:12	Dry			
DLF-MW4A	7/19/2016	7:46	Dry			
DLF-MW4A	8/9/2016	14:11	Dry			
DLF-MW4A	9/28/2016	17:00	Dry			
DLF-MW4A	10/26/2016	15:09	Dry			
DLF-MW4A	11/9/2016	6:58	Dry			
DLF-MW4A	12/21/2016	14:51	Dry			
DLF-MW4A	1/12/2017	16:50	Dry			
DLF-MW4A	2/1/2017		N/M			
DLF-MW4A	3/29/2017	12:21	Dry			
DLF-MW4A	4/19/2017	8:43	Dry			
DLF-MW4A	5/17/2017	14:56	Dry			
DLF-MW4A	6/5/2017	14:39	Dry			
DLF-MW4A	7/12/2017	15:40	Dry			
DLF-MW4A	8/22/2017	8:45	Dry			
DLF-MW4A	9/11/2017	12:22	Dry			
DLF-MW4A	10/16/2017	17:19	Dry			
DLF-MW4A	11/21/2017	8:07	Dry			
DLF-MW4A	12/21/2017	13:25	Dry			
DLF-MW4A	1/9/2018	15:00	Dry			
DLF-MW4A	2/6/2018	8:02	Dry			
DLF-MW4A	3/23/2018	10:30	Dry			
DLF-MW4A	4/24/2018	15:23	Dry			
DLF-MW4A	5/15/2018	10:15	Dry			
DLF-MW4A	6/12/2018	14:31	Dry			
DLF-MW4A	7/17/2018	15:30	Dry			
DLF-MW4A	8/7/2018	10:18	Dry			
DLF-MW4A	9/25/2018	8:34	Dry			
DLF-MW4A	10/30/2018	16:04	Dry			
DLF-MW4A	11/15/2018	11:30	Dry			
DLF-MW4A	12/26/2018	11:35	Dry			
DLF-MW4A	1/8/2019	14:50	Dry			
DLF-MW4A	2/14/2019	11:29	Dry			
DLF-MW4A	3/27/2019	10:46	Dry			
DLF-MW4A	4/16/2019	14:32	Dry			
DLF-MW4A	5/14/2019	7:10	Dry			
DLF-MW4A	6/11/2019	14:14	93.45	220.63		
DLF-MW4A	7/16/2019	14:15	76.53	237.55		
DLF-MW4A	8/13/2019	7:48	78.12	235.96		
DLF-MW4A	9/6/2019	16:48	81.88	232.20		
DLF-MW4A	10/28/2019	14:10	81.13	232.95		
DLF-MW4A	11/20/2019	6:57	95.43	218.65		
DLF-MW4A	12/11/2019	14:07	98.20	215.88		
DLF-MW4B	1/24/2013	9:02	Dry			
DLF-MW4B	2/13/2013	15:19	Dry			
DLF-MW4B	3/21/2013	15:03	Dry			
DLF-MW4B	4/25/2013	15:22	Dry			
DLF-MW4B	5/16/2013	14:34	Dry			
DLF-MW4B	6/20/2013	9:38	Dry			
DLF-MW4B	7/19/2013	7:05	Dry			
DLF-MW4B	8/14/2013	7:09	Dry			
DLF-MW4B	9/11/2013	10:20	Dry			
DLF-MW4B	10/25/2013	9:18	Dry			
DLF-MW4B	11/21/2013	14:01	Dry			
DLF-MW4B	12/26/2013	15:40	Dry			
DLF-MW4B	1/14/2014	15:08	139.68	168.78		
DLF-MW4B	2/18/2014	6:51	Dry			
DLF-MW4B	3/18/2014	15:56	Dry			
DLF-MW4B	4/14/2014	14:59	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
DLF-MW4B	5/29/2014	14:28	Dry			
DLF-MW4B	6/11/2014	15:19	Dry			
DLF-MW4B	7/8/2014	15:28	Dry			
DLF-MW4B	8/13/2014	13:35	Dry			
DLF-MW4B	9/24/2014	9:43	Dry			
DLF-MW4B	10/21/2014	13:58	Dry			
DLF-MW4B	11/11/2014	8:46	Dry			
DLF-MW4B	12/16/2014	14:38	Dry			
DLF-MW4B	1/7/2015	16:20	Dry			
DLF-MW4B	2/16/2015	13:53	Dry			
DLF-MW4B	3/11/2015	14:47	Dry			
DLF-MW4B	4/20/2015	14:31	Dry			
DLF-MW4B	5/12/2015	7:33	Dry			
DLF-MW4B	6/10/2015	15:15	Dry			
DLF-MW4B	7/20/2015	16:02	Dry			
DLF-MW4B	8/20/2015	15:28	Dry			
DLF-MW4B	9/14/2015	13:22	Dry			
DLF-MW4B	10/20/2015	16:05	Dry			
DLF-MW4B	11/16/2015	12:46	Dry			
DLF-MW4B	12/16/2015	14:43	Dry			
DLF-MW4B	1/11/2016	14:08	Dry			
DLF-MW4B	2/22/2016	16:46	Dry			
DLF-MW4B	3/17/2016	13:47	Dry			
DLF-MW4B	4/18/2016	13:23	Dry			
DLF-MW4B	5/3/2016	11:38	Dry			
DLF-MW4B	6/21/2016	8:59	Dry			
DLF-MW4B	7/19/2016	7:38	Dry			
DLF-MW4B	8/9/2016	14:13	Dry			
DLF-MW4B	9/28/2016	16:20	Dry			
DLF-MW4B	10/26/2016	15:13	Dry			
DLF-MW4B	11/9/2016	7:03	Dry			
DLF-MW4B	12/21/2016	14:54	Dry			
DLF-MW4B	1/12/2017	16:53	Dry			
DLF-MW4B	2/1/2017		N/M			
DLF-MW4B	3/29/2017	12:23	Dry			
DLF-MW4B	4/19/2017	8:48	Dry			
DLF-MW4B	5/17/2017	14:59	Dry			
DLF-MW4B	6/5/2017	14:32	Dry			
DLF-MW4B	7/12/2017	15:40	Dry			
DLF-MW4B	8/22/2017	8:50	Dry			
DLF-MW4B	9/11/2017	12:24	Dry			
DLF-MW4B	10/16/2017	17:22	Dry			
DLF-MW4B	11/21/2017	8:11	Dry			
DLF-MW4B	12/21/2017	13:28	Dry			
DLF-MW4B	1/9/2018	15:02	Dry			
DLF-MW4B	2/6/2018	8:04	Dry			
DLF-MW4B	3/23/2018	10:35	Dry			
DLF-MW4B	4/24/2018	15:29	Dry			
DLF-MW4B	5/15/2018	10:16	Dry			
DLF-MW4B	6/12/2018	14:34	Dry			
DLF-MW4B	7/17/2018	15:32	Dry			
DLF-MW4B	8/7/2018	10:20	Dry			
DLF-MW4B	9/25/2018	8:36	Dry			
DLF-MW4B	10/30/2018	16:06	Dry			
DLF-MW4B	11/15/2018	11:24	Dry			
DLF-MW4B	12/26/2018	11:36	Dry			
DLF-MW4B	1/8/2019	14:49	Dry			
DLF-MW4B	2/14/2019	11:33	Dry			
DLF-MW4B	3/27/2019	10:47	Dry			
DLF-MW4B	4/16/2019	14:36	Dry			
DLF-MW4B	5/14/2019	7:14	Dry			
DLF-MW4B	6/11/2019	15:09	134.19	174.27		
DLF-MW4B	7/16/2019	14:08	119.33	189.13		
DLF-MW4B	8/13/2019	7:46	117.50	190.96		
DLF-MW4B	9/6/2019	16:43	116.10	192.36		
DLF-MW4B	10/28/2019	14:12	116.92	191.54		
DLF-MW4B	11/20/2019	6:58	117.05	191.41		
DLF-MW4B	12/11/2019	14:10	127.24	181.22		
DLF-MW4C	1/24/2013	9:05	143.48	164.96		
DLF-MW4C	2/13/2013	15:22	151.20	157.24		
DLF-MW4C	3/21/2013	15:07	153.42	155.02		
DLF-MW4C	4/25/2013	15:25	155.63	152.81		
DLF-MW4C	5/16/2013	14:35	160.68	147.76		
DLF-MW4C	6/20/2013	9:42	166.37	142.07		
DLF-MW4C	7/19/2013	7:08	167.73	140.71		
DLF-MW4C	8/14/2013	7:11	166.07	142.37		
DLF-MW4C	9/11/2013	10:23	171.03	137.41		
DLF-MW4C	10/25/2013	9:22	167.76	140.68		
DLF-MW4C	11/21/2013	14:03	163.61	144.83		
DLF-MW4C	12/26/2013	15:43	160.36	148.08		
DLF-MW4C	1/14/2014	15:11	162.16	146.28		
DLF-MW4C	2/18/2014	6:54	162.83	145.61		
DLF-MW4C	3/18/2014	16:01	165.88	142.56		
DLF-MW4C	4/14/2014	15:03	168.70	139.74		
DLF-MW4C	5/29/2014	14:31	172.02	136.42		
DLF-MW4C	6/11/2014	15:22	173.22	135.22		
DLF-MW4C	7/8/2014	15:31	175.06	133.38		
DLF-MW4C	8/13/2014	13:37	179.19	129.25		
DLF-MW4C	9/24/2014	9:46	Dry			
DLF-MW4C	10/21/2014	14:01	Dry			
DLF-MW4C	11/11/2014	8:50	Dry			
DLF-MW4C	12/16/2014	14:40	Dry			
DLF-MW4C	1/7/2015	16:23	174.08	134.36		
DLF-MW4C	2/16/2015	13:55	174.72	133.72		
DLF-MW4C	3/11/2015	14:51	177.49	130.95		
DLF-MW4C	4/20/2015	14:34	179.69	128.75		
DLF-MW4C	5/12/2015	7:37	Dry			
DLF-MW4C	6/10/2015	15:18	Dry			
DLF-MW4C	7/20/2015	16:04	Dry			
DLF-MW4C	8/20/2015	15:31	Dry			
DLF-MW4C	9/14/2015	13:24	Dry			
DLF-MW4C	10/20/2015	16:00	Dry			
DLF-MW4C	11/16/2015	12:47	Dry			
DLF-MW4C	12/16/2015	14:46	Dry			
DLF-MW4C	1/11/2016	14:11	Dry			
DLF-MW4C	2/22/2016	16:49	Dry			
DLF-MW4C	3/17/2016	13:49	Dry			
DLF-MW4C	4/18/2016	13:26	Dry			
DLF-MW4C	5/3/2016	11:41	Dry			
DLF-MW4C	6/21/2016	9:05	Dry			
DLF-MW4C	7/19/2016	7:42	Dry			
DLF-MW4C	8/9/2016	14:16	Dry			
DLF-MW4C	9/28/2016	16:24	Dry			
DLF-MW4C	10/26/2016	15:16	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
DLF-MW4C	11/9/2016	7:07	Dry			
DLF-MW4C	12/21/2016	14:59	Dry			
DLF-MW4C	1/12/2017	16:57	Dry			
DLF-MW4C	2/1/2017		N/M			
DLF-MW4C	3/29/2017	12:25	Dry			
DLF-MW4C	4/19/2017	8:53	Dry			
DLF-MW4C	5/17/2017	15:03	Dry			
DLF-MW4C	6/5/2017	14:35	Dry			
DLF-MW4C	7/12/2017	15:41	Dry			
DLF-MW4C	8/22/2017	8:55	Dry			
DLF-MW4C	9/11/2017	12:26	Dry			
DLF-MW4C	10/16/2017	17:25	177.90	130.54		
DLF-MW4C	11/21/2017	8:10	Dry			
DLF-MW4C	12/21/2017	13:31	Dry			
DLF-MW4C	1/9/2018	15:05	174.70	133.74		
DLF-MW4C	2/6/2018	8:08	174.72	133.72		
DLF-MW4C	3/23/2018	10:40	177.08	131.36		
DLF-MW4C	4/24/2018	15:25	175.70	132.74		
DLF-MW4C	5/15/2018	10:17	178.38	130.06		
DLF-MW4C	6/12/2018	14:37	176.21	132.23		
DLF-MW4C	7/17/2018	15:34	Dry			
DLF-MW4C	8/7/2018	10:22	176.35	132.09		
DLF-MW4C	9/25/2018	8:38	177.74	130.70		
DLF-MW4C	10/30/2018	16:08	177.16	131.28		
DLF-MW4C	11/15/2018	11:26	Dry			
DLF-MW4C	12/26/2018	11:37	175.55	132.89		
DLF-MW4C	1/8/2019	14:48	175.52	132.92		
DLF-MW4C	2/14/2019	11:35	Dry			
DLF-MW4C	3/27/2019	10:45	Dry			
DLF-MW4C	4/16/2019	14:39	173.02	135.42		
DLF-MW4C	5/14/2019	7:20	170.73	137.71		
DLF-MW4C	6/11/2019	15:10	164.15	144.29		
DLF-MW4C	7/16/2019	14:11	148.69	159.75		
DLF-MW4C	8/13/2019	7:43	141.81	166.63		
DLF-MW4C	9/6/2019	16:45	140.29	168.15		
DLF-MW4C	10/28/2019	14:13	136.84	171.60		
DLF-MW4C	11/20/2019	6:59	134.51	173.93		
DLF-MW4C	12/11/2019	14:12	159.39	149.05		
DLF-MW5A	1/24/2013	9:08	117.80	198.38		
DLF-MW5A	2/13/2013	15:28	117.89	198.29		
DLF-MW5A	3/21/2013	17:01	118.75	197.43		
DLF-MW5A	4/25/2013	15:29	121.80	194.38		
DLF-MW5A	5/16/2013	14:42	118.44	197.74		
DLF-MW5A	6/20/2013	9:48	Dry			
DLF-MW5A	7/19/2013	7:22	Dry			
DLF-MW5A	8/14/2013	7:15	Dry			
DLF-MW5A	9/11/2013	10:32	Dry			
DLF-MW5A	10/25/2013	9:30	Dry			
DLF-MW5A	11/21/2013	13:50	118.30	197.88		
DLF-MW5A	12/26/2013	15:51	Dry			
DLF-MW5A	1/14/2014	15:16	117.57	198.61		
DLF-MW5A	2/18/2014	6:41	Dry			
DLF-MW5A	3/18/2014	16:11	Dry			
DLF-MW5A	4/14/2014	15:09	Dry			
DLF-MW5A	5/29/2014	14:37	Dry			
DLF-MW5A	6/11/2014	15:26	118.08	198.10		
DLF-MW5A	7/8/2014	15:36	117.84	198.34		
DLF-MW5A	8/13/2014	13:49	119.37	196.81		
DLF-MW5A	9/24/2014	9:51	Dry			
DLF-MW5A	10/21/2014	14:05	117.98	198.20		
DLF-MW5A	11/11/2014	8:58	Dry			
DLF-MW5A	12/16/2014	14:44	Dry			
DLF-MW5A	1/7/2015	16:30	Dry			
DLF-MW5A	2/16/2015	13:37	Dry			
DLF-MW5A	3/11/2015	15:05	Dry			
DLF-MW5A	4/20/2015	14:45	Dry			
DLF-MW5A	5/12/2015	7:21	Dry			
DLF-MW5A	6/10/2015	15:27	Dry			
DLF-MW5A	7/20/2015	16:13	Dry			
DLF-MW5A	8/20/2015	15:13	Dry			
DLF-MW5A	9/14/2015	13:30	Dry			
DLF-MW5A	10/20/2015	15:40	Dry			
DLF-MW5A	11/16/2015	12:34	Dry			
DLF-MW5A	12/16/2015	14:50	Dry			
DLF-MW5A	1/11/2016	14:16	Dry			
DLF-MW5A	2/22/2016	16:32	Dry			
DLF-MW5A	3/17/2016	14:00	Dry			
DLF-MW5A	4/18/2016	13:31	Dry			
DLF-MW5A	5/3/2016	11:21	Dry			
DLF-MW5A	6/21/2016	9:23	Dry			
DLF-MW5A	7/19/2016	7:53	Dry			
DLF-MW5A	8/9/2016	14:01	Dry			
DLF-MW5A	9/28/2016	16:27	Dry			
DLF-MW5A	10/26/2016	14:56	Dry			
DLF-MW5A	11/9/2016	7:11	Dry			
DLF-MW5A	12/21/2016	15:07	Dry			
DLF-MW5A	1/12/2017	17:10	Dry			
DLF-MW5A	2/1/2017		N/M			
DLF-MW5A	3/29/2017	12:38	Dry			
DLF-MW5A	4/19/2017	9:05	Dry			
DLF-MW5A	5/17/2017	15:09	Dry			
DLF-MW5A	6/5/2017	15:01	Dry			
DLF-MW5A	7/12/2017	15:51	Dry			
DLF-MW5A	8/22/2017	8:31	Dry			
DLF-MW5A	9/11/2017	12:07	Dry			
DLF-MW5A	10/16/2017	15:10	Dry			
DLF-MW5A	11/21/2017	8:19	Dry			
DLF-MW5A	12/21/2017	13:45	Dry			
DLF-MW5A	1/9/2018	15:15	Dry			
DLF-MW5A	2/6/2018	8:14	Dry			
DLF-MW5A	3/23/2018	10:50	Dry			
DLF-MW5A	4/24/2018	15:32	Dry			
DLF-MW5A	5/15/2018	10:52	Dry			
DLF-MW5A	6/12/2018	14:51	Dry			
DLF-MW5A	7/17/2018	15:50	Dry			
DLF-MW5A	8/7/2018	10:27	Dry			
DLF-MW5A	9/25/2018	8:56	Dry			
DLF-MW5A	10/30/2018	16:16	Dry			
DLF-MW5A	11/15/2018	11:14	Dry			
DLF-MW5A	12/26/2018	11:53	Dry			
DLF-MW5A	1/8/2019	15:01	Dry			
DLF-MW5A	2/14/2019	11:46	Dry			
DLF-MW5A	3/27/2019	10:36	Dry			
DLF-MW5A	4/16/2019	14:46	117.46	198.72		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
DLF-MW5A	5/14/2019	7:32	74.50	241.68		
DLF-MW5A	6/11/2019	15:29	55.44	260.74		
DLF-MW5A	7/16/2019	14:31	58.93	257.25		
DLF-MW5A	8/13/2019	8:02	69.89	246.29		
DLF-MW5A	9/6/2019	17:09	80.73	235.45		
DLF-MW5A	10/28/2019	14:07	91.01	225.17		
DLF-MW5A	11/20/2019	7:08	93.00	223.18		
DLF-MW5A	12/11/2019	14:17	96.41	219.77		
DLF-MW5B	1/24/2013	9:10	142.58	173.56		
DLF-MW5B	2/13/2013	15:31	145.11	171.03		
DLF-MW5B	3/21/2013	16:55	145.97	170.17		
DLF-MW5B	4/25/2013	15:32	149.98	166.16		
DLF-MW5B	5/16/2013	14:24	152.51	163.63		
DLF-MW5B	6/20/2013	9:51	Dry			
DLF-MW5B	7/19/2013	7:26	Dry			
DLF-MW5B	8/14/2013	7:16	Dry			
DLF-MW5B	9/11/2013	10:36	Dry			
DLF-MW5B	10/25/2013	9:33	Dry			
DLF-MW5B	11/21/2013	13:53	Dry			
DLF-MW5B	12/26/2013	15:54	Dry			
DLF-MW5B	1/14/2014	15:19	Dry			
DLF-MW5B	2/18/2014	6:44	Dry			
DLF-MW5B	3/18/2014	16:16	Dry			
DLF-MW5B	4/14/2014	15:13	Dry			
DLF-MW5B	5/29/2014	14:40	Dry			
DLF-MW5B	6/11/2014	15:30	Dry			
DLF-MW5B	7/8/2014	15:39	Dry			
DLF-MW5B	8/13/2014	13:53	Dry			
DLF-MW5B	9/24/2014	9:54	Dry			
DLF-MW5B	10/21/2014	14:08	Dry			
DLF-MW5B	11/11/2014	9:00	Dry			
DLF-MW5B	12/16/2014	14:46	Dry			
DLF-MW5B	1/7/2015	16:35	Dry			
DLF-MW5B	2/16/2015	13:40	Dry			
DLF-MW5B	3/11/2015	15:09	Dry			
DLF-MW5B	4/20/2015	14:48	Dry			
DLF-MW5B	5/12/2015	7:25	Dry			
DLF-MW5B	6/10/2015	15:30	Dry			
DLF-MW5B	7/20/2015	16:16	Dry			
DLF-MW5B	8/20/2015	15:16	Dry			
DLF-MW5B	9/14/2015	13:33	Dry			
DLF-MW5B	10/20/2015	15:45	Dry			
DLF-MW5B	11/16/2015	12:36	Dry			
DLF-MW5B	12/16/2015	14:53	Dry			
DLF-MW5B	1/11/2016	14:19	Dry			
DLF-MW5B	2/22/2016	16:35	Dry			
DLF-MW5B	3/17/2016	14:02	Dry			
DLF-MW5B	4/18/2016	13:34	Dry			
DLF-MW5B	5/3/2016	11:24	Dry			
DLF-MW5B	6/21/2016	9:30	Dry			
DLF-MW5B	7/19/2016	7:58	Dry			
DLF-MW5B	8/9/2016	14:03	Dry			
DLF-MW5B	9/28/2016	16:30	Dry			
DLF-MW5B	10/26/2016	14:53	Dry			
DLF-MW5B	11/9/2016	7:14	Dry			
DLF-MW5B	12/21/2016	15:10	Dry			
DLF-MW5B	1/12/2017	17:12	Dry			
DLF-MW5B	2/1/2017		N/M			
DLF-MW5B	3/29/2017	12:39	Dry			
DLF-MW5B	4/19/2017	9:08	Dry			
DLF-MW5B	5/17/2017	15:13	Dry			
DLF-MW5B	6/5/2017	15:04	Dry			
DLF-MW5B	7/12/2017	15:50	Dry			
DLF-MW5B	8/22/2017	8:36	Dry			
DLF-MW5B	9/11/2017	12:10	Dry			
DLF-MW5B	10/16/2017	15:13	Dry			
DLF-MW5B	11/21/2017	8:21	Dry			
DLF-MW5B	12/21/2017	13:42	Dry			
DLF-MW5B	1/9/2018	15:18	Dry			
DLF-MW5B	2/6/2018	8:18	Dry			
DLF-MW5B	3/23/2018	10:55	Dry			
DLF-MW5B	4/24/2018	15:33	Dry			
DLF-MW5B	5/15/2018	10:53	Dry			
DLF-MW5B	6/12/2018	14:47	Dry			
DLF-MW5B	7/17/2018	15:48	Dry			
DLF-MW5B	8/7/2018	10:29	Dry			
DLF-MW5B	9/25/2018	8:59	Q/M			
DLF-MW5B	10/30/2018	16:18	Dry			
DLF-MW5B	11/15/2018	11:12	Dry			
DLF-MW5B	12/26/2018	11:54	Dry			
DLF-MW5B	1/8/2019	15:00	Dry			
DLF-MW5B	2/14/2019	11:47	Dry			
DLF-MW5B	3/27/2019	10:37	Dry			
DLF-MW5B	4/16/2019	14:50	Dry			
DLF-MW5B	5/14/2019	7:36	140.00	176.14		
DLF-MW5B	6/11/2019	15:22	114.62	201.52		
DLF-MW5B	7/16/2019	14:28	106.59	209.55		
DLF-MW5B	8/13/2019	7:59	109.19	206.95		
DLF-MW5B	9/6/2019	17:05	113.54	202.60		
DLF-MW5B	10/28/2019	14:02	117.35	198.79		
DLF-MW5B	11/20/2019	7:09	116.57	199.57		
DLF-MW5B	12/11/2019	14:19	127.66	188.48		
DLF-MW5C	1/24/2013	9:12	142.65	173.64		
DLF-MW5C	2/13/2013	15:34	145.10	171.19		
DLF-MW5C	3/21/2013	16:58	145.90	170.39		
DLF-MW5C	4/25/2013	15:35	149.93	166.36		
DLF-MW5C	5/16/2013	14:46	152.47	163.82		
DLF-MW5C	6/20/2013	9:55	155.66	160.63		
DLF-MW5C	7/19/2013	7:30	157.61	158.68		
DLF-MW5C	8/14/2013	7:18	159.36	156.93		
DLF-MW5C	9/11/2013	10:40	160.79	155.50		
DLF-MW5C	10/25/2013	9:35	160.85	155.44		
DLF-MW5C	11/21/2013	13:55	159.97	156.32		
DLF-MW5C	12/26/2013	15:55	157.11	159.18		
DLF-MW5C	1/14/2014	15:22	Dry			
DLF-MW5C	2/18/2014	6:47	156.78	159.51		
DLF-MW5C	3/18/2014	16:20	157.34	158.95		
DLF-MW5C	4/14/2014	15:17	159.14	157.15		
DLF-MW5C	5/29/2014	14:43	161.96	154.33		
DLF-MW5C	6/11/2014	15:33	162.75	153.54		
DLF-MW5C	7/8/2014	15:42	163.84	152.45		
DLF-MW5C	8/13/2014	13:55	164.86	151.43		
DLF-MW5C	9/24/2014	9:57	Dry			
DLF-MW5C	10/21/2014	14:11	165.03	151.26		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
DLF-MW5C	11/11/2014	9:03	Dry			
DLF-MW5C	12/16/2014	14:48	Dry			
DLF-MW5C	1/7/2015	16:38	Dry			
DLF-MW5C	2/16/2015	13:42	Dry			
DLF-MW5C	3/11/2015	15:12	Dry			
DLF-MW5C	4/20/2015	14:51	Dry			
DLF-MW5C	5/12/2015	7:28	Dry			
DLF-MW5C	6/10/2015	15:33	Dry			
DLF-MW5C	7/20/2015	16:19	Dry			
DLF-MW5C	8/20/2015	15:19	Dry			
DLF-MW5C	9/14/2015	13:36	Dry			
DLF-MW5C	10/20/2015	15:50	Dry			
DLF-MW5C	11/16/2015	12:38	Dry			
DLF-MW5C	12/16/2015	14:56	Dry			
DLF-MW5C	1/11/2016	14:22	Dry			
DLF-MW5C	2/22/2016	16:38	Dry			
DLF-MW5C	3/17/2016	14:04	Dry			
DLF-MW5C	4/18/2016	13:37	Dry			
DLF-MW5C	5/3/2016	11:27	Dry			
DLF-MW5C	6/21/2016	9:36	Dry			
DLF-MW5C	7/19/2016	8:04	Dry			
DLF-MW5C	8/9/2016	14:05	Dry			
DLF-MW5C	9/28/2016	16:33	Dry			
DLF-MW5C	10/26/2016	14:42	Dry			
DLF-MW5C	11/9/2016	7:18	Dry			
DLF-MW5C	12/21/2016	15:13	Dry			
DLF-MW5C	1/12/2017	17:14	Dry			
DLF-MW5C	2/1/2017		N/M			
DLF-MW5C	3/29/2017	12:41	Dry			
DLF-MW5C	4/19/2017	9:12	Dry			
DLF-MW5C	5/17/2017	15:17	Dry			
DLF-MW5C	6/5/2017	15:08	Dry			
DLF-MW5C	7/12/2017	15:53	Dry			
DLF-MW5C	8/22/2017	8:39	Dry			
DLF-MW5C	9/11/2017	12:13	Dry			
DLF-MW5C	10/16/2017	15:16	Dry			
DLF-MW5C	11/21/2017	8:24	Dry			
DLF-MW5C	12/21/2017	13:40	Dry			
DLF-MW5C	1/9/2018	15:20	Dry			
DLF-MW5C	2/6/2018	8:21	Dry			
DLF-MW5C	3/23/2018	11:00	Dry			
DLF-MW5C	4/24/2018	15:34	Dry			
DLF-MW5C	5/15/2018	10:54	Dry			
DLF-MW5C	6/12/2018	14:44	Dry			
DLF-MW5C	7/17/2018	15:46	Dry			
DLF-MW5C	8/7/2018	10:30	Dry			
DLF-MW5C	9/25/2018	9:02	Dry			
DLF-MW5C	10/30/2018	16:20	Dry			
DLF-MW5C	11/15/2018	11:17	Dry			
DLF-MW5C	12/26/2018	11:55	Dry			
DLF-MW5C	1/8/2019	14:59	Dry			
DLF-MW5C	2/14/2019	11:49	Dry			
DLF-MW5C	3/27/2019	10:38	Dry			
DLF-MW5C	4/16/2019	14:53	Dry			
DLF-MW5C	5/14/2019	7:41	140.00	176.29		
DLF-MW5C	6/11/2019	15:24	114.50	201.79		
DLF-MW5C	7/16/2019	14:25	106.54	209.75		
DLF-MW5C	8/13/2019	7:56	109.00	207.29		
DLF-MW5C	9/6/2019	17:07	113.42	202.87		
DLF-MW5C	10/28/2019	14:05	116.71	199.58		
DLF-MW5C	11/20/2019	7:10	116.39	199.90		
DLF-MW5C	12/11/2019	14:21	Dry			
DLF-MW6A	1/24/2013	8:02	90.72	211.87		
DLF-MW6A	2/13/2013	14:50	93.21	209.38		
DLF-MW6A	3/21/2013	15:01	100.18	202.41		
DLF-MW6A	4/25/2013	15:41	96.74	205.85		
DLF-MW6A	5/16/2013	14:40	Dry			
DLF-MW6A	6/20/2013	10:30	Dry			
DLF-MW6A	7/19/2013	7:45	Dry			
DLF-MW6A	8/14/2013	7:25	Dry			
DLF-MW6A	9/11/2013	11:00	Dry			
DLF-MW6A	10/25/2013	9:50	Dry			
DLF-MW6A	11/21/2013	14:20	Dry			
DLF-MW6A	12/26/2013	16:07	Dry			
DLF-MW6A	1/14/2014	14:39	Dry			
DLF-MW6A	2/18/2014	6:52	Dry			
DLF-MW6A	3/18/2014	15:07	Dry			
DLF-MW6A	4/14/2014	15:43	Dry			
DLF-MW6A	5/29/2014	13:59	Dry			
DLF-MW6A	6/11/2014	14:37	Dry			
DLF-MW6A	7/8/2014	15:00	Dry			
DLF-MW6A	8/13/2014	12:47	Dry			
DLF-MW6A	9/24/2014	10:20	93.69	208.90		
DLF-MW6A	10/21/2014	14:20	Dry			
DLF-MW6A	11/11/2014	9:14	Dry			
DLF-MW6A	12/16/2014	14:54	Dry			
DLF-MW6A	1/7/2015	15:40	Dry			
DLF-MW6A	2/16/2015	14:12	Dry			
DLF-MW6A	3/11/2015	14:15	Dry			
DLF-MW6A	4/20/2015	15:07	Dry			
DLF-MW6A	5/12/2015	8:06	Dry			
DLF-MW6A	6/10/2015	14:45	Dry			
DLF-MW6A	7/20/2015	16:29	Dry			
DLF-MW6A	8/20/2015	15:47	Dry			
DLF-MW6A	9/14/2015	13:59	Dry			
DLF-MW6A	10/20/2015	15:00	90.65	211.94		
DLF-MW6A	11/16/2015	13:06	98.24	204.35		
DLF-MW6A	12/16/2015	15:08	Dry			
DLF-MW6A	1/11/2016	14:35	Dry			
DLF-MW6A	2/22/2016	16:46	Dry			
DLF-MW6A	3/17/2016	14:27	Dry			
DLF-MW6A	4/18/2016	13:59	Dry			
DLF-MW6A	5/3/2016	12:01	Dry			
DLF-MW6A	6/21/2016	10:16	Dry			
DLF-MW6A	7/19/2016	8:27	Dry			
DLF-MW6A	8/9/2016	14:35	Dry			
DLF-MW6A	9/28/2016	16:40	Dry			
DLF-MW6A	10/26/2016	15:41	Dry			
DLF-MW6A	11/9/2016	7:30	94.38	208.21		
DLF-MW6A	12/21/2016	14:00	Dry			
DLF-MW6A	1/13/2017	7:30	Dry			
DLF-MW6A	2/1/2017		N/M			
DLF-MW6A	3/29/2017	12:44	Dry			
DLF-MW6A	4/19/2017	7:55	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
DLF-MW6A	5/17/2017	1:43	Dry			
DLF-MW6A	6/5/2017	14:16	Dry			
DLF-MW6A	7/12/2017	15:18	Dry			
DLF-MW6A	8/22/2017	8:50	86.99	215.60		
DLF-MW6A	9/11/2017	12:46	81.81	220.78		
DLF-MW6A	10/16/2017	15:25	82.06	220.53		
DLF-MW6A	11/21/2017	7:38	82.47	220.12		
DLF-MW6A	12/21/2017	14:00	82.60	219.99		
DLF-MW6A	1/9/2018	15:42	91.40	211.19		
DLF-MW6A	2/6/2018	7:42	100.70	201.89		
DLF-MW6A	3/23/2018	11:35	Dry			
DLF-MW6A	4/24/2018	14:56	Dry			
DLF-MW6A	5/15/2018	9:45	Dry			
DLF-MW6A	6/12/2018	15:15	93.10	209.49		
DLF-MW6A	7/17/2018	16:25	Dry			
DLF-MW6A	8/7/2018	10:00	93.14	209.45		
DLF-MW6A	9/25/2018	9:35	88.10	214.49		
DLF-MW6A	10/30/2018	16:34	85.50	217.09		
DLF-MW6A	11/15/2018	10:49	Dry			
DLF-MW6A	12/26/2018	12:20	95.26	207.33		
DLF-MW6A	1/8/2019	15:48	92.00	210.59		
DLF-MW6A	2/14/2019	11:18	Dry			
DLF-MW6A	3/27/2019	11:21	93.37	209.22		
DLF-MW6A	4/16/2019	15:18	Dry			
DLF-MW6A	5/14/2019	8:00	Dry			
DLF-MW6A	6/11/2019	16:08	Dry			
DLF-MW6A	7/16/2019	15:13	Dry			
DLF-MW6A	8/13/2019	8:08	Dry			
DLF-MW6A	9/6/2019	17:37	Dry			
DLF-MW6A	10/28/2019	13:45	99.81	202.78		
DLF-MW6A	11/20/2019	7:39	Dry			
DLF-MW6A	12/11/2019	14:40	Dry			
DLF-MW6B	1/24/2013	8:20	95.93	206.84		
DLF-MW6B	2/13/2013	14:53	97.98	204.79		
DLF-MW6B	3/21/2013	15:04	100.43	202.34		
DLF-MW6B	4/25/2013	15:44	100.04	202.73		
DLF-MW6B	5/16/2013	14:42	105.06	197.71		
DLF-MW6B	6/20/2013	10:35	105.54	197.23		
DLF-MW6B	7/19/2013	7:48	110.15	192.62		
DLF-MW6B	8/14/2013	7:27	103.95	198.82		
DLF-MW6B	9/11/2013	11:03	107.79	194.98		
DLF-MW6B	10/25/2013	9:52	108.87	193.90		
DLF-MW6B	11/21/2013	14:22	102.74	200.03		
DLF-MW6B	12/26/2013	16:10	104.37	198.40		
DLF-MW6B	1/14/2014	14:37	105.63	197.14		
DLF-MW6B	2/18/2014	6:55	103.48	199.29		
DLF-MW6B	3/18/2014	15:10	109.85	192.92		
DLF-MW6B	4/14/2014	15:47	110.72	192.05		
DLF-MW6B	5/29/2014	14:02	110.18	192.59		
DLF-MW6B	6/11/2014	14:41	110.06	192.71		
DLF-MW6B	7/8/2014	15:02	110.24	192.53		
DLF-MW6B	8/13/2014	12:49	110.69	192.08		
DLF-MW6B	9/24/2014	10:23	107.92	194.85		
DLF-MW6B	10/21/2014	14:23	105.29	197.48		
DLF-MW6B	11/11/2014	9:16	105.46	197.31		
DLF-MW6B	12/16/2014	14:56	106.41	196.36		
DLF-MW6B	1/7/2015	15:46	107.24	195.53		
DLF-MW6B	2/16/2015	14:15	109.62	193.15		
DLF-MW6B	3/11/2015	14:17	110.91	191.86		
DLF-MW6B	4/20/2015	15:10	111.68	191.09		
DLF-MW6B	5/12/2015	8:09	111.53	191.24		
DLF-MW6B	6/10/2015	14:49	110.22	192.55		
DLF-MW6B	7/20/2015	16:33	109.49	193.28		
DLF-MW6B	8/20/2015	15:50	107.84	194.93		
DLF-MW6B	9/14/2015	14:03	104.94	197.83		
DLF-MW6B	10/20/2015	15:05	103.68	199.09		
DLF-MW6B	11/16/2015	13:08	104.84	197.93		
DLF-MW6B	12/16/2015	15:11	105.73	197.04		
DLF-MW6B	1/11/2016	14:38	106.96	195.81		
DLF-MW6B	2/22/2016	16:49	109.39	193.38		
DLF-MW6B	3/17/2016	14:29	110.88	191.89		
DLF-MW6B	4/18/2016	14:03	111.65	191.12		
DLF-MW6B	5/3/2016	12:05	111.68	191.09		
DLF-MW6B	6/21/2016	10:22	110.82	191.95		
DLF-MW6B	7/19/2016	8:32	110.00	192.77		
DLF-MW6B	8/9/2016	14:37	109.34	193.43		
DLF-MW6B	9/28/2016	16:40	109.80	192.97		
DLF-MW6B	10/26/2016	15:45	109.01	193.76		
DLF-MW6B	11/9/2016	7:32	106.35	196.42		
DLF-MW6B	12/21/2016	14:06	Dry			
DLF-MW6B	1/13/2017	7:32	108.50	194.27		
DLF-MW6B	2/1/2017		N/M			
DLF-MW6B	3/29/2017	12:46	114.67	188.10		
DLF-MW6B	4/19/2017	7:44	111.77	191.00		
DLF-MW6B	5/17/2017	14:32	Dry			
DLF-MW6B	6/5/2017	14:19	114.56	188.21		
DLF-MW6B	7/12/2017	15:15	113.82	188.95		
DLF-MW6B	8/22/2017	8:44	102.83	199.94		
DLF-MW6B	9/11/2017	12:48	96.96	205.81		
DLF-MW6B	10/16/2017	15:29	95.73	207.04		
DLF-MW6B	11/21/2017	7:41	95.81	206.96		
DLF-MW6B	12/21/2017	14:02	97.10	205.67		
DLF-MW6B	1/9/2018	15:45	101.57	201.20		
DLF-MW6B	2/6/2018	7:45	103.50	199.27		
DLF-MW6B	3/23/2018	11:30	106.31	196.46		
DLF-MW6B	4/24/2018	14:54	108.30	194.47		
DLF-MW6B	5/15/2018	9:47	109.40	193.37		
DLF-MW6B	6/12/2018	15:20	103.21	199.56		
DLF-MW6B	7/17/2018	16:20	108.70	194.07		
DLF-MW6B	8/7/2018	10:06	103.20	199.57		
DLF-MW6B	9/25/2018	9:26	101.78	200.99		
DLF-MW6B	10/30/2018	16:36				
DLF-MW6B	11/15/2018	10:52	109.61	193.16		
DLF-MW6B	12/26/2018	12:21	101.90	200.87		
DLF-MW6B	1/8/2019	15:47	101.40	201.37		
DLF-MW6B	2/14/2019	11:10	Dry			
DLF-MW6B	3/27/2019	11:28	100.11	202.66		
DLF-MW6B	4/16/2019	15:22	106.50	196.27		
DLF-MW6B	5/14/2019	8:04	107.63	195.14		
DLF-MW6B	6/11/2019	15:56	108.00	194.77		
DLF-MW6B	7/16/2019	15:05	107.61	195.16		
DLF-MW6B	8/13/2019	8:10	105.86	196.91		
DLF-MW6B	9/6/2019	17:30	103.31	199.46		
DLF-MW6B	10/28/2019	13:38	101.60	201.17		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
DLF-MW6B	11/20/2019	7:40	101.59	201.18		
DLF-MW6B	12/11/2019	14:43	111.12	191.65		
DLF-MW6C	1/24/2013	8:04	101.20	201.24		
DLF-MW6C	2/13/2013	14:56	105.12	197.32		
DLF-MW6C	3/21/2013	15:06	103.78	198.66		
DLF-MW6C	4/25/2013	15:47	107.38	195.06		
DLF-MW6C	5/16/2013	14:43	109.01	193.43		
DLF-MW6C	6/20/2013	10:38	110.37	192.07		
DLF-MW6C	7/19/2013	7:50	115.96	186.48		
DLF-MW6C	8/14/2013	7:29	109.30	193.14		
DLF-MW6C	9/11/2013	11:06	108.10	194.34		
DLF-MW6C	10/25/2013	9:55	109.17	193.27		
DLF-MW6C	11/21/2013	14:24	106.35	196.09		
DLF-MW6C	12/26/2013	16:13	107.17	195.27		
DLF-MW6C	1/14/2014	14:43	108.38	194.06		
DLF-MW6C	2/18/2014	6:58	111.04	191.40		
DLF-MW6C	3/18/2014	15:12	112.58	189.86		
DLF-MW6C	4/14/2014	15:50	113.88	188.56		
DLF-MW6C	5/29/2014	14:05	113.98	188.46		
DLF-MW6C	6/11/2014	14:44	114.11	188.33		
DLF-MW6C	7/8/2014	15:04	114.33	188.11		
DLF-MW6C	8/13/2014	12:51	115.04	187.40		
DLF-MW6C	9/24/2014	10:26	113.16	189.28		
DLF-MW6C	10/21/2014	14:24	111.33	191.11		
DLF-MW6C	11/11/2014	9:20	111.38	191.06		
DLF-MW6C	12/16/2014	14:58	111.58	190.86		
DLF-MW6C	1/7/2015	15:49	112.00	190.44		
DLF-MW6C	2/16/2015	14:17	114.18	188.26		
DLF-MW6C	3/11/2015	14:19	115.45	186.99		
DLF-MW6C	4/20/2015	15:12	116.36	186.08		
DLF-MW6C	5/12/2015	8:12	116.47	185.97		
DLF-MW6C	6/10/2015	14:51	115.74	186.70		
DLF-MW6C	7/20/2015	16:36	115.74	186.70		
DLF-MW6C	8/20/2015	15:52	114.65	187.79		
DLF-MW6C	9/14/2015	14:06	112.93	189.51		
DLF-MW6C	10/20/2015	15:10	112.12	190.32		
DLF-MW6C	11/16/2015	13:10	112.75	189.69		
DLF-MW6C	12/16/2015	15:14	113.09	189.35		
DLF-MW6C	1/11/2016	14:41	113.88	188.56		
DLF-MW6C	2/22/2016	16:53	115.47	186.97		
DLF-MW6C	3/17/2016	14:31	116.51	185.93		
DLF-MW6C	4/18/2016	14:06	117.52	184.92		
DLF-MW6C	5/3/2016	12:08	117.51	184.93		
DLF-MW6C	6/21/2016	10:28	117.15	185.29		
DLF-MW6C	7/19/2016	8:34	116.71	185.73		
DLF-MW6C	8/9/2016	14:39	116.24	186.20		
DLF-MW6C	9/28/2016	16:40	115.57	186.87		
DLF-MW6C	10/26/2016	15:49	115.42	187.02		
DLF-MW6C	11/9/2016	7:35	113.40	189.04		
DLF-MW6C	12/21/2016	14:08	114.70	187.74		
DLF-MW6C	1/13/2017	7:36	115.68	186.76		
DLF-MW6C	2/1/2017		N/M			
DLF-MW6C	3/29/2017	12:48	Dry			
DLF-MW6C	4/19/2017	7:47	115.59	186.85		
DLF-MW6C	5/17/2017	14:35	Dry			
DLF-MW6C	6/5/2017	14:21	115.72	186.72		
DLF-MW6C	7/12/2017	15:16	115.61	186.83		
DLF-MW6C	8/22/2017	8:48	109.74	192.70		
DLF-MW6C	9/11/2017	12:50	104.42	198.02		
DLF-MW6C	10/16/2017	15:32	103.05	199.39		
DLF-MW6C	11/21/2017	7:39	103.08	199.36		
DLF-MW6C	12/21/2017	14:05	104.10	198.34		
DLF-MW6C	1/9/2018	15:47	106.50	195.94		
DLF-MW6C	2/6/2018	7:47	107.90	194.54		
DLF-MW6C	3/23/2018	11:25	110.73	191.71		
DLF-MW6C	4/24/2018	14:53	112.38	190.06		
DLF-MW6C	5/15/2018	9:48	113.25	189.19		
DLF-MW6C	6/12/2018	15:23	108.17	194.27		
DLF-MW6C	7/17/2018	16:22	113.30	189.14		
DLF-MW6C	8/7/2018	10:04	108.10	194.34		
DLF-MW6C	9/25/2018	9:29	107.55	194.89		
DLF-MW6C	10/30/2018	16:38	104.32	198.12		
DLF-MW6C	11/15/2018	10:55	110.16	192.28		
DLF-MW6C	12/26/2018	12:22	105.86	196.58		
DLF-MW6C	1/8/2019	15:49	106.06	196.38		
DLF-MW6C	2/14/2019	11:12	128.61	173.83		
DLF-MW6C	3/27/2019	11:25	108.16	194.28		
DLF-MW6C	4/16/2019	15:24	109.28	193.16		
DLF-MW6C	5/14/2019	8:08	110.20	192.24		
DLF-MW6C	6/11/2019	16:00	110.19	192.25		
DLF-MW6C	7/16/2019	15:08	109.87	192.57		
DLF-MW6C	8/13/2019	8:12	108.35	194.09		
DLF-MW6C	9/6/2019	17:34	106.45	195.99		
DLF-MW6C	10/28/2019	13:40	104.12	198.32		
DLF-MW6C	11/20/2019	7:41	113.93	188.51		
DLF-MW6C	12/11/2019	14:45	113.73	188.71		
DLF-MW6D	1/24/2013	8:06	101.64	200.70		
DLF-MW6D	2/13/2013	15:01	105.81	196.53		
DLF-MW6D	3/21/2013	15:08	104.31	198.03		
DLF-MW6D	4/25/2013	15:50	107.74	194.60		
DLF-MW6D	5/16/2013	14:44	109.39	192.95		
DLF-MW6D	6/20/2013	10:41	111.30	191.04		
DLF-MW6D	7/19/2013	7:53	116.71	185.63		
DLF-MW6D	8/14/2013	7:31	109.92	192.42		
DLF-MW6D	9/11/2013	11:08	108.13	194.21		
DLF-MW6D	10/25/2013	9:58	109.25	193.09		
DLF-MW6D	11/21/2013	14:26	106.75	195.59		
DLF-MW6D	12/26/2013	16:15	107.49	194.85		
DLF-MW6D	1/14/2014	14:41	108.72	193.62		
DLF-MW6D	2/18/2014	7:02	111.33	191.01		
DLF-MW6D	3/18/2014	15:15	112.93	189.41		
DLF-MW6D	4/14/2014	15:54	114.32	188.02		
DLF-MW6D	5/29/2014	14:08	114.42	187.92		
DLF-MW6D	6/11/2014	14:47	114.57	187.77		
DLF-MW6D	7/8/2014	15:06	114.87	187.47		
DLF-MW6D	8/13/2014	12:54	115.60	186.74		
DLF-MW6D	9/24/2014	10:29	113.79	188.55		
DLF-MW6D	10/21/2014	14:27	112.02	190.32		
DLF-MW6D	11/11/2014	9:22	112.07	190.27		
DLF-MW6D	12/16/2014	15:00	112.20	190.14		
DLF-MW6D	1/7/2015	15:53	112.57	189.77		
DLF-MW6D	2/16/2015	14:20	114.70	187.64		
DLF-MW6D	3/11/2015	14:23	116.00	186.34		
DLF-MW6D	4/20/2015	15:15	116.95	185.39		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
DLF-MW6D	5/12/2015	8:15	118.09	184.25		
DLF-MW6D	6/10/2015	14:54	116.33	186.01		
DLF-MW6D	7/20/2015	16:39	116.36	185.98		
DLF-MW6D	8/20/2015	15:55	115.26	187.08		
DLF-MW6D	9/14/2015	14:09	113.80	188.54		
DLF-MW6D	10/20/2015	15:15	112.88	189.46		
DLF-MW6D	11/16/2015	13:12	113.71	188.63		
DLF-MW6D	12/16/2015	15:17	113.78	188.56		
DLF-MW6D	1/11/2016	14:44	114.67	187.67		
DLF-MW6D	2/22/2016	16:57	116.12	186.22		
DLF-MW6D	3/17/2016	14:33	117.21	185.13		
DLF-MW6D	4/18/2016	14:09	118.18	184.16		
DLF-MW6D	5/3/2016	12:11	115.63	186.71		
DLF-MW6D	6/21/2016	10:32	117.87	184.47		
DLF-MW6D	7/19/2016	8:37	117.48	184.86		
DLF-MW6D	8/9/2016	14:41	117.00	185.34		
DLF-MW6D	9/28/2016	16:40	117.23	185.11		
DLF-MW6D	10/26/2016	16:05	115.86	186.48		
DLF-MW6D	11/9/2016	7:38	115.14	187.20		
DLF-MW6D	12/21/2016	14:10	115.57	186.77		
DLF-MW6D	1/13/2017	7:34	116.48	185.86		
DLF-MW6D	2/1/2017		N/M			
DLF-MW6D	3/29/2017	12:50	118.68	183.66		
DLF-MW6D	4/19/2017	7:51	111.72	190.62		
DLF-MW6D	5/17/2017	14:38	Dry			
DLF-MW6D	6/5/2017	14:24	116.86	185.48		
DLF-MW6D	7/12/2017	15:12	116.10	186.24		
DLF-MW6D	8/22/2017	8:41	110.44	191.90		
DLF-MW6D	9/11/2017	12:53	105.37	196.97		
DLF-MW6D	10/16/2017	15:35	103.93	198.41		
DLF-MW6D	11/21/2017	7:43	104.00	198.34		
DLF-MW6D	12/21/2017	14:07	104.15	198.19		
DLF-MW6D	1/9/2018	15:49	107.16	195.18		
DLF-MW6D	2/6/2018	7:50	108.44	193.90		
DLF-MW6D	3/23/2018	11:20	111.23	191.11		
DLF-MW6D	4/24/2018	14:52	112.86	189.48		
DLF-MW6D	5/15/2018	9:49	113.70	188.64		
DLF-MW6D	6/12/2018	15:26	108.94	193.40		
DLF-MW6D	7/17/2018	16:21	113.71	188.63		
DLF-MW6D	8/7/2018	10:08	108.04	194.30		
DLF-MW6D	9/25/2018	9:32	108.13	194.21		
DLF-MW6D	10/30/2018	16:40	104.96	197.38		
DLF-MW6D	11/15/2018	10:58	110.47	191.87		
DLF-MW6D	12/26/2018	12:23	106.37	195.97		
DLF-MW6D	1/8/2019	15:50	106.54	195.80		
DLF-MW6D	2/14/2019	11:15	129.36	172.98		
DLF-MW6D	3/27/2019	11:23	109.67	192.67		
DLF-MW6D	4/16/2019	15:27	109.58	192.76		
DLF-MW6D	5/14/2019	8:12	110.50	191.84		
DLF-MW6D	6/11/2019	16:04	110.43	191.91		
DLF-MW6D	7/16/2019	15:06	110.04	192.30		
DLF-MW6D	8/13/2019	8:19	108.62	193.72		
DLF-MW6D	9/6/2019	17:32	106.19	196.15		
DLF-MW6D	10/28/2019	13:42	104.70	197.64		
DLF-MW6D	11/20/2019	7:42	104.18	198.16		
DLF-MW6D	12/11/2019	14:47	119.91	182.43		
ELK-MW1	1/23/2013	7:00	42.43	264.56		
ELK-MW1	2/13/2013	7:15	48.91	258.08		
ELK-MW1	3/19/2013	15:37	54.21	252.78		
ELK-MW1	4/23/2013	15:20	61.44	245.55		
ELK-MW1	5/14/2013	15:42	60.49	246.50		
ELK-MW1	6/19/2013	13:10	67.87	239.12		
ELK-MW1	7/17/2013	15:20	76.19	235.64		
ELK-MW1	8/16/2013	6:25	Dry			
ELK-MW1	9/11/2013	14:00	Dry			
ELK-MW1	10/24/2013	14:35	77.61	234.22		
ELK-MW1	11/20/2013	13:55	73.19	238.64		
ELK-MW1	12/27/2013	8:09	73.98	237.85		
ELK-MW1	1/16/2014	8:10	77.26	234.57		
ELK-MW1	2/20/2014	7:48	77.88	233.95		
ELK-MW1	3/20/2014	7:38	78.97	232.86		
ELK-MW1	4/16/2014	7:02	Dry			
ELK-MW1	5/28/2014	16:13	79.88	231.95		
ELK-MW1	6/12/2014	16:58	79.81	232.02		
ELK-MW1	7/10/2014	8:55	79.90	231.93		
ELK-MW1	8/19/2014	15:53	Dry			
ELK-MW1	9/24/2014	16:20	Dry			
ELK-MW1	10/22/2014	7:20	Dry			
ELK-MW1	11/14/2014	8:34	Dry			
ELK-MW1	12/18/2014	8:00	Dry			
ELK-MW1	1/8/2015	16:35	Dry			
ELK-MW1	2/17/2015	17:03	Dry			
ELK-MW1	3/12/2015	16:00	Dry			
ELK-MW1	4/21/2015	15:46	Dry			
ELK-MW1	5/14/2015	13:40	Dry			
ELK-MW1	6/11/2015	15:51	Dry			
ELK-MW1	7/21/2015	9:40	Dry			
ELK-MW1	8/19/2015	16:14	Dry			
ELK-MW1	9/15/2015	14:30	Dry			
ELK-MW1	10/22/2015	7:30	Dry			
ELK-MW1	11/17/2015	15:57	Dry			
ELK-MW1	12/18/2015	7:10	Dry			
ELK-MW1	1/12/2016	14:09	Dry			
ELK-MW1	2/23/2016	14:20	Dry			
ELK-MW1	3/18/2016	13:50	Dry			
ELK-MW1	4/19/2016	15:15	Dry			
ELK-MW1	5/4/2016	7:04	Dry			
ELK-MW1	6/22/2016	8:50	Dry			
ELK-MW1	7/19/2016	12:12	Dry			
ELK-MW1	8/9/2016	14:01	Dry			
ELK-MW1	9/28/2016	14:30	Dry			
ELK-MW1	10/27/2016	14:20	Dry			
ELK-MW1	11/9/2016	15:07	80.20	231.63		
ELK-MW1	12/23/2016	7:36	80.11	231.72		
ELK-MW1	1/5/2017	13:25	Dry			
ELK-MW1	2/1/2017		N/M			
ELK-MW1	3/22/2017	15:14	Dry			
ELK-MW1	4/20/2017	10:55	Dry			
ELK-MW1	5/18/2017	9:10	79.93	231.90		
ELK-MW1	6/6/2017	15:48	Dry			
ELK-MW1	7/14/2017	10:15	Dry			
ELK-MW1	8/24/2017	10:28	Dry			
ELK-MW1	9/12/2017	9:52	Dry			
ELK-MW1	10/17/2017	16:00	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ELK-MW1	11/28/2017	8:15	Dry			
ELK-MW1	12/22/2017	14:37	Dry			
ELK-MW1	1/10/2018	7:37	77.90	233.93		
ELK-MW1	2/22/2018	14:15	Dry			
ELK-MW1	3/23/2018	9:10	Dry			
ELK-MW1	4/25/2018	13:02	Dry			
ELK-MW1	5/11/2018	12:18	Dry			
ELK-MW1	6/13/2018	17:00	Dry			
ELK-MW1	7/19/2018	14:03	Dry			
ELK-MW1	8/7/2018	7:15	Dry			
ELK-MW1	9/26/2018	17:50	Dry			
ELK-MW1	10/31/2018	11:41	Dry			
ELK-MW1	11/15/2018	13:11	Dry			
ELK-MW1	12/28/2018	7:15	Dry			
ELK-MW1	1/10/2019	15:05	Dry			
ELK-MW1	2/13/2019	15:41	Dry			
ELK-MW1	3/13/2019	15:25	Dry			
ELK-MW1	4/19/2019	7:44	Dry			
ELK-MW1	5/16/2019	14:10	Dry			
ELK-MW1	6/12/2019	14:00	Dry			
ELK-MW1	7/18/2019	8:55	Dry			
ELK-MW1	8/15/2019	10:00	Dry			
ELK-MW1	9/14/2019	14:10	Dry			
ELK-MW1	10/29/2019	10:47	72.03	239.80		
ELK-MW1	11/22/2019	7:04	71.39	240.44		
ELK-MW1	12/12/2019	13:00	70.95	240.88		
ELK-MW2A	1/23/2013	7:05	Dry			
ELK-MW2A	2/13/2013	7:24	Dry			
ELK-MW2A	3/19/2013	15:58	Dry			
ELK-MW2A	4/23/2013	15:30	Dry			
ELK-MW2A	5/14/2013	15:45	Dry			
ELK-MW2A	6/19/2013	13:20	Dry			
ELK-MW2A	7/17/2013	15:28	Dry			
ELK-MW2A	8/16/2013	6:30	Dry			
ELK-MW2A	9/11/2013	14:08	Dry			
ELK-MW2A	10/24/2013	14:41	Dry			
ELK-MW2A	11/20/2013	13:58	Dry			
ELK-MW2A	12/27/2013	7:57	Dry			
ELK-MW2A	1/16/2014	8:03	Dry			
ELK-MW2A	2/20/2014	7:32	Dry			
ELK-MW2A	3/20/2014	7:43	Dry			
ELK-MW2A	4/16/2014	7:23	Dry			
ELK-MW2A	5/28/2014	16:21	Dry			
ELK-MW2A	6/12/2014	17:05	Dry			
ELK-MW2A	7/10/2014	8:47	Dry			
ELK-MW2A	8/19/2014	15:58	Dry			
ELK-MW2A	9/24/2014	16:25	Dry			
ELK-MW2A	10/22/2014	7:25	Dry			
ELK-MW2A	11/14/2014	8:42	Dry			
ELK-MW2A	12/18/2014	8:04	Dry			
ELK-MW2A	1/8/2015	16:40	Dry			
ELK-MW2A	2/17/2015	17:09	Dry			
ELK-MW2A	3/12/2015	16:05	Dry			
ELK-MW2A	4/21/2015	15:51	Dry			
ELK-MW2A	5/14/2015	13:45	Dry			
ELK-MW2A	6/11/2015	15:57	Dry			
ELK-MW2A	7/21/2015	9:45	Dry			
ELK-MW2A	8/19/2015	16:19	Dry			
ELK-MW2A	9/15/2015	14:35	Dry			
ELK-MW2A	10/22/2015	7:35	Dry			
ELK-MW2A	11/17/2015	16:03	Dry			
ELK-MW2A	12/18/2015	7:15	Dry			
ELK-MW2A	1/12/2016	14:14	Dry			
ELK-MW2A	2/23/2016	14:25	Dry			
ELK-MW2A	3/18/2016	13:54	Dry			
ELK-MW2A	4/19/2016	15:19	Dry			
ELK-MW2A	5/4/2016	7:11	Dry			
ELK-MW2A	6/22/2016	8:59	Dry			
ELK-MW2A	7/19/2016	12:18	Dry			
ELK-MW2A	8/9/2016	14:06	Dry			
ELK-MW2A	9/28/2016	14:35	Dry			
ELK-MW2A	10/27/2016	14:25	Dry			
ELK-MW2A	11/9/2016	15:10	Dry			
ELK-MW2A	12/23/2016	7:42	Dry			
ELK-MW2A	1/5/2017	13:12	Dry			
ELK-MW2A	2/1/2017		N/M			
ELK-MW2A	3/22/2017	15:20	Dry			
ELK-MW2A	4/20/2017	10:47	Dry			
ELK-MW2A	5/18/2017	9:20	Dry			
ELK-MW2A	6/6/2017	15:58	Dry			
ELK-MW2A	7/14/2017	10:21	Dry			
ELK-MW2A	8/24/2017	10:31	Dry			
ELK-MW2A	9/12/2017	9:59	Dry			
ELK-MW2A	10/17/2017	16:11	Dry			
ELK-MW2A	11/28/2017	8:24	Dry			
ELK-MW2A	12/22/2017	14:40	Dry			
ELK-MW2A	1/10/2018	7:31	Dry			
ELK-MW2A	2/22/2018	14:35	Dry			
ELK-MW2A	3/23/2018	8:55	Dry			
ELK-MW2A	4/25/2018	12:56	Dry			
ELK-MW2A	5/11/2018	12:25	Dry			
ELK-MW2A	6/13/2018	16:50	Dry			
ELK-MW2A	7/19/2018	14:09	Dry			
ELK-MW2A	8/7/2018	7:23	Dry			
ELK-MW2A	9/26/2018	17:56	Dry			
ELK-MW2A	10/31/2018	11:50	Dry			
ELK-MW2A	11/15/2018	13:19	Dry			
ELK-MW2A	12/28/2018	7:22	Dry			
ELK-MW2A	1/10/2019	15:09	Dry			
ELK-MW2A	2/13/2019	15:53	Dry			
ELK-MW2A	3/13/2019	15:30	Dry			
ELK-MW2A	4/19/2019	7:50	Dry			
ELK-MW2A	5/16/2019	14:15	Dry			
ELK-MW2A	6/12/2019	14:06	Dry			
ELK-MW2A	7/18/2019	9:04	Dry			
ELK-MW2A	8/15/2019	10:07	Dry			
ELK-MW2A	9/14/2019	14:15	Dry			
ELK-MW2A	10/29/2019	10:52	Dry			
ELK-MW2A	11/22/2019	7:10	Dry			
ELK-MW2A	12/12/2019	13:07	Dry			
ELK-MW2B	1/23/2013	7:08	41.43	266.89		
ELK-MW2B	2/13/2013	7:30	50.55	257.77		
ELK-MW2B	3/19/2013	16:02	57.91	250.41		
ELK-MW2B	4/23/2013	15:33	62.38	245.94		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ELK-MW2B	5/14/2013	15:48	58.91	249.41		
ELK-MW2B	6/19/2013	13:15	68.52	239.80		
ELK-MW2B	7/17/2013	15:32	71.95	236.37		
ELK-MW2B	8/16/2013	6:33	71.52	236.80		
ELK-MW2B	9/11/2013	14:13	73.66	234.66		
ELK-MW2B	10/24/2013	14:43	68.85	239.47		
ELK-MW2B	11/20/2013	14:01	64.05	244.27		
ELK-MW2B	12/27/2013	8:01	69.26	239.06		
ELK-MW2B	1/16/2014	8:06	74.46	233.86		
ELK-MW2B	2/20/2014	7:35	75.68	232.64		
ELK-MW2B	3/20/2014	7:47	76.84	231.48		
ELK-MW2B	4/16/2014	7:26	Dry			
ELK-MW2B	5/28/2014	16:24	Dry			
ELK-MW2B	6/12/2014	17:09	Dry			
ELK-MW2B	7/10/2014	8:50	Dry			
ELK-MW2B	8/19/2014	16:00	Dry			
ELK-MW2B	9/24/2014	16:28	Dry			
ELK-MW2B	10/22/2014	7:28	Dry			
ELK-MW2B	11/14/2014	8:46	Dry			
ELK-MW2B	12/18/2014	8:06	Dry			
ELK-MW2B	1/8/2015	16:43	Dry			
ELK-MW2B	2/17/2015	17:12	Dry			
ELK-MW2B	3/12/2015	16:07	Dry			
ELK-MW2B	4/21/2015	15:53	Dry			
ELK-MW2B	5/14/2015	13:48	Dry			
ELK-MW2B	6/11/2015	16:00	Dry			
ELK-MW2B	7/21/2015	9:48	Dry			
ELK-MW2B	8/19/2015	16:22	Dry			
ELK-MW2B	9/15/2015	14:37	Dry			
ELK-MW2B	10/22/2015	7:40	Dry			
ELK-MW2B	11/17/2015	16:06	Dry			
ELK-MW2B	12/18/2015	7:18	Dry			
ELK-MW2B	1/12/2016	14:17	Dry			
ELK-MW2B	2/23/2016	14:28	Dry			
ELK-MW2B	3/18/2016	13:56	Dry			
ELK-MW2B	4/19/2016	15:24	Dry			
ELK-MW2B	5/4/2016	7:14	Dry			
ELK-MW2B	6/22/2016	9:04	Dry			
ELK-MW2B	7/19/2016	12:21	Dry			
ELK-MW2B	8/9/2016	14:09	Dry			
ELK-MW2B	9/28/2016	14:50	Dry			
ELK-MW2B	10/27/2016	14:28	Dry			
ELK-MW2B	11/9/2016	15:11	Dry			
ELK-MW2B	12/23/2016	7:44	Dry			
ELK-MW2B	1/5/2017	13:18	Dry			
ELK-MW2B	2/1/2017		N/M			
ELK-MW2B	3/22/2017	15:26	Dry			
ELK-MW2B	4/20/2017	10:51	Dry			
ELK-MW2B	5/18/2017	9:22	Dry			
ELK-MW2B	6/6/2017	16:01	Dry			
ELK-MW2B	7/14/2017	10:22	Dry			
ELK-MW2B	8/24/2017	10:34	Dry			
ELK-MW2B	9/12/2017	9:56	Dry			
ELK-MW2B	10/17/2017	16:13	Dry			
ELK-MW2B	11/28/2017	8:21	Dry			
ELK-MW2B	12/22/2017	14:43	Dry			
ELK-MW2B	1/10/2018	7:33	Dry			
ELK-MW2B	2/22/2018	14:30	Dry			
ELK-MW2B	3/23/2018	9:00	Dry			
ELK-MW2B	4/25/2018	12:55	Dry			
ELK-MW2B	5/11/2018	12:27	Dry			
ELK-MW2B	6/13/2018	16:52	Dry			
ELK-MW2B	7/19/2018	14:08	Dry			
ELK-MW2B	8/7/2018	7:21	Dry			
ELK-MW2B	9/26/2018	17:58	Dry			
ELK-MW2B	10/31/2018	11:51	Dry			
ELK-MW2B	11/15/2018	13:22	Dry			
ELK-MW2B	12/28/2018	7:23	Dry			
ELK-MW2B	1/10/2019	15:10	Dry			
ELK-MW2B	2/13/2019	15:51	Dry			
ELK-MW2B	3/13/2019	15:35	Dry			
ELK-MW2B	4/19/2019	7:49	Dry			
ELK-MW2B	5/16/2019	14:16	Dry			
ELK-MW2B	6/12/2019	14:05	Dry			
ELK-MW2B	7/18/2019	8:02	Dry			
ELK-MW2B	8/15/2019	10:10	Dry			
ELK-MW2B	9/14/2019	14:17	Dry			
ELK-MW2B	10/29/2019	10:53	67.23	241.09		
ELK-MW2B	11/22/2019	7:12	65.78	242.54		
ELK-MW2B	12/12/2019	13:05	64.54	243.78		
ELK-MW3A	1/23/2013	7:12	Dry			
ELK-MW3A	2/13/2013	7:38	Dry			
ELK-MW3A	3/19/2013	15:13	Dry			
ELK-MW3A	4/23/2013	14:38	Dry			
ELK-MW3A	5/14/2013	15:56	Dry			
ELK-MW3A	6/19/2013	13:25	Dry			
ELK-MW3A	7/17/2013	15:40	Dry			
ELK-MW3A	8/16/2013	6:36	Dry			
ELK-MW3A	9/11/2013	14:21	Dry			
ELK-MW3A	10/24/2013	14:47	Dry			
ELK-MW3A	11/20/2013	14:08	Dry			
ELK-MW3A	12/27/2013	7:46	Dry			
ELK-MW3A	1/16/2014	7:55	Dry			
ELK-MW3A	2/20/2014	7:22	Dry			
ELK-MW3A	3/20/2014	7:53	Dry			
ELK-MW3A	4/16/2014	7:15	Dry			
ELK-MW3A	5/28/2014	16:32	Dry			
ELK-MW3A	6/12/2014	17:14	Dry			
ELK-MW3A	7/10/2014	8:39	Dry			
ELK-MW3A	8/19/2014	16:06	Dry			
ELK-MW3A	9/24/2014	16:35	Dry			
ELK-MW3A	10/22/2014	7:35	Dry			
ELK-MW3A	11/14/2014	8:48	Dry			
ELK-MW3A	12/18/2014	8:11	Dry			
ELK-MW3A	1/8/2015	16:48	Dry			
ELK-MW3A	2/17/2015	17:17	Dry			
ELK-MW3A	3/12/2015	16:11	Dry			
ELK-MW3A	4/21/2015	15:57	Dry			
ELK-MW3A	5/14/2015	13:52	Dry			
ELK-MW3A	6/11/2015	16:06	Dry			
ELK-MW3A	7/21/2015	9:54	Dry			
ELK-MW3A	8/19/2015	16:30	Dry			
ELK-MW3A	9/15/2015	14:42	Dry			
ELK-MW3A	10/22/2015	7:45	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ELK-MW3A	11/17/2015	16:10	Dry			
ELK-MW3A	12/18/2015	7:23	Dry			
ELK-MW3A	1/12/2016	14:22	Dry			
ELK-MW3A	2/23/2016	14:33	Dry			
ELK-MW3A	3/18/2016	13:59	Dry			
ELK-MW3A	4/19/2016	15:32	Dry			
ELK-MW3A	5/4/2016	7:19	Dry			
ELK-MW3A	6/22/2016	9:13	Dry			
ELK-MW3A	7/19/2016	12:28	Dry			
ELK-MW3A	8/9/2016	14:14	Dry			
ELK-MW3A	9/28/2016	15:05	Dry			
ELK-MW3A	10/27/2016	14:32	Dry			
ELK-MW3A	11/9/2016	15:15	Dry			
ELK-MW3A	12/23/2016	7:57	Dry			
ELK-MW3A	1/5/2017	13:15	Dry			
ELK-MW3A	2/1/2017		N/M			
ELK-MW3A	3/22/2017	15:40	Dry			
ELK-MW3A	4/20/2017	10:32	Dry			
ELK-MW3A	5/18/2017	9:30	Dry			
ELK-MW3A	6/6/2017	16:07	Dry			
ELK-MW3A	7/14/2017	10:26	Dry			
ELK-MW3A	8/24/2017	10:32	Dry			
ELK-MW3A	9/12/2017	10:05	Dry			
ELK-MW3A	10/17/2017	16:18	Dry			
ELK-MW3A	11/28/2017	8:38	Dry			
ELK-MW3A	12/22/2017	14:48	Dry			
ELK-MW3A	1/10/2018	7:21	Dry			
ELK-MW3A	2/22/2018	14:45	Dry			
ELK-MW3A	3/23/2018	8:40	Dry			
ELK-MW3A	4/25/2018	12:46	Dry			
ELK-MW3A	5/11/2018	12:25	Dry			
ELK-MW3A	6/13/2018	16:25	Dry			
ELK-MW3A	7/19/2018	14:15	Dry			
ELK-MW3A	8/7/2018	7:29	Dry			
ELK-MW3A	9/26/2018	18:01	Dry			
ELK-MW3A	10/31/2018	11:56	Dry			
ELK-MW3A	11/15/2018	13:28	Dry			
ELK-MW3A	12/28/2018	7:29	Dry			
ELK-MW3A	1/10/2019	15:17	Dry			
ELK-MW3A	2/13/2019	15:56	Dry			
ELK-MW3A	3/13/2019	15:40	Dry			
ELK-MW3A	4/19/2019	7:58	Dry			
ELK-MW3A	5/16/2019	14:22	Dry			
ELK-MW3A	6/12/2019	14:12	Dry			
ELK-MW3A	7/18/2019	9:12	Dry			
ELK-MW3A	8/15/2019	10:17	Dry			
ELK-MW3A	9/14/2019	14:21	Dry			
ELK-MW3A	10/29/2019	10:57	Dry			
ELK-MW3A	11/22/2019	7:20	Dry			
ELK-MW3A	12/12/2019	15:14	Dry			
ELK-MW3B	1/23/2013	7:20	36.00	275.08		
ELK-MW3B	2/13/2013	7:45	38.56	272.52		
ELK-MW3B	3/19/2013	15:17	41.73	269.35		
ELK-MW3B	4/23/2013	15:43	47.35	263.73		
ELK-MW3B	5/14/2013	15:55	49.41	261.67		
ELK-MW3B	6/19/2013	13:28	53.92	257.16		
ELK-MW3B	7/17/2013	15:44	59.53	254.52		
ELK-MW3B	8/16/2013	6:40	59.86	254.19		
ELK-MW3B	9/11/2013	14:25	Dry			
ELK-MW3B	10/24/2013	14:50	62.17	251.88		
ELK-MW3B	11/20/2013	14:10	Dry			
ELK-MW3B	12/27/2013	7:50	61.59	252.46		
ELK-MW3B	1/16/2014	7:58	63.36	250.69		
ELK-MW3B	2/20/2014	7:26	63.18	250.87		
ELK-MW3B	3/20/2014	7:56	Dry			
ELK-MW3B	4/16/2014	7:18	Dry			
ELK-MW3B	5/28/2014	16:35	Dry			
ELK-MW3B	6/12/2014	17:17	Dry			
ELK-MW3B	7/10/2014	8:42	Dry			
ELK-MW3B	8/19/2014	16:09	Dry			
ELK-MW3B	9/24/2014	16:38	Dry			
ELK-MW3B	10/22/2014	7:38	Dry			
ELK-MW3B	11/14/2014	8:51	Dry			
ELK-MW3B	12/18/2014	8:13	Dry			
ELK-MW3B	1/8/2015	16:51	Dry			
ELK-MW3B	2/17/2015	17:20	Dry			
ELK-MW3B	3/12/2015	16:13	Dry			
ELK-MW3B	4/21/2015	15:59	Dry			
ELK-MW3B	5/14/2015	13:55	Dry			
ELK-MW3B	6/11/2015	16:09	Dry			
ELK-MW3B	7/21/2015	9:57	Dry			
ELK-MW3B	8/19/2015	16:33	Dry			
ELK-MW3B	9/15/2015	14:45	Dry			
ELK-MW3B	10/22/2015	7:50	Dry			
ELK-MW3B	11/17/2015	16:13	Dry			
ELK-MW3B	12/18/2015	7:26	Dry			
ELK-MW3B	1/12/2016	14:25	Dry			
ELK-MW3B	2/23/2016	14:36	Dry			
ELK-MW3B	3/18/2016	14:01	Dry			
ELK-MW3B	4/19/2016	15:35	Dry			
ELK-MW3B	5/4/2016	7:22	Dry			
ELK-MW3B	6/22/2016	9:17	Dry			
ELK-MW3B	7/19/2016	12:31	Dry			
ELK-MW3B	8/9/2016	14:16	Dry			
ELK-MW3B	9/28/2016	15:12	Dry			
ELK-MW3B	10/27/2016	14:34	Dry			
ELK-MW3B	11/9/2016	15:16	Dry			
ELK-MW3B	12/23/2016	8:00	Dry			
ELK-MW3B	1/5/2017	13:13	Dry			
ELK-MW3B	2/1/2017		N/M			
ELK-MW3B	3/22/2017	15:35	Dry			
ELK-MW3B	4/20/2017	10:36	Dry			
ELK-MW3B	5/18/2017	9:32	Dry			
ELK-MW3B	6/6/2017	16:09	Dry			
ELK-MW3B	7/14/2017	10:25	Dry			
ELK-MW3B	8/24/2017	10:35	Dry			
ELK-MW3B	9/12/2017	10:02	Dry			
ELK-MW3B	10/17/2017	16:20	Dry			
ELK-MW3B	11/28/2017	8:35	Dry			
ELK-MW3B	12/22/2017	14:50	Dry			
ELK-MW3B	1/10/2018	7:23	Dry			
ELK-MW3B	2/22/2018	14:40	Dry			
ELK-MW3B	3/23/2018	8:45	Dry			
ELK-MW3B	4/25/2018	12:47	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ELK-MW3B	5/11/2018	12:27	Dry			
ELK-MW3B	6/13/2018	16:30	Dry			
ELK-MW3B	7/19/2018	14:14	Dry			
ELK-MW3B	8/7/2018	7:31	Dry			
ELK-MW3B	9/26/2018	18:04	Dry			
ELK-MW3B	10/31/2018	11:57	Dry			
ELK-MW3B	11/15/2018	13:30	Dry			
ELK-MW3B	12/28/2018	7:30	Dry			
ELK-MW3B	1/10/2019	15:18	Dry			
ELK-MW3B	2/13/2019	15:58	Dry			
ELK-MW3B	3/13/2019	15:42	Dry			
ELK-MW3B	4/19/2019	7:56	Dry			
ELK-MW3B	5/16/2019	14:23	Dry			
ELK-MW3B	6/12/2019	14:13	Dry			
ELK-MW3B	7/18/2019	9:10	Dry			
ELK-MW3B	8/15/2019	10:20	Dry			
ELK-MW3B	9/14/2019	14:23	Dry			
ELK-MW3B	10/29/2019	10:58	60.03	254.02		
ELK-MW3B	11/22/2019	7:18	58.79	255.26		
ELK-MW3B	12/12/2019	15:12	57.81	256.24		
ELK-MW4	1/23/2013	7:30	32.31	282.37		
ELK-MW4	2/13/2013	7:50	Dry			
ELK-MW4	3/19/2013	15:04	Dry			
ELK-MW4	4/23/2013	15:49	Dry			
ELK-MW4	5/14/2013	15:40	Dry			
ELK-MW4	6/19/2013	13:36	Dry			
ELK-MW4	7/17/2013	15:55	Dry			
ELK-MW4	8/16/2013	6:45	Dry			
ELK-MW4	9/11/2013	14:33	Dry			
ELK-MW4	10/24/2013	14:55	Dry			
ELK-MW4	11/20/2013	14:15	Dry			
ELK-MW4	12/27/2013	7:38	Dry			
ELK-MW4	1/16/2014	7:51	Dry			
ELK-MW4	2/20/2014	7:10	Dry			
ELK-MW4	3/20/2014	8:00	Dry			
ELK-MW4	4/16/2014	7:11	Dry			
ELK-MW4	5/28/2014	16:45	Dry			
ELK-MW4	6/12/2014	17:25	Dry			
ELK-MW4	7/10/2014	8:33	Dry			
ELK-MW4	8/19/2014	16:17	Dry			
ELK-MW4	9/24/2014	16:45	Dry			
ELK-MW4	10/22/2014	7:45	Dry			
ELK-MW4	11/14/2014	8:36	Dry			
ELK-MW4	12/18/2014	8:18	Dry			
ELK-MW4	1/8/2015	16:57	Dry			
ELK-MW4	2/17/2015	17:25	Dry			
ELK-MW4	3/12/2015	16:19	Dry			
ELK-MW4	4/21/2015	16:09	Dry			
ELK-MW4	5/14/2015	14:00	Dry			
ELK-MW4	6/11/2015	16:13	Dry			
ELK-MW4	7/21/2015	10:04	Dry			
ELK-MW4	8/19/2015	16:40	Dry			
ELK-MW4	9/15/2015	14:55	Dry			
ELK-MW4	10/22/2015	7:55	Dry			
ELK-MW4	11/17/2015	16:18	Dry			
ELK-MW4	12/18/2015	7:31	Dry			
ELK-MW4	1/12/2016	14:30	Dry			
ELK-MW4	2/23/2016	14:41	Dry			
ELK-MW4	3/18/2016	14:05	Dry			
ELK-MW4	4/19/2016	15:44	Dry			
ELK-MW4	5/4/2016	7:29	Dry			
ELK-MW4	6/22/2016	9:26	Dry			
ELK-MW4	7/19/2016	12:38	Dry			
ELK-MW4	8/9/2016	16:21	Dry			
ELK-MW4	9/28/2016	15:30	Dry			
ELK-MW4	10/27/2016	14:40	Dry			
ELK-MW4	11/9/2016	15:20	Dry			
ELK-MW4	12/23/2016	8:10	Dry			
ELK-MW4	1/5/2017	13:17	Dry			
ELK-MW4	2/1/2017		N/M			
ELK-MW4	3/22/2017	15:50	Dry			
ELK-MW4	4/20/2017	10:25	Dry			
ELK-MW4	5/18/2017	9:40	Dry			
ELK-MW4	6/6/2017	16:16	Dry			
ELK-MW4	7/14/2017	10:36	Dry			
ELK-MW4	8/24/2017	10:27	Dry			
ELK-MW4	9/12/2017	10:08	Dry			
ELK-MW4	10/17/2017	16:27	Dry			
ELK-MW4	11/28/2017	8:55	Dry			
ELK-MW4	12/22/2017	14:55	Dry			
ELK-MW4	1/10/2018	7:12	Dry			
ELK-MW4	2/22/2018	14:55	Dry			
ELK-MW4	3/23/2018	8:30	Dry			
ELK-MW4	4/25/2018	12:37	Dry			
ELK-MW4	5/11/2018	12:20	Dry			
ELK-MW4	6/13/2018	16:40	Dry			
ELK-MW4	7/19/2018	14:20	Dry			
ELK-MW4	8/7/2018	7:36	Dry			
ELK-MW4	9/26/2018	18:10	Dry			
ELK-MW4	10/31/2018	12:02	Dry			
ELK-MW4	11/15/2018	13:36	Dry			
ELK-MW4	12/28/2018	7:37	Dry			
ELK-MW4	1/10/2019	15:25	Dry			
ELK-MW4	2/13/2019	16:05	Dry			
ELK-MW4	3/13/2019	15:50	Dry			
ELK-MW4	4/19/2019	8:04	Dry			
ELK-MW4	5/16/2019	14:31	Dry			
ELK-MW4	6/12/2019	14:20	25.83	288.85		
ELK-MW4	7/18/2019	9:18	Dry			
ELK-MW4	8/15/2019	10:27	Dry			
ELK-MW4	9/14/2019	14:31	Dry			
ELK-MW4	10/29/2019	11:05	Dry			
ELK-MW4	11/22/2019	7:24	Dry			
ELK-MW4	12/12/2019	13:21	Dry			
ZZI-MW1A	1/23/2013	8:50	42.98	205.36		
ZZI-MW1A	2/14/2013	8:18	42.88	205.46		
ZZI-MW1A	3/22/2013	10:50	42.87	205.47		
ZZI-MW1A	4/24/2013	7:39	42.68	205.66		
ZZI-MW1A	5/17/2013	6:15	Dry			
ZZI-MW1A	6/21/2013	6:37	Dry			
ZZI-MW1A	7/18/2013	6:45	Dry			
ZZI-MW1A	8/15/2013	12:10	Dry			
ZZI-MW1A	9/11/2013	15:21	Dry			
ZZI-MW1A	10/24/2013	12:25	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ZZI-MW1A	11/20/2013	7:00	Dry			
ZZI-MW1A	12/27/2013	8:51	42.85	205.49		
ZZI-MW1A	1/15/2014	11:34	42.85	205.49		
ZZI-MW1A	2/19/2014	6:35	42.98	205.36		
ZZI-MW1A	3/19/2014	15:57	43.16	205.18		
ZZI-MW1A	4/15/2014	15:39	43.02	205.32		
ZZI-MW1A	5/27/2014	14:33	42.91	205.43		
ZZI-MW1A	6/12/2014	15:00	43.21	205.13		
ZZI-MW1A	7/9/2014	12:36	43.27	205.07		
ZZI-MW1A	8/19/2014	8:36	43.29	205.05		
ZZI-MW1A	9/25/2014	8:26	Dry			
ZZI-MW1A	10/22/2014	9:45	42.51	205.83		
ZZI-MW1A	11/12/2014	15:07	Dry			
ZZI-MW1A	12/17/2014	11:08	Dry			
ZZI-MW1A	1/8/2015	15:07	Dry			
ZZI-MW1A	2/24/2015	8:06	43.34	205.00		
ZZI-MW1A	3/12/2015	14:14	43.38	204.96		
ZZI-MW1A	4/21/2015	12:40	Dry			
ZZI-MW1A	5/13/2015	6:25	Dry			
ZZI-MW1A	6/11/2015	14:23	43.45	204.89		
ZZI-MW1A	7/21/2015	12:50	43.60	204.74		
ZZI-MW1A	8/25/2015	14:30	43.41	204.93		
ZZI-MW1A	9/15/2015	13:48	43.62	204.72		
ZZI-MW1A	10/21/2015	16:50	41.66	206.68		
ZZI-MW1A	11/17/2015	7:57	43.66	204.68		
ZZI-MW1A	12/17/2015	13:06	43.60	204.74		
ZZI-MW1A	1/12/2016	12:38	43.59	204.75		
ZZI-MW1A	2/23/2016	8:04	43.61	204.73		
ZZI-MW1A	3/18/2016	12:28	Dry			
ZZI-MW1A	4/19/2016	14:10	Dry			
ZZI-MW1A	5/9/2016	15:56	Dry			
ZZI-MW1A	6/23/2016	8:18	43.62	204.72		
ZZI-MW1A	7/20/2016	9:18	43.85	204.49		
ZZI-MW1A	8/10/2016	7:33	43.99	204.35		
ZZI-MW1A	9/29/2016	10:15	43.00	205.34		
ZZI-MW1A	10/27/2016	16:10	Dry			
ZZI-MW1A	11/10/2016	14:40	Dry			
ZZI-MW1A	12/22/2016	16:45	43.31	205.03		
ZZI-MW1A	1/5/2017		N/M			
ZZI-MW1A	2/1/2017		N/M			
ZZI-MW1A	3/30/2017	8:52	43.62	204.72		
ZZI-MW1A	4/19/2017	15:38	43.21	205.13		
ZZI-MW1A	5/18/2017	12:15	Dry			
ZZI-MW1A	6/6/2017		N/M			
ZZI-MW1A	7/14/2017	9:32	43.93	204.41		
ZZI-MW1A	8/23/2017	15:18	Dry			
ZZI-MW1A	9/12/2017	12:05	43.60	204.74		
ZZI-MW1A	10/17/2017	14:40	43.20	205.14		
ZZI-MW1A	11/28/2017	12:26	Dry			
ZZI-MW1A	12/22/2017	14:09	44.61	203.73		
ZZI-MW1A	1/11/2018	8:29	42.97	205.37		
ZZI-MW1A	2/22/2018	7:30	43.12	205.22		
ZZI-MW1A	3/21/2018	15:45	43.10	205.24		
ZZI-MW1A	4/25/2018	11:24	43.29	205.05		
ZZI-MW1A	5/29/2018	12:53	43.38	204.96		
ZZI-MW1A	6/13/2018	13:42	43.96	204.38		
ZZI-MW1A	7/18/2018	15:55	Dry			
ZZI-MW1A	8/8/2018		N/M			
ZZI-MW1A	9/26/2018		N/M			
ZZI-MW1A	10/30/2018	10:44	43.68	204.66		
ZZI-MW1A	11/27/2018		N/M			
ZZI-MW1A	12/27/2018	10:51	Dry			
ZZI-MW1A	1/10/2019	9:08	N/M			
ZZI-MW1A	2/21/2019	8:17	42.21	206.13		
ZZI-MW1A	3/28/2019	11:27	43.16	205.18		
ZZI-MW1A	4/17/2019		N/M			
ZZI-MW1A	5/22/2019	14:27	Dry			
ZZI-MW1A	6/12/2019	12:50	Dry			
ZZI-MW1A	7/17/2019	13:54	Dry			
ZZI-MW1A	8/14/2019	7:40	44.10	204.24		
ZZI-MW1A	9/14/2019	13:41	Dry			
ZZI-MW1A	10/29/2019	10:01	Dry			
ZZI-MW1A	11/21/2019	8:16	Dry			
ZZI-MW1A	12/12/2019	12:11	Dry			
ZZI-MW1B	1/23/2013	8:53	99.41	149.07		
ZZI-MW1B	2/14/2013	8:24	101.29	147.19		
ZZI-MW1B	3/22/2013	10:53	101.95	146.53		
ZZI-MW1B	4/24/2013	7:43	103.60	144.88		
ZZI-MW1B	5/17/2013	6:17	Dry			
ZZI-MW1B	6/21/2013	6:41	Dry			
ZZI-MW1B	7/18/2013	6:50	Dry			
ZZI-MW1B	8/15/2013	12:12	Dry			
ZZI-MW1B	9/11/2013	15:24	Dry			
ZZI-MW1B	10/24/2013	12:29	Dry			
ZZI-MW1B	11/20/2013	7:04	Dry			
ZZI-MW1B	12/27/2013	8:55	105.70	142.78		
ZZI-MW1B	1/15/2014	11:37	Dry			
ZZI-MW1B	2/19/2014	6:38	Dry			
ZZI-MW1B	3/19/2014	16:01	105.77	142.71		
ZZI-MW1B	4/15/2014	15:42	Dry			
ZZI-MW1B	5/27/2014	14:36	Dry			
ZZI-MW1B	6/12/2014	15:03	Dry			
ZZI-MW1B	7/9/2014	14:39	105.64	142.84		
ZZI-MW1B	8/19/2014	8:40	Dry			
ZZI-MW1B	9/25/2014	8:29	Dry			
ZZI-MW1B	10/22/2014	9:48	Dry			
ZZI-MW1B	11/12/2014	15:10	Dry			
ZZI-MW1B	12/17/2014	11:10	Dry			
ZZI-MW1B	1/8/2015	15:11	Dry			
ZZI-MW1B	2/24/2015	8:09	Dry			
ZZI-MW1B	3/12/2015	14:17	Dry			
ZZI-MW1B	4/21/2015	12:43	Dry			
ZZI-MW1B	5/13/2015	6:30	Dry			
ZZI-MW1B	6/11/2015	14:26	Dry			
ZZI-MW1B	7/21/2015	12:53	Dry			
ZZI-MW1B	8/25/2015	14:33	Dry			
ZZI-MW1B	9/15/2015	13:51	Dry			
ZZI-MW1B	10/21/2015	16:55	Dry			
ZZI-MW1B	11/17/2015	8:00	Dry			
ZZI-MW1B	12/17/2015	13:09	Dry			
ZZI-MW1B	1/12/2016	12:41	Dry			
ZZI-MW1B	2/23/2016	8:07	Dry			
ZZI-MW1B	3/18/2016	12:30	Dry			
ZZI-MW1B	4/19/2016	14:13	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ZZI-MW1B	5/9/2016	15:58	Dry			
ZZI-MW1B	6/23/2016	8:25	Dry			
ZZI-MW1B	7/20/2016	9:21	Dry			
ZZI-MW1B	8/10/2016	7:35	Dry			
ZZI-MW1B	9/29/2016	10:18	Dry			
ZZI-MW1B	10/27/2016	16:11	Dry			
ZZI-MW1B	11/10/2016	14:41	Dry			
ZZI-MW1B	12/22/2016	16:57	Dry			
ZZI-MW1B	1/5/2017		N/M			
ZZI-MW1B	2/1/2017		N/M			
ZZI-MW1B	3/30/2017	8:46	Dry			
ZZI-MW1B	4/19/2017	15:41	Dry			
ZZI-MW1B	5/18/2017	12:19	Dry			
ZZI-MW1B	6/6/2017		N/M			
ZZI-MW1B	7/14/2017	9:34	Dry			
ZZI-MW1B	8/23/2017	15:21	Dry			
ZZI-MW1B	9/12/2017	11:59	Dry			
ZZI-MW1B	10/17/2017	14:42	Dry			
ZZI-MW1B	11/28/2017	12:28	Dry			
ZZI-MW1B	12/22/2017	14:11	Dry			
ZZI-MW1B	1/11/2018	8:31	Dry			
ZZI-MW1B	2/22/2018	7:40	Dry			
ZZI-MW1B	3/21/2018	15:50	Dry			
ZZI-MW1B	4/25/2018	11:25	Dry			
ZZI-MW1B	5/29/2018	12:55	Dry			
ZZI-MW1B	6/13/2018	13:44	Dry			
ZZI-MW1B	7/18/2018	15:56	Dry			
ZZI-MW1B	8/8/2018		N/M			
ZZI-MW1B	9/26/2018		N/M			
ZZI-MW1B	10/30/2018	10:47	Dry			
ZZI-MW1B	11/27/2018		N/M			
ZZI-MW1B	12/27/2018	10:52	Dry			
ZZI-MW1B	1/10/2019	9:08	N/M			
ZZI-MW1B	2/21/2019	8:19	Dry			
ZZI-MW1B	3/28/2019	11:32	Dry			
ZZI-MW1B	4/17/2019		N/M			
ZZI-MW1B	5/22/2019	14:28	Dry			
ZZI-MW1B	6/12/2019	12:46	Dry			
ZZI-MW1B	7/17/2019	13:56	Dry			
ZZI-MW1B	8/14/2019	7:42	Dry			
ZZI-MW1B	9/14/2019	13:43	Dry			
ZZI-MW1B	10/29/2019	10:03	Dry			
ZZI-MW1B	11/21/2019	8:14	103.45	145.03		
ZZI-MW1B	12/12/2019	12:13	Dry			
ZZI-MW1C	1/23/2013	8:55	99.35	149.15		
ZZI-MW1C	2/14/2013	8:27	101.12	147.38		
ZZI-MW1C	3/22/2013	10:55	101.98	146.52		
ZZI-MW1C	4/24/2013	7:46	103.56	144.94		
ZZI-MW1C	5/17/2013	6:19	104.48	144.02		
ZZI-MW1C	6/21/2013	6:45	106.18	142.32		
ZZI-MW1C	7/18/2013	6:53	107.37	141.13		
ZZI-MW1C	8/15/2013	12:14	108.66	139.84		
ZZI-MW1C	9/11/2013	15:27	109.81	138.69		
ZZI-MW1C	10/24/2013	12:32	109.86	138.64		
ZZI-MW1C	11/20/2013	7:08	110.66	137.84		
ZZI-MW1C	12/27/2013	8:57	109.95	138.55		
ZZI-MW1C	1/15/2014	11:40	110.04	138.46		
ZZI-MW1C	2/19/2014	6:41	109.97	138.53		
ZZI-MW1C	3/19/2014	16:06	110.83	137.67		
ZZI-MW1C	4/15/2014	15:45	110.86	137.64		
ZZI-MW1C	5/27/2014	14:40	112.17	136.33		
ZZI-MW1C	6/12/2014	15:06	112.78	135.72		
ZZI-MW1C	7/9/2014	12:42	113.80	134.70		
ZZI-MW1C	8/19/2014	8:43	115.34	133.16		
ZZI-MW1C	9/25/2014	8:32	116.06	132.44		
ZZI-MW1C	10/22/2014	9:51	116.49	132.01		
ZZI-MW1C	11/12/2014	15:12	117.63	130.87		
ZZI-MW1C	12/17/2014	11:12	116.53	131.97		
ZZI-MW1C	1/8/2015	15:14	116.25	132.25		
ZZI-MW1C	2/24/2015	8:11	116.98	131.52		
ZZI-MW1C	3/12/2015	14:20	116.85	131.65		
ZZI-MW1C	4/21/2015	12:45	117.40	131.10		
ZZI-MW1C	5/13/2015	6:34	117.91	130.59		
ZZI-MW1C	6/11/2015	14:29	118.35	130.15		
ZZI-MW1C	7/21/2015	12:57	119.63	128.87		
ZZI-MW1C	8/25/2015	14:35	120.73	127.77		
ZZI-MW1C	9/15/2015	13:53	120.95	127.55		
ZZI-MW1C	10/21/2015	17:00	121.71	126.79		
ZZI-MW1C	11/17/2015	8:03	122.26	126.24		
ZZI-MW1C	12/17/2015	13:12	121.82	126.68		
ZZI-MW1C	1/12/2016	12:44	121.67	126.83		
ZZI-MW1C	2/23/2016	8:09	121.33	127.17		
ZZI-MW1C	3/18/2016	12:32	122.01	126.49		
ZZI-MW1C	4/19/2016	14:17	122.23	126.27		
ZZI-MW1C	5/9/2016	16:00	125.94	122.56		
ZZI-MW1C	6/23/2016	8:29	123.60	124.90		
ZZI-MW1C	7/20/2016	9:24	124.52	123.98		
ZZI-MW1C	8/10/2016	7:37	125.32	123.18		
ZZI-MW1C	9/29/2016	10:20	119.88	128.62		
ZZI-MW1C	10/27/2016	16:13	125.92	122.58		
ZZI-MW1C	11/10/2016	14:42	Dry			
ZZI-MW1C	12/22/2016	16:49	Dry			
ZZI-MW1C	1/5/2017		N/M			
ZZI-MW1C	2/1/2017		N/M			
ZZI-MW1C	3/30/2017	8:50	125.86	122.64		
ZZI-MW1C	4/19/2017	15:45	125.49	123.01		
ZZI-MW1C	5/18/2017	12:21	Dry			
ZZI-MW1C	6/6/2017		N/M			
ZZI-MW1C	7/14/2017	9:34	122.40	126.10		
ZZI-MW1C	8/23/2017	15:24	Dry			
ZZI-MW1C	9/12/2017	12:01	117.27	131.23		
ZZI-MW1C	10/17/2017	14:44	113.32	135.18		
ZZI-MW1C	11/28/2017	12:30	119.13	129.37		
ZZI-MW1C	12/22/2017	14:13	115.10	133.40		
ZZI-MW1C	1/11/2018	8:33	106.00	142.50		
ZZI-MW1C	2/22/2018	7:45	104.88	143.62		
ZZI-MW1C	3/21/2018	15:55	104.44	144.06		
ZZI-MW1C	4/25/2018	11:26	105.00	143.50		
ZZI-MW1C	5/29/2018	12:57	105.40	143.10		
ZZI-MW1C	6/13/2018	13:46	107.10	141.40		
ZZI-MW1C	7/18/2018	15:57	107.03	141.47		
ZZI-MW1C	8/8/2018		N/M			
ZZI-MW1C	9/26/2018		N/M			
ZZI-MW1C	10/30/2018	10:50	108.40	140.10		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ZZI-MW1C	11/27/2018		N/M			
ZZI-MW1C	12/27/2018	10:53	109.27	139.23		
ZZI-MW1C	1/10/2019	9:08	N/M			
ZZI-MW1C	2/21/2019	8:20	105.58	142.92		
ZZI-MW1C	3/28/2019	11:29	102.39	146.11		
ZZI-MW1C	4/17/2019		N/M			
ZZI-MW1C	5/22/2019	14:29	106.57	141.93		
ZZI-MW1C	6/12/2019	12:45	106.10	142.40		
ZZI-MW1C	7/17/2019	13:50	105.71	142.79		
ZZI-MW1C	8/14/2019	7:45	105.37	143.13		
ZZI-MW1C	9/14/2019	13:45	105.61	142.89		
ZZI-MW1C	10/29/2019	10:04	105.32	143.18		
ZZI-MW1C	11/21/2019	8:13	Dry			
ZZI-MW1C	12/12/2019	12:15	103.23	145.27		
ZZI-MW1D	1/23/2013	8:59	99.39	149.09		
ZZI-MW1D	2/14/2013	8:31	101.15	147.33		
ZZI-MW1D	3/22/2013	10:57	101.79	146.69		
ZZI-MW1D	4/24/2013	7:50	103.57	144.91		
ZZI-MW1D	5/17/2013	6:21	104.50	143.98		
ZZI-MW1D	6/21/2013	6:51	106.15	142.33		
ZZI-MW1D	7/18/2013	6:57	107.39	141.09		
ZZI-MW1D	8/15/2013	12:16	108.65	139.83		
ZZI-MW1D	9/11/2013	15:30	109.85	138.63		
ZZI-MW1D	10/24/2013	12:35	109.85	138.63		
ZZI-MW1D	11/20/2013	7:10	110.66	137.82		
ZZI-MW1D	12/27/2013	9:00	109.91	138.57		
ZZI-MW1D	1/15/2014	11:44	110.03	138.45		
ZZI-MW1D	2/19/2014	6:44	109.94	138.54		
ZZI-MW1D	3/19/2014	16:10	110.71	137.77		
ZZI-MW1D	4/15/2014	15:48	110.83	137.65		
ZZI-MW1D	5/27/2014	14:43	112.12	136.36		
ZZI-MW1D	6/12/2014	15:09	112.71	135.77		
ZZI-MW1D	7/9/2014	12:46	113.76	134.72		
ZZI-MW1D	8/19/2014	8:46	115.31	133.17		
ZZI-MW1D	9/25/2014	8:35	Q/M			
ZZI-MW1D	10/22/2014	9:54	116.47	132.01		
ZZI-MW1D	11/12/2014	15:15	116.55	131.93		
ZZI-MW1D	12/17/2014	11:14	116.53	131.95		
ZZI-MW1D	1/8/2015	15:17	116.18	132.30		
ZZI-MW1D	2/24/2015	8:13	116.99	131.49		
ZZI-MW1D	3/12/2015	14:24	116.86	131.62		
ZZI-MW1D	4/21/2015	12:47	117.40	131.08		
ZZI-MW1D	5/13/2015	6:38	117.90	130.58		
ZZI-MW1D	6/11/2015	14:32	118.29	130.19		
ZZI-MW1D	7/21/2015	13:03	119.60	128.88		
ZZI-MW1D	8/25/2015	14:37	120.72	127.76		
ZZI-MW1D	9/15/2015	13:55	120.93	127.55		
ZZI-MW1D	10/21/2015	17:05	121.82	126.66		
ZZI-MW1D	11/17/2015	8:06	122.21	126.27		
ZZI-MW1D	12/17/2015	13:15	121.86	126.62		
ZZI-MW1D	1/12/2016	12:49	121.63	126.85		
ZZI-MW1D	2/23/2016	8:12	121.28	127.20		
ZZI-MW1D	3/18/2016	12:34	122.22	126.26		
ZZI-MW1D	4/19/2016	14:21	122.34	126.14		
ZZI-MW1D	5/9/2016	16:02	122.78	125.70		
ZZI-MW1D	6/23/2016	8:34	123.78	124.70		
ZZI-MW1D	7/20/2016	9:26	124.65	123.83		
ZZI-MW1D	8/10/2016	7:39	125.28	123.20		
ZZI-MW1D	9/29/2016	10:24	120.01	128.47		
ZZI-MW1D	10/27/2016	16:15	126.02	122.46		
ZZI-MW1D	11/10/2016	14:43	127.12	121.36		
ZZI-MW1D	12/22/2016	16:52	126.90	121.58		
ZZI-MW1D	1/5/2017		N/M			
ZZI-MW1D	2/1/2017		N/M			
ZZI-MW1D	3/30/2017	8:44	125.91	122.57		
ZZI-MW1D	4/19/2017	15:50	125.45	123.03		
ZZI-MW1D	5/18/2017	12:23	Dry			
ZZI-MW1D	6/6/2017		N/M			
ZZI-MW1D	7/14/2017	9:37	122.31	126.17		
ZZI-MW1D	8/23/2017	15:27	Dry			
ZZI-MW1D	9/12/2017	12:03	117.22	131.26		
ZZI-MW1D	10/17/2017	14:46	113.30	135.18		
ZZI-MW1D	11/28/2017	12:33	126.15	122.33		
ZZI-MW1D	12/22/2017	14:19	115.15	133.33		
ZZI-MW1D	1/11/2018	8:35	106.01	142.47		
ZZI-MW1D	2/22/2018	7:50	104.85	143.63		
ZZI-MW1D	3/21/2018	16:00	104.42	144.06		
ZZI-MW1D	4/25/2018	11:27	104.92	143.56		
ZZI-MW1D	5/29/2018	12:59	105.39	143.09		
ZZI-MW1D	6/13/2018	13:49	107.05	141.43		
ZZI-MW1D	7/18/2018	15:58	107.11	141.37		
ZZI-MW1D	8/8/2018		N/M			
ZZI-MW1D	9/26/2018		N/M			
ZZI-MW1D	10/30/2018	10:53	108.38	140.10		
ZZI-MW1D	11/27/2018		N/M			
ZZI-MW1D	12/27/2018	10:54	109.20	139.28		
ZZI-MW1D	1/10/2019	9:08	N/M			
ZZI-MW1D	2/21/2019	8:21	106.21	142.27		
ZZI-MW1D	3/28/2019	11:30	102.26	146.22		
ZZI-MW1D	4/17/2019		N/M			
ZZI-MW1D	5/22/2019	14:30	106.60	141.88		
ZZI-MW1D	6/12/2019	12:47	106.10	142.38		
ZZI-MW1D	7/17/2019	13:52	105.64	142.84		
ZZI-MW1D	8/14/2019	7:48	105.28	143.20		
ZZI-MW1D	9/14/2019	13:47	105.37	143.11		
ZZI-MW1D	10/29/2019	10:05	105.11	143.37		
ZZI-MW1D	11/21/2019	8:12	103.42	145.06		
ZZI-MW1D	12/12/2019	12:17	103.11	145.37		
ZZI-MW2A	1/23/2013	9:14	40.13	206.49		
ZZI-MW2A	2/14/2013	10:13	40.08	206.54		
ZZI-MW2A	3/22/2013	11:17	41.00	205.62		
ZZI-MW2A	4/24/2013	8:10	39.77	206.85		
ZZI-MW2A	5/17/2013	6:35	Dry			
ZZI-MW2A	6/21/2013	7:35	Dry			
ZZI-MW2A	7/18/2013	7:28	Dry			
ZZI-MW2A	8/15/2013	12:30	39.33	207.29		
ZZI-MW2A	9/11/2013	16:12	Dry			
ZZI-MW2A	10/24/2013	12:58	Dry			
ZZI-MW2A	11/20/2013	7:30	Dry			
ZZI-MW2A	12/27/2013	9:45	39.80	206.82		
ZZI-MW2A	1/15/2014	11:48	39.74	206.88		
ZZI-MW2A	2/19/2014	7:08	39.91	206.71		
ZZI-MW2A	3/19/2014	16:16	36.95	209.67		
ZZI-MW2A	4/15/2014	16:53	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ZZI-MW2A	5/27/2014	13:26	40.30	206.32		
ZZI-MW2A	6/12/2014	14:45	40.22	206.40		
ZZI-MW2A	7/9/2014	13:04	40.26	206.36		
ZZI-MW2A	8/19/2014	7:43	39.94	206.68		
ZZI-MW2A	9/25/2014	7:06	39.74	206.88		
ZZI-MW2A	10/22/2014	8:35	39.84	206.78		
ZZI-MW2A	11/12/2014	13:54	39.80	206.82		
ZZI-MW2A	12/17/2014	10:16	39.90	206.72		
ZZI-MW2A	1/8/2015	14:52	40.00	206.62		
ZZI-MW2A	2/24/2015	8:19	40.23	206.39		
ZZI-MW2A	3/12/2015	13:27	40.39	206.23		
ZZI-MW2A	4/21/2015	12:27	40.39	206.23		
ZZI-MW2A	5/13/2015	8:05	40.41	206.21		
ZZI-MW2A	6/11/2015	14:10	40.30	206.32		
ZZI-MW2A	7/21/2015	12:35	40.38	206.24		
ZZI-MW2A	8/25/2015	14:44	40.02	206.60		
ZZI-MW2A	9/15/2015	12:30	39.99	206.63		
ZZI-MW2A	10/21/2015	16:10	Dry			
ZZI-MW2A	11/17/2015	7:30	40.27	206.35		
ZZI-MW2A	12/17/2015	11:59	40.36	206.26		
ZZI-MW2A	1/12/2016	12:11	40.49	206.13		
ZZI-MW2A	2/23/2016	7:37	40.71	205.91		
ZZI-MW2A	3/18/2016	12:19	41.19	205.43		
ZZI-MW2A	4/19/2016	13:00	41.58	205.04		
ZZI-MW2A	5/9/2016	15:02	40.80	205.82		
ZZI-MW2A	6/23/2016	8:52	40.59	206.03		
ZZI-MW2A	7/20/2016	10:05	40.63	205.99		
ZZI-MW2A	8/10/2016	6:38	40.33	206.29		
ZZI-MW2A	9/29/2016	10:50	40.74	205.88		
ZZI-MW2A	10/27/2016	15:25	39.65	206.97		
ZZI-MW2A	11/10/2016	14:08	39.66	206.96		
ZZI-MW2A	12/22/2016	15:30	39.90	206.72		
ZZI-MW2A	1/5/2017	14:45	39.94	206.68		
ZZI-MW2A	2/1/2017		N/M			
ZZI-MW2A	3/30/2017	9:23	40.46	206.16		
ZZI-MW2A	4/19/2017	13:59	40.40	206.22		
ZZI-MW2A	5/18/2017	11:17	40.70	205.92		
ZZI-MW2A	6/6/2017	14:28	Dry			
ZZI-MW2A	7/14/2017	8:32	40.98	205.64		
ZZI-MW2A	8/23/2017	15:28	40.55	206.07		
ZZI-MW2A	9/12/2017	10:59	40.62	206.00		
ZZI-MW2A	10/17/2017	14:25	40.26	206.36		
ZZI-MW2A	11/28/2017	12:39	46.81	199.81		
ZZI-MW2A	12/22/2017	13:05	43.41	203.21		
ZZI-MW2A	1/11/2018	8:15	40.01	206.61		
ZZI-MW2A	2/22/2018	8:10	40.23	206.39		
ZZI-MW2A	3/21/2018	14:15	40.31	206.31		
ZZI-MW2A	4/25/2018	10:19	44.44	202.18		
ZZI-MW2A	5/29/2018	12:47	40.60	206.02		
ZZI-MW2A	6/13/2018	12:33	44.10	202.52		
ZZI-MW2A	7/18/2018	15:42	40.85	205.77		
ZZI-MW2A	8/8/2018	9:44	Dry			
ZZI-MW2A	9/26/2018	15:16	40.87	205.75		
ZZI-MW2A	10/30/2018	10:37	40.99	205.63		
ZZI-MW2A	11/27/2018	8:25	40.90	205.72		
ZZI-MW2A	12/27/2018	11:52	40.85	205.77		
ZZI-MW2A	1/10/2019	7:41	45.13	201.49		
ZZI-MW2A	2/21/2019	7:30	43.04	203.58		
ZZI-MW2A	3/28/2019	10:34	Dry			
ZZI-MW2A	4/17/2019	11:36	Dry			
ZZI-MW2A	5/22/2019	14:09	41.23	205.39		
ZZI-MW2A	6/12/2019	13:10	41.14	205.48		
ZZI-MW2A	7/17/2019	12:25	41.01	205.61		
ZZI-MW2A	8/14/2019	7:24	40.80	205.82		
ZZI-MW2A	9/14/2019	12:30	40.49	206.13		
ZZI-MW2A	10/29/2019	8:48	40.46	206.16		
ZZI-MW2A	11/21/2019	8:00	Dry			
ZZI-MW2A	12/12/2019	11:20	40.31	206.31		
ZZI-MW2B	1/23/2013	9:16	Dry			
ZZI-MW2B	2/14/2013	10:15	Dry			
ZZI-MW2B	3/22/2013	11:19	Dry			
ZZI-MW2B	4/24/2013	8:13	Dry			
ZZI-MW2B	5/17/2013	6:37	Dry			
ZZI-MW2B	6/21/2013	7:39	Dry			
ZZI-MW2B	7/18/2013	7:31	Dry			
ZZI-MW2B	8/15/2013	12:32	Dry			
ZZI-MW2B	9/11/2013	16:15	Dry			
ZZI-MW2B	10/24/2013	13:01	Dry			
ZZI-MW2B	11/20/2013	7:32	Dry			
ZZI-MW2B	12/27/2013	9:35	Dry			
ZZI-MW2B	1/15/2014	11:50	Dry			
ZZI-MW2B	2/19/2014	7:11	Dry			
ZZI-MW2B	3/19/2014	16:19	Dry			
ZZI-MW2B	4/15/2014	16:56	Dry			
ZZI-MW2B	5/27/2014	13:29	Dry			
ZZI-MW2B	6/12/2014	14:49	Dry			
ZZI-MW2B	7/9/2014	13:06	Dry			
ZZI-MW2B	8/19/2014	7:48	Dry			
ZZI-MW2B	9/25/2014	7:09	Dry			
ZZI-MW2B	10/22/2014	8:38	Dry			
ZZI-MW2B	11/12/2014	13:56	Dry			
ZZI-MW2B	12/17/2014	10:18	Dry			
ZZI-MW2B	1/8/2015	14:56	Dry			
ZZI-MW2B	2/24/2015	8:22	Dry			
ZZI-MW2B	3/12/2015	13:29	Dry			
ZZI-MW2B	4/21/2015	12:29	Dry			
ZZI-MW2B	5/13/2015	8:00	Dry			
ZZI-MW2B	6/11/2015	14:12	Dry			
ZZI-MW2B	7/21/2015	12:40	Dry			
ZZI-MW2B	8/25/2015	14:47	Dry			
ZZI-MW2B	9/15/2015	12:33	Dry			
ZZI-MW2B	10/21/2015	16:15	Dry			
ZZI-MW2B	11/17/2015	7:35	Dry			
ZZI-MW2B	12/17/2015	12:02	Dry			
ZZI-MW2B	1/12/2016	12:13	Dry			
ZZI-MW2B	2/23/2016	7:40	Dry			
ZZI-MW2B	3/18/2016	12:21	Dry			
ZZI-MW2B	4/19/2016	13:03	Dry			
ZZI-MW2B	5/9/2016	15:04	Dry			
ZZI-MW2B	6/23/2016	8:56	Dry			
ZZI-MW2B	7/20/2016	9:54	Dry			
ZZI-MW2B	8/10/2016	6:40	Dry			
ZZI-MW2B	9/29/2016	11:05	Dry			
ZZI-MW2B	10/27/2016	15:26	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ZZI-MW2B	11/10/2016	14:09	Dry			
ZZI-MW2B	12/22/2016	15:32	Dry			
ZZI-MW2B	1/5/2017	14:55	Dry			
ZZI-MW2B	2/1/2017		N/M			
ZZI-MW2B	3/30/2017	9:11	Dry			
ZZI-MW2B	4/19/2017	14:03	Dry			
ZZI-MW2B	5/18/2017	11:19	Dry			
ZZI-MW2B	6/6/2017	14:29	Dry			
ZZI-MW2B	7/14/2017	8:31	Dry			
ZZI-MW2B	8/23/2017	15:19	Dry			
ZZI-MW2B	9/12/2017	10:55	Dry			
ZZI-MW2B	10/17/2017	14:27	Dry			
ZZI-MW2B	11/28/2017	12:41	Dry			
ZZI-MW2B	12/22/2017	13:03	Dry			
ZZI-MW2B	1/11/2018	8:17	Dry			
ZZI-MW2B	2/22/2018	8:20	Dry			
ZZI-MW2B	3/21/2018	14:00	Dry			
ZZI-MW2B	4/25/2018	10:20	Dry			
ZZI-MW2B	5/29/2018	12:45	Dry			
ZZI-MW2B	6/13/2018	12:36	Dry			
ZZI-MW2B	7/18/2018	15:41	Dry			
ZZI-MW2B	8/8/2018	9:50	Dry			
ZZI-MW2B	9/26/2018	15:19	Dry			
ZZI-MW2B	10/30/2018	10:39	Dry			
ZZI-MW2B	11/27/2018	8:26	Dry			
ZZI-MW2B	12/27/2018	11:53	Dry			
ZZI-MW2B	1/10/2019	7:42	Dry			
ZZI-MW2B	2/21/2019	7:28	Dry			
ZZI-MW2B	3/28/2019	10:30	Dry			
ZZI-MW2B	4/17/2019	11:34	Dry			
ZZI-MW2B	5/22/2019	14:08	Dry			
ZZI-MW2B	6/12/2019	13:09	Dry			
ZZI-MW2B	7/17/2019	12:27	Dry			
ZZI-MW2B	8/14/2019	7:27	Dry			
ZZI-MW2B	9/14/2019	12:33	Dry			
ZZI-MW2B	10/29/2019	8:50	Dry			
ZZI-MW2B	11/21/2019	7:57	Dry			
ZZI-MW2B	12/12/2019	11:22	Dry			
ZZI-MW2C	1/23/2013	9:18	97.58	149.30		
ZZI-MW2C	2/14/2013	10:18	99.14	147.74		
ZZI-MW2C	3/22/2013	11:21	99.20	147.68		
ZZI-MW2C	4/24/2013	8:16	101.98	144.90		
ZZI-MW2C	5/17/2013	6:39	102.94	143.94		
ZZI-MW2C	6/21/2013	7:42	104.63	142.25		
ZZI-MW2C	7/18/2013	7:34	105.90	140.98		
ZZI-MW2C	8/15/2013	12:34	107.19	139.69		
ZZI-MW2C	9/11/2013	16:18	108.20	138.68		
ZZI-MW2C	10/24/2013	13:04	108.59	138.29		
ZZI-MW2C	11/20/2013	7:32	108.15	138.73		
ZZI-MW2C	12/27/2013	9:37	108.37	138.51		
ZZI-MW2C	1/15/2014	11:54	108.40	138.48		
ZZI-MW2C	2/19/2014	7:14	108.31	138.57		
ZZI-MW2C	3/19/2014	16:23	108.78	138.10		
ZZI-MW2C	4/15/2014	16:59	108.96	137.92		
ZZI-MW2C	5/27/2014	13:32	110.61	136.27		
ZZI-MW2C	6/12/2014	14:53	110.64	136.24		
ZZI-MW2C	7/9/2014	13:09	112.39	134.49		
ZZI-MW2C	8/19/2014	7:51	114.00	132.88		
ZZI-MW2C	9/25/2014	7:12	Q/M			
ZZI-MW2C	10/22/2014	8:41	115.28	131.60		
ZZI-MW2C	11/12/2014	13:59	115.20	131.68		
ZZI-MW2C	12/17/2014	10:20	115.11	131.77		
ZZI-MW2C	1/8/2015	14:59	114.77	132.11		
ZZI-MW2C	2/24/2015	8:25	115.69	131.19		
ZZI-MW2C	3/12/2015	13:32	115.50	131.38		
ZZI-MW2C	4/21/2015	12:31	115.99	130.89		
ZZI-MW2C	5/13/2015	7:58	116.58	130.30		
ZZI-MW2C	6/11/2015	14:15	116.98	129.90		
ZZI-MW2C	7/21/2015	12:45	118.32	128.56		
ZZI-MW2C	8/25/2015	14:49	119.34	127.54		
ZZI-MW2C	9/15/2015	12:36	119.98	126.90		
ZZI-MW2C	10/21/2015	16:20	120.54	126.34		
ZZI-MW2C	11/17/2015	7:37	120.78	126.10		
ZZI-MW2C	12/17/2015	12:05	120.51	126.37		
ZZI-MW2C	1/12/2016	12:16	120.22	126.66		
ZZI-MW2C	2/23/2016	7:43	119.96	126.92		
ZZI-MW2C	3/18/2016	12:23	120.01	126.87		
ZZI-MW2C	4/19/2016	13:06	120.17	126.71		
ZZI-MW2C	5/9/2016	15:06	121.42	125.46		
ZZI-MW2C	6/23/2016	8:59	122.31	124.57		
ZZI-MW2C	7/20/2016	9:57	123.11	123.77		
ZZI-MW2C	8/10/2016	6:42	123.82	123.06		
ZZI-MW2C	9/29/2016	11:08	118.41	128.47		
ZZI-MW2C	10/27/2016	15:27	125.48	121.40		
ZZI-MW2C	11/10/2016	14:10	125.55	121.33		
ZZI-MW2C	12/22/2016	15:34	125.30	121.58		
ZZI-MW2C	1/5/2017	15:05	Dry			
ZZI-MW2C	2/1/2017		N/M			
ZZI-MW2C	3/30/2017	9:14	124.24	122.64		
ZZI-MW2C	4/19/2017	14:07	123.81	123.07		
ZZI-MW2C	5/18/2017	11:21	123.00	123.88		
ZZI-MW2C	6/6/2017	14:31	Dry			
ZZI-MW2C	7/14/2017	8:35	120.31	126.57		
ZZI-MW2C	8/23/2017	15:22	117.15	129.73		
ZZI-MW2C	9/12/2017	10:53	115.32	131.56		
ZZI-MW2C	10/17/2017	14:29	111.35	135.53		
ZZI-MW2C	11/28/2017	12:43	112.16	134.72		
ZZI-MW2C	12/22/2017	13:01	113.61	133.27		
ZZI-MW2C	1/11/2018	8:19	104.23	142.65		
ZZI-MW2C	2/22/2018	8:25	102.96	143.92		
ZZI-MW2C	3/21/2018	14:05	102.41	144.47		
ZZI-MW2C	4/25/2018	10:21	103.00	143.88		
ZZI-MW2C	5/29/2018	12:43	103.51	143.37		
ZZI-MW2C	6/13/2018	12:38	106.00	140.88		
ZZI-MW2C	7/18/2018	15:40	105.24	141.64		
ZZI-MW2C	8/8/2018	9:49	106.16	140.72		
ZZI-MW2C	9/26/2018	15:22	106.35	140.53		
ZZI-MW2C	10/30/2018	10:41	100.59	146.29		
ZZI-MW2C	11/27/2018	8:27	106.50	140.38		
ZZI-MW2C	12/27/2018	11:54	106.06	140.82		
ZZI-MW2C	1/10/2019	7:43	106.20	140.68		
ZZI-MW2C	2/21/2019	7:26	104.37	142.51		
ZZI-MW2C	3/28/2019	10:32	101.37	145.51		
ZZI-MW2C	4/17/2019	11:35	108.37	138.51		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ZZI-MW2C	5/22/2019	14:10	104.68	142.20		
ZZI-MW2C	6/12/2019	13:08	104.10	142.78		
ZZI-MW2C	7/17/2019	12:30	103.51	143.37		
ZZI-MW2C	8/14/2019	7:30	103.16	143.72		
ZZI-MW2C	9/14/2019	12:35	103.31	143.57		
ZZI-MW2C	10/29/2019	8:51	102.08	144.80		
ZZI-MW2C	11/21/2019	7:56	101.35	145.53		
ZZI-MW2C	12/12/2019	11:24	103.37	143.51		
ZZI-MW2D	1/23/2013	9:20	97.45	149.42		
ZZI-MW2D	2/14/2013	10:20	99.22	147.65		
ZZI-MW2D	3/22/2013	11:24	99.19	147.68		
ZZI-MW2D	4/24/2013	8:20	101.91	144.96		
ZZI-MW2D	5/17/2013	6:41	102.89	143.98		
ZZI-MW2D	6/21/2013	7:46	104.57	142.30		
ZZI-MW2D	7/18/2013	7:37	105.98	140.89		
ZZI-MW2D	8/15/2013	12:36	107.16	139.71		
ZZI-MW2D	9/11/2013	16:22	108.14	138.73		
ZZI-MW2D	10/24/2013	13:07	108.55	138.32		
ZZI-MW2D	11/20/2013	7:35	108.19	138.68		
ZZI-MW2D	12/27/2013	9:41	108.33	138.54		
ZZI-MW2D	1/15/2014	11:57	108.35	138.52		
ZZI-MW2D	2/19/2014	7:17	108.25	138.62		
ZZI-MW2D	3/19/2014	16:27	108.88	137.99		
ZZI-MW2D	4/15/2014	17:01	109.01	137.86		
ZZI-MW2D	5/27/2014	13:35	110.41	136.46		
ZZI-MW2D	6/12/2014	14:56	110.78	136.09		
ZZI-MW2D	7/9/2014	13:12	112.36	134.51		
ZZI-MW2D	8/19/2014	7:54	113.99	132.88		
ZZI-MW2D	9/25/2014	7:15	Q/M			
ZZI-MW2D	10/22/2014	8:44	115.17	131.70		
ZZI-MW2D	11/12/2014	14:02	115.15	131.72		
ZZI-MW2D	12/17/2014	10:22	115.04	131.83		
ZZI-MW2D	1/8/2015	15:02	114.71	132.16		
ZZI-MW2D	2/24/2015	8:28	115.60	131.27		
ZZI-MW2D	3/12/2015	13:35	115.45	131.42		
ZZI-MW2D	4/21/2015	12:34	115.94	130.93		
ZZI-MW2D	5/13/2015	8:02	116.55	130.32		
ZZI-MW2D	6/11/2015	14:18	116.93	129.94		
ZZI-MW2D	7/21/2015	12:50	118.25	128.62		
ZZI-MW2D	8/25/2015	14:51	119.34	127.53		
ZZI-MW2D	9/15/2015	12:39	119.99	126.88		
ZZI-MW2D	10/21/2015	16:25	120.53	126.34		
ZZI-MW2D	11/17/2015	7:39	120.75	126.12		
ZZI-MW2D	12/17/2015	12:08	120.45	126.42		
ZZI-MW2D	1/12/2016	12:19	120.18	126.69		
ZZI-MW2D	2/23/2016	7:46	119.89	126.98		
ZZI-MW2D	3/18/2016	12:25	119.84	127.03		
ZZI-MW2D	4/19/2016	13:09	119.95	126.92		
ZZI-MW2D	5/9/2016	15:08	121.50	125.37		
ZZI-MW2D	6/23/2016	9:03	122.35	124.52		
ZZI-MW2D	7/20/2016	10:00	123.15	123.72		
ZZI-MW2D	8/10/2016	6:44	123.82	123.05		
ZZI-MW2D	9/29/2016	11:13	119.00	127.87		
ZZI-MW2D	10/27/2016	15:28	125.51	121.36		
ZZI-MW2D	11/10/2016	14:11	125.33	121.54		
ZZI-MW2D	12/22/2016	15:37	125.20	121.67		
ZZI-MW2D	1/5/2017	15:09	125.12	121.75		
ZZI-MW2D	2/1/2017		N/M			
ZZI-MW2D	3/30/2017	9:20	124.16	122.71		
ZZI-MW2D	4/19/2017	14:10	123.85	123.02		
ZZI-MW2D	5/18/2017	11:23	122.96	123.91		
ZZI-MW2D	6/6/2017	14:33	131.50	115.37		
ZZI-MW2D	7/14/2017	8:35	120.28	126.59		
ZZI-MW2D	8/23/2017	15:25	117.08	129.79		
ZZI-MW2D	9/12/2017	10:57	115.27	131.60		
ZZI-MW2D	10/17/2017	14:31	111.24	135.63		
ZZI-MW2D	11/28/2017	12:45	112.21	134.66		
ZZI-MW2D	12/22/2017	12:59	113.70	133.17		
ZZI-MW2D	1/11/2018	8:21	104.14	142.73		
ZZI-MW2D	2/22/2018	8:30	102.90	143.97		
ZZI-MW2D	3/21/2018	14:10	102.35	144.52		
ZZI-MW2D	4/25/2018	20:22	102.96	143.91		
ZZI-MW2D	5/29/2018	12:40	103.46	143.41		
ZZI-MW2D	6/13/2018	12:41	105.90	140.97		
ZZI-MW2D	7/18/2018	15:39	105.20	141.67		
ZZI-MW2D	8/8/2018	9:47	106.02	140.85		
ZZI-MW2D	9/26/2018	15:25	106.32	140.55		
ZZI-MW2D	10/30/2018	10:43	106.53	140.34		
ZZI-MW2D	11/27/2018	8:28	106.30	140.57		
ZZI-MW2D	12/27/2018	11:55	106.00	140.87		
ZZI-MW2D	1/10/2019	7:44	106.80	140.07		
ZZI-MW2D	2/21/2019	7:27	104.83	142.04		
ZZI-MW2D	3/28/2019	10:31	100.89	145.98		
ZZI-MW2D	4/17/2019	11:34	108.58	138.29		
ZZI-MW2D	5/22/2019	14:11	104.56	142.31		
ZZI-MW2D	6/12/2019	13:07	104.03	142.84		
ZZI-MW2D	7/17/2019	12:33	103.42	143.45		
ZZI-MW2D	8/14/2019	7:33	103.10	143.77		
ZZI-MW2D	9/14/2019	12:38	103.19	143.68		
ZZI-MW2D	10/29/2019	8:52	102.04	144.83		
ZZI-MW2D	11/21/2019	7:55	101.24	145.63		
ZZI-MW2D	12/12/2019	11:26	103.29	143.58		
ZZI-MW3A	1/23/2013	9:27	24.39	224.74		
ZZI-MW3A	2/14/2013	9:59	24.76	224.37		
ZZI-MW3A	3/22/2013	9:40	24.77	224.36		
ZZI-MW3A	4/24/2013	8:30	24.88	224.25		
ZZI-MW3A	5/17/2013	6:44	Dry			
ZZI-MW3A	6/21/2013	8:02	24.71	224.42		
ZZI-MW3A	7/18/2013	7:47	25.16	223.97		
ZZI-MW3A	8/15/2013	12:40	24.41	224.72		
ZZI-MW3A	9/11/2013	16:30	Dry			
ZZI-MW3A	10/24/2013	13:17	25.01	224.12		
ZZI-MW3A	11/20/2013	7:38	25.95	223.18		
ZZI-MW3A	12/27/2013	10:04	24.68	224.45		
ZZI-MW3A	1/15/2014	12:03	24.72	224.41		
ZZI-MW3A	2/19/2014	7:23	24.54	224.59		
ZZI-MW3A	3/19/2014	16:37	Dry			
ZZI-MW3A	4/15/2014	15:54	24.98	224.15		
ZZI-MW3A	5/27/2014	13:41	24.63	224.50		
ZZI-MW3A	6/12/2014	15:16	24.36	224.77		
ZZI-MW3A	7/9/2014	13:14	24.17	224.96		
ZZI-MW3A	8/19/2014	8:07	24.69	224.44		
ZZI-MW3A	9/25/2014	7:24	24.49	224.64		
ZZI-MW3A	10/22/2014	8:50	24.42	224.71		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ZZI-MW3A	11/12/2014	14:10	24.44	224.69		
ZZI-MW3A	12/17/2014	10:28	24.89	224.24		
ZZI-MW3A	1/8/2015	15:24	24.67	224.46		
ZZI-MW3A	2/24/2015	7:46	24.83	224.30		
ZZI-MW3A	3/12/2015	13:45	24.71	224.42		
ZZI-MW3A	4/21/2015	12:58	24.42	224.71		
ZZI-MW3A	5/13/2015	7:46	25.48	223.65		
ZZI-MW3A	6/11/2015	14:33	24.03	225.10		
ZZI-MW3A	7/21/2015	12:20	24.10	225.03		
ZZI-MW3A	8/25/2015	14:14	24.29	224.84		
ZZI-MW3A	9/15/2015	12:45	24.95	224.18		
ZZI-MW3A	10/21/2015	16:30	Dry			
ZZI-MW3A	11/17/2015	7:49	Dry			
ZZI-MW3A	12/17/2015	12:13	Dry			
ZZI-MW3A	1/12/2016	12:24	Dry			
ZZI-MW3A	2/23/2016	7:51	Dry			
ZZI-MW3A	3/18/2016	12:38	Dry			
ZZI-MW3A	4/19/2016	13:15	Dry			
ZZI-MW3A	5/9/2016	14:50	Dry			
ZZI-MW3A	6/23/2016	9:40	24.48	224.65		
ZZI-MW3A	7/20/2016	9:42	Dry			
ZZI-MW3A	8/10/2016	6:49	Dry			
ZZI-MW3A	9/29/2016	10:45	23.87	225.26		
ZZI-MW3A	10/27/2016	15:32	25.08	224.05		
ZZI-MW3A	11/10/2016	14:14	25.40	223.73		
ZZI-MW3A	12/22/2016	15:45	25.33	223.80		
ZZI-MW3A	1/5/2017	14:50	Dry			
ZZI-MW3A	2/1/2017		N/M			
ZZI-MW3A	3/30/2017	9:02	24.82	224.31		
ZZI-MW3A	4/19/2017	14:27	24.67	224.46		
ZZI-MW3A	5/18/2017	11:33	26.16	222.97		
ZZI-MW3A	6/6/2017	14:25	Dry			
ZZI-MW3A	7/14/2017	8:43	23.90	225.23		
ZZI-MW3A	8/23/2017	15:33	24.22	224.91		
ZZI-MW3A	9/12/2017	11:06	24.33	224.80		
ZZI-MW3A	10/17/2017	14:50	24.30	224.83		
ZZI-MW3A	11/28/2017	12:49	24.89	224.24		
ZZI-MW3A	12/22/2017	13:15	25.15	223.98		
ZZI-MW3A	1/11/2018	7:24	25.00	224.13		
ZZI-MW3A	2/22/2018	8:45	25.07	224.06		
ZZI-MW3A	3/21/2018	14:30	24.62	224.51		
ZZI-MW3A	4/25/2018	9:56	21.56	227.57		
ZZI-MW3A	5/29/2018	12:34	24.62	224.51		
ZZI-MW3A	6/13/2018	12:54	26.00	223.13		
ZZI-MW3A	7/18/2018	15:28	24.00	225.13		
ZZI-MW3A	8/8/2018	10:00	Dry			
ZZI-MW3A	9/26/2018		23.87	225.26		
ZZI-MW3A	10/30/2018	10:57	24.40	224.73		
ZZI-MW3A	11/27/2018	8:10	Dry			
ZZI-MW3A	12/27/2018	11:42	24.67	224.46		
ZZI-MW3A	1/10/2019	7:48	26.23	222.90		
ZZI-MW3A	2/21/2019	7:35	25.94	223.19		
ZZI-MW3A	3/28/2019	10:41	22.11	227.02		
ZZI-MW3A	4/17/2019	11:38	26.34	222.79		
ZZI-MW3A	5/22/2019	13:58	24.81	224.32		
ZZI-MW3A	6/12/2019	13:00	Dry			
ZZI-MW3A	7/17/2019	12:40	Dry			
ZZI-MW3A	8/14/2019	7:35	Dry			
ZZI-MW3A	9/14/2019	12:41	Dry			
ZZI-MW3A	10/29/2019	9:03	25.00	224.13		
ZZI-MW3A	11/21/2019	7:46	24.87	224.26		
ZZI-MW3A	12/12/2019	11:30	Dry			
ZZI-MW3AA	1/23/2013	9:25	Dry			
ZZI-MW3AA	2/14/2013	10:03	Dry			
ZZI-MW3AA	3/22/2013	9:40	Dry			
ZZI-MW3AA	4/24/2013	8:33	Dry			
ZZI-MW3AA	5/17/2013	6:45	Dry			
ZZI-MW3AA	6/21/2013	7:58	Dry			
ZZI-MW3AA	7/18/2013	7:44	Dry			
ZZI-MW3AA	8/15/2013	12:42	Dry			
ZZI-MW3AA	9/11/2013	16:33	Dry			
ZZI-MW3AA	10/24/2013	13:13	Dry			
ZZI-MW3AA	11/20/2013	8:30	Dry			
ZZI-MW3AA	12/27/2013	10:08	Dry			
ZZI-MW3AA	1/15/2014	12:05	Dry			
ZZI-MW3AA	2/19/2014	7:26	Dry			
ZZI-MW3AA	3/19/2014	16:34	Dry			
ZZI-MW3AA	4/15/2014	15:57	Dry			
ZZI-MW3AA	5/27/2014	13:43	Dry			
ZZI-MW3AA	6/12/2014	15:13	Dry			
ZZI-MW3AA	7/9/2014	13:17	Dry			
ZZI-MW3AA	8/19/2014	8:10	Dry			
ZZI-MW3AA	9/25/2014	7:27	Dry			
ZZI-MW3AA	10/22/2014	8:53	Dry			
ZZI-MW3AA	11/12/2014	14:14	Dry			
ZZI-MW3AA	12/17/2014	10:32	Dry			
ZZI-MW3AA	1/8/2015	15:27	Dry			
ZZI-MW3AA	2/24/2015	7:49	Dry			
ZZI-MW3AA	3/12/2015	13:42	Dry			
ZZI-MW3AA	4/21/2015	12:55	Dry			
ZZI-MW3AA	5/13/2015	7:50	Dry			
ZZI-MW3AA	6/11/2015	14:36	Dry			
ZZI-MW3AA	7/21/2015	12:25	Dry			
ZZI-MW3AA	8/25/2015	14:17	Dry			
ZZI-MW3AA	9/15/2015	12:48	Dry			
ZZI-MW3AA	10/21/2015	16:35	25.00	223.84		
ZZI-MW3AA	11/17/2015	7:53	Dry			
ZZI-MW3AA	12/17/2015	12:16	Dry			
ZZI-MW3AA	1/12/2016	12:27	Dry			
ZZI-MW3AA	2/23/2016	7:54	Dry			
ZZI-MW3AA	3/18/2016	12:40	Dry			
ZZI-MW3AA	4/19/2016	13:18	Dry			
ZZI-MW3AA	5/9/2016	14:48	Dry			
ZZI-MW3AA	6/23/2016	9:36	Dry			
ZZI-MW3AA	7/20/2016	9:39	Dry			
ZZI-MW3AA	8/10/2016	6:51	Dry			
ZZI-MW3AA	9/29/2016	10:40	Dry			
ZZI-MW3AA	10/27/2016	15:34	Dry			
ZZI-MW3AA	11/10/2016	14:15	Dry			
ZZI-MW3AA	12/22/2016	15:47	Dry			
ZZI-MW3AA	1/5/2017	14:55	Dry			
ZZI-MW3AA	2/1/2017		N/M			
ZZI-MW3AA	3/30/2017	9:00	Dry			
ZZI-MW3AA	4/19/2017	14:22	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ZZI-MW3AA	5/18/2017	11:29	Dry			
ZZI-MW3AA	6/6/2017	14:23	Dry			
ZZI-MW3AA	7/14/2017	8:43	Dry			
ZZI-MW3AA	8/23/2017	15:30	Dry			
ZZI-MW3AA	9/12/2017	11:04	Dry			
ZZI-MW3AA	10/17/2017	14:53	Dry			
ZZI-MW3AA	11/28/2017	12:51	Dry			
ZZI-MW3AA	12/22/2017	13:11	Dry			
ZZI-MW3AA	1/11/2018	7:26	Dry			
ZZI-MW3AA	2/22/2018	8:50	Dry			
ZZI-MW3AA	3/21/2018	14:25	Dry			
ZZI-MW3AA	4/25/2018	9:57	Dry			
ZZI-MW3AA	5/29/2018	12:32	Dry			
ZZI-MW3AA	6/13/2018	12:51	Dry			
ZZI-MW3AA	7/18/2018	15:27	Dry			
ZZI-MW3AA	8/8/2018	9:57	Dry			
ZZI-MW3AA	9/26/2018		Dry			
ZZI-MW3AA	10/30/2018	11:00	Dry			
ZZI-MW3AA	11/27/2018	8:12	Dry			
ZZI-MW3AA	12/27/2018	11:43	Dry			
ZZI-MW3AA	1/10/2019	7:50	Dry			
ZZI-MW3AA	2/21/2019	7:37	Dry			
ZZI-MW3AA	3/28/2019	10:39	Dry			
ZZI-MW3AA	4/17/2019	11:39	Dry			
ZZI-MW3AA	5/22/2019	13:59	Dry			
ZZI-MW3AA	6/12/2019	12:59	Dry			
ZZI-MW3AA	7/17/2019	12:37	Dry			
ZZI-MW3AA	8/14/2019	7:46	Dry			
ZZI-MW3AA	9/14/2019	12:44	Dry			
ZZI-MW3AA	10/29/2019	9:02	Dry			
ZZI-MW3AA	11/21/2019	7:45	Dry			
ZZI-MW3AA	12/12/2019	11:32	Dry			
ZZI-MW3B	1/23/2013	9:23	101.66	147.27		
ZZI-MW3B	2/14/2013	10:08	102.95	145.98		
ZZI-MW3B	3/22/2013	9:43	102.84	146.09		
ZZI-MW3B	4/24/2013	8:37	104.29	144.64		
ZZI-MW3B	5/17/2013	6:47	106.58	142.35		
ZZI-MW3B	6/21/2013	8:06	108.20	140.73		
ZZI-MW3B	7/18/2013	7:49	108.97	139.96		
ZZI-MW3B	8/15/2013	12:44	110.91	138.02		
ZZI-MW3B	9/11/2013	16:37	111.92	137.01		
ZZI-MW3B	10/24/2013	13:20	110.35	138.58		
ZZI-MW3B	11/20/2013	8:35	112.18	136.75		
ZZI-MW3B	12/27/2013	9:59	112.44	136.49		
ZZI-MW3B	1/15/2014	12:10	112.42	136.51		
ZZI-MW3B	2/19/2014	7:29	112.32	136.61		
ZZI-MW3B	3/19/2014	16:40	112.75	136.18		
ZZI-MW3B	4/15/2014	16:00	113.34	135.59		
ZZI-MW3B	5/27/2014	13:46	114.92	134.01		
ZZI-MW3B	6/12/2014	15:20	115.50	133.43		
ZZI-MW3B	7/9/2014	13:20	116.53	132.40		
ZZI-MW3B	8/19/2014	8:14	117.89	131.04		
ZZI-MW3B	9/25/2014	7:30	118.57	130.36		
ZZI-MW3B	10/22/2014	8:56	119.10	129.83		
ZZI-MW3B	11/12/2014	14:17	119.11	129.82		
ZZI-MW3B	12/17/2014	10:30	119.02	129.91		
ZZI-MW3B	1/8/2015	15:31	118.55	130.38		
ZZI-MW3B	2/24/2015	7:52	119.57	129.36		
ZZI-MW3B	3/12/2015	13:49	119.44	129.49		
ZZI-MW3B	4/21/2015	13:01	119.91	129.02		
ZZI-MW3B	5/13/2015	7:54	120.58	128.35		
ZZI-MW3B	6/11/2015	14:39	120.91	128.02		
ZZI-MW3B	7/21/2015	12:30	122.31	126.62		
ZZI-MW3B	8/25/2015	14:20	123.30	125.63		
ZZI-MW3B	9/15/2015	12:51	123.90	125.03		
ZZI-MW3B	10/21/2015	16:40	124.40	124.53		
ZZI-MW3B	11/17/2015	7:45	124.78	124.15		
ZZI-MW3B	12/17/2015	12:19	124.36	124.57		
ZZI-MW3B	1/12/2016	12:30	124.09	124.84		
ZZI-MW3B	2/23/2016	7:57	123.72	125.21		
ZZI-MW3B	3/18/2016	12:42	124.33	124.60		
ZZI-MW3B	4/19/2016	13:21	124.86	124.07		
ZZI-MW3B	5/9/2016	14:46	125.43	123.50		
ZZI-MW3B	6/23/2016	9:43	126.10	122.83		
ZZI-MW3B	7/20/2016	9:45	126.85	122.08		
ZZI-MW3B	8/10/2016	6:53	127.61	121.32		
ZZI-MW3B	9/29/2016	10:35	121.76	127.17		
ZZI-MW3B	10/27/2016	15:35	129.42	119.51		
ZZI-MW3B	11/10/2016	14:16	129.50	119.43		
ZZI-MW3B	12/22/2016	15:49	129.30	119.63		
ZZI-MW3B	1/5/2017	15:00	Dry			
ZZI-MW3B	2/1/2017		N/M			
ZZI-MW3B	3/30/2017	9:05	128.31	120.62		
ZZI-MW3B	4/19/2017	14:18	128.01	120.92		
ZZI-MW3B	5/18/2017	11:35	Dry			
ZZI-MW3B	6/6/2017	14:27	Dry			
ZZI-MW3B	7/14/2017	8:46	125.60	123.33		
ZZI-MW3B	8/23/2017	15:36	123.41	125.52		
ZZI-MW3B	9/12/2017	11:08	121.93	127.00		
ZZI-MW3B	10/17/2017	14:56	118.70	130.23		
ZZI-MW3B	11/28/2017	12:53	119.47	129.46		
ZZI-MW3B	12/22/2017	13:09	119.69	129.24		
ZZI-MW3B	1/11/2018	7:28	111.63	137.30		
ZZI-MW3B	2/22/2018	8:55	109.86	139.07		
ZZI-MW3B	3/21/2018	14:35	109.00	139.93		
ZZI-MW3B	4/25/2018	9:58	109.91	139.02		
ZZI-MW3B	5/29/2018	12:30	109.05	139.88		
ZZI-MW3B	6/13/2018	12:49	112.10	136.83		
ZZI-MW3B	7/18/2018	15:26	110.51	138.42		
ZZI-MW3B	8/8/2018	9:55	112.19	136.74		
ZZI-MW3B	9/26/2018		111.65	137.28		
ZZI-MW3B	10/30/2018	11:03	111.83	137.10		
ZZI-MW3B	11/27/2018	8:14	111.54	137.39		
ZZI-MW3B	12/27/2018	11:44	111.17	137.76		
ZZI-MW3B	1/10/2019	7:52	111.36	137.57		
ZZI-MW3B	2/21/2019	7:39	108.50	140.43		
ZZI-MW3B	3/28/2019	10:43	102.53	146.40		
ZZI-MW3B	4/17/2019	11:40	113.81	135.12		
ZZI-MW3B	5/22/2019	14:00	109.88	139.05		
ZZI-MW3B	6/12/2019	12:58	109.44	139.49		
ZZI-MW3B	7/17/2019	12:43	109.14	139.79		
ZZI-MW3B	8/14/2019	7:38	109.00	139.93		
ZZI-MW3B	9/14/2019	12:46	108.81	140.12		
ZZI-MW3B	10/29/2019	9:04	110.94	137.99		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ZZI-MW3B	11/21/2019	7:47	107.41	141.52		
ZZI-MW3B	12/12/2019	11:34	109.00	139.93		
ZZI-MW5A	1/23/2013	9:36	Dry			
ZZI-MW5A	2/14/2013	9:01	Dry			
ZZI-MW5A	3/22/2013	7:30	Dry			
ZZI-MW5A	4/24/2013	9:00	Dry			
ZZI-MW5A	5/17/2013	6:48	Dry			
ZZI-MW5A	6/21/2013	8:11	Dry			
ZZI-MW5A	7/18/2013	8:12	Dry			
ZZI-MW5A	8/15/2013	13:00	Dry			
ZZI-MW5A	9/11/2013	17:00	Dry			
ZZI-MW5A	10/24/2013	13:28	Dry			
ZZI-MW5A	11/20/2013	7:58	Dry			
ZZI-MW5A	12/27/2013	10:58	Dry			
ZZI-MW5A	1/15/2014	12:50	Dry			
ZZI-MW5A	2/19/2014	7:49	Dry			
ZZI-MW5A	3/19/2014	16:46	Dry			
ZZI-MW5A	4/15/2014	16:07	Dry			
ZZI-MW5A	5/27/2014	13:51	Dry			
ZZI-MW5A	6/12/2014	15:37	Dry			
ZZI-MW5A	7/9/2014	13:34	Dry			
ZZI-MW5A	8/19/2014	9:16	Dry			
ZZI-MW5A	9/25/2014	8:09	Dry			
ZZI-MW5A	10/22/2014	9:15	70.10	176.60		
ZZI-MW5A	11/12/2014	14:53	Dry			
ZZI-MW5A	12/17/2014	10:47	Dry			
ZZI-MW5A	1/8/2015	15:36	Dry			
ZZI-MW5A	2/24/2015	7:17	Dry			
ZZI-MW5A	3/12/2015	14:34	Dry			
ZZI-MW5A	4/21/2015	13:24	Dry			
ZZI-MW5A	5/13/2015	7:09	Dry			
ZZI-MW5A	6/11/2015	14:55	Dry			
ZZI-MW5A	7/21/2015	11:27	Dry			
ZZI-MW5A	8/25/2015	13:49	Dry			
ZZI-MW5A	9/15/2015	12:59	Dry			
ZZI-MW5A	10/21/2015	17:20	Dry			
ZZI-MW5A	11/17/2015	8:00	Dry			
ZZI-MW5A	12/17/2015	12:52	Dry			
ZZI-MW5A	1/12/2016	13:08	Dry			
ZZI-MW5A	2/23/2016	7:34	Dry			
ZZI-MW5A	3/18/2016	12:56	Dry			
ZZI-MW5A	4/19/2016	13:31	Dry			
ZZI-MW5A	5/9/2016	14:12	Dry			
ZZI-MW5A	6/23/2016	10:16	Dry			
ZZI-MW5A	7/20/2016	10:29	Dry			
ZZI-MW5A	8/10/2016	6:58	Dry			
ZZI-MW5A	9/29/2016	11:20	Dry			
ZZI-MW5A	10/27/2016	15:40	Dry			
ZZI-MW5A	11/10/2016	14:20	Dry			
ZZI-MW5A	12/22/2016	16:05	Dry			
ZZI-MW5A	1/5/2017	14:13	Dry			
ZZI-MW5A	2/1/2017		N/M			
ZZI-MW5A	3/30/2017	10:15	Dry			
ZZI-MW5A	4/19/2017	15:08	Dry			
ZZI-MW5A	5/18/2017	11:53	Dry			
ZZI-MW5A	6/6/2017	14:51	Dry			
ZZI-MW5A	7/14/2017	9:07	Dry			
ZZI-MW5A	8/23/2017	15:32	Dry			
ZZI-MW5A	9/12/2017	11:29	Dry			
ZZI-MW5A	10/17/2017	15:09	Dry			
ZZI-MW5A	11/28/2017	13:11	Dry			
ZZI-MW5A	12/22/2017	13:35	Dry			
ZZI-MW5A	1/11/2018	7:47	Dry			
ZZI-MW5A	2/22/2018	9:20	Dry			
ZZI-MW5A	3/21/2018	15:00	Dry			
ZZI-MW5A	4/25/2018	7:31	Dry			
ZZI-MW5A	5/29/2018	11:53	Dry			
ZZI-MW5A	6/13/2018	13:13	Dry			
ZZI-MW5A	7/18/2018	14:45	Dry			
ZZI-MW5A	8/8/2018	10:20	Dry			
ZZI-MW5A	9/26/2018	15:51	Dry			
ZZI-MW5A	10/30/2018	11:35	Dry			
ZZI-MW5A	11/27/2018	7:30	Dry			
ZZI-MW5A	12/27/2018	11:04	Dry			
ZZI-MW5A	1/10/2019	8:12	Dry			
ZZI-MW5A	2/21/2019	7:56	Dry			
ZZI-MW5A	3/28/2019	11:06	Dry			
ZZI-MW5A	4/17/2019	11:55	Dry			
ZZI-MW5A	5/22/2019	13:35	Dry			
ZZI-MW5A	6/12/2019	12:01	Dry			
ZZI-MW5A	7/17/2019	13:23	Dry			
ZZI-MW5A	8/14/2019	7:05	Dry			
ZZI-MW5A	9/14/2019	13:10	Dry			
ZZI-MW5A	10/29/2019	9:35	Dry			
ZZI-MW5A	11/21/2019	7:44	Dry			
ZZI-MW5A	12/12/2019	11:49	Dry			
ZZI-MW5B	1/23/2013	9:30	Dry			
ZZI-MW5B	2/14/2013	9:04	Dry			
ZZI-MW5B	3/22/2013	7:34	Dry			
ZZI-MW5B	4/24/2013	9:03	Dry			
ZZI-MW5B	5/17/2013	6:49	Dry			
ZZI-MW5B	6/21/2013	8:38	Dry			
ZZI-MW5B	7/18/2013	8:15	Dry			
ZZI-MW5B	8/15/2013	13:02	Dry			
ZZI-MW5B	9/11/2013	17:04	Dry			
ZZI-MW5B	10/24/2013	13:31	Dry			
ZZI-MW5B	11/20/2013	8:01	Dry			
ZZI-MW5B	12/27/2013	10:48	Dry			
ZZI-MW5B	1/15/2014	12:54	Dry			
ZZI-MW5B	2/19/2014	7:52	Dry			
ZZI-MW5B	3/19/2014	16:49	Dry			
ZZI-MW5B	4/15/2014	16:10	Dry			
ZZI-MW5B	5/27/2014	13:54	Dry			
ZZI-MW5B	6/12/2014	15:40	Dry			
ZZI-MW5B	7/9/2014	13:37	Dry			
ZZI-MW5B	8/19/2014	9:21	Dry			
ZZI-MW5B	9/25/2014	8:12	Dry			
ZZI-MW5B	10/22/2014	9:18	Dry			
ZZI-MW5B	11/12/2014	14:55	Dry			
ZZI-MW5B	12/17/2014	10:49	Dry			
ZZI-MW5B	1/8/2015	15:39	Dry			
ZZI-MW5B	2/24/2015	7:21	Dry			
ZZI-MW5B	3/12/2015	14:36	Dry			
ZZI-MW5B	4/21/2015	13:27	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ZZI-MW5B	5/13/2015	7:12	Dry			
ZZI-MW5B	6/11/2015	14:58	Dry			
ZZI-MW5B	7/21/2015	11:31	Dry			
ZZI-MW5B	8/25/2015	13:52	Dry			
ZZI-MW5B	9/15/2015	13:02	Dry			
ZZI-MW5B	10/21/2015	17:28	Dry			
ZZI-MW5B	11/17/2015	8:05	Dry			
ZZI-MW5B	12/17/2015	12:55	Dry			
ZZI-MW5B	1/12/2016	13:11	Dry			
ZZI-MW5B	2/23/2016	7:37	Dry			
ZZI-MW5B	3/18/2016	12:58	Dry			
ZZI-MW5B	4/19/2016	13:34	Dry			
ZZI-MW5B	5/9/2016	14:14	Dry			
ZZI-MW5B	6/23/2016	10:20	Dry			
ZZI-MW5B	7/20/2016	10:33	Dry			
ZZI-MW5B	8/10/2016	7:00	Dry			
ZZI-MW5B	9/29/2016	11:23	Dry			
ZZI-MW5B	10/27/2016	15:42	Dry			
ZZI-MW5B	11/10/2016	14:21	Dry			
ZZI-MW5B	12/22/2016	16:07	Dry			
ZZI-MW5B	1/5/2017	14:20	Dry			
ZZI-MW5B	2/1/2017		N/M			
ZZI-MW5B	3/30/2017	10:18	Dry			
ZZI-MW5B	4/19/2017	14:55	Dry			
ZZI-MW5B	5/18/2017	11:55	Dry			
ZZI-MW5B	6/6/2017	14:53	Dry			
ZZI-MW5B	7/14/2017	9:09	Dry			
ZZI-MW5B	8/23/2017	15:35	Dry			
ZZI-MW5B	9/12/2017	11:31	Dry			
ZZI-MW5B	10/17/2017	15:11	Dry			
ZZI-MW5B	11/28/2017	13:13	Dry			
ZZI-MW5B	12/22/2017	13:37	Dry			
ZZI-MW5B	1/11/2018	7:49	Dry			
ZZI-MW5B	2/22/2018	9:25	Dry			
ZZI-MW5B	3/21/2018	15:03	Dry			
ZZI-MW5B	4/25/2018	7:32	Dry			
ZZI-MW5B	5/29/2018	11:55	Dry			
ZZI-MW5B	6/13/2018	13:15	Dry			
ZZI-MW5B	7/18/2018	14:47	Dry			
ZZI-MW5B	8/8/2018	10:13	Dry			
ZZI-MW5B	9/26/2018	15:54	Dry			
ZZI-MW5B	10/30/2018	11:37	Dry			
ZZI-MW5B	11/27/2018	7:31	Dry			
ZZI-MW5B	12/27/2018	11:05	Dry			
ZZI-MW5B	1/10/2019	8:14	Dry			
ZZI-MW5B	2/21/2019	7:58	Dry			
ZZI-MW5B	3/28/2019	11:03	Dry			
ZZI-MW5B	4/17/2019	11:58	Dry			
ZZI-MW5B	5/22/2019	13:36	Dry			
ZZI-MW5B	6/12/2019	12:03	Dry			
ZZI-MW5B	7/17/2019	13:12	Dry			
ZZI-MW5B	8/14/2019	7:09	Dry			
ZZI-MW5B	9/14/2019	13:12	Dry			
ZZI-MW5B	10/29/2019	9:37	Dry			
ZZI-MW5B	11/21/2019	7:46	Dry			
ZZI-MW5B	12/12/2019	11:51	Dry			
ZZI-MW5C	1/23/2013	9:32	104.64	142.79		
ZZI-MW5C	2/14/2013	9:09	105.49	141.94		
ZZI-MW5C	3/22/2013	7:37	106.98	140.45		
ZZI-MW5C	4/24/2013	9:07	106.99	140.44		
ZZI-MW5C	5/17/2013	6:51	109.49	137.94		
ZZI-MW5C	6/21/2013	8:39	111.19	136.24		
ZZI-MW5C	7/18/2013	8:18	111.98	135.45		
ZZI-MW5C	8/15/2013	13:04	113.89	133.54		
ZZI-MW5C	9/11/2013	17:09	114.43	133.00		
ZZI-MW5C	10/24/2013	13:33	114.48	132.95		
ZZI-MW5C	11/20/2013	8:04	115.10	132.33		
ZZI-MW5C	12/27/2013	10:50	115.53	131.90		
ZZI-MW5C	1/15/2014	12:56	115.45	131.98		
ZZI-MW5C	2/19/2014	7:55	115.60	131.83		
ZZI-MW5C	3/19/2014	16:52	114.39	133.04		
ZZI-MW5C	4/15/2014	16:13	116.17	131.26		
ZZI-MW5C	5/27/2014	13:57	Dry			
ZZI-MW5C	6/12/2014	15:42	118.05	129.38		
ZZI-MW5C	7/9/2014	13:40	118.92	128.51		
ZZI-MW5C	8/19/2014	9:24	Dry			
ZZI-MW5C	9/25/2014	8:15	Dry			
ZZI-MW5C	10/22/2014	9:21	Dry			
ZZI-MW5C	11/12/2014	14:57	Dry			
ZZI-MW5C	12/17/2014	10:51	Dry			
ZZI-MW5C	1/8/2015	15:41	Dry			
ZZI-MW5C	2/24/2015	7:24	Dry			
ZZI-MW5C	3/12/2015	14:39	Dry			
ZZI-MW5C	4/21/2015	13:29	Dry			
ZZI-MW5C	5/13/2015	7:16	Dry			
ZZI-MW5C	6/11/2015	15:01	Dry			
ZZI-MW5C	7/21/2015	11:35	Dry			
ZZI-MW5C	8/25/2015	13:54	Dry			
ZZI-MW5C	9/15/2015	13:04	Dry			
ZZI-MW5C	10/21/2015	17:35	Dry			
ZZI-MW5C	11/17/2015	8:10	Dry			
ZZI-MW5C	12/17/2015	12:58	Dry			
ZZI-MW5C	1/12/2016	13:14	Dry			
ZZI-MW5C	2/23/2016	7:40	Dry			
ZZI-MW5C	3/18/2016	13:00	Dry			
ZZI-MW5C	4/19/2016	13:37	Dry			
ZZI-MW5C	5/9/2016	14:16	Dry			
ZZI-MW5C	6/23/2016	10:23	Dry			
ZZI-MW5C	7/20/2016	10:36	Dry			
ZZI-MW5C	8/10/2016	7:02	Dry			
ZZI-MW5C	9/29/2016	11:27	Dry			
ZZI-MW5C	10/27/2016	15:43	Dry			
ZZI-MW5C	11/10/2016	14:22	119.88	127.55		
ZZI-MW5C	12/22/2016	16:09	119.32	128.11		
ZZI-MW5C	1/5/2017	14:26	117.13	130.30		
ZZI-MW5C	2/1/2017		N/M			
ZZI-MW5C	3/30/2017	10:20	119.06	128.37		
ZZI-MW5C	4/19/2017	14:59	Dry			
ZZI-MW5C	5/18/2017	11:56	Dry			
ZZI-MW5C	6/6/2017	14:55	Dry			
ZZI-MW5C	7/14/2017	9:13	Dry			
ZZI-MW5C	8/23/2017	15:36	Dry			
ZZI-MW5C	9/12/2017	11:33	Dry			
ZZI-MW5C	10/17/2017	15:13	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ZZI-MW5C	11/28/2017	13:15	Dry			
ZZI-MW5C	12/22/2017	13:39	Dry			
ZZI-MW5C	1/11/2018	7:51	Dry			
ZZI-MW5C	2/22/2018	9:30	118.81	128.62		
ZZI-MW5C	3/21/2018	15:08	118.00	129.43		
ZZI-MW5C	4/25/2018	7:33	116.95	130.48		
ZZI-MW5C	5/29/2018	11:58	115.60	131.83		
ZZI-MW5C	6/13/2018	13:17	Dry			
ZZI-MW5C	7/18/2018	14:48	115.62	131.81		
ZZI-MW5C	8/8/2018	10:15	Dry			
ZZI-MW5C	9/26/2018	15:57	116.54	130.89		
ZZI-MW5C	10/30/2018	11:35	116.71	130.72		
ZZI-MW5C	11/27/2018	7:32	116.60	130.83		
ZZI-MW5C	12/27/2018	11:06	116.40	131.03		
ZZI-MW5C	1/10/2019	8:16	Dry			
ZZI-MW5C	2/21/2019	7:59	Dry			
ZZI-MW5C	3/28/2019	11:02	113.39	134.04		
ZZI-MW5C	4/17/2019	11:59	118.66	128.77		
ZZI-MW5C	5/22/2019	13:37	111.29	136.14		
ZZI-MW5C	6/12/2019	12:04	114.83	132.60		
ZZI-MW5C	7/17/2019	13:14	114.98	132.45		
ZZI-MW5C	8/14/2019	7:11	113.00	134.43		
ZZI-MW5C	9/14/2019	13:15	114.76	132.67		
ZZI-MW5C	10/29/2019	9:39	115.00	132.43		
ZZI-MW5C	11/21/2019	7:47	114.42	133.01		
ZZI-MW5C	12/12/2019	11:53	113.97	133.46		
ZZI-MW5D	1/23/2013	9:34	104.85	142.36		
ZZI-MW5D	2/14/2013	9:13	106.39	140.82		
ZZI-MW5D	3/22/2013	7:40	106.94	140.27		
ZZI-MW5D	4/24/2013	9:10	107.45	139.76		
ZZI-MW5D	5/17/2013	6:53	109.57	137.64		
ZZI-MW5D	6/21/2013	8:42	111.24	135.97		
ZZI-MW5D	7/18/2013	8:21	112.04	135.17		
ZZI-MW5D	8/15/2013	13:06	113.90	133.31		
ZZI-MW5D	9/11/2013	17:14	114.48	132.73		
ZZI-MW5D	10/24/2013	13:37	114.49	132.72		
ZZI-MW5D	11/20/2013	8:07	115.05	132.16		
ZZI-MW5D	12/27/2013	10:52	115.40	131.81		
ZZI-MW5D	1/15/2014	13:00	115.34	131.87		
ZZI-MW5D	2/19/2014	7:58	115.52	131.69		
ZZI-MW5D	3/19/2014	16:55	115.60	131.61		
ZZI-MW5D	4/15/2014	16:16	115.95	131.26		
ZZI-MW5D	5/27/2014	14:00	123.73	123.48		
ZZI-MW5D	6/12/2014	15:45	117.78	129.43		
ZZI-MW5D	7/9/2014	13:42	118.67	128.54		
ZZI-MW5D	8/19/2014	9:27	120.08	127.13		
ZZI-MW5D	9/25/2014	8:18	120.94	126.27		
ZZI-MW5D	10/22/2014	9:24	121.53	125.68		
ZZI-MW5D	11/12/2014	15:00	121.59	125.62		
ZZI-MW5D	12/17/2014	10:53	121.55	125.66		
ZZI-MW5D	1/8/2015	15:44	121.13	126.08		
ZZI-MW5D	2/24/2015	7:26	121.87	125.34		
ZZI-MW5D	3/12/2015	14:41	122.08	125.13		
ZZI-MW5D	4/21/2015	13:31	122.35	124.86		
ZZI-MW5D	5/13/2015	7:20	122.84	124.37		
ZZI-MW5D	6/11/2015	15:03	125.51	121.70		
ZZI-MW5D	7/21/2015	11:39	124.25	122.96		
ZZI-MW5D	8/25/2015	13:56	125.42	121.79		
ZZI-MW5D	9/15/2015	13:06	125.90	121.31		
ZZI-MW5D	10/21/2015	17:40	123.51	123.70		
ZZI-MW5D	11/17/2015	8:15	126.94	120.27		
ZZI-MW5D	12/17/2015	13:01	126.90	120.31		
ZZI-MW5D	1/12/2016	13:17	126.48	120.73		
ZZI-MW5D	2/23/2016	7:43	126.04	121.17		
ZZI-MW5D	3/18/2016	13:02	126.41	120.80		
ZZI-MW5D	4/19/2016	13:40	126.72	120.49		
ZZI-MW5D	5/9/2016	14:18	127.20	120.01		
ZZI-MW5D	6/23/2016	10:25	128.74	118.47		
ZZI-MW5D	7/20/2016	10:39	Dry			
ZZI-MW5D	8/10/2016	7:04	Dry			
ZZI-MW5D	9/29/2016	11:31	123.98	123.23		
ZZI-MW5D	10/27/2016	15:45	Dry			
ZZI-MW5D	11/10/2016	14:23	125.31	121.90		
ZZI-MW5D	12/22/2016	16:11	129.30	117.91		
ZZI-MW5D	1/5/2017	14:31	126.45	120.76		
ZZI-MW5D	2/1/2017		N/M			
ZZI-MW5D	3/30/2017	10:23	128.64	118.57		
ZZI-MW5D	4/19/2017	13:04	128.98	118.23		
ZZI-MW5D	5/18/2017	11:58	128.87	118.34		
ZZI-MW5D	6/6/2017	14:57	126.43	120.78		
ZZI-MW5D	7/14/2017	9:10	127.51	119.70		
ZZI-MW5D	8/23/2017	15:38	128.96	118.25		
ZZI-MW5D	9/12/2017	11:35	126.68	120.53		
ZZI-MW5D	10/17/2017	15:15	125.38	121.83		
ZZI-MW5D	11/28/2017	13:17	126.00	121.21		
ZZI-MW5D	12/22/2017	13:41	128.10	119.11		
ZZI-MW5D	1/11/2018	7:53	122.18	125.03		
ZZI-MW5D	2/22/2018	9:35	119.92	127.29		
ZZI-MW5D	3/21/2018	15:13	118.24	128.97		
ZZI-MW5D	4/25/2018	7:34	116.07	131.14		
ZZI-MW5D	5/29/2018	12:00	115.66	131.55		
ZZI-MW5D	6/13/2018	13:20	124.10	123.11		
ZZI-MW5D	7/18/2018	14:49	115.49	131.72		
ZZI-MW5D	8/8/2018	10:17	124.24	122.97		
ZZI-MW5D	9/26/2018	16:00	116.42	130.79		
ZZI-MW5D	10/30/2018	11:41	116.61	130.60		
ZZI-MW5D	11/27/2018	7:33	116.62	130.59		
ZZI-MW5D	12/27/2018	11:07	116.30	130.91		
ZZI-MW5D	1/10/2019	8:15	116.38	130.83		
ZZI-MW5D	2/21/2019	8:00	120.13	127.08		
ZZI-MW5D	3/28/2019	11:04	121.81	125.40		
ZZI-MW5D	4/17/2019	11:57	120.22	126.99		
ZZI-MW5D	5/22/2019	13:38	115.00	132.21		
ZZI-MW5D	6/12/2019	12:05	114.77	132.44		
ZZI-MW5D	7/17/2019	13:19	114.82	132.39		
ZZI-MW5D	8/14/2019	7:13	114.78	132.43		
ZZI-MW5D	9/14/2019	13:17	114.63	132.58		
ZZI-MW5D	10/29/2019	9:40	114.80	132.41		
ZZI-MW5D	11/21/2019	7:48	114.33	132.88		
ZZI-MW5D	12/12/2019	11:55	113.89	133.32		
ZZI-MW6A	1/23/2013	9:37	Dry			
ZZI-MW6A	2/14/2013	9:21	Dry			
ZZI-MW6A	3/22/2013	8:15	Dry			
ZZI-MW6A	4/24/2013	9:16	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ZZI-MW6A	5/17/2013	6:55	Dry			
ZZI-MW6A	6/21/2013	8:45	Dry			
ZZI-MW6A	7/18/2013	8:30	Dry			
ZZI-MW6A	8/15/2013	13:10	Dry			
ZZI-MW6A	9/11/2013	17:20	Dry			
ZZI-MW6A	10/24/2013	12:42	Dry			
ZZI-MW6A	11/20/2013	8:12	Dry			
ZZI-MW6A	12/27/2013	10:33	Dry			
ZZI-MW6A	1/15/2014	12:29	Dry			
ZZI-MW6A	2/19/2014	8:05	Dry			
ZZI-MW6A	3/19/2014	17:00	Dry			
ZZI-MW6A	4/15/2014	16:21	Dry			
ZZI-MW6A	5/27/2014	14:05	Dry			
ZZI-MW6A	6/12/2014	15:24	Dry			
ZZI-MW6A	7/9/2014	13:44	Dry			
ZZI-MW6A	8/19/2014	9:38	Dry			
ZZI-MW6A	9/25/2014	7:54	Dry			
ZZI-MW6A	10/22/2014	9:30	Dry			
ZZI-MW6A	11/12/2014	14:38	Dry			
ZZI-MW6A	12/17/2014	10:57	Dry			
ZZI-MW6A	1/8/2015	15:48	Dry			
ZZI-MW6A	2/24/2015	7:04	Dry			
ZZI-MW6A	3/12/2015	14:45	Dry			
ZZI-MW6A	4/21/2015	13:35	Dry			
ZZI-MW6A	5/13/2015	6:48	Dry			
ZZI-MW6A	6/11/2015	14:42	Dry			
ZZI-MW6A	7/21/2015	11:47	Dry			
ZZI-MW6A	8/25/2015	13:36	Dry			
ZZI-MW6A	9/15/2015	13:12	Dry			
ZZI-MW6A	10/21/2015	17:45	Dry			
ZZI-MW6A	11/17/2015	8:20	Dry			
ZZI-MW6A	12/17/2015	12:38	Dry			
ZZI-MW6A	1/12/2016	13:22	Dry			
ZZI-MW6A	2/23/2016	7:19	Dry			
ZZI-MW6A	3/18/2016	13:07	Dry			
ZZI-MW6A	4/19/2016	13:45	Dry			
ZZI-MW6A	5/9/2016	14:24	Dry			
ZZI-MW6A	6/23/2016	10:35	Dry			
ZZI-MW6A	7/20/2016	10:46	Dry			
ZZI-MW6A	8/10/2016	7:09	Dry			
ZZI-MW6A	9/29/2016	11:40	Dry			
ZZI-MW6A	10/27/2016	15:49	Dry			
ZZI-MW6A	11/10/2016	14:26	Dry			
ZZI-MW6A	12/22/2016	16:17	Dry			
ZZI-MW6A	1/5/2017	14:10	Dry			
ZZI-MW6A	2/1/2017		N/M			
ZZI-MW6A	3/30/2017	10:37	Dry			
ZZI-MW6A	4/19/2017	15:16	Dry			
ZZI-MW6A	5/18/2017	12:03	Dry			
ZZI-MW6A	6/6/2017	15:04	Dry			
ZZI-MW6A	7/14/2017	9:18	Dry			
ZZI-MW6A	8/23/2017	15:44	Dry			
ZZI-MW6A	9/12/2017	11:39	Dry			
ZZI-MW6A	10/17/2017	15:20	Dry			
ZZI-MW6A	11/28/2017	13:24	Dry			
ZZI-MW6A	12/22/2017	13:49	Dry			
ZZI-MW6A	1/11/2018	7:59	Dry			
ZZI-MW6A	2/22/2018	9:40	Dry			
ZZI-MW6A	3/21/2018	15:30	Dry			
ZZI-MW6A	4/25/2018	7:41	Dry			
ZZI-MW6A	5/29/2018	12:06	Dry			
ZZI-MW6A	6/13/2018	13:27	Dry			
ZZI-MW6A	7/18/2018	14:53	Dry			
ZZI-MW6A	8/8/2018	10:25	Dry			
ZZI-MW6A	9/26/2018	16:08	Dry			
ZZI-MW6A	10/30/2018	11:21	Dry			
ZZI-MW6A	11/27/2018	7:40	Dry			
ZZI-MW6A	12/27/2018	11:16	Dry			
ZZI-MW6A	1/10/2019	8:22	Dry			
ZZI-MW6A	2/21/2019	8:11	Dry			
ZZI-MW6A	3/28/2019	11:12	Dry			
ZZI-MW6A	4/17/2019	12:04	Dry			
ZZI-MW6A	5/22/2019	13:24	Dry			
ZZI-MW6A	6/12/2019	11:50	Dry			
ZZI-MW6A	7/17/2019	13:35	Dry			
ZZI-MW6A	8/14/2019	6:53	Dry			
ZZI-MW6A	9/14/2019	13:22	Dry			
ZZI-MW6A	10/29/2019	9:47	Dry			
ZZI-MW6A	11/21/2019	7:11	Dry			
ZZI-MW6A	12/12/2019	11:58	Dry			
ZZI-MW6B	1/23/2013	9:39	Dry			
ZZI-MW6B	2/14/2013	9:24	Dry			
ZZI-MW6B	3/22/2013	8:18	Dry			
ZZI-MW6B	4/24/2013	9:19	Dry			
ZZI-MW6B	5/17/2013	6:56	Dry			
ZZI-MW6B	6/21/2013	8:50	Dry			
ZZI-MW6B	7/18/2013	8:33	Dry			
ZZI-MW6B	8/15/2013	13:12	Dry			
ZZI-MW6B	9/11/2013	17:23	Dry			
ZZI-MW6B	10/24/2013	12:45	Dry			
ZZI-MW6B	11/20/2013	8:15	Dry			
ZZI-MW6B	12/27/2013	10:38	Dry			
ZZI-MW6B	1/15/2014	12:32	Dry			
ZZI-MW6B	2/19/2014	8:08	Dry			
ZZI-MW6B	3/19/2014	17:03	Dry			
ZZI-MW6B	4/15/2014	16:24	Dry			
ZZI-MW6B	5/27/2014	14:07	Dry			
ZZI-MW6B	6/12/2014	15:28	Dry			
ZZI-MW6B	7/9/2014	13:46	Dry			
ZZI-MW6B	8/19/2014	9:41	Dry			
ZZI-MW6B	9/25/2014	7:57	Dry			
ZZI-MW6B	10/22/2014	9:33	Dry			
ZZI-MW6B	11/12/2014	14:42	Dry			
ZZI-MW6B	12/17/2014	10:59	Dry			
ZZI-MW6B	1/8/2015	15:51	Dry			
ZZI-MW6B	2/24/2015	7:08	Dry			
ZZI-MW6B	3/12/2015	14:48	Dry			
ZZI-MW6B	4/21/2015	13:37	Dry			
ZZI-MW6B	5/13/2015	6:52	Dry			
ZZI-MW6B	6/11/2015	14:45	Dry			
ZZI-MW6B	7/21/2015	11:54	Dry			
ZZI-MW6B	8/25/2015	13:38	Dry			
ZZI-MW6B	9/15/2015	13:14	Dry			
ZZI-MW6B	10/21/2015	17:50	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ZZI-MW6B	11/17/2015	8:25	Dry			
ZZI-MW6B	12/17/2015	12:41	Dry			
ZZI-MW6B	1/12/2016	13:25	Dry			
ZZI-MW6B	2/23/2016	7:22	Dry			
ZZI-MW6B	3/18/2016	13:09	Dry			
ZZI-MW6B	4/19/2016	13:48	Dry			
ZZI-MW6B	5/9/2016	14:26	Dry			
ZZI-MW6B	6/23/2016	10:39	Dry			
ZZI-MW6B	7/20/2016	10:50	Dry			
ZZI-MW6B	8/10/2016	7:11	Dry			
ZZI-MW6B	9/29/2016	11:50	Dry			
ZZI-MW6B	10/27/2016	15:50	90.01	158.69		
ZZI-MW6B	11/10/2016	14:27	Dry			
ZZI-MW6B	12/22/2016	16:19	Dry			
ZZI-MW6B	1/5/2017	14:17	Dry			
ZZI-MW6B	2/1/2017		N/M			
ZZI-MW6B	3/30/2017	10:30	Dry			
ZZI-MW6B	4/19/2017	15:20	Dry			
ZZI-MW6B	5/18/2017	12:05	Dry			
ZZI-MW6B	6/6/2017	15:06	Dry			
ZZI-MW6B	7/14/2017	9:18	Dry			
ZZI-MW6B	8/23/2017	15:47	Dry			
ZZI-MW6B	9/12/2017	11:41	Dry			
ZZI-MW6B	10/17/2017	15:22	Dry			
ZZI-MW6B	11/28/2017	13:26	Dry			
ZZI-MW6B	12/22/2017	13:52	Dry			
ZZI-MW6B	1/11/2018	8:01	Dry			
ZZI-MW6B	2/22/2018	9:45	Dry			
ZZI-MW6B	3/21/2018	15:27	Dry			
ZZI-MW6B	4/25/2018	7:42	Dry			
ZZI-MW6B	5/29/2018	12:08	Dry			
ZZI-MW6B	6/13/2018	13:29	Dry			
ZZI-MW6B	7/18/2018	14:54	Dry			
ZZI-MW6B	8/8/2018	10:27	Dry			
ZZI-MW6B	9/26/2018	16:11	Dry			
ZZI-MW6B	10/30/2018	11:24	Dry			
ZZI-MW6B	11/27/2018	7:41	Dry			
ZZI-MW6B	12/27/2018	11:17	Dry			
ZZI-MW6B	1/10/2019	8:23	Dry			
ZZI-MW6B	2/21/2019	8:07	Dry			
ZZI-MW6B	3/28/2019	11:15	Dry			
ZZI-MW6B	4/17/2019	12:05	Dry			
ZZI-MW6B	5/22/2019	13:25	Dry			
ZZI-MW6B	6/12/2019	11:53	Dry			
ZZI-MW6B	7/17/2019	13:38	Dry			
ZZI-MW6B	8/14/2019	6:51	Dry			
ZZI-MW6B	9/14/2019	13:26	Dry			
ZZI-MW6B	10/29/2019	9:49	Dry			
ZZI-MW6B	11/21/2019	7:13	Dry			
ZZI-MW6B	12/12/2019	12:00	Dry			
ZZI-MW6C	1/23/2013	9:40	105.41	143.27		
ZZI-MW6C	2/14/2013	9:29	106.33	142.35		
ZZI-MW6C	3/22/2013	8:21	107.87	140.81		
ZZI-MW6C	4/24/2013	9:22	107.51	141.17		
ZZI-MW6C	5/17/2013	6:57	108.78	139.90		
ZZI-MW6C	6/21/2013	8:55	Dry			
ZZI-MW6C	7/18/2013	8:37	Dry			
ZZI-MW6C	8/15/2013	13:13	Dry			
ZZI-MW6C	9/11/2013	17:25	Dry			
ZZI-MW6C	10/24/2013	12:47	106.89	141.79		
ZZI-MW6C	11/20/2013	8:17	Dry			
ZZI-MW6C	12/27/2013	10:40	Dry			
ZZI-MW6C	1/15/2014	12:36	Dry			
ZZI-MW6C	2/19/2014	8:11	Dry			
ZZI-MW6C	3/19/2014	17:06	Dry			
ZZI-MW6C	4/15/2014	16:27	Dry			
ZZI-MW6C	5/27/2014	14:10	Dry			
ZZI-MW6C	6/12/2014	15:31	Dry			
ZZI-MW6C	7/9/2014	13:49	Dry			
ZZI-MW6C	8/19/2014	9:43	Dry			
ZZI-MW6C	9/25/2014	8:00	Dry			
ZZI-MW6C	10/22/2014	9:36	Dry			
ZZI-MW6C	11/12/2014	14:45	Dry			
ZZI-MW6C	12/17/2014	11:01	Dry			
ZZI-MW6C	1/8/2015	15:54	Dry			
ZZI-MW6C	2/24/2015	7:10	Dry			
ZZI-MW6C	3/12/2015	14:50	Dry			
ZZI-MW6C	4/21/2015	13:43	Dry			
ZZI-MW6C	5/13/2015	6:56	Dry			
ZZI-MW6C	6/11/2015	14:47	Dry			
ZZI-MW6C	7/21/2015	11:58	Dry			
ZZI-MW6C	8/25/2015	13:40	Dry			
ZZI-MW6C	9/15/2015	13:16	Dry			
ZZI-MW6C	10/21/2015	17:55	Dry			
ZZI-MW6C	11/17/2015	8:30	Dry			
ZZI-MW6C	12/17/2015	12:44	Dry			
ZZI-MW6C	1/12/2016	13:28	Dry			
ZZI-MW6C	2/23/2016	7:25	Dry			
ZZI-MW6C	3/18/2016	13:11	Dry			
ZZI-MW6C	4/19/2016	13:51	Dry			
ZZI-MW6C	5/9/2016	14:28	Dry			
ZZI-MW6C	6/23/2016	10:41	Dry			
ZZI-MW6C	7/20/2016	10:53	Dry			
ZZI-MW6C	8/10/2016	7:13	Dry			
ZZI-MW6C	9/29/2016	11:54	Dry			
ZZI-MW6C	10/27/2016	15:52	Dry			
ZZI-MW6C	11/10/2016	14:28	Dry			
ZZI-MW6C	12/22/2016	16:22	Dry			
ZZI-MW6C	1/5/2017	14:21	Dry			
ZZI-MW6C	2/1/2017		N/M			
ZZI-MW6C	3/30/2017	10:31	Dry			
ZZI-MW6C	4/19/2017	15:24	Dry			
ZZI-MW6C	5/18/2017	12:07	Dry			
ZZI-MW6C	6/6/2017	15:08	Dry			
ZZI-MW6C	7/14/2017	9:21	Dry			
ZZI-MW6C	8/23/2017	15:50	Dry			
ZZI-MW6C	9/12/2017	11:43	Dry			
ZZI-MW6C	10/17/2017	15:24	109.93	138.75		
ZZI-MW6C	11/28/2017	13:28	Dry			
ZZI-MW6C	12/22/2017	13:55	Dry			
ZZI-MW6C	1/11/2018	8:03	Dry			
ZZI-MW6C	2/22/2018	9:50	108.48	140.20		
ZZI-MW6C	3/21/2018	15:23				
ZZI-MW6C	4/25/2018	7:43	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ZZI-MW6C	5/29/2018	12:10	Dry			
ZZI-MW6C	6/13/2018	13:31	Dry			
ZZI-MW6C	7/18/2018	14:55	Dry			
ZZI-MW6C	8/8/2018	10:29	Dry			
ZZI-MW6C	9/26/2018	16:14	109.17	139.51		
ZZI-MW6C	10/30/2018	11:26	108.70	139.98		
ZZI-MW6C	11/27/2018	7:42	108.51	140.17		
ZZI-MW6C	12/27/2018	11:18	108.48	140.20		
ZZI-MW6C	1/10/2019	8:24	108.50	140.18		
ZZI-MW6C	2/21/2019	8:08	Dry			
ZZI-MW6C	3/28/2019	11:19	105.34	143.34		
ZZI-MW6C	4/17/2019	12:06	Dry			
ZZI-MW6C	5/22/2019	13:28	107.20	141.48		
ZZI-MW6C	6/12/2019	11:54	106.64	142.04		
ZZI-MW6C	7/17/2019	13:40	106.76	141.92		
ZZI-MW6C	8/14/2019	6:49	106.64	142.04		
ZZI-MW6C	9/14/2019	13:28	106.67	142.01		
ZZI-MW6C	10/29/2019	9:50	107.06	141.62		
ZZI-MW6C	11/21/2019	7:14	106.78	141.90		
ZZI-MW6C	12/12/2019	12:02	106.64	142.04		
ZZI-MW6D	1/23/2013	9:42	106.98	141.72		
ZZI-MW6D	2/14/2013	9:33	108.54	140.16		
ZZI-MW6D	3/22/2013	8:23	109.42	139.28		
ZZI-MW6D	4/24/2013	9:25	109.42	139.28		
ZZI-MW6D	5/17/2013	6:58	112.12	136.58		
ZZI-MW6D	6/21/2013	8:59	113.91	134.79		
ZZI-MW6D	7/18/2013	8:41	115.40	133.30		
ZZI-MW6D	8/15/2013	13:15	116.93	131.77		
ZZI-MW6D	9/11/2013	17:28	117.09	131.61		
ZZI-MW6D	10/24/2013	14:12	117.72	130.98		
ZZI-MW6D	11/20/2013	8:20	117.17	131.53		
ZZI-MW6D	12/27/2013	10:43	117.83	130.87		
ZZI-MW6D	1/15/2014	12:40	117.47	131.23		
ZZI-MW6D	2/19/2014	8:14	117.41	131.29		
ZZI-MW6D	3/19/2014	17:10	118.20	130.50		
ZZI-MW6D	4/15/2014	16:30	118.59	130.11		
ZZI-MW6D	5/27/2014	14:13	120.03	128.67		
ZZI-MW6D	6/12/2014	15:33	121.14	127.56		
ZZI-MW6D	7/9/2014	13:52	121.75	126.95		
ZZI-MW6D	8/19/2014	9:46	122.91	125.79		
ZZI-MW6D	9/25/2014	8:03	123.39	125.31		
ZZI-MW6D	10/22/2014	9:39	124.42	124.28		
ZZI-MW6D	11/12/2014	14:48	123.80	124.90		
ZZI-MW6D	12/17/2014	11:03	123.35	125.35		
ZZI-MW6D	1/8/2015	15:57	122.95	125.75		
ZZI-MW6D	2/24/2015	7:12	124.43	124.27		
ZZI-MW6D	3/12/2015	14:52	124.13	124.57		
ZZI-MW6D	4/21/2015	13:40	124.68	124.02		
ZZI-MW6D	5/13/2015	7:00	125.68	123.02		
ZZI-MW6D	6/11/2015	14:50	126.11	122.59		
ZZI-MW6D	7/21/2015	12:02	127.54	121.16		
ZZI-MW6D	8/25/2015	13:43	128.65	120.05		
ZZI-MW6D	9/15/2015	13:19	128.97	119.73		
ZZI-MW6D	10/21/2015	18:00	129.31	119.39		
ZZI-MW6D	11/17/2015	8:35	129.40	119.30		
ZZI-MW6D	12/17/2015	12:47	129.31	119.39		
ZZI-MW6D	1/12/2016	13:31	128.45	120.25		
ZZI-MW6D	2/23/2016	7:28	127.96	120.74		
ZZI-MW6D	3/18/2016	13:13	128.20	120.50		
ZZI-MW6D	4/19/2016	13:54	128.45	120.25		
ZZI-MW6D	5/9/2016	14:30	Dry			
ZZI-MW6D	6/23/2016	10:44	131.38	117.32		
ZZI-MW6D	7/20/2016	10:56	132.52	116.18		
ZZI-MW6D	8/10/2016	7:15	133.53	115.17		
ZZI-MW6D	9/29/2016	11:58	127.38	121.32		
ZZI-MW6D	10/27/2016	15:53	135.28	113.42		
ZZI-MW6D	11/10/2016	14:29	135.20	113.50		
ZZI-MW6D	12/22/2016	16:25	135.34	113.36		
ZZI-MW6D	1/5/2017	14:28	134.37	114.33		
ZZI-MW6D	2/1/2017		N/M			
ZZI-MW6D	3/30/2017	10:34	132.96	115.74		
ZZI-MW6D	4/19/2017	15:28	132.81	115.89		
ZZI-MW6D	5/18/2017	12:10	Dry			
ZZI-MW6D	6/6/2017	15:10	Dry			
ZZI-MW6D	7/14/2017	9:25	131.60	117.10		
ZZI-MW6D	8/23/2017	15:55	Dry			
ZZI-MW6D	9/12/2017	11:45	129.63	119.07		
ZZI-MW6D	10/17/2017	15:26	127.49	121.21		
ZZI-MW6D	11/28/2017	13:29	128.29	120.41		
ZZI-MW6D	12/22/2017	13:58	129.73	118.97		
ZZI-MW6D	1/11/2018	8:05	121.24	127.46		
ZZI-MW6D	2/22/2018	9:55	119.48	129.22		
ZZI-MW6D	3/21/2018	15:20	118.26	130.44		
ZZI-MW6D	4/25/2018	7:44	117.98	130.72		
ZZI-MW6D	5/29/2018	12:12	119.89	128.81		
ZZI-MW6D	6/13/2018	13:34	121.99	126.71		
ZZI-MW6D	7/18/2018	14:56	Q/M			
ZZI-MW6D	8/8/2018	10:31	122.04	126.66		
ZZI-MW6D	9/26/2018	16:17	120.31	128.39		
ZZI-MW6D	10/30/2018	11:28	120.20	128.50		
ZZI-MW6D	11/27/2018	7:43	119.50	129.20		
ZZI-MW6D	12/27/2018	11:20	118.77	129.93		
ZZI-MW6D	1/10/2019	8:25	112.70	136.00		
ZZI-MW6D	2/21/2019	8:09	119.66	129.04		
ZZI-MW6D	3/28/2019	11:17	121.39	127.31		
ZZI-MW6D	4/17/2019	12:07	119.31	129.39		
ZZI-MW6D	5/22/2019	13:29	117.53	131.17		
ZZI-MW6D	6/12/2019	11:55	117.29	131.41		
ZZI-MW6D	7/17/2019	13:43	117.83	130.87		
ZZI-MW6D	8/14/2019	6:49	118.27	130.43		
ZZI-MW6D	9/14/2019	13:30	117.74	130.96		
ZZI-MW6D	10/29/2019	9:51	117.88	130.82		
ZZI-MW6D	11/21/2019	7:15	116.61	132.09		
ZZI-MW6D	12/12/2019	12:04	117.79	130.91		
ZZI-MW7A	1/23/2013	9:50	Dry			
ZZI-MW7A	2/14/2013	9:40	Dry			
ZZI-MW7A	3/22/2013	8:57	Dry			
ZZI-MW7A	4/24/2013	8:45	Dry			
ZZI-MW7A	5/17/2013	6:10	Dry			
ZZI-MW7A	6/21/2013	8:15	Dry			
ZZI-MW7A	7/18/2013	7:55	Dry			
ZZI-MW7A	8/15/2013	12:48	Dry			
ZZI-MW7A	9/11/2013	16:44	Dry			
ZZI-MW7A	10/24/2013	13:45	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ZZI-MW7A	11/20/2013	7:17	Dry			
ZZI-MW7A	12/27/2013	10:26	Dry			
ZZI-MW7A	1/15/2014	12:12	Dry			
ZZI-MW7A	2/19/2014	7:34	Dry			
ZZI-MW7A	3/19/2014	17:13	Dry			
ZZI-MW7A	4/15/2014	16:37	Dry			
ZZI-MW7A	5/27/2014	14:20	Dry			
ZZI-MW7A	6/12/2014	15:56	Dry			
ZZI-MW7A	7/9/2014	13:23	Dry			
ZZI-MW7A	8/19/2014	8:53	Dry			
ZZI-MW7A	9/25/2014	7:36	Dry			
ZZI-MW7A	10/22/2014	9:00	Dry			
ZZI-MW7A	11/12/2014	14:23	Dry			
ZZI-MW7A	12/17/2014	10:44	Dry			
ZZI-MW7A	1/8/2015	16:02	Dry			
ZZI-MW7A	2/24/2015	7:33	Dry			
ZZI-MW7A	3/12/2015	13:55	Dry			
ZZI-MW7A	4/21/2015	13:07	Dry			
ZZI-MW7A	5/13/2015	7:28	Dry			
ZZI-MW7A	6/11/2015	15:10	Dry			
ZZI-MW7A	7/21/2015	12:03	Dry			
ZZI-MW7A	8/25/2015	14:01	Dry			
ZZI-MW7A	9/15/2015	13:29	Dry			
ZZI-MW7A	10/21/2015	16:15	Dry			
ZZI-MW7A	11/17/2015	7:40	Dry			
ZZI-MW7A	12/17/2015	12:25	Dry			
ZZI-MW7A	1/12/2016	12:54	Dry			
ZZI-MW7A	2/23/2016	7:47	Dry			
ZZI-MW7A	3/18/2016	12:46	Dry			
ZZI-MW7A	4/19/2016	14:30	Dry			
ZZI-MW7A	5/9/2016	15:24	Dry			
ZZI-MW7A	6/23/2016	9:55	Dry			
ZZI-MW7A	7/20/2016	11:06	Dry			
ZZI-MW7A	8/10/2016	7:21	Dry			
ZZI-MW7A	9/29/2016	0:10	Dry			
ZZI-MW7A	10/27/2016	16:00	Dry			
ZZI-MW7A	11/10/2016	14:34	Dry			
ZZI-MW7A	12/22/2016	15:52	Dry			
ZZI-MW7A	1/5/2017	14:11	Dry			
ZZI-MW7A	2/1/2017		N/M			
ZZI-MW7A	3/30/2017	9:34	Dry			
ZZI-MW7A	4/19/2017	14:34	Dry			
ZZI-MW7A	5/18/2017	11:43	Dry			
ZZI-MW7A	6/6/2017	14:13	Dry			
ZZI-MW7A	7/14/2017	8:54	Dry			
ZZI-MW7A	8/23/2017	15:35	Dry			
ZZI-MW7A	9/12/2017	11:25	Dry			
ZZI-MW7A	10/17/2017	14:58	Dry			
ZZI-MW7A	11/28/2017	12:59	Dry			
ZZI-MW7A	12/22/2017	13:21	Dry			
ZZI-MW7A	1/11/2018	7:34	Dry			
ZZI-MW7A	2/22/2018	9:00	Dry			
ZZI-MW7A	3/21/2018	14:40	Dry			
ZZI-MW7A	4/25/2018	10:08	Dry			
ZZI-MW7A	5/29/2018	12:21	Dry			
ZZI-MW7A	6/13/2018	13:00	Dry			
ZZI-MW7A	7/18/2018	15:10	Dry			
ZZI-MW7A	8/8/2018	10:08	Dry			
ZZI-MW7A	9/26/2018	16:27	Dry			
ZZI-MW7A	10/30/2018	11:07	Dry			
ZZI-MW7A	11/27/2018	7:59	Dry			
ZZI-MW7A	12/27/2018	11:30	Dry			
ZZI-MW7A	1/10/2019	7:59	Dry			
ZZI-MW7A	2/21/2019	7:48	Dry			
ZZI-MW7A	3/28/2019	10:54	Dry			
ZZI-MW7A	4/17/2019	11:50	Dry			
ZZI-MW7A	5/22/2019	13:46	Dry			
ZZI-MW7A	6/12/2019	12:27	Dry			
ZZI-MW7A	7/17/2019	12:51	Dry			
ZZI-MW7A	8/14/2019	7:26	Dry			
ZZI-MW7A	9/14/2019	12:59	Dry			
ZZI-MW7A	10/29/2019	9:20	Dry			
ZZI-MW7A	11/21/2019	7:39	Dry			
ZZI-MW7A	12/12/2019	11:38	Dry			
ZZI-MW7B	1/23/2013	9:52	101.30	145.17		
ZZI-MW7B	2/14/2013	9:43	101.94	144.53		
ZZI-MW7B	3/22/2013	9:00	102.94	143.53		
ZZI-MW7B	4/24/2013	8:48	103.46	143.01		
ZZI-MW7B	5/17/2013	6:12	105.22	141.25		
ZZI-MW7B	6/21/2013	8:22	106.66	139.81		
ZZI-MW7B	7/18/2013	7:58	108.12	138.35		
ZZI-MW7B	8/15/2013	12:50	109.51	136.96		
ZZI-MW7B	9/11/2013	16:47	109.55	136.92		
ZZI-MW7B	10/24/2013	13:48	110.52	135.95		
ZZI-MW7B	11/20/2013	7:20	111.33	135.14		
ZZI-MW7B	12/27/2013	10:16	111.46	135.01		
ZZI-MW7B	1/15/2014	12:16	111.53	134.94		
ZZI-MW7B	2/19/2014	7:37	111.86	134.61		
ZZI-MW7B	3/19/2014	17:17	111.72	134.75		
ZZI-MW7B	4/15/2014	16:40	Dry			
ZZI-MW7B	5/27/2014	14:23	Dry			
ZZI-MW7B	6/12/2014	16:00	Dry			
ZZI-MW7B	7/9/2014	13:25	Dry			
ZZI-MW7B	8/19/2014	8:57	Dry			
ZZI-MW7B	9/25/2014	7:39	Dry			
ZZI-MW7B	10/22/2014	9:03	Dry			
ZZI-MW7B	11/12/2014	14:25	Dry			
ZZI-MW7B	12/17/2014	10:46	Dry			
ZZI-MW7B	1/8/2015	16:06	Dry			
ZZI-MW7B	2/24/2015	7:36	Dry			
ZZI-MW7B	3/12/2015	13:58	Dry			
ZZI-MW7B	4/21/2015	13:10	Dry			
ZZI-MW7B	5/13/2015	7:31	Dry			
ZZI-MW7B	6/11/2015	15:13	Dry			
ZZI-MW7B	7/21/2015	12:07	Dry			
ZZI-MW7B	8/25/2015	14:04	Dry			
ZZI-MW7B	9/15/2015	13:32	Dry			
ZZI-MW7B	10/21/2015	16:20	Dry			
ZZI-MW7B	11/17/2015	7:45	Dry			
ZZI-MW7B	12/17/2015	12:28	Dry			
ZZI-MW7B	1/12/2016	12:57	Dry			
ZZI-MW7B	2/23/2016	7:50	Dry			
ZZI-MW7B	3/18/2016	12:48	Dry			
ZZI-MW7B	4/19/2016	14:33	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ZZI-MW7B	5/9/2016	15:26	Dry			
ZZI-MW7B	6/23/2016	9:59	Dry			
ZZI-MW7B	7/20/2016	11:09	Dry			
ZZI-MW7B	8/10/2016	7:23	Dry			
ZZI-MW7B	9/29/2016	0:13	Dry			
ZZI-MW7B	10/27/2016	16:02	Dry			
ZZI-MW7B	11/10/2016	14:35	Dry			
ZZI-MW7B	12/22/2016	15:55	Dry			
ZZI-MW7B	1/5/2017	14:16	Dry			
ZZI-MW7B	2/1/2017		N/M			
ZZI-MW7B	3/30/2017	9:37	Dry			
ZZI-MW7B	4/19/2017	14:38	Dry			
ZZI-MW7B	5/18/2017	11:45	Dry			
ZZI-MW7B	6/6/2017	14:15	Dry			
ZZI-MW7B	7/14/2017	8:55	Dry			
ZZI-MW7B	8/23/2017	15:39	Dry			
ZZI-MW7B	9/12/2017	11:18	Dry			
ZZI-MW7B	10/17/2017	15:00	Dry			
ZZI-MW7B	11/28/2017	13:01	Dry			
ZZI-MW7B	12/22/2017	13:23	Dry			
ZZI-MW7B	1/11/2018	7:36	Dry			
ZZI-MW7B	2/22/2018	9:05	111.07	135.40		
ZZI-MW7B	3/21/2018	14:45	110.22	136.25		
ZZI-MW7B	4/25/2018	10:09	109.41	137.06		
ZZI-MW7B	5/29/2018	12:23	109.10	137.37		
ZZI-MW7B	6/13/2018	13:03	Dry			
ZZI-MW7B	7/18/2018	15:11	109.90	136.57		
ZZI-MW7B	8/8/2018	10:04	Dry			
ZZI-MW7B	9/26/2018	16:30	Obs			
ZZI-MW7B	10/30/2018	11:53	Dry			
ZZI-MW7B	11/27/2018	8:00	Dry			
ZZI-MW7B	12/27/2018	11:31	Dry			
ZZI-MW7B	1/10/2019	8:00	Dry			
ZZI-MW7B	2/21/2019	7:44	Dry			
ZZI-MW7B	3/28/2019	10:53	Dry			
ZZI-MW7B	4/17/2019	11:48	Dry			
ZZI-MW7B	5/22/2019	13:47	Dry			
ZZI-MW7B	6/12/2019	12:23	109.45	137.02		
ZZI-MW7B	7/17/2019	12:53	109.01	137.46		
ZZI-MW7B	8/14/2019	7:24	109.94	136.53		
ZZI-MW7B	9/14/2019	12:50	108.98	137.49		
ZZI-MW7B	10/29/2019	9:22	108.78	137.69		
ZZI-MW7B	11/21/2019	7:37	108.23	138.24		
ZZI-MW7B	12/12/2019	11:40	107.70	138.77		
ZZI-MW7C	1/23/2013	9:54	101.38	145.12		
ZZI-MW7C	2/14/2013	9:46	102.23	144.27		
ZZI-MW7C	3/22/2013	9:03	103.39	143.11		
ZZI-MW7C	4/24/2013	8:51	103.91	142.59		
ZZI-MW7C	5/17/2013	6:13	105.80	140.70		
ZZI-MW7C	6/21/2013	8:26	107.45	139.05		
ZZI-MW7C	7/18/2013	8:02	108.90	137.60		
ZZI-MW7C	8/15/2013	12:52	110.26	136.24		
ZZI-MW7C	9/11/2013	16:50	109.90	136.60		
ZZI-MW7C	10/24/2013	13:51	110.48	136.02		
ZZI-MW7C	11/20/2013	7:25	111.56	134.94		
ZZI-MW7C	12/27/2013	10:18	111.88	134.62		
ZZI-MW7C	1/15/2014	12:20	111.82	134.68		
ZZI-MW7C	2/19/2014	7:40	111.98	134.52		
ZZI-MW7C	3/19/2014	17:20	112.11	134.39		
ZZI-MW7C	4/15/2014	16:43	112.66	133.84		
ZZI-MW7C	5/27/2014	14:25	114.61	131.89		
ZZI-MW7C	6/12/2014	16:03	114.64	131.86		
ZZI-MW7C	7/9/2014	13:27	116.64	129.86		
ZZI-MW7C	8/19/2014	9:01	116.87	129.63		
ZZI-MW7C	9/25/2014	7:42	117.61	128.89		
ZZI-MW7C	10/22/2014	9:06	118.24	128.26		
ZZI-MW7C	11/12/2014	14:27	118.15	128.35		
ZZI-MW7C	12/17/2014	10:48	118.10	128.40		
ZZI-MW7C	1/8/2015	16:09	117.64	128.86		
ZZI-MW7C	2/24/2015	7:38	118.72	127.78		
ZZI-MW7C	3/12/2015	14:01	118.56	127.94		
ZZI-MW7C	4/21/2015	13:12	119.01	127.49		
ZZI-MW7C	5/13/2015	7:35	119.73	126.77		
ZZI-MW7C	6/11/2015	15:17	120.01	126.49		
ZZI-MW7C	7/21/2015	12:13	121.40	125.10		
ZZI-MW7C	8/25/2015	14:06	122.41	124.09		
ZZI-MW7C	9/15/2015	13:35	122.99	123.51		
ZZI-MW7C	10/21/2015	16:25	120.91	125.59		
ZZI-MW7C	11/17/2015	7:50	123.79	122.71		
ZZI-MW7C	12/17/2015	12:31	123.49	123.01		
ZZI-MW7C	1/12/2016	13:00	123.18	123.32		
ZZI-MW7C	2/23/2016	7:52	122.73	123.77		
ZZI-MW7C	3/18/2016	12:50	123.29	123.21		
ZZI-MW7C	4/19/2016	14:36	123.66	122.84		
ZZI-MW7C	5/9/2016	15:28	124.40	122.10		
ZZI-MW7C	6/23/2016	10:03	125.35	121.15		
ZZI-MW7C	7/20/2016	11:12	126.33	120.17		
ZZI-MW7C	8/10/2016	7:25	127.23	119.27		
ZZI-MW7C	9/29/2016	0:17	120.87	125.63		
ZZI-MW7C	10/27/2016	16:03	Dry			
ZZI-MW7C	11/10/2016	14:36	Dry			
ZZI-MW7C	12/22/2016	15:57	Dry			
ZZI-MW7C	1/5/2017	14:19	Dry			
ZZI-MW7C	2/1/2017		N/M			
ZZI-MW7C	3/30/2017	9:39	Dry			
ZZI-MW7C	4/19/2017	14:42	Dry			
ZZI-MW7C	5/18/2017	11:47	Dry			
ZZI-MW7C	6/6/2017	14:17	Dry			
ZZI-MW7C	7/14/2017	8:57	125.78	120.72		
ZZI-MW7C	8/23/2017	15:42	124.15	122.35		
ZZI-MW7C	9/12/2017	11:20	122.84	123.66		
ZZI-MW7C	10/17/2017	15:02	119.98	126.52		
ZZI-MW7C	11/28/2017	13:03	120.46	126.04		
ZZI-MW7C	12/22/2017	13:25	121.03	125.47		
ZZI-MW7C	1/11/2018	7:38	113.43	133.07		
ZZI-MW7C	2/22/2018	9:10	111.03	135.47		
ZZI-MW7C	3/21/2018	14:50	110.45	136.05		
ZZI-MW7C	4/25/2018	10:10	110.19	136.31		
ZZI-MW7C	5/29/2018	12:25	110.12	136.38		
ZZI-MW7C	6/13/2018	13:05	114.16	132.34		
ZZI-MW7C	7/18/2018	15:12	111.55	134.95		
ZZI-MW7C	8/8/2018	10:06	114.25	132.25		
ZZI-MW7C	9/26/2018	16:31	112.51	133.99		
ZZI-MW7C	10/30/2018	11:12	112.52	133.98		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ZZI-MW7C	11/27/2018	8:01	112.13	134.37		
ZZI-MW7C	12/27/2018	11:32	111.60	134.90		
ZZI-MW7C	1/10/2019	8:02	111.67	134.83		
ZZI-MW7C	2/21/2019	7:45	111.38	135.12		
ZZI-MW7C	3/28/2019	10:50	116.14	130.36		
ZZI-MW7C	4/17/2019	11:46	117.44	129.06		
ZZI-MW7C	5/22/2019	13:48	110.38	136.12		
ZZI-MW7C	6/12/2019	12:24	110.15	136.35		
ZZI-MW7C	7/17/2019	12:55	110.04	136.46		
ZZI-MW7C	8/14/2019	7:21	110.13	136.37		
ZZI-MW7C	9/14/2019	12:54	110.01	136.49		
ZZI-MW7C	10/29/2019	9:23	109.47	137.03		
ZZI-MW7C	11/21/2019	7:36	Dry			
ZZI-MW7C	12/12/2019	11:42	108.98	137.52		
ZZI-MW7D	1/23/2013	9:56	101.41	145.11		
ZZI-MW7D	2/14/2013	9:51	102.32	144.20		
ZZI-MW7D	3/22/2013	9:05	103.45	143.07		
ZZI-MW7D	4/24/2013	8:54	103.95	142.57		
ZZI-MW7D	5/17/2013	6:14	105.84	140.68		
ZZI-MW7D	6/21/2013	8:30	107.54	138.98		
ZZI-MW7D	7/18/2013	8:05	108.96	137.56		
ZZI-MW7D	8/15/2013	12:54	110.30	136.22		
ZZI-MW7D	9/11/2013	16:52	109.87	136.65		
ZZI-MW7D	10/24/2013	13:37	110.51	136.01		
ZZI-MW7D	11/20/2013	7:26	111.60	134.92		
ZZI-MW7D	12/27/2013	10:21	111.92	134.60		
ZZI-MW7D	1/15/2014	12:22	111.84	134.68		
ZZI-MW7D	2/19/2014	7:43	111.73	134.79		
ZZI-MW7D	3/19/2014	17:23	112.23	134.29		
ZZI-MW7D	4/15/2014	16:46	112.69	133.83		
ZZI-MW7D	5/27/2014	14:28	114.66	131.86		
ZZI-MW7D	6/12/2014	16:06	114.76	131.76		
ZZI-MW7D	7/9/2014	13:29	115.61	130.91		
ZZI-MW7D	8/19/2014	9:04	116.89	129.63		
ZZI-MW7D	9/25/2014	7:45	117.64	128.88		
ZZI-MW7D	10/22/2014	9:09	118.31	128.21		
ZZI-MW7D	11/12/2014	14:30	118.17	128.35		
ZZI-MW7D	12/17/2014	10:40	118.10	128.42		
ZZI-MW7D	1/8/2015	16:12	117.65	128.87		
ZZI-MW7D	2/24/2015	7:40	118.80	127.72		
ZZI-MW7D	3/12/2015	14:05	118.58	127.94		
ZZI-MW7D	4/21/2015	13:15	119.05	127.47		
ZZI-MW7D	5/13/2015	7:39	119.76	126.76		
ZZI-MW7D	6/11/2015	15:20	120.03	126.49		
ZZI-MW7D	7/21/2015	12:17	121.42	125.10		
ZZI-MW7D	8/25/2015	14:08	122.43	124.09		
ZZI-MW7D	9/15/2015	13:38	123.03	123.49		
ZZI-MW7D	10/21/2015	16:30	126.57	119.95		
ZZI-MW7D	11/17/2015	7:55	123.82	122.70		
ZZI-MW7D	12/17/2015	12:34	123.51	123.01		
ZZI-MW7D	1/12/2016	13:03	123.13	123.39		
ZZI-MW7D	2/23/2016	7:54	122.72	123.80		
ZZI-MW7D	3/18/2016	12:52	123.31	123.21		
ZZI-MW7D	4/19/2016	14:39	123.64	122.88		
ZZI-MW7D	5/9/2016	15:30	124.50	122.02		
ZZI-MW7D	6/23/2016	10:07	125.42	121.10		
ZZI-MW7D	7/20/2016	11:15	126.42	120.10		
ZZI-MW7D	8/10/2016	7:27	127.29	119.23		
ZZI-MW7D	9/29/2016	0:20	122.11	124.41		
ZZI-MW7D	10/27/2016	16:04	129.57	116.95		
ZZI-MW7D	11/10/2016	14:37	129.31	117.21		
ZZI-MW7D	12/22/2016	16:00	128.88	117.64		
ZZI-MW7D	1/5/2017	14:25	128.95	117.57		
ZZI-MW7D	2/1/2017		N/M			
ZZI-MW7D	3/30/2017	9:42	127.81	118.71		
ZZI-MW7D	4/19/2017	14:47	127.56	118.96		
ZZI-MW7D	5/18/2017	11:49	Q/M			
ZZI-MW7D	6/6/2017	14:19	134.91	111.61		
ZZI-MW7D	7/14/2017	8:59	125.68	120.84		
ZZI-MW7D	8/23/2017	15:45	124.09	122.43		
ZZI-MW7D	9/12/2017	11:20	122.89	123.63		
ZZI-MW7D	10/17/2017	15:04	120.00	126.52		
ZZI-MW7D	11/28/2017	13:05	120.41	126.11		
ZZI-MW7D	12/22/2017	13:28	121.18	125.34		
ZZI-MW7D	1/11/2018	7:40	113.50	133.02		
ZZI-MW7D	2/22/2018	9:15	111.50	135.02		
ZZI-MW7D	3/21/2018	14:55	110.47	136.05		
ZZI-MW7D	4/25/2018	11:11	110.20	136.32		
ZZI-MW7D	5/29/2018	12:27	110.15	136.37		
ZZI-MW7D	6/13/2018	13:07	114.25	132.27		
ZZI-MW7D	7/18/2018	15:13	111.59	134.93		
ZZI-MW7D	8/8/2018	10:07	114.33	132.19		
ZZI-MW7D	9/26/2018	16:30	Obs			
ZZI-MW7D	10/30/2018	11:50	111.20	135.32		
ZZI-MW7D	11/27/2018	8:02	112.20	134.32		
ZZI-MW7D	12/27/2018	11:33	111.70	134.82		
ZZI-MW7D	1/10/2019	8:01	111.83	134.69		
ZZI-MW7D	2/21/2019	7:46	111.71	134.81		
ZZI-MW7D	3/28/2019	10:51	116.84	129.68		
ZZI-MW7D	4/17/2019	11:49	118.00	128.52		
ZZI-MW7D	5/22/2019	13:49	110.40	136.12		
ZZI-MW7D	6/12/2019	12:25	110.12	136.40		
ZZI-MW7D	7/17/2019	12:58	110.11	136.41		
ZZI-MW7D	8/14/2019	7:19	110.16	136.36		
ZZI-MW7D	9/14/2019	12:57	110.10	136.42		
ZZI-MW7D	10/29/2019	9:25	109.60	136.92		
ZZI-MW7D	11/21/2019	7:35	108.65	137.87		
ZZI-MW7D	12/12/2019	11:44	109.04	137.48		
ZZI-MW9A	1/23/2013	10:30	Dry			
ZZI-MW9A	2/14/2013	8:42	Dry			
ZZI-MW9A	3/22/2013	10:15	Dry			
ZZI-MW9A	4/24/2013	8:05	Dry			
ZZI-MW9A	5/17/2013	6:25	Dry			
ZZI-MW9A	6/21/2013	7:05	Dry			
ZZI-MW9A	7/18/2013	7:10	Dry			
ZZI-MW9A	8/15/2013	12:20	Dry			
ZZI-MW9A	9/11/2013	15:51	Dry			
ZZI-MW9A	10/24/2013	14:05	Dry			
ZZI-MW9A	11/20/2013	7:42	Dry			
ZZI-MW9A	12/27/2013	9:21	Dry			
ZZI-MW9A	1/15/2014	11:20	Dry			
ZZI-MW9A	2/19/2014	6:54	Dry			
ZZI-MW9A	3/19/2014	15:31	Dry			
ZZI-MW9A	4/15/2014	15:21	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ZZI-MW9A	5/27/2014	13:10	Dry			
ZZI-MW9A	6/12/2014	14:30	Dry			
ZZI-MW9A	7/9/2014	12:52	Dry			
ZZI-MW9A	8/19/2014	7:18	Dry			
ZZI-MW9A	9/25/2014	6:51	Dry			
ZZI-MW9A	10/22/2014	8:21	Dry			
ZZI-MW9A	11/12/2014	13:40	Dry			
ZZI-MW9A	12/17/2014	10:06	Dry			
ZZI-MW9A	1/8/2015	14:35	Dry			
ZZI-MW9A	2/24/2015	8:35	Dry			
ZZI-MW9A	3/12/2015	13:13	Dry			
ZZI-MW9A	4/21/2015	12:15	Dry			
ZZI-MW9A	5/13/2015	8:11	Dry			
ZZI-MW9A	6/11/2015	13:56	Dry			
ZZI-MW9A	7/21/2015	11:10	Dry			
ZZI-MW9A	8/25/2015	14:57	Dry			
ZZI-MW9A	9/15/2015	12:10	Dry			
ZZI-MW9A	10/21/2015	15:50	Dry			
ZZI-MW9A	11/17/2015	7:20	Dry			
ZZI-MW9A	12/17/2015	11:45	Dry			
ZZI-MW9A	1/12/2016	12:00	Dry			
ZZI-MW9A	2/23/2016	7:23	Dry			
ZZI-MW9A	3/18/2016	13:19	Dry			
ZZI-MW9A	4/19/2016	12:44	Dry			
ZZI-MW9A	5/9/2016	13:58	Dry			
ZZI-MW9A	6/23/2016	9:15	Dry			
ZZI-MW9A	7/20/2016	10:20	Dry			
ZZI-MW9A	8/10/2016	6:28	Dry			
ZZI-MW9A	9/29/2016	0:35	Dry			
ZZI-MW9A	10/27/2016	15:10	Dry			
ZZI-MW9A	11/10/2016	14:02	Dry			
ZZI-MW9A	12/22/2016	15:18	Dry			
ZZI-MW9A	1/5/2017	14:50	Dry			
ZZI-MW9A	2/1/2017		N/M			
ZZI-MW9A	3/30/2017	10:50	Dry			
ZZI-MW9A	4/19/2017	13:45	Dry			
ZZI-MW9A	5/18/2017	11:05	Dry			
ZZI-MW9A	6/6/2017	14:00	Dry			
ZZI-MW9A	7/14/2017	8:20	Dry			
ZZI-MW9A	8/23/2017	15:07	Dry			
ZZI-MW9A	9/12/2017	10:48	Dry			
ZZI-MW9A	10/17/2017	14:16	Dry			
ZZI-MW9A	11/28/2017	13:38	Dry			
ZZI-MW9A	12/22/2017	12:45	Dry			
ZZI-MW9A	1/11/2018	7:07	Dry			
ZZI-MW9A	2/22/2018	10:02	Dry			
ZZI-MW9A	3/21/2018	13:45	Dry			
ZZI-MW9A	4/25/2018	9:46	Dry			
ZZI-MW9A	5/29/2018	11:28	Dry			
ZZI-MW9A	6/13/2018	12:15	Dry			
ZZI-MW9A	7/18/2018	14:25	Dry			
ZZI-MW9A	8/8/2018	9:30	Dry			
ZZI-MW9A	9/26/2018	16:41	Dry			
ZZI-MW9A	10/30/2018	10:27	Dry			
ZZI-MW9A	11/27/2018	7:10	Dry			
ZZI-MW9A	12/27/2018	12:05	Dry			
ZZI-MW9A	1/10/2019	7:15	Dry			
ZZI-MW9A	2/21/2019	7:18	Dry			
ZZI-MW9A	3/28/2019	10:24	Dry			
ZZI-MW9A	4/17/2019	11:26	Dry			
ZZI-MW9A	5/22/2019	13:08	Dry			
ZZI-MW9A	6/12/2019	13:20	Dry			
ZZI-MW9A	7/17/2019	12:11	Dry			
ZZI-MW9A	8/14/2019	7:11	Dry			
ZZI-MW9A	9/14/2019	12:17	Dry			
ZZI-MW9A	10/29/2019	8:44	Dry			
ZZI-MW9A	11/21/2019	7:00	Dry			
ZZI-MW9A	12/12/2019	11:09	Dry			
ZZI-MW9B	1/23/2013	10:15	Dry			
ZZI-MW9B	2/14/2013	8:45	Dry			
ZZI-MW9B	3/22/2013	10:20	Dry			
ZZI-MW9B	4/24/2013	7:55	Dry			
ZZI-MW9B	5/17/2013	6:27	Dry			
ZZI-MW9B	6/21/2013	7:11	Dry			
ZZI-MW9B	7/18/2013	7:14	Dry			
ZZI-MW9B	8/15/2013	12:22	Dry			
ZZI-MW9B	9/11/2013	15:54	Dry			
ZZI-MW9B	10/24/2013	14:07	Dry			
ZZI-MW9B	11/20/2013	7:45	Dry			
ZZI-MW9B	12/27/2013	9:13	Dry			
ZZI-MW9B	1/15/2014	11:23	Dry			
ZZI-MW9B	2/19/2014	6:57	Dry			
ZZI-MW9B	3/19/2014	15:35	Dry			
ZZI-MW9B	4/15/2014	15:25	Dry			
ZZI-MW9B	5/27/2014	13:13	Dry			
ZZI-MW9B	6/12/2014	14:33	Dry			
ZZI-MW9B	7/9/2014	12:54	Dry			
ZZI-MW9B	8/19/2014	7:24	Dry			
ZZI-MW9B	9/25/2014	6:54	Dry			
ZZI-MW9B	10/22/2014	8:24	Dry			
ZZI-MW9B	11/12/2014	13:42	Dry			
ZZI-MW9B	12/17/2014	10:08	Dry			
ZZI-MW9B	1/8/2015	14:40	Dry			
ZZI-MW9B	2/24/2015	8:38	Dry			
ZZI-MW9B	3/12/2015	13:16	Dry			
ZZI-MW9B	4/21/2015	12:18	Dry			
ZZI-MW9B	5/13/2015	8:14	Dry			
ZZI-MW9B	6/11/2015	13:59	Dry			
ZZI-MW9B	7/21/2015	11:14	Dry			
ZZI-MW9B	8/25/2015	15:00	Dry			
ZZI-MW9B	9/15/2015	12:13	Dry			
ZZI-MW9B	10/21/2015	15:55	Dry			
ZZI-MW9B	11/17/2015	7:25	Dry			
ZZI-MW9B	12/17/2015	11:48	Dry			
ZZI-MW9B	1/12/2016	12:03	Dry			
ZZI-MW9B	2/23/2016	7:26	Dry			
ZZI-MW9B	3/18/2016	13:21	Dry			
ZZI-MW9B	4/19/2016	12:47	Dry			
ZZI-MW9B	5/9/2016	14:00	Dry			
ZZI-MW9B	6/23/2016	9:18	Dry			
ZZI-MW9B	7/20/2016	10:11	Dry			
ZZI-MW9B	8/10/2016	6:30	Dry			
ZZI-MW9B	9/29/2016	0:42	Dry			
ZZI-MW9B	10/27/2016	15:13	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ZZI-MW9B	11/10/2016	14:03	Dry			
ZZI-MW9B	12/22/2016	15:16	Dry			
ZZI-MW9B	1/5/2017	14:57	Dry			
ZZI-MW9B	2/1/2017		N/M			
ZZI-MW9B	3/30/2017	10:51	Dry			
ZZI-MW9B	4/19/2017	13:48	Dry			
ZZI-MW9B	5/18/2017	11:07	Dry			
ZZI-MW9B	6/6/2017	14:04	Dry			
ZZI-MW9B	7/14/2017	8:20	Dry			
ZZI-MW9B	8/23/2017	15:09	Dry			
ZZI-MW9B	9/12/2017	10:41	Dry			
ZZI-MW9B	10/17/2017	14:17	Dry			
ZZI-MW9B	11/28/2017	13:39	Dry			
ZZI-MW9B	12/22/2017	12:47	Dry			
ZZI-MW9B	1/11/2018	7:10	Dry			
ZZI-MW9B	2/22/2018	10:04	Dry			
ZZI-MW9B	3/21/2018	13:48	Dry			
ZZI-MW9B	4/25/2018	9:47	Dry			
ZZI-MW9B	5/29/2018	11:30	Dry			
ZZI-MW9B	6/13/2018	12:18	Dry			
ZZI-MW9B	7/18/2018	14:26	Dry			
ZZI-MW9B	8/8/2018	9:32	Dry			
ZZI-MW9B	9/26/2018	16:44	Dry			
ZZI-MW9B	10/30/2018	10:29	Dry			
ZZI-MW9B	11/27/2018	7:13	Dry			
ZZI-MW9B	12/27/2018	12:06	Dry			
ZZI-MW9B	1/10/2019	7:18	Dry			
ZZI-MW9B	2/21/2019	7:21	Dry			
ZZI-MW9B	3/28/2019	10:20	Dry			
ZZI-MW9B	4/17/2019	11:29	Dry			
ZZI-MW9B	5/22/2019	13:09	Dry			
ZZI-MW9B	6/12/2019	13:14	Dry			
ZZI-MW9B	7/17/2019	12:15	Dry			
ZZI-MW9B	8/14/2019	7:13	Dry			
ZZI-MW9B	9/14/2019	12:19	Dry			
ZZI-MW9B	10/29/2019	8:41	Dry			
ZZI-MW9B	11/21/2019	7:02	Dry			
ZZI-MW9B	12/12/2019	11:12	Dry			
ZZI-MW9C	1/23/2013	10:18	94.51	151.61		
ZZI-MW9C	2/14/2013	8:48	96.58	149.54		
ZZI-MW9C	3/22/2013	10:22	97.62	148.50		
ZZI-MW9C	4/24/2013	7:58	99.71	146.41		
ZZI-MW9C	5/17/2013	6:29	100.64	145.48		
ZZI-MW9C	6/21/2013	7:15	102.54	143.58		
ZZI-MW9C	7/18/2013	7:17	104.88	141.24		
ZZI-MW9C	8/15/2013	12:24	105.61	140.51		
ZZI-MW9C	9/11/2013	15:57	106.89	139.23		
ZZI-MW9C	10/24/2013	14:09	106.89	139.23		
ZZI-MW9C	11/20/2013	7:47	105.65	140.47		
ZZI-MW9C	12/27/2013	9:16	105.84	140.28		
ZZI-MW9C	1/15/2014	11:26	105.96	140.16		
ZZI-MW9C	2/19/2014	7:00	105.81	140.31		
ZZI-MW9C	3/19/2014	15:39	106.34	139.78		
ZZI-MW9C	4/15/2014	15:28	107.03	139.09		
ZZI-MW9C	5/27/2014	13:16	108.30	137.82		
ZZI-MW9C	6/12/2014	14:36	109.00	137.12		
ZZI-MW9C	7/9/2014	12:56	110.03	136.09		
ZZI-MW9C	8/19/2014	7:27	111.61	134.51		
ZZI-MW9C	9/25/2014	6:57	112.60	133.52		
ZZI-MW9C	10/22/2014	8:27	113.12	133.00		
ZZI-MW9C	11/12/2014	13:44	113.23	132.89		
ZZI-MW9C	12/17/2014	10:10	112.99	133.13		
ZZI-MW9C	1/8/2015	14:44	112.73	133.39		
ZZI-MW9C	2/24/2015	8:41	113.45	132.67		
ZZI-MW9C	3/12/2015	13:18	113.29	132.83		
ZZI-MW9C	4/21/2015	12:20	113.75	132.37		
ZZI-MW9C	5/13/2015	8:17	Dry			
ZZI-MW9C	6/11/2015	14:01	Dry			
ZZI-MW9C	7/21/2015	11:18	Dry			
ZZI-MW9C	8/25/2015	15:02	Dry			
ZZI-MW9C	9/15/2015	12:17	Dry			
ZZI-MW9C	10/21/2015	16:00	Dry			
ZZI-MW9C	11/17/2015	7:30	Dry			
ZZI-MW9C	12/17/2015	11:51	Dry			
ZZI-MW9C	1/12/2016	12:06	Dry			
ZZI-MW9C	2/23/2016	7:29	Dry			
ZZI-MW9C	3/18/2016	13:22	Dry			
ZZI-MW9C	4/19/2016	12:50	Dry			
ZZI-MW9C	5/9/2016	14:02	Dry			
ZZI-MW9C	6/23/2016	9:22	Dry			
ZZI-MW9C	7/20/2016	10:14	Dry			
ZZI-MW9C	8/10/2016	6:32	Dry			
ZZI-MW9C	9/29/2016	0:45	Dry			
ZZI-MW9C	10/27/2016	15:16	Dry			
ZZI-MW9C	11/10/2016	14:04	Dry			
ZZI-MW9C	12/22/2016	15:13	Dry			
ZZI-MW9C	1/5/2017	14:59	Dry			
ZZI-MW9C	2/1/2017		N/M			
ZZI-MW9C	3/30/2017	10:53	Dry			
ZZI-MW9C	4/19/2017	13:51	Dry			
ZZI-MW9C	5/18/2017	11:09	Dry			
ZZI-MW9C	6/6/2017	14:06	Dry			
ZZI-MW9C	7/14/2017	8:23	Dry			
ZZI-MW9C	8/23/2017	15:12	112.00	134.12		
ZZI-MW9C	9/12/2017	10:43	109.97	136.15		
ZZI-MW9C	10/17/2017	14:19	104.98	141.14		
ZZI-MW9C	11/28/2017	13:41	105.33	140.79		
ZZI-MW9C	12/22/2017	12:49	105.91	140.21		
ZZI-MW9C	1/11/2018	7:12	97.35	148.77		
ZZI-MW9C	2/22/2018	10:05	96.96	149.16		
ZZI-MW9C	3/21/2018	13:52	96.71	149.41		
ZZI-MW9C	4/25/2018	9:48	98.00	148.12		
ZZI-MW9C	5/29/2018	11:32	98.99	147.13		
ZZI-MW9C	6/13/2018	12:21	100.20	145.92		
ZZI-MW9C	7/18/2018	14:27	101.10	145.02		
ZZI-MW9C	8/8/2018	9:34	100.40	145.72		
ZZI-MW9C	9/26/2018	16:47	102.46	143.66		
ZZI-MW9C	10/30/2018	10:31	102.98	143.14		
ZZI-MW9C	11/27/2018	7:14	102.56	143.56		
ZZI-MW9C	12/27/2018	12:07	109.38	136.74		
ZZI-MW9C	1/10/2019	7:19	102.68	143.44		
ZZI-MW9C	2/21/2019	7:19	98.21	147.91		
ZZI-MW9C	3/28/2019	10:21	103.38	142.74		
ZZI-MW9C	4/17/2019	11:28	104.41	141.71		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ZZI-MW9C	5/22/2019	13:10	100.82	145.30		
ZZI-MW9C	6/12/2019	13:15	100.14	145.98		
ZZI-MW9C	7/17/2019	12:18	99.26	146.86		
ZZI-MW9C	8/14/2019	7:15	98.73	147.39		
ZZI-MW9C	9/14/2019	12:23	99.08	147.04		
ZZI-MW9C	10/29/2019	8:42	96.70	149.42		
ZZI-MW9C	11/21/2019	7:03	96.68	149.44		
ZZI-MW9C	12/12/2019	11:14	99.75	146.37		
ZZI-MW9D	1/23/2013	10:21	94.54	151.44		
ZZI-MW9D	2/14/2013	8:52	96.88	149.10		
ZZI-MW9D	3/22/2013	10:24	97.84	148.14		
ZZI-MW9D	4/24/2013	8:01	99.98	146.00		
ZZI-MW9D	5/17/2013	6:31	100.84	145.14		
ZZI-MW9D	6/21/2013	7:20	101.74	144.24		
ZZI-MW9D	7/18/2013	7:22	104.37	141.61		
ZZI-MW9D	8/15/2013	12:25	105.63	140.35		
ZZI-MW9D	9/11/2013	16:00	106.46	139.52		
ZZI-MW9D	10/24/2013	14:12	106.41	139.57		
ZZI-MW9D	11/20/2013	7:50	105.63	140.35		
ZZI-MW9D	12/27/2013	9:18	105.96	140.02		
ZZI-MW9D	1/15/2014	11:29	106.05	139.93		
ZZI-MW9D	2/19/2014	7:03	106.12	139.86		
ZZI-MW9D	3/19/2014	15:44	106.33	139.65		
ZZI-MW9D	4/15/2014	15:31	107.30	138.68		
ZZI-MW9D	5/27/2014	13:19	108.49	137.49		
ZZI-MW9D	6/12/2014	14:38	109.13	136.85		
ZZI-MW9D	7/9/2014	13:00	110.19	135.79		
ZZI-MW9D	8/19/2014	7:31	111.85	134.13		
ZZI-MW9D	9/25/2014	7:00	112.64	133.34		
ZZI-MW9D	10/22/2014	8:30	113.20	132.78		
ZZI-MW9D	11/12/2014	13:47	113.22	132.76		
ZZI-MW9D	12/17/2014	10:12	113.04	132.94		
ZZI-MW9D	1/8/2015	14:47	112.70	133.28		
ZZI-MW9D	2/24/2015	8:43	113.64	132.34		
ZZI-MW9D	3/12/2015	13:20	113.40	132.58		
ZZI-MW9D	4/21/2015	12:23	113.87	132.11		
ZZI-MW9D	5/13/2015	8:20	114.50	131.48		
ZZI-MW9D	6/11/2015	14:04	114.88	131.10		
ZZI-MW9D	7/21/2015	11:22	116.24	129.74		
ZZI-MW9D	8/25/2015	15:04	117.36	128.62		
ZZI-MW9D	9/15/2015	12:20	118.04	127.94		
ZZI-MW9D	10/21/2015	16:05	118.60	127.38		
ZZI-MW9D	11/17/2015	7:35	118.94	127.04		
ZZI-MW9D	12/17/2015	11:54	118.86	127.12		
ZZI-MW9D	1/12/2016	12:09	118.58	127.40		
ZZI-MW9D	2/23/2016	7:32	118.27	127.71		
ZZI-MW9D	3/18/2016	13:24	118.46	127.52		
ZZI-MW9D	4/19/2016	12:53	118.61	127.37		
ZZI-MW9D	5/9/2016	14:04	119.68	126.30		
ZZI-MW9D	6/23/2016	9:25	120.77	125.21		
ZZI-MW9D	7/20/2016	10:17	121.50	124.48		
ZZI-MW9D	8/10/2016	6:34	122.24	123.74		
ZZI-MW9D	9/29/2016	0:49	117.13	128.85		
ZZI-MW9D	10/27/2016	15:19	123.95	122.03		
ZZI-MW9D	11/10/2016	14:05	123.70	122.28		
ZZI-MW9D	12/22/2016	15:10	123.31	122.67		
ZZI-MW9D	1/5/2017	15:03	Dry			
ZZI-MW9D	2/1/2017		N/M			
ZZI-MW9D	3/30/2017	10:56	122.02	123.96		
ZZI-MW9D	4/19/2017	13:55	129.55	116.43		
ZZI-MW9D	5/18/2017	11:11	120.47	125.51		
ZZI-MW9D	6/6/2017	14:08	119.70	126.28		
ZZI-MW9D	7/14/2017	8:25	117.21	128.77		
ZZI-MW9D	8/23/2017	15:15	113.58	132.40		
ZZI-MW9D	9/12/2017	10:46	111.18	134.80		
ZZI-MW9D	10/17/2017	14:22	106.29	139.69		
ZZI-MW9D	11/28/2017	13:42	106.61	139.37		
ZZI-MW9D	12/22/2017	12:51	109.10	136.88		
ZZI-MW9D	1/11/2018	7:14	99.01	146.97		
ZZI-MW9D	2/22/2018	10:08	98.33	147.65		
ZZI-MW9D	3/21/2018	13:55	98.27	147.71		
ZZI-MW9D	4/25/2018	9:49	94.10	151.88		
ZZI-MW9D	5/29/2018	11:34	99.98	146.00		
ZZI-MW9D	6/13/2018	12:24	101.10	144.88		
ZZI-MW9D	7/18/2018	14:28	101.92	144.06		
ZZI-MW9D	8/8/2018	9:36	101.19	144.79		
ZZI-MW9D	9/26/2018	16:50	103.03	142.95		
ZZI-MW9D	10/30/2018	10:33	103.43	142.55		
ZZI-MW9D	11/27/2018	7:15	103.07	142.91		
ZZI-MW9D	12/27/2018	12:08	109.40	136.58		
ZZI-MW9D	1/10/2019	7:20	103.10	142.88		
ZZI-MW9D	2/21/2019	7:22	99.36	146.62		
ZZI-MW9D	3/28/2019	10:22	105.44	140.54		
ZZI-MW9D	4/17/2019	11:30	105.18	140.80		
ZZI-MW9D	5/22/2019	13:11	101.18	144.80		
ZZI-MW9D	6/12/2019	13:16	100.47	145.51		
ZZI-MW9D	7/17/2019	12:20	99.52	146.46		
ZZI-MW9D	8/14/2019	7:17	99.07	146.91		
ZZI-MW9D	9/14/2019	12:25	99.31	146.67		
ZZI-MW9D	10/29/2019	8:43	98.04	147.94		
ZZI-MW9D	11/21/2019	7:04	97.00	148.98		
ZZI-MW9D	12/12/2019	11:16	100.13	145.85		
HOL-MW1	1/23/2013	14:10	116.43	99.43		
HOL-MW1	2/13/2013	12:18	117.25	98.61		
HOL-MW1	3/21/2013	10:45	117.96	97.90		
HOL-MW1	4/24/2013	12:40	119.60	96.26		
HOL-MW1	5/16/2013	11:40	120.72	95.14		
HOL-MW1	6/20/2013	11:57	122.58	93.28		
HOL-MW1	7/18/2013	12:15	124.26	91.60		
HOL-MW1	8/14/2013	16:04	125.40	90.46		
HOL-MW1	9/11/2013	7:00	126.57	89.29		
HOL-MW1	10/24/2013	15:42	127.57	88.29		
HOL-MW1	11/21/2013	9:05	126.54	89.32		
HOL-MW1	12/27/2013	7:08	126.61	89.25		
HOL-MW1	1/15/2014	7:32	127.02	88.84		
HOL-MW1	2/18/2014	13:55	128.42	87.44		
HOL-MW1	3/19/2014	9:58	129.51	86.35		
HOL-MW1	4/15/2014	10:06	130.39	85.47		
HOL-MW1	5/29/2014	8:20	132.07	83.79		
HOL-MW1	6/12/2014	9:20	132.65	83.21		
HOL-MW1	7/9/2014	7:57	133.32	82.54		
HOL-MW1	8/20/2014	7:39	134.61	81.25		
HOL-MW1	9/24/2014	13:35	135.22	80.64		
HOL-MW1	10/22/2014	6:25	133.46	82.40		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
HOL-MW1	11/11/2014	14:40	135.38	80.48		
HOL-MW1	12/16/2014	16:46	135.93	79.93		
HOL-MW1	1/8/2015	10:05	136.34	79.52		
HOL-MW1	2/18/2015	14:58	137.04	78.82		
HOL-MW1	3/12/2015	9:09	136.85	79.01		
HOL-MW1	4/21/2015	7:58	Dry			
HOL-MW1	5/12/2015	13:48	Dry			
HOL-MW1	6/11/2015	9:19	Dry			
HOL-MW1	7/21/2015	7:07	Dry			
HOL-MW1	8/26/2015	9:01	Dry			
HOL-MW1	9/14/2015	15:50	Dry			
HOL-MW1	10/20/2015	18:15	Dry			
HOL-MW1	11/19/2015	11:06	Dry			
HOL-MW1	12/17/2015	6:58	Dry			
HOL-MW1	1/11/2016	14:36	Dry			
HOL-MW1	2/25/2016	7:35	Dry			
HOL-MW1	3/18/2016	8:53	Dry			
HOL-MW1	4/18/2016	16:05	Dry			
HOL-MW1	5/4/2016	11:30	Dry			
HOL-MW1	6/21/2016	12:13	Dry			
HOL-MW1	7/19/2016	14:27	Dry			
HOL-MW1	8/11/2016	6:13	Dry			
HOL-MW1	9/27/2016	15:40	Dry			
HOL-MW1	10/26/2016	17:20	Dry			
HOL-MW1	11/9/2016	12:05	Dry			
HOL-MW1	12/22/2016	8:00	Dry			
HOL-MW1	1/13/2017	10:17	Dry			
HOL-MW1	2/1/2017		N/M			
HOL-MW1	3/28/2017	16:30	Dry			
HOL-MW1	4/19/2017	6:44	137.54	78.32		
HOL-MW1	5/17/2017	11:20	Dry			
HOL-MW1	6/6/2017	8:51	Dry			
HOL-MW1	7/13/2017	8:56	Dry			
HOL-MW1	8/22/2017	14:50	Dry			
HOL-MW1	9/11/2017	14:57	Dry			
HOL-MW1	10/17/2017	9:50	Dry			
HOL-MW1	11/22/2017	9:36	Dry			
HOL-MW1	12/22/2017	7:20	Dry			
HOL-MW1	1/10/2018	9:54	136.65	79.21		
HOL-MW1	2/7/2018	14:37	137.11	78.75		
HOL-MW1	3/20/2018	9:20	135.02	80.84		
HOL-MW1	4/24/2018	15:53	134.70	81.16		
HOL-MW1	5/16/2018	13:07	134.78	81.08		
HOL-MW1	6/13/2018	7:55	Dry			
HOL-MW1	7/18/2018	9:11	Dry			
HOL-MW1	8/6/2018	14:49	Dry			
HOL-MW1	9/25/2018	14:41	136.26	79.60		
HOL-MW1	10/31/2018	8:12	134.67	81.19		
HOL-MW1	11/15/2018	7:56	Dry			
HOL-MW1	12/26/2018	14:38	Dry			
HOL-MW1	1/9/2019	8:51	133.52	82.34		
HOL-MW1	2/14/2019	7:53	Dry			
HOL-MW1	3/14/2019	8:30	132.80	83.06		
HOL-MW1	4/17/2019	8:43	132.79	83.07		
HOL-MW1	5/14/2019	17:48	137.00	78.86		
HOL-MW1	6/12/2019	8:30	Dry			
HOL-MW1	7/17/2019	9:03	131.70	84.16		
HOL-MW1	8/14/2019	12:40	130.92	84.94		
HOL-MW1	9/7/2019	8:05	129.40	86.46		
HOL-MW1	10/28/2019	16:02	122.67	93.19		
HOL-MW1	11/20/2019	14:30	121.00	94.86		
HOL-MW1	12/11/2019	16:55	120.40	95.46		
HOL-MW2	1/23/2013	14:20	115.71	98.98		
HOL-MW2	2/13/2013	12:24	116.46	98.23		
HOL-MW2	3/21/2013	11:31	117.53	97.16		
HOL-MW2	4/24/2013	12:35	118.65	96.04		
HOL-MW2	5/16/2013	11:48	118.64	96.05		
HOL-MW2	6/20/2013	12:05	119.75	94.94		
HOL-MW2	7/18/2013	12:22	122.45	92.24		
HOL-MW2	8/14/2013	16:09	124.32	90.37		
HOL-MW2	9/11/2013	7:12	125.63	89.06		
HOL-MW2	10/24/2013	15:50	130.44	84.25		
HOL-MW2	11/21/2013	9:09	126.16	88.53		
HOL-MW2	12/27/2013	7:16	127.06	87.63		
HOL-MW2	1/15/2014	7:43	127.89	86.80		
HOL-MW2	2/18/2014	14:00	129.23	85.46		
HOL-MW2	3/19/2014	10:08	130.39	84.30		
HOL-MW2	4/15/2014	10:17	130.25	84.44		
HOL-MW2	5/29/2014	8:11	130.21	84.48		
HOL-MW2	6/12/2014	9:30	130.91	83.78		
HOL-MW2	7/9/2014	8:11	132.74	81.95		
HOL-MW2	8/20/2014	7:28	Dry			
HOL-MW2	9/24/2014	13:40	136.32	78.37		
HOL-MW2	10/22/2014	6:30	132.10	82.59		
HOL-MW2	11/11/2014	14:28	Dry			
HOL-MW2	12/16/2014	16:39	Dry			
HOL-MW2	1/8/2015	10:15	Dry			
HOL-MW2	2/18/2015	15:06	Dry			
HOL-MW2	3/12/2015	9:18	Dry			
HOL-MW2	4/21/2015	8:04	Dry			
HOL-MW2	5/12/2015	13:56	Dry			
HOL-MW2	6/11/2015	9:25	136.50	78.19		
HOL-MW2	7/21/2015	7:14	Dry			
HOL-MW2	8/26/2015	9:10	Dry			
HOL-MW2	9/14/2015	15:56	Dry			
HOL-MW2	10/20/2015	18:25	Dry			
HOL-MW2	11/19/2015	11:11	Dry			
HOL-MW2	12/17/2015	7:02	Dry			
HOL-MW2	1/11/2016	14:41	Dry			
HOL-MW2	2/25/2016	7:40	Dry			
HOL-MW2	3/18/2016	8:57	Dry			
HOL-MW2	4/18/2016	16:15	Dry			
HOL-MW2	5/4/2016	11:10	Dry			
HOL-MW2	6/21/2016	12:30	Dry			
HOL-MW2	7/19/2016	14:37	Dry			
HOL-MW2	8/11/2016	6:18	Dry			
HOL-MW2	9/27/2016	16:00	136.74	77.95		
HOL-MW2	10/26/2016	17:25	Dry			
HOL-MW2	11/9/2016	12:09	Dry			
HOL-MW2	12/22/2016	8:18	Dry			
HOL-MW2	1/13/2017	10:30	Dry			
HOL-MW2	2/1/2017		N/M			
HOL-MW2	3/28/2017	16:35	Dry			
HOL-MW2	4/19/2017	6:55	136.29	78.40		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
HOL-MW2	5/17/2017	11:26	Dry			
HOL-MW2	6/6/2017	8:57	Dry			
HOL-MW2	7/13/2017	9:15	Dry			
HOL-MW2	8/22/2017	14:58	Dry			
HOL-MW2	9/11/2017	15:03	Dry			
HOL-MW2	10/17/2017	10:00	136.72	77.97		
HOL-MW2	11/22/2017	9:45	Dry			
HOL-MW2	12/22/2017	7:26	136.69	78.00		
HOL-MW2	1/10/2018	10:11	Dry			
HOL-MW2	2/7/2018	14:45	Dry			
HOL-MW2	3/20/2018	9:45	135.01	79.68		
HOL-MW2	4/24/2018	15:42	135.06	79.63		
HOL-MW2	5/16/2018	13:14	Dry			
HOL-MW2	6/13/2018	8:06	Dry			
HOL-MW2	7/18/2018	9:20	Dry			
HOL-MW2	8/6/2018	14:56	Dry			
HOL-MW2	9/25/2018	14:57	132.03	82.66		
HOL-MW2	10/31/2018	8:21	130.76	83.93		
HOL-MW2	11/15/2018	8:04	Dry			
HOL-MW2	12/26/2018	14:47	Dry			
HOL-MW2	1/9/2019	9:01	132.30	82.39		
HOL-MW2	2/14/2019	8:10	Dry			
HOL-MW2	3/14/2019	8:25	133.01	81.68		
HOL-MW2	4/17/2019	8:50	133.30	81.39		
HOL-MW2	5/14/2019	17:55	136.11	78.58		
HOL-MW2	6/12/2019	8:39	132.34	82.35		
HOL-MW2	7/17/2019	8:52	131.82	82.87		
HOL-MW2	8/14/2019	12:48	130.87	83.82		
HOL-MW2	9/7/2019	8:00	128.16	86.53		
HOL-MW2	10/28/2019	16:07	123.44	91.25		
HOL-MW2	11/20/2019	14:37	121.55	93.14		
HOL-MW2	12/11/2019	16:59	121.31	93.38		
HOL-MW3	1/23/2013	14:30	115.28	98.41		
HOL-MW3	2/13/2013	12:31	116.03	97.66		
HOL-MW3	3/21/2013	12:09	117.35	96.34		
HOL-MW3	4/24/2013	13:05	118.32	95.37		
HOL-MW3	5/16/2013	11:57	119.79	93.90		
HOL-MW3	6/20/2013	12:10	122.25	91.44		
HOL-MW3	7/18/2013	12:29	125.17	88.52		
HOL-MW3	8/14/2013	16:15	126.80	86.89		
HOL-MW3	9/11/2013	7:20	127.38	86.31		
HOL-MW3	10/24/2013	15:59	127.39	86.30		
HOL-MW3	11/21/2013	9:08	128.13	85.56		
HOL-MW3	12/27/2013	7:25	128.61	85.08		
HOL-MW3	1/15/2014	7:54	129.10	84.59		
HOL-MW3	2/18/2014	14:05	130.55	83.14		
HOL-MW3	3/19/2014	10:24	Dry			
HOL-MW3	4/15/2014	10:27	Dry			
HOL-MW3	5/29/2014	8:02	Dry			
HOL-MW3	6/12/2014	9:38	Dry			
HOL-MW3	7/9/2014	8:20	Dry			
HOL-MW3	8/20/2014	7:13	Dry			
HOL-MW3	9/24/2014	13:50	Dry			
HOL-MW3	10/22/2014	6:35	Dry			
HOL-MW3	11/11/2014	14:19	Dry			
HOL-MW3	12/16/2014	16:33	Dry			
HOL-MW3	1/8/2015	10:24	Dry			
HOL-MW3	2/18/2015	15:20	Dry			
HOL-MW3	3/12/2015	9:26	Dry			
HOL-MW3	4/21/2015	8:10	Dry			
HOL-MW3	5/12/2015	14:04	Dry			
HOL-MW3	6/11/2015	9:34	Dry			
HOL-MW3	7/21/2015	7:22	Dry			
HOL-MW3	8/26/2015	9:19	Dry			
HOL-MW3	9/14/2015	16:00	Dry			
HOL-MW3	10/20/2015	18:30	Dry			
HOL-MW3	11/19/2015	11:14	Dry			
HOL-MW3	12/17/2015	7:08	Dry			
HOL-MW3	1/11/2016	14:48	Dry			
HOL-MW3	2/25/2016	7:45	Dry			
HOL-MW3	3/18/2016	9:03	Dry			
HOL-MW3	4/18/2016	16:20	Dry			
HOL-MW3	5/4/2016	11:20	Dry			
HOL-MW3	6/21/2016	12:45	Dry			
HOL-MW3	7/19/2016	14:47	Dry			
HOL-MW3	8/11/2016	6:23	Dry			
HOL-MW3	9/27/2016	16:15	Dry			
HOL-MW3	10/26/2016	17:34	Dry			
HOL-MW3	11/9/2016	12:14	Dry			
HOL-MW3	12/22/2016	8:30	Dry			
HOL-MW3	1/13/2017	10:40	Dry			
HOL-MW3	2/1/2017		N/M			
HOL-MW3	3/28/2017	16:40	Dry			
HOL-MW3	4/19/2017	7:08	131.12	82.57		
HOL-MW3	5/17/2017	11:33	Dry			
HOL-MW3	6/6/2017	9:04	Dry			
HOL-MW3	7/13/2017	9:25	Dry			
HOL-MW3	8/22/2017	15:06	Dry			
HOL-MW3	9/11/2017	15:11	Dry			
HOL-MW3	10/17/2017	10:10	Dry			
HOL-MW3	11/22/2017	9:53	Dry			
HOL-MW3	12/22/2017	7:35	Dry			
HOL-MW3	1/10/2018	10:03	135.00	78.69		
HOL-MW3	2/7/2018	14:54	135.81	77.88		
HOL-MW3	3/20/2018	10:05	131.15	82.54		
HOL-MW3	4/24/2018	15:32	Dry			
HOL-MW3	5/16/2018	13:29	Dry			
HOL-MW3	6/13/2018	8:15	Dry			
HOL-MW3	7/18/2018	9:28	Dry			
HOL-MW3	8/6/2018	15:03	Dry			
HOL-MW3	9/25/2018	15:15	Dry			
HOL-MW3	10/31/2018	8:29	Dry			
HOL-MW3	11/15/2018	8:11	Dry			
HOL-MW3	12/26/2018	14:54	Dry			
HOL-MW3	1/9/2019	9:08	Dry			
HOL-MW3	2/14/2019	8:17	Dry			
HOL-MW3	3/14/2019	8:10	Dry			
HOL-MW3	4/17/2019	9:00	Dry			
HOL-MW3	5/14/2019	18:00	Dry			
HOL-MW3	6/12/2019	8:50	Dry			
HOL-MW3	7/17/2019	9:10	Dry			
HOL-MW3	8/14/2019	12:53	128.73	84.96		
HOL-MW3	9/7/2019	8:11	Dry			
HOL-MW3	10/28/2019	16:13	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
HOL-MW3	11/20/2019	14:43	121.55	92.14		
HOL-MW3	12/11/2019	17:08	Dry			
HYN-MW3	1/24/2013	7:05	129.80	146.95		
HYN-MW3	2/14/2013	7:10	130.95	145.80		
HYN-MW3	3/21/2013	9:13	132.42	144.33		
HYN-MW3	4/24/2013	6:55	133.07	143.68		
HYN-MW3	5/16/2013	7:05	Dry			
HYN-MW3	6/20/2013	6:35	135.66	141.09		
HYN-MW3	7/18/2013	15:36	136.68	140.07		
HYN-MW3	8/14/2013	16:10	Dry			
HYN-MW3	9/11/2013	13:02	Dry			
HYN-MW3	10/25/2013	6:40	Dry			
HYN-MW3	11/21/2013	7:48	Dry			
HYN-MW3	12/27/2013	10:52	Dry			
HYN-MW3	1/15/2014	16:38	Dry			
HYN-MW3	2/19/2014	6:40	Dry			
HYN-MW3	3/20/2014	6:55	Dry			
HYN-MW3	4/15/2014	17:36	Dry			
HYN-MW3	5/29/2014	7:41	Dry			
HYN-MW3	6/11/2014	16:46	Dry			
HYN-MW3	7/10/2014	7:52	Dry			
HYN-MW3	8/13/2014	16:55	Dry			
HYN-MW3	9/24/2014	14:35	Dry			
HYN-MW3	10/21/2014	17:30	Dry			
HYN-MW3	11/13/2014	8:49	Dry			
HYN-MW3	12/17/2014	6:40	Dry			
HYN-MW3	1/9/2015	8:47	Dry			
HYN-MW3	2/18/2015	16:18	Dry			
HYN-MW3	3/12/2015	15:22	Dry			
HYN-MW3	4/21/2015	14:20	Dry			
HYN-MW3	5/12/2015	16:59	Dry			
HYN-MW3	6/10/2015	16:39	Dry			
HYN-MW3	7/21/2015	9:06	Dry			
HYN-MW3	8/19/2015	17:43	Dry			
HYN-MW3	9/15/2015	7:31	Dry			
HYN-MW3	10/21/2015	10:55	Dry			
HYN-MW3	11/16/2015	16:34	Dry			
HYN-MW3	12/17/2015	8:05	Dry			
HYN-MW3	1/12/2016	7:36	Dry			
HYN-MW3	2/23/2016	15:25	Dry			
HYN-MW3	3/18/2016	8:05	Dry			
HYN-MW3	4/19/2016	8:20	Dry			
HYN-MW3	5/4/2016	8:44	Dry			
HYN-MW3	6/22/2016	7:30	Dry			
HYN-MW3	7/19/2016	13:48	Dry			
HYN-MW3	8/9/2016	17:11	Dry			
HYN-MW3	9/27/2016	14:50	Dry			
HYN-MW3	10/27/2016	11:55	Dry			
HYN-MW3	11/9/2016	14:40	Dry			
HYN-MW3	12/22/2016	11:02	Dry			
HYN-MW3	1/6/2017	12:05	Dry			
HYN-MW3	2/1/2017		N/M			
HYN-MW3	3/23/2017	8:24	Dry			
HYN-MW3	4/19/2017	13:10	Dry			
HYN-MW3	5/16/2017	9:04	Dry			
HYN-MW3	6/6/2017	12:58	Dry			
HYN-MW3	7/13/2017	12:25	Dry			
HYN-MW3	8/22/2017	15:07	Dry			
HYN-MW3	9/12/2017	9:10	Dry			
HYN-MW3	10/17/2017	7:04	Dry			
HYN-MW3	11/28/2017	7:38	Dry			
HYN-MW3	12/22/2017	9:09	Dry			
HYN-MW3	1/10/2018	16:48	Dry			
HYN-MW3	2/6/2018	13:27	Dry			
HYN-MW3	3/20/2018	16:20	Dry			
HYN-MW3	4/24/2018	17:55	Dry			
HYN-MW3	5/16/2018	15:03	Dry			
HYN-MW3	6/13/2018	14:50	Dry			
HYN-MW3	7/18/2018	17:02	Dry			
HYN-MW3	8/7/2018	8:24	Dry			
HYN-MW3	9/26/2018	7:23	Dry			
HYN-MW3	10/31/2018	12:44	Dry			
HYN-MW3	11/15/2018	7:20	Dry			
HYN-MW3	12/27/2018	7:09	Dry			
HYN-MW3	1/9/2019	13:17	Dry			
HYN-MW3	2/13/2019	14:31	Dry			
HYN-MW3	3/14/2019	7:15	Dry			
HYN-MW3	4/19/2019	7:11	Dry			
HYN-MW3	5/15/2019	9:12	Dry			
HYN-MW3	6/12/2019	1:50	Dry			
HYN-MW3	7/17/2019	11:14	Dry			
HYN-MW3	8/14/2019	16:20	Dry			
HYN-MW3	9/7/2019	9:43	Dry			
HYN-MW3	10/29/2019	8:16	Dry			
HYN-MW3	11/20/2019	15:31	Dry			
HYN-MW3	12/12/2019	7:28	Dry			
HYN-MW4	1/24/2013	6:58	129.20	150.63		
HYN-MW4	2/14/2013	7:24	130.38	149.45		
HYN-MW4	3/21/2013	9:52	131.05	148.78		
HYN-MW4	4/24/2013	7:16	132.92	146.91		
HYN-MW4	5/16/2013	7:14	135.51	144.32		
HYN-MW4	6/20/2013	6:47	136.04	143.79		
HYN-MW4	7/18/2013	15:50	Dry			
HYN-MW4	8/14/2013	16:05	Dry			
HYN-MW4	9/11/2013	13:18	Dry			
HYN-MW4	10/25/2013	6:45	Dry			
HYN-MW4	11/21/2013	7:35	Dry			
HYN-MW4	12/27/2013	10:40	Dry			
HYN-MW4	1/15/2014	16:24	Dry			
HYN-MW4	2/19/2014	6:49	Dry			
HYN-MW4	3/20/2014	7:03	Dry			
HYN-MW4	4/15/2014	17:21	Dry			
HYN-MW4	5/29/2014	7:26	Dry			
HYN-MW4	6/11/2014	16:28	Dry			
HYN-MW4	7/10/2014	7:33	Dry			
HYN-MW4	8/13/2014	16:32	Dry			
HYN-MW4	9/24/2014	14:30	Dry			
HYN-MW4	10/21/2014	17:10	Dry			
HYN-MW4	11/13/2014	8:38	Dry			
HYN-MW4	12/17/2014	6:44	Dry			
HYN-MW4	1/9/2015	8:54	Dry			
HYN-MW4	2/18/2015	16:01	Dry			
HYN-MW4	3/12/2015	15:17	Dry			
HYN-MW4	4/21/2015	14:26	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
HYN-MW4	5/12/2015	16:40	Dry			
HYN-MW4	6/10/2015	16:18	Dry			
HYN-MW4	7/21/2015	8:43	Dry			
HYN-MW4	8/19/2015	17:23	Dry			
HYN-MW4	9/15/2015	7:20	Dry			
HYN-MW4	10/21/2015	10:40	Dry			
HYN-MW4	11/16/2015	16:18	Dry			
HYN-MW4	12/17/2015	8:10	Dry			
HYN-MW4	1/12/2016	7:41	Dry			
HYN-MW4	2/23/2016	15:20	Dry			
HYN-MW4	3/18/2016	8:11	Dry			
HYN-MW4	4/19/2016	8:10	Dry			
HYN-MW4	5/4/2016	8:21	Dry			
HYN-MW4	6/22/2016	7:45	Dry			
HYN-MW4	7/19/2016	13:27	Dry			
HYN-MW4	8/9/2016	16:54	Dry			
HYN-MW4	9/27/2016	15:00	Dry			
HYN-MW4	10/27/2016	11:40	Dry			
HYN-MW4	11/9/2016	14:28	Dry			
HYN-MW4	12/22/2016	10:50	Dry			
HYN-MW4	1/6/2017	11:50	Dry			
HYN-MW4	2/1/2017		N/M			
HYN-MW4	3/23/2017	8:14	Dry			
HYN-MW4	4/19/2017	12:56	Dry			
HYN-MW4	5/16/2017	9:11	Dry			
HYN-MW4	6/6/2017	13:06	Dry			
HYN-MW4	7/13/2017	11:05	Dry			
HYN-MW4	8/22/2017	14:59	Dry			
HYN-MW4	9/12/2017	9:05	Dry			
HYN-MW4	10/17/2017	6:43	Dry			
HYN-MW4	11/28/2017	7:18	Dry			
HYN-MW4	12/22/2017	9:03	Dry			
HYN-MW4	1/10/2018	16:40	Dry			
HYN-MW4	2/6/2018	13:10	Dry			
HYN-MW4	3/20/2018	15:45	Dry			
HYN-MW4	4/24/2018	17:37	Dry			
HYN-MW4	5/16/2018	14:38	Dry			
HYN-MW4	6/13/2018	14:40	Dry			
HYN-MW4	7/18/2018	17:13	Dry			
HYN-MW4	8/7/2018	8:16	Dry			
HYN-MW4	9/26/2018	7:35	Dry			
HYN-MW4	10/31/2018	12:36	Dry			
HYN-MW4	11/15/2018	7:07	Dry			
HYN-MW4	12/27/2018	7:00	Dry			
HYN-MW4	1/9/2019	13:03	Dry			
HYN-MW4	2/13/2019	14:39	Dry			
HYN-MW4	3/14/2019	7:05	Dry			
HYN-MW4	4/19/2019	7:05	Dry			
HYN-MW4	5/15/2019	9:05	Dry			
HYN-MW4	6/12/2019	14:59	Dry			
HYN-MW4	7/17/2019	11:38	Dry			
HYN-MW4	8/14/2019	16:12	Dry			
HYN-MW4	9/7/2019	9:34	Dry			
HYN-MW4	10/29/2019	8:00	Dry			
HYN-MW4	11/20/2019	15:25	Dry			
HYN-MW4	12/12/2019	7:35	Dry			
HYN-MW5	1/24/2013	6:50	127.69	154.67		
HYN-MW5	2/14/2013	7:38	128.21	154.15		
HYN-MW5	3/21/2013	8:09	129.11	153.25		
HYN-MW5	4/24/2013	7:05	131.42	150.94		
HYN-MW5	5/16/2013	7:19	131.96	150.40		
HYN-MW5	6/20/2013	6:55	134.45	147.91		
HYN-MW5	7/18/2013	16:08	135.89	146.47		
HYN-MW5	8/14/2013	16:16	Dry			
HYN-MW5	9/11/2013	13:10	Dry			
HYN-MW5	10/25/2013	6:51	Dry			
HYN-MW5	11/21/2013	7:41	Dry			
HYN-MW5	12/27/2013	11:03	Dry			
HYN-MW5	1/15/2014	16:29	Dry			
HYN-MW5	2/19/2014	6:57	Dry			
HYN-MW5	3/20/2014	7:10	Dry			
HYN-MW5	4/15/2014	17:28	Dry			
HYN-MW5	5/29/2014	7:33	Dry			
HYN-MW5	6/11/2014	16:35	Dry			
HYN-MW5	7/10/2014	7:43	Dry			
HYN-MW5	8/13/2014	16:43	Dry			
HYN-MW5	9/24/2014	14:40	Dry			
HYN-MW5	10/21/2014	17:20	Dry			
HYN-MW5	11/13/2014	8:30	Dry			
HYN-MW5	12/17/2014	6:50	Dry			
HYN-MW5	1/9/2015	9:01	Dry			
HYN-MW5	2/18/2015	16:08	Dry			
HYN-MW5	3/12/2015	15:29	Dry			
HYN-MW5	4/21/2015	14:12	Dry			
HYN-MW5	5/12/2015	16:49	Dry			
HYN-MW5	6/10/2015	16:25	Dry			
HYN-MW5	7/21/2015	8:51	Dry			
HYN-MW5	8/19/2015	17:32	Dry			
HYN-MW5	9/15/2015	7:42	Dry			
HYN-MW5	10/21/2015	11:05	Dry			
HYN-MW5	11/16/2015	16:25	Dry			
HYN-MW5	12/17/2015	8:20	Dry			
HYN-MW5	1/12/2016	7:46	Dry			
HYN-MW5	2/23/2016	15:32	Dry			
HYN-MW5	3/18/2016	8:23	Dry			
HYN-MW5	4/19/2016	8:30	Dry			
HYN-MW5	5/4/2016	8:29	Dry			
HYN-MW5	6/22/2016	8:00	Dry			
HYN-MW5	7/19/2016	13:37	Dry			
HYN-MW5	8/9/2016	17:03	Dry			
HYN-MW5	9/27/2016	15:10	Dry			
HYN-MW5	10/27/2016	11:46	Dry			
HYN-MW5	11/9/2016	14:34	Dry			
HYN-MW5	12/22/2016	10:40	Dry			
HYN-MW5	1/6/2017	11:55	Dry			
HYN-MW5	2/1/2017		N/M			
HYN-MW5	3/23/2017	8:48	Dry			
HYN-MW5	4/19/2017	13:02	Dry			
HYN-MW5	5/16/2017	9:18	Dry			
HYN-MW5	6/6/2017	13:12	Dry			
HYN-MW5	7/13/2017	11:32	Dry			
HYN-MW5	8/22/2017	14:51	Dry			
HYN-MW5	9/12/2017	8:58	Dry			
HYN-MW5	10/17/2017	6:50	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
HYN-MW5	11/28/2017	7:23	Dry			
HYN-MW5	12/22/2017	9:16	Dry			
HYN-MW5	1/10/2018	16:58	Dry			
HYN-MW5	2/6/2018	13:16	Dry			
HYN-MW5	3/20/2018	16:00	Dry			
HYN-MW5	4/24/2018	17:45	Dry			
HYN-MW5	5/16/2018	14:48	Dry			
HYN-MW5	6/13/2018	15:03	Dry			
HYN-MW5	7/18/2018	16:47	Dry			
HYN-MW5	8/7/2018	8:29	Dry			
HYN-MW5	9/26/2018	7:48	Dry			
HYN-MW5	10/31/2018	12:30	Dry			
HYN-MW5	11/15/2018	7:13	Dry			
HYN-MW5	12/27/2018	6:50	Dry			
HYN-MW5	1/9/2019	13:28	Dry			
HYN-MW5	2/13/2019	14:47	Dry			
HYN-MW5	3/14/2019	7:25	Dry			
HYN-MW5	4/19/2019	7:16	Dry			
HYN-MW5	5/15/2019	9:28	Dry			
HYN-MW5	6/12/2019	15:20	Dry			
HYN-MW5	7/17/2019	11:29	Dry			
HYN-MW5	8/14/2019	16:30	Dry			
HYN-MW5	9/7/2019	9:52	Dry			
HYN-MW5	10/29/2019	8:07	Dry			
HYN-MW5	11/20/2019	15:42	Dry			
HYN-MW5	12/12/2019	7:45	Dry			
JAD-MW1	1/23/2013	16:18	54.71	215.07		
JAD-MW1	2/13/2013	13:40	55.66	214.12		
JAD-MW1	3/21/2013	10:28	56.83	212.95		
JAD-MW1	4/24/2013	14:10	56.98	212.80		
JAD-MW1	5/16/2013	11:00	52.78	217.00		
JAD-MW1	6/20/2013	8:12	59.85	209.93		
JAD-MW1	7/18/2013	13:30	60.38	209.40		
JAD-MW1	8/14/2013	9:30	62.50	207.28		
JAD-MW1	9/11/2013	8:45	63.55	206.23		
JAD-MW1	10/25/2013	7:53	64.53	205.25		
JAD-MW1	11/21/2013	16:40	64.88	204.90		
JAD-MW1	12/27/2013	8:30	65.24	204.54		
JAD-MW1	1/14/2014	15:55	Dry			
JAD-MW1	2/18/2014	10:05	Dry			
JAD-MW1	3/19/2014	8:36	Dry			
JAD-MW1	4/15/2014	8:50	Dry			
JAD-MW1	5/29/2014	10:12	Dry			
JAD-MW1	6/12/2014	8:19	Dry			
JAD-MW1	7/8/2014	16:22	Dry			
JAD-MW1	8/13/2014	9:31	Dry			
JAD-MW1	9/24/2014	11:05	Dry			
JAD-MW1	10/21/2014	14:55	Dry			
JAD-MW1	11/11/2014	10:44	Dry			
JAD-MW1	12/16/2014	15:15	Dry			
JAD-MW1	1/8/2015	8:50	Dry			
JAD-MW1	2/18/2015	7:28	Dry			
JAD-MW1	3/11/2015	15:58	Dry			
JAD-MW1	4/21/2015	7:02	Dry			
JAD-MW1	5/12/2015	9:27	Dry			
JAD-MW1	6/11/2015	7:56	Dry			
JAD-MW1	7/20/2015	16:55	Dry			
JAD-MW1	8/20/2015	17:32	Dry			
JAD-MW1	9/14/2015	14:28	Dry			
JAD-MW1	10/21/2015	9:15	Dry			
JAD-MW1	11/18/2015	14:45	Dry			
JAD-MW1	12/16/2015	13:35	Dry			
JAD-MW1	1/11/2016	15:15	Dry			
JAD-MW1	2/23/2016	16:10	Dry			
JAD-MW1	3/17/2016	14:41	Dry			
JAD-MW1	4/18/2016	14:34	Dry			
JAD-MW1	5/3/2016	13:20	Dry			
JAD-MW1	6/21/2016	14:28	Dry			
JAD-MW1	7/19/2016	9:09	Dry			
JAD-MW1	8/24/2016	7:15	Dry			
JAD-MW1	9/28/2016	10:30	Dry			
JAD-MW1	10/26/2016	16:21	Dry			
JAD-MW1	11/9/2016	8:35	Dry			
JAD-MW1	12/21/2016	15:40	Dry			
JAD-MW1	1/13/2017	8:05	Dry			
JAD-MW1	2/1/2017		N/M			
JAD-MW1	3/23/2017	10:35	Dry			
JAD-MW1	4/19/2017	9:45	Dry			
JAD-MW1	5/18/2017	8:32	Dry			
JAD-MW1	6/6/2017	7:56	Dry			
JAD-MW1	7/13/2017	7:00	Dry			
JAD-MW1	8/22/2017	10:33	Dry			
JAD-MW1	9/11/2017	13:23	Dry			
JAD-MW1	10/16/2017	16:50	Dry			
JAD-MW1	11/27/2017	11:37	Dry			
JAD-MW1	12/21/2017	14:59	Dry			
JAD-MW1	1/9/2018	16:06	Dry			
JAD-MW1	2/6/2018	10:58	Dry			
JAD-MW1	3/20/2018	12:00	Dry			
JAD-MW1	4/23/2018	17:49	Dry			
JAD-MW1	5/15/2018	14:06	Dry			
JAD-MW1	6/12/2018	16:05	Dry			
JAD-MW1	7/18/2018	7:05	Dry			
JAD-MW1	8/8/2018	6:52	Dry			
JAD-MW1	9/25/2018	10:30	Dry			
JAD-MW1	10/30/2018	17:00	Dry			
JAD-MW1	11/26/2018	13:09	Dry			
JAD-MW1	12/26/2018	12:44	Dry			
JAD-MW1	1/9/2019	7:20	Dry			
JAD-MW1	2/15/2019	6:50	Dry			
JAD-MW1	3/14/2019	9:59	Dry			
JAD-MW1	4/16/2019	15:58	Dry			
JAD-MW1	5/14/2019	11:10	Dry			
JAD-MW1	6/12/2019	6:42	Dry			
JAD-MW1	7/17/2019	7:30	Dry			
JAD-MW1	8/13/2019	12:50	Dry			
JAD-MW1	9/7/2019	7:25	Dry			
JAD-MW1	10/28/2019	15:16	Dry			
JAD-MW1	11/20/2019	9:54	Dry			
JAD-MW1	12/11/2019	15:05	Dry			
JAD-MW2	1/23/2013	15:25	60.73	212.44		
JAD-MW2	2/13/2013	13:44	61.31	211.86		
JAD-MW2	3/21/2013	10:58	62.72	210.45		
JAD-MW2	4/24/2013	14:22	63.72	209.45		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
JAD-MW2	5/16/2013	11:05	64.55	208.62		
JAD-MW2	6/20/2013	8:15	66.67	206.50		
JAD-MW2	7/18/2013	13:38	68.77	204.40		
JAD-MW2	8/14/2013	9:35	71.21	201.96		
JAD-MW2	9/11/2013	8:52	Dry			
JAD-MW2	10/25/2013	7:39	Dry			
JAD-MW2	11/21/2013	16:35	72.58	200.59		
JAD-MW2	12/27/2013	8:38	Dry			
JAD-MW2	1/14/2014	16:11	Dry			
JAD-MW2	2/18/2014	10:00	Dry			
JAD-MW2	3/19/2014	8:30	Dry			
JAD-MW2	4/15/2014	7:57	Dry			
JAD-MW2	5/29/2014	10:03	Dry			
JAD-MW2	6/12/2014	7:33	Dry			
JAD-MW2	7/8/2014	16:14	Dry			
JAD-MW2	8/13/2014	8:26	Dry			
JAD-MW2	9/24/2014	11:20	Dry			
JAD-MW2	10/21/2014	15:55	Dry			
JAD-MW2	11/11/2014	10:52	Dry			
JAD-MW2	12/16/2014	15:12	Dry			
JAD-MW2	1/8/2015	8:02	Dry			
JAD-MW2	2/18/2015	7:22	Dry			
JAD-MW2	3/11/2015	15:52	Dry			
JAD-MW2	4/21/2015	6:57	Dry			
JAD-MW2	5/12/2015	9:32	Dry			
JAD-MW2	6/11/2015	8:03	Dry			
JAD-MW2	7/20/2015	17:00	Dry			
JAD-MW2	8/20/2015	17:24	Dry			
JAD-MW2	9/14/2015	14:24	Dry			
JAD-MW2	10/21/2015	9:25	Dry			
JAD-MW2	11/18/2015	14:52	Dry			
JAD-MW2	12/16/2015	13:40	Dry			
JAD-MW2	1/11/2016	15:10	Dry			
JAD-MW2	2/23/2016	16:20	Dry			
JAD-MW2	3/17/2016	14:46	Dry			
JAD-MW2	4/18/2016	14:39	Dry			
JAD-MW2	5/3/2016	13:14	Dry			
JAD-MW2	6/21/2016	14:17	Dry			
JAD-MW2	7/19/2016	9:26	Dry			
JAD-MW2	8/24/2016	7:39	Dry			
JAD-MW2	9/28/2016	10:50	Dry			
JAD-MW2	10/26/2016	16:25	Dry			
JAD-MW2	11/9/2016	8:40	Dry			
JAD-MW2	12/21/2016	15:55	Dry			
JAD-MW2	1/13/2017	8:12	Dry			
JAD-MW2	2/1/2017		N/M			
JAD-MW2	3/23/2017	10:27	Dry			
JAD-MW2	4/19/2017	9:35	Dry			
JAD-MW2	5/18/2017	8:39	Dry			
JAD-MW2	6/6/2017	8:00	Dry			
JAD-MW2	7/13/2017	7:06	Dry			
JAD-MW2	8/22/2017	10:38	Dry			
JAD-MW2	9/11/2017	13:27	Dry			
JAD-MW2	10/16/2017	16:45	Dry			
JAD-MW2	11/27/2017	11:43	Dry			
JAD-MW2	12/21/2017	14:51	Dry			
JAD-MW2	1/9/2018	16:11	Dry			
JAD-MW2	2/6/2018	10:48	Dry			
JAD-MW2	3/20/2018	12:25	Dry			
JAD-MW2	4/23/2018	17:25	Dry			
JAD-MW2	5/15/2018	13:47	Dry			
JAD-MW2	6/12/2018	16:15	Dry			
JAD-MW2	7/18/2018	6:44	Dry			
JAD-MW2	8/8/2018	6:59	Dry			
JAD-MW2	9/25/2018		N/M			
JAD-MW2	10/30/2018	17:07	Dry			
JAD-MW2	11/26/2018	13:08	Dry			
JAD-MW2	12/26/2018	13:08	Dry			
JAD-MW2	1/9/2019	7:07	Dry			
JAD-MW2	2/15/2019	7:00	Dry			
JAD-MW2	3/14/2019	9:52	Dry			
JAD-MW2	4/16/2019	16:03	Dry			
JAD-MW2	5/14/2019	11:21	Dry			
JAD-MW2	6/12/2019	6:56	Dry			
JAD-MW2	7/17/2019	7:20	Dry			
JAD-MW2	8/13/2019	12:55	Dry			
JAD-MW2	9/7/2019	7:18	Dry			
JAD-MW2	10/28/2019	15:22	Dry			
JAD-MW2	11/20/2019	9:50	Dry			
JAD-MW2	12/11/2019	15:00	Dry			
JAD-MW3	1/23/2013	16:11	45.01	223.75		
JAD-MW3	2/13/2013	13:35	46.18	222.58		
JAD-MW3	3/21/2013	14:12	47.83	220.93		
JAD-MW3	4/24/2013	15:05	48.01	220.75		
JAD-MW3	5/16/2013	10:55	48.16	220.60		
JAD-MW3	6/20/2013	8:54	50.40	218.36		
JAD-MW3	7/18/2013	14:30	51.39	217.37		
JAD-MW3	8/14/2013	10:00	53.97	214.79		
JAD-MW3	9/11/2013	9:42	54.75	214.01		
JAD-MW3	10/25/2013	8:32	55.66	213.10		
JAD-MW3	11/21/2013	16:45	56.03	212.73		
JAD-MW3	12/27/2013	9:35	56.92	211.84		
JAD-MW3	1/14/2014	16:02	Q/M			
JAD-MW3	2/18/2014	10:14	57.78	210.98		
JAD-MW3	3/19/2014	8:43	61.15	207.61		
JAD-MW3	4/15/2014	8:57	62.27	206.49		
JAD-MW3	5/29/2014	10:19	63.56	205.20		
JAD-MW3	6/12/2014	8:26	64.18	204.58		
JAD-MW3	7/8/2014	16:28	65.22	203.54		
JAD-MW3	8/13/2014	9:40	66.53	202.23		
JAD-MW3	9/24/2014	11:15	68.13	200.63		
JAD-MW3	10/21/2014	15:00	68.99	199.77		
JAD-MW3	11/11/2014	11:01	69.63	199.13		
JAD-MW3	12/16/2014	15:19	70.52	198.24		
JAD-MW3	1/8/2015	8:57	Dry			
JAD-MW3	2/18/2015	7:35	Dry			
JAD-MW3	3/12/2015	6:58	Dry			
JAD-MW3	4/21/2015	7:06	Dry			
JAD-MW3	5/12/2015	9:20	Dry			
JAD-MW3	6/11/2015	7:49	Dry			
JAD-MW3	7/20/2015	16:50	Dry			
JAD-MW3	8/20/2015	17:43	Dry			
JAD-MW3	9/14/2015	14:32	Dry			
JAD-MW3	10/21/2015	9:05	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
JAD-MW3	11/18/2015	14:40	Dry			
JAD-MW3	12/16/2015	13:30	Dry			
JAD-MW3	1/11/2016	15:20	Dry			
JAD-MW3	2/23/2016	16:15	Dry			
JAD-MW3	3/17/2016	14:34	Dry			
JAD-MW3	4/18/2016	14:25	Dry			
JAD-MW3	5/3/2016	13:26	Dry			
JAD-MW3	6/21/2016	14:40	Dry			
JAD-MW3	7/19/2016	9:17	Dry			
JAD-MW3	8/24/2016	7:25	Dry			
JAD-MW3	9/28/2016	13:00	Dry			
JAD-MW3	10/26/2016	16:31	Dry			
JAD-MW3	11/9/2016	9:13	Dry			
JAD-MW3	12/21/2016	15:45	Dry			
JAD-MW3	1/13/2017	8:20	Dry			
JAD-MW3	2/1/2017		N/M			
JAD-MW3	3/23/2017	10:40	Dry			
JAD-MW3	4/19/2017	9:55	Dry			
JAD-MW3	5/18/2017	8:48	Dry			
JAD-MW3	6/6/2017	7:50	Dry			
JAD-MW3	7/13/2017	7:14	Dry			
JAD-MW3	8/22/2017	10:50	Dry			
JAD-MW3	9/11/2017	13:18	Dry			
JAD-MW3	10/16/2017	16:53	67.33	201.43		
JAD-MW3	11/27/2017	12:26	Dry			
JAD-MW3	12/21/2017	14:43	66.91	201.85		
JAD-MW3	1/9/2018	16:19	61.94	206.82		
JAD-MW3	2/6/2018	11:04	60.76	208.00		
JAD-MW3	3/20/2018	11:45	64.21	204.55		
JAD-MW3	4/23/2018	17:40	65.27	203.49		
JAD-MW3	5/15/2018	13:57	65.94	202.82		
JAD-MW3	6/12/2018	15:56	63.10	205.66		
JAD-MW3	7/18/2018	6:56	67.89	200.87		
JAD-MW3	8/8/2018	6:45	63.16	205.60		
JAD-MW3	9/25/2018	10:52	68.05	200.71		
JAD-MW3	10/30/2018	17:40	68.25	200.51		
JAD-MW3	11/26/2018	13:15	Dry			
JAD-MW3	12/26/2018	12:52	68.96	199.80		
JAD-MW3	1/9/2019	7:15	Dry			
JAD-MW3	2/15/2019	7:10	Dry			
JAD-MW3	3/14/2019	10:03	69.88	198.88		
JAD-MW3	4/16/2019	15:50	69.81	198.95		
JAD-MW3	5/14/2019	11:30	Dry			
JAD-MW3	6/12/2019	6:49	67.04	201.72		
JAD-MW3	7/17/2019	7:35	63.65	205.11		
JAD-MW3	8/13/2019	12:42	59.76	209.00		
JAD-MW3	9/7/2019	7:33	57.42	211.34		
JAD-MW3	10/28/2019	15:12	66.10	202.66		
JAD-MW3	11/20/2019	10:01	64.19	204.57		
JAD-MW3	12/11/2019	15:10	54.03	214.73		
JAD-MW4s	1/23/2013	16:00	53.31	210.21	-0.06	-0.00
JAD-MW4s	2/13/2013	14:22	53.82	209.70	0.09	0.01
JAD-MW4s	3/21/2013	13:30	53.94	209.58	<|0.05|	0
JAD-MW4s	4/24/2013	14:54	54.38	209.14	0.06	0.00
JAD-MW4s	5/16/2013	11:27	55.32	208.20	0.06	0.00
JAD-MW4s	6/20/2013	8:46	57.25	206.27	0.09	0.01
JAD-MW4s	7/18/2013	14:18	59.02	204.50	0.13	0.01
JAD-MW4s	8/14/2013	9:55	59.01	204.51	-0.08	-0.01
JAD-MW4s	9/11/2013	9:33	59.45	204.07	<|0.05|	0
JAD-MW4s	10/25/2013	8:20	60.50	203.02	0.09	0.01
JAD-MW4s	11/21/2013	16:52	61.28	202.24	<|0.05|	0
JAD-MW4s	12/27/2013	9:18	62.08	201.44	<|0.05|	0
JAD-MW4s	1/14/2014	16:32	62.48	201.04	<|0.05|	0
JAD-MW4s	2/18/2014	10:19	Dry			
JAD-MW4s	3/19/2014	8:17	Dry			
JAD-MW4s	4/15/2014	8:38	Dry			
JAD-MW4s	5/29/2014	10:27	Dry			
JAD-MW4s	6/12/2014	8:08	Dry			
JAD-MW4s	7/8/2014	17:02	Dry			
JAD-MW4s	8/13/2014	9:12	Dry			
JAD-MW4s	9/24/2014	11:55	Dry			
JAD-MW4s	10/21/2014	15:33	Dry			
JAD-MW4s	11/11/2014	11:07	Dry			
JAD-MW4s	12/16/2014	15:23	Dry			
JAD-MW4s	1/8/2015	8:34	Dry			
JAD-MW4s	2/18/2015	7:41	Dry			
JAD-MW4s	3/12/2015	7:28	Dry			
JAD-MW4s	4/21/2015	6:36	Dry			
JAD-MW4s	5/12/2015	10:06	Dry			
JAD-MW4s	6/11/2015	8:32	Dry			
JAD-MW4s	7/20/2015	17:23	Dry			
JAD-MW4s	8/20/2015	16:54	Dry			
JAD-MW4s	9/14/2015	15:01	Dry			
JAD-MW4s	10/21/2015	10:10	Dry			
JAD-MW4s	11/18/2015	15:23	Dry			
JAD-MW4s	12/16/2015	14:11	Dry			
JAD-MW4s	1/11/2016	15:51	Dry			
JAD-MW4s	2/23/2016	16:50	Dry			
JAD-MW4s	3/17/2016	15:32	Dry			
JAD-MW4s	4/18/2016	15:18	Dry			
JAD-MW4s	5/3/2016	14:02	Dry			
JAD-MW4s	6/21/2016	15:03	Dry			
JAD-MW4s	7/19/2016	10:08	Dry			
JAD-MW4s	8/24/2016	8:05	Dry			
JAD-MW4s	9/28/2016	12:00	Dry			
JAD-MW4s	10/26/2016	17:09	Dry			
JAD-MW4s	11/9/2016	9:04	Dry			
JAD-MW4s	12/21/2016	16:30	Dry			
JAD-MW4s	1/13/2017	8:33	Dry			
JAD-MW4s	2/1/2017		N/M			
JAD-MW4s	3/23/2017	9:42	Dry			
JAD-MW4s	4/19/2017	10:00	Dry			
JAD-MW4s	5/18/2017	8:24	Dry			
JAD-MW4s	6/6/2017	7:41	Dry			
JAD-MW4s	7/13/2017	7:34	Dry			
JAD-MW4s	8/22/2017	11:05	Dry			
JAD-MW4s	9/11/2017	13:57	Dry			
JAD-MW4s	10/16/2017	15:59	Dry			
JAD-MW4s	11/27/2017	12:18	Dry			
JAD-MW4s	12/21/2017	15:52	Dry			
JAD-MW4s	1/9/2018	16:46	Dry			
JAD-MW4s	2/6/2018	10:08	Dry			
JAD-MW4s	3/20/2018	13:05	Dry			
JAD-MW4s	4/23/2018	18:28	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
JAD-MW4s	5/15/2018	14:47	Dry			
JAD-MW4s	6/12/2018	16:55	Dry			
JAD-MW4s	7/18/2018	7:42	Dry			
JAD-MW4s	8/8/2018	7:19	Dry			
JAD-MW4s	9/25/2018	11:10	Dry			
JAD-MW4s	10/30/2018	17:32	Dry			
JAD-MW4s	11/26/2018	13:50	Dry			
JAD-MW4s	12/26/2018	13:30	Dry			
JAD-MW4s	1/9/2019	7:52	Dry			
JAD-MW4s	2/15/2019	7:47	Dry			
JAD-MW4s	3/14/2019	9:13	Dry			
JAD-MW4s	4/16/2019	16:30	Dry			
JAD-MW4s	5/14/2019	11:38	Dry			
JAD-MW4s	6/12/2019	7:29	Dry			
JAD-MW4s	7/17/2019	6:40	Dry			
JAD-MW4s	8/13/2019	13:42	Dry			
JAD-MW4s	9/7/2019	6:52	Dry			
JAD-MW4s	10/28/2019	15:06	Dry			
JAD-MW4s	11/20/2019	10:29	Dry			
JAD-MW4s	12/11/2019	15:24	Dry			
JAD-MW4d	1/23/2013	16:03	53.11	210.27		
JAD-MW4d	2/13/2013	14:26	53.77	209.61		
JAD-MW4d	3/21/2013	13:33	53.83	209.55		
JAD-MW4d	4/24/2013	14:57	54.30	209.08		
JAD-MW4d	5/16/2013	11:29	55.24	208.14		
JAD-MW4d	6/20/2013	8:49	57.20	206.18		
JAD-MW4d	7/18/2013	14:21	59.01	204.37		
JAD-MW4d	8/14/2013	9:58	58.79	204.59		
JAD-MW4d	9/11/2013	9:36	59.34	204.04		
JAD-MW4d	10/25/2013	8:25	60.45	202.93		
JAD-MW4d	11/21/2013	16:54	61.13	202.25		
JAD-MW4d	12/27/2013	9:22	61.96	201.42		
JAD-MW4d	1/14/2014	16:36	62.36	201.02		
JAD-MW4d	2/18/2014	10:24	63.72	199.66		
JAD-MW4d	3/19/2014	8:22	64.15	199.23		
JAD-MW4d	4/15/2014	8:41	64.96	198.42		
JAD-MW4d	5/29/2014	10:30	66.28	197.10		
JAD-MW4d	6/12/2014	8:10	66.76	196.62		
JAD-MW4d	7/8/2014	17:58	67.31	196.07		
JAD-MW4d	8/13/2014	9:15	68.43	194.95		
JAD-MW4d	9/24/2014	12:00	69.67	193.71		
JAD-MW4d	10/21/2014	15:35	70.50	192.88		
JAD-MW4d	11/11/2014	11:10	71.04	192.34		
JAD-MW4d	12/16/2014	15:25	71.92	191.46		
JAD-MW4d	1/8/2015	8:37	72.39	190.99		
JAD-MW4d	2/18/2015	7:43	73.22	190.16		
JAD-MW4d	3/12/2015	7:30	73.69	189.69		
JAD-MW4d	4/21/2015	6:38	74.58	188.80		
JAD-MW4d	5/12/2015	10:10	75.00	188.38		
JAD-MW4d	6/11/2015	8:35	75.60	187.78		
JAD-MW4d	7/20/2015	17:26	76.49	186.89		
JAD-MW4d	8/20/2015	16:57	77.42	185.96		
JAD-MW4d	9/14/2015	15:04	77.52	185.86		
JAD-MW4d	10/21/2015	10:15	Dry			
JAD-MW4d	11/18/2015	15:26	Dry			
JAD-MW4d	12/16/2015	14:14	Dry			
JAD-MW4d	1/11/2016	15:54	Dry			
JAD-MW4d	2/23/2016	16:55	Dry			
JAD-MW4d	3/17/2016	15:30	Dry			
JAD-MW4d	4/18/2016	15:21	Dry			
JAD-MW4d	5/3/2016	14:04	Dry			
JAD-MW4d	6/21/2016	15:07	Dry			
JAD-MW4d	7/19/2016	10:10	Dry			
JAD-MW4d	8/24/2016	8:08	Dry			
JAD-MW4d	9/28/2016	12:05	Dry			
JAD-MW4d	10/26/2016	17:13	Dry			
JAD-MW4d	11/9/2016	9:06	Dry			
JAD-MW4d	12/21/2016	16:26	Dry			
JAD-MW4d	1/13/2017	8:31	Dry			
JAD-MW4d	2/1/2017		N/M			
JAD-MW4d	3/23/2017	9:40	Dry			
JAD-MW4d	4/19/2017	10:04	Dry			
JAD-MW4d	5/18/2017	8:26	Dry			
JAD-MW4d	6/6/2017	7:39	Dry			
JAD-MW4d	7/13/2017	7:34	Dry			
JAD-MW4d	8/22/2017	11:10	Dry			
JAD-MW4d	9/11/2017	14:01	Dry			
JAD-MW4d	10/16/2017	16:01	75.41	187.97		
JAD-MW4d	11/27/2017	11:59	75.32	188.06		
JAD-MW4d	12/21/2017	15:55	77.10	186.28		
JAD-MW4d	1/9/2018	16:48	71.30	192.08		
JAD-MW4d	2/6/2018	10:10	70.76	192.62		
JAD-MW4d	3/20/2018	13:10	70.49	192.89		
JAD-MW4d	4/23/2018	18:31	70.54	192.84		
JAD-MW4d	5/15/2018	14:48	70.60	192.78		
JAD-MW4d	6/12/2018	17:00	70.70	192.68		
JAD-MW4d	7/18/2018	7:40	70.74	192.64		
JAD-MW4d	8/8/2018	7:17	70.90	192.48		
JAD-MW4d	9/25/2018	11:13	70.97	192.41		
JAD-MW4d	10/30/2018	17:34	71.04	192.34		
JAD-MW4d	11/26/2018	13:52	68.80	194.58		
JAD-MW4d	12/26/2018	13:31	66.32	197.06		
JAD-MW4d	1/9/2019	7:51	66.20	197.18		
JAD-MW4d	2/15/2019	7:49	Dry			
JAD-MW4d	3/14/2019	9:15	68.88	194.50		
JAD-MW4d	4/16/2019	16:32	67.66	195.72		
JAD-MW4d	5/14/2019	11:41	67.10	196.28		
JAD-MW4d	6/12/2019	7:30	67.01	196.37		
JAD-MW4d	7/17/2019	6:37	66.71	196.67		
JAD-MW4d	8/13/2019	13:45	66.30	197.08		
JAD-MW4d	9/7/2019	6:50	66.10	197.28		
JAD-MW4d	10/28/2019	15:08	67.99	195.39		
JAD-MW4d	11/20/2019	10:30	66.00	197.38		
JAD-MW4d	12/11/2019	15:22	71.37	192.01		
JAD-MW5s	1/23/2013	15:45	60.00	207.68		
JAD-MW5s	2/13/2013	14:13	60.40	207.28		
JAD-MW5s	3/21/2013	13:00	61.68	206.00		
JAD-MW5s	4/24/2013	14:45	62.24	205.44		
JAD-MW5s	5/16/2013	11:22	62.86	204.82		
JAD-MW5s	6/20/2013	8:38	63.97	203.71		
JAD-MW5s	7/18/2013	13:54	64.89	202.79		
JAD-MW5s	8/14/2013	9:40	65.70	201.98		
JAD-MW5s	9/11/2013	9:22	66.37	201.31		
JAD-MW5s	10/25/2013	8:09	67.13	200.55		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
JAD-MW5s	11/21/2013	16:59	67.53	200.15		
JAD-MW5s	12/27/2013	9:06	68.17	199.51		
JAD-MW5s	1/14/2014	16:26	68.43	199.25		
JAD-MW5s	2/18/2014	10:35	69.54	198.14		
JAD-MW5s	3/19/2014	8:06	70.35	197.33		
JAD-MW5s	4/15/2014	8:25	71.32	196.36		
JAD-MW5s	5/29/2014	10:39	72.59	195.09		
JAD-MW5s	6/12/2014	7:58	73.19	194.49		
JAD-MW5s	7/8/2014	16:52	73.96	193.72		
JAD-MW5s	8/13/2014	8:59	75.33	192.35		
JAD-MW5s	9/24/2014	11:45	76.75	190.93		
JAD-MW5s	10/21/2014	15:28	77.50	190.18		
JAD-MW5s	11/11/2014	11:38	78.00	189.68		
JAD-MW5s	12/16/2014	15:30	78.64	189.04		
JAD-MW5s	1/8/2015	8:25	78.93	188.75		
JAD-MW5s	2/18/2015	7:48	79.86	187.82		
JAD-MW5s	3/12/2015	7:20	80.47	187.21		
JAD-MW5s	4/21/2015	6:28	Dry			
JAD-MW5s	5/12/2015	9:56	82.31	185.37		
JAD-MW5s	6/11/2015	8:24	Dry			
JAD-MW5s	7/20/2015	17:16	Dry			
JAD-MW5s	8/20/2015	17:05	Dry			
JAD-MW5s	9/14/2015	14:54	Dry			
JAD-MW5s	10/21/2015	9:55	Dry			
JAD-MW5s	11/18/2015	15:15	Dry			
JAD-MW5s	12/16/2015	14:01	Dry			
JAD-MW5s	1/11/2016	15:25	Dry			
JAD-MW5s	2/23/2016	16:42	Dry			
JAD-MW5s	3/17/2016	15:20	Dry			
JAD-MW5s	4/18/2016	15:08	Dry			
JAD-MW5s	5/3/2016	13:53	Dry			
JAD-MW5s	6/21/2016	15:20	Dry			
JAD-MW5s	7/19/2016	9:56	Dry			
JAD-MW5s	8/24/2016	8:20	Dry			
JAD-MW5s	9/28/2016	23:40	Dry			
JAD-MW5s	10/26/2016	16:59	Dry			
JAD-MW5s	11/9/2016	8:56	Dry			
JAD-MW5s	12/21/2016	16:19	Dry			
JAD-MW5s	1/13/2017	8:49	Dry			
JAD-MW5s	2/1/2017		N/M			
JAD-MW5s	3/23/2017	9:53	Dry			
JAD-MW5s	4/19/2017	10:15	Dry			
JAD-MW5s	5/18/2017	8:14	72.96	194.72		
JAD-MW5s	6/6/2017	7:33	Dry			
JAD-MW5s	7/13/2017	7:25	Dry			
JAD-MW5s	8/22/2017	10:45	71.00	196.68		
JAD-MW5s	9/11/2017	13:49	70.68	197.00		
JAD-MW5s	10/16/2017	16:20	69.90	197.78		
JAD-MW5s	11/27/2017	12:09	70.63	197.05		
JAD-MW5s	12/21/2017	15:42	71.92	195.76		
JAD-MW5s	1/9/2018	16:59	71.10	196.58		
JAD-MW5s	2/6/2018	10:20	70.36	197.32		
JAD-MW5s	3/20/2018	13:15	73.37	194.31		
JAD-MW5s	4/23/2018	18:17	74.35	193.33		
JAD-MW5s	5/15/2018	14:33	74.60	193.08		
JAD-MW5s	6/12/2018	16:48	75.26	192.42		
JAD-MW5s	7/18/2018	7:32	76.97	190.71		
JAD-MW5s	8/8/2018	7:09	75.41	192.27		
JAD-MW5s	9/25/2018	11:23	76.73	190.95		
JAD-MW5s	10/30/2018	17:25	77.10	190.58		
JAD-MW5s	11/26/2018	13:45	77.53	190.15		
JAD-MW5s	12/26/2018	13:23	77.70	189.98		
JAD-MW5s	1/9/2019	7:42	77.79	189.89		
JAD-MW5s	2/15/2019	7:30	Dry			
JAD-MW5s	3/14/2019	9:22	77.91	189.77		
JAD-MW5s	4/16/2019	16:21	76.08	191.60		
JAD-MW5s	5/14/2019	11:52	74.30	193.38		
JAD-MW5s	6/12/2019	7:19	71.20	196.48		
JAD-MW5s	7/17/2019	6:53	69.41	198.27		
JAD-MW5s	8/13/2019	13:36	69.20	198.48		
JAD-MW5s	9/7/2019	6:55	69.92	197.76		
JAD-MW5s	10/28/2019	15:01	69.80	197.88		
JAD-MW5s	11/20/2019	10:22	69.53	198.15		
JAD-MW5s	12/11/2019	15:29	71.31	196.37		
JAD-MW5d	1/23/2013	15:48	Obs			
JAD-MW5d	2/13/2013	14:16	Obs			
JAD-MW5d	3/21/2013	13:05	Obs			
JAD-MW5d	4/24/2013	14:48	Obs			
JAD-MW5d	5/16/2013	11:24	Obs			
JAD-MW5d	6/20/2013	8:41	Obs			
JAD-MW5d	7/18/2013	13:57	Obs			
JAD-MW5d	8/14/2013	9:42	Obs			
JAD-MW5d	9/11/2013	9:24	Obs			
JAD-MW5d	10/25/2013	8:13	Obs			
JAD-MW5d	11/21/2013	17:01	Obs			
JAD-MW5d	12/27/2013	9:08	Obs			
JAD-MW5d	1/14/2014	16:29	Obs			
JAD-MW5d	2/18/2014	10:39	Obs			
JAD-MW5d	3/19/2014	8:11	Obs			
JAD-MW5d	4/15/2014	8:29	Obs			
JAD-MW5d	5/29/2014	10:36	Obs			
JAD-MW5d	6/12/2014	8:02	Obs			
JAD-MW5d	7/8/2014	16:55	Obs			
JAD-MW5d	8/13/2014	9:03	Obs			
JAD-MW5d	9/24/2014	11:50	Obs			
JAD-MW5d	10/21/2014	15:25	Obs			
JAD-MW5d	11/11/2014	11:41	Obs			
JAD-MW5d	12/16/2014	15:32	Obs			
JAD-MW5d	1/8/2015	8:28	Obs			
JAD-MW5d	2/18/2015	7:51	Obs			
JAD-MW5d	3/12/2015	7:23	Obs			
JAD-MW5d	4/21/2015	6:30	Obs			
JAD-MW5d	5/12/2015	9:59	Obs			
JAD-MW5d	6/11/2015	8:27	Obs			
JAD-MW5d	7/20/2015	17:18	Obs			
JAD-MW5d	8/20/2015	17:08	Obs			
JAD-MW5d	9/14/2015	14:56	Obs			
JAD-MW5d	10/21/2015	10:00	Obs			
JAD-MW5d	11/18/2015	15:18	Obs			
JAD-MW5d	12/16/2015	14:06	Obs			
JAD-MW5d	1/11/2016	15:28	Obs			
JAD-MW5d	2/23/2016	16:45	Obs			
JAD-MW5d	3/17/2016	15:22	Obs			
JAD-MW5d	4/18/2016	15:12	Obs			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
JAD-MW5d	5/3/2016	13:56	Obs			
JAD-MW5d	6/21/2016	15:23	Obs			
JAD-MW5d	7/19/2016	10:00	Obs			
JAD-MW5d	8/24/2016	8:23	Obs			
JAD-MW5d	9/28/2016	11:45	Obs			
JAD-MW5d	10/26/2016	17:02	Obs			
JAD-MW5d	11/9/2016	8:59	Obs			
JAD-MW5d	12/21/2016	16:17	Obs			
JAD-MW5d	1/13/2017	8:51	Obs			
JAD-MW5d	2/1/2017		N/M			
JAD-MW5d	3/23/2017	9:55	Obs			
JAD-MW5d	4/19/2017	10:18	Obs			
JAD-MW5d	5/18/2017	8:12	Obs			
JAD-MW5d	6/6/2017	7:35	Obs			
JAD-MW5d	7/13/2017	7:25	Obs			
JAD-MW5d	8/22/2017	10:50	Obs			
JAD-MW5d	9/11/2017	13:51	Obs			
JAD-MW5d	10/16/2017	16:24	Obs			
JAD-MW5d	11/27/2017	12:06	Obs			
JAD-MW5d	12/21/2017	15:40	Obs			
JAD-MW5d	1/9/2018	16:57	Obs			
JAD-MW5d	2/6/2018	10:24	Obs			
JAD-MW5d	3/20/2018	13:20	Obs			
JAD-MW5d	4/23/2018	18:20	Obs			
JAD-MW5d	5/15/2018	14:34	Obs			
JAD-MW5d	6/12/2018	16:46	Obs			
JAD-MW5d	7/18/2018	7:33	Obs			
JAD-MW5d	8/8/2018	7:11	Obs			
JAD-MW5d	9/25/2018	11:26	Obs			
JAD-MW5d	10/30/2018	17:27	Obs			
JAD-MW5d	11/26/2018	13:47	Obs			
JAD-MW5d	12/26/2018	13:24	Obs			
JAD-MW5d	1/9/2019	7:43	Obs			
JAD-MW5d	2/15/2019	7:32	Obs			
JAD-MW5d	3/14/2019	9:25	Obs			
JAD-MW5d	4/16/2019	16:23	Obs			
JAD-MW5d	5/14/2019	11:56	Obs			
JAD-MW5d	6/12/2019	7:20	Obs			
JAD-MW5d	7/17/2019	6:50	Obs			
JAD-MW5d	8/13/2019	13:33	Obs			
JAD-MW5d	9/7/2019	6:57	Obs			
JAD-MW5d	10/28/2019	15:02	Obs			
JAD-MW5d	11/20/2019	10:23	Obs			
JAD-MW5d	12/11/2019	15:31	Obs			
JAD-MW6s	1/23/2013	15:35	60.49	210.45	0.52	0.02
JAD-MW6s	2/13/2013	14:05	60.84	210.10	0.57	0.02
JAD-MW6s	3/21/2013	12:15	61.54	209.40	1.16	0.05
JAD-MW6s	4/24/2013	14:37	62.47	208.47	1.35	0.06
JAD-MW6s	5/16/2013	11:17	63.43	207.51	1.32	0.06
JAD-MW6s	6/20/2013	8:27	64.99	205.95	1.41	0.06
JAD-MW6s	7/18/2013	14:05	67.01	203.93	0.12	0.01
JAD-MW6s	8/14/2013	9:45	66.10	204.84	1.00	0.04
JAD-MW6s	9/11/2013	9:12	66.24	204.70	1.03	0.04
JAD-MW6s	10/25/2013	7:54	67.51	203.43	<|0.05|	0
JAD-MW6s	11/21/2013	17:07	67.29	203.65	0.95	0.04
JAD-MW6s	12/27/2013	8:55	68.38	202.56	0.85	0.04
JAD-MW6s	1/14/2014	16:22	69.09	201.85	0.81	0.04
JAD-MW6s	2/18/2014	10:30	70.64	200.30	0.16	0.01
JAD-MW6s	3/19/2014	7:50	72.05	198.89	0.78	0.03
JAD-MW6s	4/15/2014	8:12	Dry			
JAD-MW6s	5/29/2014	10:45	Dry			
JAD-MW6s	6/12/2014	7:47	Dry			
JAD-MW6s	7/8/2014	14:41	Dry			
JAD-MW6s	8/13/2014	8:46	Dry			
JAD-MW6s	9/24/2014	11:35	Dry			
JAD-MW6s	10/21/2014	15:18	Dry			
JAD-MW6s	11/11/2014	11:26	Dry			
JAD-MW6s	12/16/2014	15:36	Dry			
JAD-MW6s	1/8/2015	8:17	Dry			
JAD-MW6s	2/18/2015	7:57	Dry			
JAD-MW6s	3/12/2015	7:13	Dry			
JAD-MW6s	4/21/2015	6:43	Dry			
JAD-MW6s	5/12/2015	9:47	Dry			
JAD-MW6s	6/11/2015	8:15	Dry			
JAD-MW6s	7/20/2015	17:10	Dry			
JAD-MW6s	8/20/2015	17:11	Dry			
JAD-MW6s	9/14/2015	14:46	Dry			
JAD-MW6s	10/21/2015	9:40	Dry			
JAD-MW6s	11/18/2015	15:07	Dry			
JAD-MW6s	12/16/2015	13:53	Dry			
JAD-MW6s	1/11/2016	15:33	Dry			
JAD-MW6s	2/23/2016	16:34	Dry			
JAD-MW6s	3/17/2016	15:10	Dry			
JAD-MW6s	4/18/2016	14:58	Dry			
JAD-MW6s	5/3/2016	13:42	Dry			
JAD-MW6s	6/21/2016	15:37	Dry			
JAD-MW6s	7/19/2016	9:45	Dry			
JAD-MW6s	8/24/2016	7:55	Dry			
JAD-MW6s	9/28/2016	11:30	Dry			
JAD-MW6s	10/26/2016	16:51	Dry			
JAD-MW6s	11/9/2016	8:49	Dry			
JAD-MW6s	12/21/2016	16:11	Dry			
JAD-MW6s	1/13/2017	9:12	Dry			
JAD-MW6s	2/1/2017		N/M			
JAD-MW6s	3/23/2017	10:05	Dry			
JAD-MW6s	4/19/2017	10:24	Dry			
JAD-MW6s	5/18/2017	8:07	Dry			
JAD-MW6s	6/6/2017	7:28	Dry			
JAD-MW6s	7/13/2017	7:44	Dry			
JAD-MW6s	8/22/2017	10:30	Dry			
JAD-MW6s	9/11/2017	13:43	Dry			
JAD-MW6s	10/16/2017	16:31	Dry			
JAD-MW6s	11/27/2017	12:02	Dry			
JAD-MW6s	12/21/2017	15:23	Dry			
JAD-MW6s	1/9/2018	16:38	Dry			
JAD-MW6s	2/6/2018	10:32	Dry			
JAD-MW6s	3/20/2018	12:50	Dry			
JAD-MW6s	4/23/2018	18:06	Dry			
JAD-MW6s	5/15/2018	14:23	Dry			
JAD-MW6s	6/12/2018	16:40	Dry			
JAD-MW6s	7/18/2018	7:22	Dry			
JAD-MW6s	8/8/2018	7:28	Dry			
JAD-MW6s	9/25/2018	11:36	Dry			
JAD-MW6s	10/30/2018	11:18	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
JAD-MW6s	11/26/2018	13:35	Dry			
JAD-MW6s	12/26/2018	13:17	Dry			
JAD-MW6s	1/9/2019	7:34	Dry			
JAD-MW6s	2/15/2019	7:31	Dry			
JAD-MW6s	3/14/2019	9:33	Dry			
JAD-MW6s	4/16/2019	16:12	Dry			
JAD-MW6s	5/14/2019	12:06	Dry			
JAD-MW6s	6/12/2019	7:11	Dry			
JAD-MW6s	7/17/2019	7:00	Dry			
JAD-MW6s	8/13/2019	13:19	71.30	199.64	2.09	0.09
JAD-MW6s	9/7/2019	7:07	71.00	199.94	1.09	0.05
JAD-MW6s	10/28/2019	14:53	71.02	199.92	0.99	0.04
JAD-MW6s	11/20/2019	10:14	Dry			
JAD-MW6s	12/11/2019	15:39	70.71	200.23	-0.06	-0.00
JAD-MW6d	1/23/2013	15:38	60.95	209.93		
JAD-MW6d	2/13/2013	14:08	61.35	209.53		
JAD-MW6d	3/21/2013	12:20	62.64	208.24		
JAD-MW6d	4/24/2013	14:40	63.76	207.12		
JAD-MW6d	5/16/2013	11:19	64.69	206.19		
JAD-MW6d	6/20/2013	8:30	66.34	204.54		
JAD-MW6d	7/18/2013	14:10	67.07	203.81		
JAD-MW6d	8/14/2013	9:48	67.04	203.84		
JAD-MW6d	9/11/2013	9:15	67.21	203.67		
JAD-MW6d	10/25/2013	7:57	67.48	203.40		
JAD-MW6d	11/21/2013	17:09	68.18	202.70		
JAD-MW6d	12/27/2013	8:57	69.17	201.71		
JAD-MW6d	1/14/2014	16:24	69.84	201.04		
JAD-MW6d	2/18/2014	10:26	70.74	200.14		
JAD-MW6d	3/19/2014	7:54	72.77	198.11		
JAD-MW6d	4/15/2014	8:16	74.34	196.54		
JAD-MW6d	5/29/2014	10:48	76.56	194.32		
JAD-MW6d	6/12/2014	7:50	77.41	193.47		
JAD-MW6d	7/8/2014	14:45	78.57	192.31		
JAD-MW6d	8/13/2014	8:49	79.72	191.16		
JAD-MW6d	9/24/2014	11:38	78.66	192.22		
JAD-MW6d	10/21/2014	15:15	78.14	192.74		
JAD-MW6d	11/11/2014	11:30	78.58	192.30		
JAD-MW6d	12/16/2014	15:38	79.52	191.36		
JAD-MW6d	1/8/2015	8:20	79.88	191.00		
JAD-MW6d	2/18/2015	8:00	81.50	189.38		
JAD-MW6d	3/12/2015	7:15	82.36	188.52		
JAD-MW6d	4/21/2015	6:45	83.85	187.03		
JAD-MW6d	5/12/2015	9:50	84.58	186.30		
JAD-MW6d	6/11/2015	8:18	85.58	185.30		
JAD-MW6d	7/20/2015	17:13	87.23	183.65		
JAD-MW6d	8/20/2015	17:13	88.23	182.65		
JAD-MW6d	9/14/2015	14:48	88.90	181.98		
JAD-MW6d	10/21/2015	9:45	Dry			
JAD-MW6d	11/18/2015	15:10	89.59	181.29		
JAD-MW6d	12/16/2015	13:56	89.72	181.16		
JAD-MW6d	1/11/2016	15:36	89.99	180.89		
JAD-MW6d	2/23/2016	16:37	90.58	180.30		
JAD-MW6d	3/17/2016	15:12	91.32	179.56		
JAD-MW6d	4/18/2016	15:02	91.90	178.98		
JAD-MW6d	5/3/2016	13:45	92.82	178.06		
JAD-MW6d	6/21/2016	15:40	94.35	176.53		
JAD-MW6d	7/19/2016	9:48	95.47	175.41		
JAD-MW6d	8/24/2016	7:58	Dry			
JAD-MW6d	9/28/2016	11:35	93.82	177.06		
JAD-MW6d	10/26/2016	16:54	91.93	178.95		
JAD-MW6d	11/9/2016	8:52	Dry			
JAD-MW6d	12/21/2016	16:09	Dry			
JAD-MW6d	1/13/2017	9:10	Dry			
JAD-MW6d	2/1/2017		N/M			
JAD-MW6d	3/23/2017	10:03	Dry			
JAD-MW6d	4/19/2017	10:28	94.49	176.39		
JAD-MW6d	5/18/2017	8:05	95.89	174.99		
JAD-MW6d	6/6/2017	7:26	95.21	175.67		
JAD-MW6d	7/13/2017	7:44	93.18	177.70		
JAD-MW6d	8/22/2017	10:34	81.00	189.88		
JAD-MW6d	9/11/2017	13:45	78.85	192.03		
JAD-MW6d	10/16/2017	16:34	75.70	195.18		
JAD-MW6d	11/27/2017	12:15	76.19	194.69		
JAD-MW6d	12/21/2017	15:26	80.15	190.73		
JAD-MW6d	1/9/2018	16:40	74.34	196.54		
JAD-MW6d	2/6/2018	10:34	73.28	197.60		
JAD-MW6d	3/20/2018	12:55	77.10	193.78		
JAD-MW6d	4/23/2018	18:10	78.45	192.43		
JAD-MW6d	5/15/2018	14:24	79.10	191.78		
JAD-MW6d	6/12/2018	16:38	76.13	194.75		
JAD-MW6d	7/18/2018	7:24	81.56	189.32		
JAD-MW6d	8/8/2018	7:26	77.02	193.86		
JAD-MW6d	9/25/2018	11:39	82.78	188.10		
JAD-MW6d	10/30/2018	11:20	82.10	188.78		
JAD-MW6d	11/26/2018	13:36	81.83	189.05		
JAD-MW6d	12/26/2018	13:18	81.45	189.43		
JAD-MW6d	1/9/2019	7:35	81.39	189.49		
JAD-MW6d	2/15/2019	7:33	81.25	189.63		
JAD-MW6d	3/14/2019	9:36	81.17	189.71		
JAD-MW6d	4/16/2019	16:19	78.85	192.03		
JAD-MW6d	5/14/2019	12:09	75.90	194.98		
JAD-MW6d	6/12/2019	7:12	73.43	197.45		
JAD-MW6d	7/17/2019	7:03	72.27	198.61		
JAD-MW6d	8/13/2019	13:22	73.33	197.55		
JAD-MW6d	9/7/2019	7:05	72.03	198.85		
JAD-MW6d	10/28/2019	14:55	71.95	198.93		
JAD-MW6d	11/20/2019	10:15	71.64	199.24		
JAD-MW6d	12/11/2019	15:41	70.59	200.29		
JAD-MW7s	1/23/2013	15:30	61.73	210.99	0.49	0.03
JAD-MW7s	2/13/2013	13:52	62.53	210.19	0.42	0.02
JAD-MW7s	3/21/2013	11:33	64.14	208.58	0.40	0.02
JAD-MW7s	4/24/2013	14:30	65.74	206.98	0.36	0.02
JAD-MW7s	5/16/2013	11:10	67.11	205.61	0.33	0.02
JAD-MW7s	6/20/2013	8:20	Dry			
JAD-MW7s	7/18/2013	13:45	Dry			
JAD-MW7s	8/14/2013	10:02	Dry			
JAD-MW7s	9/11/2013	9:00	Dry			
JAD-MW7s	10/25/2013	7:44	Dry			
JAD-MW7s	11/21/2013	17:15	Dry			
JAD-MW7s	12/27/2013	8:45	Dry			
JAD-MW7s	1/14/2014	16:17	Dry			
JAD-MW7s	2/18/2014	10:16	Dry			
JAD-MW7s	3/19/2014	7:37	Dry			
JAD-MW7s	4/15/2014	8:04	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
JAD-MW7s	5/29/2014	10:57	Dry			
JAD-MW7s	6/12/2014	7:39	Dry			
JAD-MW7s	7/8/2014	16:34	Dry			
JAD-MW7s	8/13/2014	8:34	Dry			
JAD-MW7s	9/24/2014	11:25	Dry			
JAD-MW7s	10/21/2014	15:48	Dry			
JAD-MW7s	11/11/2014	11:17	Dry			
JAD-MW7s	12/16/2014	15:42	Dry			
JAD-MW7s	1/8/2015	8:09	Dry			
JAD-MW7s	2/18/2015	8:05	Dry			
JAD-MW7s	3/12/2015	7:07	Dry			
JAD-MW7s	4/21/2015	6:49	Dry			
JAD-MW7s	5/12/2015	9:38	Dry			
JAD-MW7s	6/11/2015	8:08	Dry			
JAD-MW7s	7/20/2015	17:03	Dry			
JAD-MW7s	8/20/2015	17:15	Dry			
JAD-MW7s	9/14/2015	14:40	Dry			
JAD-MW7s	10/21/2015	9:30	Dry			
JAD-MW7s	11/18/2015	14:58	Dry			
JAD-MW7s	12/16/2015	13:45	Dry			
JAD-MW7s	1/11/2016	15:41	Dry			
JAD-MW7s	2/23/2016	16:26	Dry			
JAD-MW7s	3/17/2016	14:59	Dry			
JAD-MW7s	4/18/2016	14:48	Dry			
JAD-MW7s	5/3/2016	13:34	Dry			
JAD-MW7s	6/21/2016	15:49	Dry			
JAD-MW7s	7/19/2016	9:35	Dry			
JAD-MW7s	8/24/2016	7:47	Dry			
JAD-MW7s	9/28/2016	0:35	Dry			
JAD-MW7s	10/26/2016	16:40	Dry			
JAD-MW7s	11/9/2016	8:44	Dry			
JAD-MW7s	12/21/2016	15:59	Dry			
JAD-MW7s	1/13/2017	9:20	Dry			
JAD-MW7s	2/1/2017		N/M			
JAD-MW7s	3/23/2017	10:14	Dry			
JAD-MW7s	4/19/2017	10:35	Dry			
JAD-MW7s	5/18/2017	7:59	Dry			
JAD-MW7s	6/6/2017	7:21	Dry			
JAD-MW7s	7/13/2017	7:51	Dry			
JAD-MW7s	8/22/2017	10:45	Dry			
JAD-MW7s	9/11/2017	13:35	Dry			
JAD-MW7s	10/16/2017	16:38	Dry			
JAD-MW7s	11/27/2017	11:50	Dry			
JAD-MW7s	12/21/2017	15:10	Dry			
JAD-MW7s	1/9/2018	16:30	Dry			
JAD-MW7s	2/6/2018	10:42	Dry			
JAD-MW7s	3/20/2018	12:35	Dry			
JAD-MW7s	4/23/2018	17:58	Dry			
JAD-MW7s	5/15/2018	14:14	Dry			
JAD-MW7s	6/12/2018	16:27	Dry			
JAD-MW7s	7/18/2018	7:15	Dry			
JAD-MW7s	8/8/2018	7:39	Dry			
JAD-MW7s	9/25/2018	11:55	Dry			
JAD-MW7s	10/30/2018	17:11	Dry			
JAD-MW7s	11/26/2018	13:25	Dry			
JAD-MW7s	12/26/2018	13:12	Dry			
JAD-MW7s	1/9/2019	7:29	Dry			
JAD-MW7s	2/15/2019	7:18	Dry			
JAD-MW7s	3/14/2019	9:42	Dry			
JAD-MW7s	4/16/2019	16:09	Dry			
JAD-MW7s	5/14/2019	12:16	Dry			
JAD-MW7s	6/12/2019	7:02	Dry			
JAD-MW7s	7/17/2019	7:07	Dry			
JAD-MW7s	8/13/2019	13:05	Dry			
JAD-MW7s	9/7/2019	7:13	Dry			
JAD-MW7s	10/28/2019	14:45	Dry			
JAD-MW7s	11/20/2019	10:09	Dry			
JAD-MW7s	12/11/2019	15:47	Dry			
JAD-MW7d	1/23/2013	15:32	62.01	210.50		
JAD-MW7d	2/13/2013	13:56	62.74	209.77		
JAD-MW7d	3/21/2013	11:36	64.33	208.18		
JAD-MW7d	4/24/2013	14:33	65.89	206.62		
JAD-MW7d	5/16/2013	11:12	67.23	205.28		
JAD-MW7d	6/20/2013	8:23	69.43	203.08		
JAD-MW7d	7/18/2013	13:48	69.88	202.63		
JAD-MW7d	8/14/2013	10:04	70.33	202.18		
JAD-MW7d	9/11/2013	9:04	70.70	201.81		
JAD-MW7d	10/25/2013	7:47	71.21	201.30		
JAD-MW7d	11/21/2013	17:17	71.92	200.59		
JAD-MW7d	12/27/2013	8:48	72.76	199.75		
JAD-MW7d	1/14/2014	16:20	73.35	199.16		
JAD-MW7d	2/18/2014	10:20	68.13	204.38		
JAD-MW7d	3/19/2014	7:41	76.53	195.98		
JAD-MW7d	4/15/2014	8:07	78.03	194.48		
JAD-MW7d	5/29/2014	11:01	80.18	192.33		
JAD-MW7d	6/12/2014	7:42	82.04	190.47		
JAD-MW7d	7/8/2014	16:37	Dry			
JAD-MW7d	8/13/2014	8:37	Dry			
JAD-MW7d	9/24/2014	11:28	Dry			
JAD-MW7d	10/21/2014	15:45	82.13	190.38		
JAD-MW7d	11/11/2014	11:19	Dry			
JAD-MW7d	12/16/2014	15:44	Dry			
JAD-MW7d	1/8/2015	8:12	Dry			
JAD-MW7d	2/18/2015	8:08	Dry			
JAD-MW7d	3/12/2015	7:09	Dry			
JAD-MW7d	4/21/2015	6:51	Dry			
JAD-MW7d	5/12/2015	9:41	Dry			
JAD-MW7d	6/11/2015	8:11	Dry			
JAD-MW7d	7/20/2015	17:05	Dry			
JAD-MW7d	8/20/2015	17:18	Dry			
JAD-MW7d	9/14/2015	14:42	Dry			
JAD-MW7d	10/21/2015	9:35	Dry			
JAD-MW7d	11/18/2015	15:01	Dry			
JAD-MW7d	12/16/2015	13:48	Dry			
JAD-MW7d	1/11/2016	15:44	Dry			
JAD-MW7d	2/23/2016	16:29	Dry			
JAD-MW7d	3/17/2016	15:01	Dry			
JAD-MW7d	4/18/2016	14:51	Dry			
JAD-MW7d	5/3/2016	13:37	Dry			
JAD-MW7d	6/21/2016	15:52	Dry			
JAD-MW7d	7/19/2016	9:38	Dry			
JAD-MW7d	8/24/2016	7:50	Dry			
JAD-MW7d	9/28/2016	0:40	Dry			
JAD-MW7d	10/26/2016	16:43	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
JAD-MW7d	11/9/2016	8:46	Dry			
JAD-MW7d	12/21/2016	16:04	Dry			
JAD-MW7d	1/13/2017	9:22	Dry			
JAD-MW7d	2/1/2017		N/M			
JAD-MW7d	3/23/2017	10:16	Dry			
JAD-MW7d	4/19/2017	10:40	Dry			
JAD-MW7d	5/18/2017	7:56	Dry			
JAD-MW7d	6/6/2017	7:19	Dry			
JAD-MW7d	7/13/2017	7:51	Dry			
JAD-MW7d	8/22/2017	10:50	Dry			
JAD-MW7d	9/11/2017	13:33	Dry			
JAD-MW7d	10/16/2017	16:40	Dry			
JAD-MW7d	11/27/2017	11:53	Dry			
JAD-MW7d	12/21/2017	15:12	80.56	191.95		
JAD-MW7d	1/9/2018	16:32	77.10	195.41		
JAD-MW7d	2/6/2018	10:44	76.63	195.88		
JAD-MW7d	3/20/2018	12:40	78.59	193.92		
JAD-MW7d	4/23/2018	18:01	80.05	192.46		
JAD-MW7d	5/15/2018	14:13	Dry			
JAD-MW7d	6/12/2018	16:30	80.10	192.41		
JAD-MW7d	7/18/2018	7:16	Dry			
JAD-MW7d	8/8/2018	7:40	80.20	192.31		
JAD-MW7d	9/25/2018	11:58	Dry			
JAD-MW7d	10/30/2018	17:13	Dry			
JAD-MW7d	11/26/2018	13:26	Dry			
JAD-MW7d	12/26/2018	13:13	Dry			
JAD-MW7d	1/9/2019	7:28	Dry			
JAD-MW7d	2/15/2019	7:20	Dry			
JAD-MW7d	3/14/2019	9:45	Dry			
JAD-MW7d	4/16/2019	16:11	Dry			
JAD-MW7d	5/14/2019	12:19	79.35	193.16		
JAD-MW7d	6/12/2019	7:03	76.82	195.69		
JAD-MW7d	7/17/2019	7:09	75.66	196.85		
JAD-MW7d	8/13/2019	13:08	75.25	197.26		
JAD-MW7d	9/7/2019	7:10	75.43	197.08		
JAD-MW7d	10/28/2019	14:47	74.89	197.62		
JAD-MW7d	11/20/2019	10:10	74.12	198.39		
JAD-MW7d	12/11/2019	15:45	73.72	198.79		
LON-MW1A	1/23/2013	11:42	Dry			
LON-MW1A	2/13/2013	10:30	Dry			
LON-MW1A	3/20/2013	11:55	Dry			
LON-MW1A	4/24/2013	9:35	Dry			
LON-MW1A	5/15/2013	14:15	Dry			
LON-MW1A	6/20/2013	14:05	Dry			
LON-MW1A	7/18/2013	9:05	Dry			
LON-MW1A	8/15/2013	8:50	Dry			
LON-MW1A	9/12/2013	10:48	Dry			
LON-MW1A	10/24/2013	10:30	Dry			
LON-MW1A	11/20/2013	7:20	Dry			
LON-MW1A	12/27/2013	11:51	Dry			
LON-MW1A	1/15/2014	9:48	Dry			
LON-MW1A	2/19/2014	11:45	Dry			
LON-MW1A	3/19/2014	13:08	Dry			
LON-MW1A	4/15/2014	12:32	Dry			
LON-MW1A	5/28/2014	8:39	Dry			
LON-MW1A	6/12/2014	11:45	Dry			
LON-MW1A	7/9/2014	10:17	Dry			
LON-MW1A	8/14/2014	7:14	Dry			
LON-MW1A	9/25/2014	9:14	Dry			
LON-MW1A	10/22/2014	10:14	Dry			
LON-MW1A	11/12/2014	11:50	Dry			
LON-MW1A	12/17/2014	8:57	Dry			
LON-MW1A	1/8/2015	12:26	Dry			
LON-MW1A	2/19/2015	14:42	Dry			
LON-MW1A	3/12/2015	11:13	Dry			
LON-MW1A	4/21/2015	9:55	Dry			
LON-MW1A	5/13/2015	12:52	Dry			
LON-MW1A	6/11/2015	11:16	Dry			
LON-MW1A	7/21/2015	13:30	Dry			
LON-MW1A	8/25/2015	8:32	Dry			
LON-MW1A	9/15/2015	9:35	Dry			
LON-MW1A	10/21/2015	13:40	Dry			
LON-MW1A	11/17/2015	9:58	Dry			
LON-MW1A	12/17/2015	10:05	Dry			
LON-MW1A	1/12/2016	9:20	Dry			
LON-MW1A	2/23/2016	10:12	Dry			
LON-MW1A	3/18/2016	10:03	Dry			
LON-MW1A	4/19/2016	10:55	Dry			
LON-MW1A	5/4/2016	13:16	Dry			
LON-MW1A	6/22/2016	10:20	Dry			
LON-MW1A	7/20/2016	12:35	Dry			
LON-MW1A	8/10/2016	12:26	Dry			
LON-MW1A	9/29/2016	7:15	Dry			
LON-MW1A	10/27/2016	12:26	Dry			
LON-MW1A	11/10/2016	11:00	Dry			
LON-MW1A	12/22/2016	13:45	Dry			
LON-MW1A	1/5/2017		Obs			
LON-MW1A	2/1/2017		N/M			
LON-MW1A	3/30/2017	16:54	N/M			
LON-MW1A	4/20/2017	8:09	N/M			
LON-MW1A	5/11/2017	11:10	Dry			
LON-MW1A	6/6/2017		N/M			
LON-MW1A	7/14/2017	6:51	Obs			
LON-MW1A	8/23/2017	11:33	Dry			
LON-MW1A	9/12/2017	12:26	Dry			
LON-MW1A	10/17/2017	12:38	Dry			
LON-MW1A	11/28/2017	7:14	Dry			
LON-MW1A	12/22/2017	11:15	Dry			
LON-MW1A	1/10/2018	10:48	Dry			
LON-MW1A	2/22/2018	8:00	Dry			
LON-MW1A	3/22/2018	17:20	Dry			
LON-MW1A	4/25/2018	8:11	Dry			
LON-MW1A	5/30/2018	6:59	Dry			
LON-MW1A	6/13/2018	10:27	Dry			
LON-MW1A	7/18/2018	11:53	Dry			
LON-MW1A	8/8/2018	14:59	Dry			
LON-MW1A	9/26/2018	11:24	Dry			
LON-MW1A	10/31/2018	10:48	Dry			
LON-MW1A	11/27/2018	12:37	Dry			
LON-MW1A	12/27/2018	9:10	Dry			
LON-MW1A	1/10/2019	9:40	Dry			
LON-MW1A	2/21/2019	8:03	Dry			
LON-MW1A	3/27/2019	16:04	Dry			
LON-MW1A	4/17/2019	9:37	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
LON-MW1A	5/22/2019	7:16	Dry			
LON-MW1A	6/13/2019	7:51	Dry			
LON-MW1A	7/18/2019	6:48	Dry			
LON-MW1A	8/14/2019	11:22	Dry			
LON-MW1A	9/14/2019	11:42	Dry			
LON-MW1A	10/29/2019	12:50	Dry			
LON-MW1A	11/22/2019	7:58	Dry			
LON-MW1A	12/12/2019	9:54	Dry			
LON-MW1B	1/23/2013	11:44	94.62	124.92		
LON-MW1B	2/13/2013	10:34	95.61	123.93		
LON-MW1B	3/20/2013	11:48	95.88	123.66		
LON-MW1B	4/24/2013	9:38	96.48	123.06		
LON-MW1B	5/15/2013	14:18	97.00	122.54		
LON-MW1B	6/20/2013	14:10	98.35	121.19		
LON-MW1B	7/18/2013	9:07	99.81	119.73		
LON-MW1B	8/15/2013	8:52	101.56	117.98		
LON-MW1B	9/12/2013	10:52	102.18	117.36		
LON-MW1B	10/24/2013	10:34	102.55	116.99		
LON-MW1B	11/20/2013	7:24	102.65	116.89		
LON-MW1B	12/27/2013	11:55	102.56	116.98		
LON-MW1B	1/15/2014	9:51	102.83	116.71		
LON-MW1B	2/19/2014	11:48	103.20	116.34		
LON-MW1B	3/19/2014	13:11	103.45	116.09		
LON-MW1B	4/15/2014	12:35	104.16	115.38		
LON-MW1B	5/28/2014	8:42	105.77	113.77		
LON-MW1B	6/12/2014	11:48	106.37	113.17		
LON-MW1B	7/9/2014	10:20	107.70	111.84		
LON-MW1B	8/14/2014	7:19	109.07	110.47		
LON-MW1B	9/25/2014	9:17	110.42	109.12		
LON-MW1B	10/22/2014	10:17	110.81	108.73		
LON-MW1B	11/12/2014	11:53	111.00	108.54		
LON-MW1B	12/17/2014	8:59	111.00	108.54		
LON-MW1B	1/8/2015	12:32	110.62	108.92		
LON-MW1B	2/19/2015	14:47	111.44	108.10		
LON-MW1B	3/12/2015	11:08	111.40	108.14		
LON-MW1B	4/21/2015	9:57	112.24	107.30		
LON-MW1B	5/13/2015	12:54	112.68	106.86		
LON-MW1B	6/11/2015	11:19	113.25	106.29		
LON-MW1B	7/21/2015	13:34	113.30	106.24		
LON-MW1B	8/25/2015	8:35	Dry			
LON-MW1B	9/15/2015	9:40	Dry			
LON-MW1B	10/21/2015	13:45	Dry			
LON-MW1B	11/17/2015	10:00	Dry			
LON-MW1B	12/17/2015	10:08	Dry			
LON-MW1B	1/12/2016	9:23	Dry			
LON-MW1B	2/23/2016	10:16	Dry			
LON-MW1B	3/18/2016	10:04	Dry			
LON-MW1B	4/19/2016	10:58	Dry			
LON-MW1B	5/4/2016	13:18	Dry			
LON-MW1B	6/22/2016	10:24	Dry			
LON-MW1B	7/20/2016	12:38	Dry			
LON-MW1B	8/10/2016	12:28	Dry			
LON-MW1B	9/29/2016	7:28	Dry			
LON-MW1B	10/27/2016	12:28	Dry			
LON-MW1B	11/10/2016	11:01	Dry			
LON-MW1B	12/22/2016	13:48	Dry			
LON-MW1B	1/5/2017	15:52	Dry			
LON-MW1B	2/1/2017		N/M			
LON-MW1B	3/30/2017	16:50	Dry			
LON-MW1B	4/20/2017	8:00	Dry			
LON-MW1B	5/11/2017	11:14	Dry			
LON-MW1B	6/6/2017	10:28	Dry			
LON-MW1B	7/14/2017	6:46	Dry			
LON-MW1B	8/23/2017	11:27	Dry			
LON-MW1B	9/12/2017	12:28	Dry			
LON-MW1B	10/17/2017	12:40	Dry			
LON-MW1B	11/28/2017	7:17	Dry			
LON-MW1B	12/22/2017	11:17	Dry			
LON-MW1B	1/10/2018	10:46	108.59	110.95		
LON-MW1B	2/22/2018	8:03	108.41	111.13		
LON-MW1B	3/22/2018	17:25	108.31	111.23		
LON-MW1B	4/25/2018	8:12	108.07	111.47		
LON-MW1B	5/30/2018	7:01	109.56	109.98		
LON-MW1B	6/13/2018	10:29	109.06	110.48		
LON-MW1B	7/18/2018	11:52	111.30	108.24		
LON-MW1B	8/8/2018	14:58	Dry			
LON-MW1B	9/26/2018	11:27	Dry			
LON-MW1B	10/31/2018	10:50	Dry			
LON-MW1B	11/27/2018	12:38	Dry			
LON-MW1B	12/27/2018	9:11	Dry			
LON-MW1B	1/10/2019	9:41	Dry			
LON-MW1B	2/21/2019	8:04	Dry			
LON-MW1B	3/27/2019	16:07	106.11	113.43		
LON-MW1B	4/17/2019	9:39	Dry			
LON-MW1B	5/22/2019	7:17	Dry			
LON-MW1B	6/13/2019	7:54	Dry			
LON-MW1B	7/18/2019	6:51	Dry			
LON-MW1B	8/14/2019	11:25	Dry			
LON-MW1B	9/14/2019	11:47	Dry			
LON-MW1B	10/29/2019	12:52	110.50	109.04		
LON-MW1B	11/22/2019	7:59	Dry			
LON-MW1B	12/12/2019	9:56	110.83	108.71		
LON-MW1C	1/23/2013	11:46	94.84	124.52		
LON-MW1C	2/13/2013	10:37	95.75	123.61		
LON-MW1C	3/20/2013	11:52	96.21	123.15		
LON-MW1C	4/24/2013	9:41	96.79	122.57		
LON-MW1C	5/15/2013	14:20	97.38	121.98		
LON-MW1C	6/20/2013	14:16	98.72	120.64		
LON-MW1C	7/18/2013	9:10	100.18	119.18		
LON-MW1C	8/15/2013	8:55	101.56	117.80		
LON-MW1C	9/12/2013	10:56	102.25	117.11		
LON-MW1C	10/24/2013	10:38	102.77	116.59		
LON-MW1C	11/20/2013	7:28	102.61	116.75		
LON-MW1C	12/27/2013	11:58	102.41	116.95		
LON-MW1C	1/15/2014	9:54	102.75	116.61		
LON-MW1C	2/19/2014	11:52	103.04	116.32		
LON-MW1C	3/19/2014	13:14	103.42	115.94		
LON-MW1C	4/15/2014	12:39	104.14	115.22		
LON-MW1C	5/28/2014	8:44	105.67	113.69		
LON-MW1C	6/12/2014	11:50	106.32	113.04		
LON-MW1C	7/9/2014	10:24	107.57	111.79		
LON-MW1C	8/14/2014	7:22	109.11	110.25		
LON-MW1C	9/25/2014	9:20	110.27	109.09		
LON-MW1C	10/22/2014	10:20	110.71	108.65		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
LON-MW1C	11/12/2014	11:56	110.88	108.48		
LON-MW1C	12/17/2014	9:01	110.82	108.54		
LON-MW1C	1/8/2015	12:36	110.45	108.91		
LON-MW1C	2/19/2015	14:50	110.85	108.51		
LON-MW1C	3/12/2015	11:10	111.30	108.06		
LON-MW1C	4/21/2015	9:59	112.10	107.26		
LON-MW1C	5/13/2015	12:56	112.59	106.77		
LON-MW1C	6/11/2015	11:22	113.34	106.02		
LON-MW1C	7/21/2015	13:37	114.69	104.67		
LON-MW1C	8/25/2015	8:38	115.83	103.53		
LON-MW1C	9/15/2015	9:43	116.40	102.96		
LON-MW1C	10/21/2015	13:50	117.55	101.81		
LON-MW1C	11/17/2015	10:02	117.42	101.94		
LON-MW1C	12/17/2015	10:11	117.21	102.15		
LON-MW1C	1/12/2016	9:26	117.22	102.14		
LON-MW1C	2/23/2016	10:18	117.03	102.33		
LON-MW1C	3/18/2016	10:06	117.50	101.86		
LON-MW1C	4/19/2016	11:01	117.78	101.58		
LON-MW1C	5/4/2016	13:20	118.29	101.07		
LON-MW1C	6/22/2016	10:28	118.31	101.05		
LON-MW1C	7/20/2016	12:41	119.90	99.46		
LON-MW1C	8/10/2016	12:31	120.42	98.94		
LON-MW1C	9/29/2016	7:22	121.64	97.72		
LON-MW1C	10/27/2016	12:30	121.91	97.45		
LON-MW1C	11/10/2016	11:03	122.16	97.20		
LON-MW1C	12/22/2016	13:49	122.00	97.36		
LON-MW1C	1/5/2017	15:57	Dry			
LON-MW1C	2/1/2017		N/M			
LON-MW1C	3/30/2017	16:48	121.04	98.32		
LON-MW1C	4/20/2017	8:04	120.78	98.58		
LON-MW1C	5/11/2017	11:16	120.42	98.94		
LON-MW1C	6/6/2017	10:31	119.90	99.46		
LON-MW1C	7/14/2017	6:48	117.48	101.88		
LON-MW1C	8/23/2017	11:24	115.46	103.90		
LON-MW1C	9/12/2017	12:30	114.45	104.91		
LON-MW1C	10/17/2017	12:42	112.46	106.90		
LON-MW1C	11/28/2017	7:20	110.23	109.13		
LON-MW1C	12/22/2017	11:19	115.10	104.26		
LON-MW1C	1/10/2018	10:44	108.45	110.91		
LON-MW1C	2/22/2018	8:06	108.29	111.07		
LON-MW1C	3/22/2018	17:30	108.19	111.17		
LON-MW1C	4/25/2018	8:13	Dry			
LON-MW1C	5/30/2018	7:03	109.59	109.77		
LON-MW1C	6/13/2018	10:31	109.02	110.34		
LON-MW1C	7/18/2018	11:51	111.47	107.89		
LON-MW1C	8/8/2018	15:00	112.24	107.12		
LON-MW1C	9/26/2018	11:30	113.37	105.99		
LON-MW1C	10/31/2018	10:52	113.43	105.93		
LON-MW1C	11/27/2018	12:39	113.28	106.08		
LON-MW1C	12/27/2018	9:12	112.90	106.46		
LON-MW1C	1/10/2019	9:42	112.89	106.47		
LON-MW1C	2/21/2019	8:05	112.12	107.24		
LON-MW1C	3/27/2019	16:06	106.51	112.85		
LON-MW1C	4/17/2019	9:42	112.47	106.89		
LON-MW1C	5/22/2019	7:18	112.97	106.39		
LON-MW1C	6/13/2019	7:56	112.78	106.58		
LON-MW1C	7/18/2019	6:53	112.12	107.24		
LON-MW1C	8/14/2019	11:28	111.81	107.55		
LON-MW1C	9/14/2019	11:50	100.91	118.45		
LON-MW1C	10/29/2019	12:53	110.21	109.15		
LON-MW1C	11/22/2019	8:00	110.66	108.70		
LON-MW1C	12/12/2019	9:59	111.43	107.93		
LON-MW2A	1/23/2013	12:05	Dry			
LON-MW2A	2/13/2013	9:59	Dry			
LON-MW2A	3/20/2013	12:20	Dry			
LON-MW2A	4/24/2013	9:45	Dry			
LON-MW2A	5/15/2013	14:21	Dry			
LON-MW2A	6/20/2013	14:25	Dry			
LON-MW2A	7/18/2013	9:15	Dry			
LON-MW2A	8/15/2013	9:00	Dry			
LON-MW2A	9/12/2013	11:05	Dry			
LON-MW2A	10/24/2013	10:45	Dry			
LON-MW2A	11/20/2013	7:34	Dry			
LON-MW2A	12/27/2013	11:31	Dry			
LON-MW2A	1/15/2014	10:01	Dry			
LON-MW2A	2/19/2014	11:56	Dry			
LON-MW2A	3/19/2014	13:38	Dry			
LON-MW2A	4/15/2014	13:01	Dry			
LON-MW2A	5/28/2014	9:01	Dry			
LON-MW2A	6/12/2014	12:09	Dry			
LON-MW2A	7/9/2014	10:26	Dry			
LON-MW2A	8/14/2014	7:49	Dry			
LON-MW2A	9/25/2014	9:00	Dry			
LON-MW2A	10/22/2014	10:25	Dry			
LON-MW2A	11/12/2014	12:00	Dry			
LON-MW2A	12/17/2014	9:07	Dry			
LON-MW2A	1/8/2015	12:58	Dry			
LON-MW2A	2/19/2015	15:11	Dry			
LON-MW2A	3/12/2015	11:16	Dry			
LON-MW2A	4/21/2015	10:09	Dry			
LON-MW2A	5/13/2015	12:58	Dry			
LON-MW2A	6/11/2015	11:39	Dry			
LON-MW2A	7/21/2015	13:53	Dry			
LON-MW2A	8/25/2015	8:06	Dry			
LON-MW2A	9/15/2015	9:58	Dry			
LON-MW2A	10/21/2015	13:55	Dry			
LON-MW2A	11/17/2015	10:17	Dry			
LON-MW2A	12/17/2015	10:16	Dry			
LON-MW2A	1/12/2016	9:31	Dry			
LON-MW2A	2/23/2016	9:50	Dry			
LON-MW2A	3/18/2016	10:18	Dry			
LON-MW2A	4/19/2016	11:18	Dry			
LON-MW2A	5/4/2016	13:27	Dry			
LON-MW2A	6/22/2016	10:40	Dry			
LON-MW2A	7/20/2016	12:47	Dry			
LON-MW2A	8/10/2016	12:44	Dry			
LON-MW2A	9/29/2016	8:00	Dry			
LON-MW2A	10/27/2016	12:40	Dry			
LON-MW2A	11/10/2016	11:06	Dry			
LON-MW2A	12/22/2016	13:36	Dry			
LON-MW2A	1/5/2017	15:56	Dry			
LON-MW2A	2/1/2017		N/M			
LON-MW2A	3/30/2017	16:26	Dry			
LON-MW2A	4/20/2017	8:15	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
LON-MW2A	5/11/2017	11:26	Dry			
LON-MW2A	6/6/2017	10:34	Dry			
LON-MW2A	7/14/2017	6:56	Dry			
LON-MW2A	8/23/2017	11:46	Dry			
LON-MW2A	9/12/2017	12:35	Dry			
LON-MW2A	10/17/2017	13:47	Dry			
LON-MW2A	11/28/2017	7:26	Dry			
LON-MW2A	12/22/2017	11:31	Dry			
LON-MW2A	1/10/2018	10:56	Dry			
LON-MW2A	2/22/2018	8:10	Dry			
LON-MW2A	3/22/2018	17:40	Dry			
LON-MW2A	4/25/2018	8:22	Dry			
LON-MW2A	5/30/2018	7:12	Dry			
LON-MW2A	6/13/2018	10:41	Dry			
LON-MW2A	7/18/2018	12:00	Dry			
LON-MW2A	8/8/2018	15:05	Dry			
LON-MW2A	9/26/2018	11:40	Dry			
LON-MW2A	10/31/2018	11:01	Dry			
LON-MW2A	11/27/2018	12:47	Dry			
LON-MW2A	12/27/2018	9:19	Dry			
LON-MW2A	1/10/2019	9:51	Dry			
LON-MW2A	2/21/2019	8:10	Dry			
LON-MW2A	3/27/2019	16:15	Dry			
LON-MW2A	4/17/2019	9:49	Dry			
LON-MW2A	5/22/2019	7:24	Dry			
LON-MW2A	6/13/2019	7:40	Dry			
LON-MW2A	7/18/2019	7:08	Dry			
LON-MW2A	8/14/2019	11:39	Dry			
LON-MW2A	9/14/2019	11:33	Dry			
LON-MW2A	10/29/2019	12:56	Dry			
LON-MW2A	11/22/2019	7:50	Dry			
LON-MW2A	12/12/2019	10:03	85.40	133.40		
LON-MW2B	1/23/2013	12:08	94.61	124.29		
LON-MW2B	2/13/2013	10:03	95.51	123.39		
LON-MW2B	3/20/2013	12:23	96.07	122.83		
LON-MW2B	4/24/2013	9:48	96.41	122.49		
LON-MW2B	5/15/2013	14:24	96.92	121.98		
LON-MW2B	6/20/2013	14:29	98.28	120.62		
LON-MW2B	7/18/2013	9:18	99.67	119.23		
LON-MW2B	8/15/2013	9:03	101.25	117.65		
LON-MW2B	9/12/2013	11:08	101.69	117.21		
LON-MW2B	10/24/2013	10:49	102.85	116.05		
LON-MW2B	11/20/2013	7:38	102.45	116.45		
LON-MW2B	12/27/2013	11:25	102.11	116.79		
LON-MW2B	1/15/2014	10:04	102.40	116.50		
LON-MW2B	2/19/2014	11:59	102.74	116.16		
LON-MW2B	3/19/2014	13:41	103.02	115.88		
LON-MW2B	4/15/2014	13:04	103.75	115.15		
LON-MW2B	5/28/2014	9:04	105.25	113.65		
LON-MW2B	6/12/2014	12:13	105.82	113.08		
LON-MW2B	7/9/2014	10:28	106.36	112.54		
LON-MW2B	8/14/2014	7:54	Dry			
LON-MW2B	9/25/2014	9:03	Dry			
LON-MW2B	10/22/2014	10:28	Dry			
LON-MW2B	11/12/2014	12:03	105.43	113.47		
LON-MW2B	12/17/2014	9:09	Dry			
LON-MW2B	1/8/2015	13:03	Dry			
LON-MW2B	2/19/2015	15:15	Dry			
LON-MW2B	3/12/2015	11:19	Dry			
LON-MW2B	4/21/2015	10:11	Dry			
LON-MW2B	5/13/2015	13:00	Dry			
LON-MW2B	6/11/2015	11:42	Dry			
LON-MW2B	7/21/2015	13:56	Dry			
LON-MW2B	8/25/2015	8:09	Dry			
LON-MW2B	9/15/2015	10:03	Dry			
LON-MW2B	10/21/2015	14:00	Dry			
LON-MW2B	11/17/2015	10:19	Dry			
LON-MW2B	12/17/2015	10:19	Dry			
LON-MW2B	1/12/2016	9:34	Dry			
LON-MW2B	2/23/2016	9:54	Dry			
LON-MW2B	3/18/2016	10:20	Dry			
LON-MW2B	4/19/2016	11:21	Dry			
LON-MW2B	5/4/2016	13:30	Dry			
LON-MW2B	6/22/2016	10:45	Dry			
LON-MW2B	7/20/2016	12:51	Dry			
LON-MW2B	8/10/2016	12:47	Dry			
LON-MW2B	9/29/2016	8:03	Dry			
LON-MW2B	10/27/2016	12:36	Dry			
LON-MW2B	11/10/2016	11:07	Dry			
LON-MW2B	12/22/2016	13:39	Dry			
LON-MW2B	1/5/2017	16:00	104.83	114.07		
LON-MW2B	2/1/2017		N/M			
LON-MW2B	3/30/2017	16:30	Dry			
LON-MW2B	4/20/2017	8:20	Dry			
LON-MW2B	5/11/2017	11:30	Dry			
LON-MW2B	6/6/2017	10:36	Obs			
LON-MW2B	7/14/2017	6:56	Dry			
LON-MW2B	8/23/2017	11:40	Dry			
LON-MW2B	9/12/2017	12:37	Dry			
LON-MW2B	10/17/2017	13:49	Dry			
LON-MW2B	11/28/2017	7:27	Dry			
LON-MW2B	12/22/2017	11:29	Dry			
LON-MW2B	1/10/2018	10:59	Dry			
LON-MW2B	2/22/2018	8:12	Dry			
LON-MW2B	3/22/2018	17:45	Dry			
LON-MW2B	4/25/2018	8:23	Dry			
LON-MW2B	5/30/2018	7:14	Dry			
LON-MW2B	6/13/2018	10:39	Dry			
LON-MW2B	7/18/2018	12:02	Dry			
LON-MW2B	8/8/2018	15:06	Dry			
LON-MW2B	9/26/2018	11:43	Dry			
LON-MW2B	10/31/2018	11:03	Dry			
LON-MW2B	11/27/2018	12:48	Dry			
LON-MW2B	12/27/2018	9:20	Dry			
LON-MW2B	1/10/2019	9:52	Dry			
LON-MW2B	2/21/2019	8:11	Dry			
LON-MW2B	3/27/2019	16:12	Dry			
LON-MW2B	4/17/2019	9:55	Dry			
LON-MW2B	5/22/2019	7:25	Dry			
LON-MW2B	6/13/2019	7:44	Dry			
LON-MW2B	7/18/2019	7:02	Dry			
LON-MW2B	8/14/2019	11:36	Dry			
LON-MW2B	9/14/2019	11:36	Dry			
LON-MW2B	10/29/2019	12:57	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
LON-MW2B	11/22/2019	7:51	Dry			
LON-MW2B	12/12/2019	10:05	105.39	113.51		
LON-MW2C	1/23/2013	12:10	94.71	124.02		
LON-MW2C	2/13/2013	10:08	95.55	123.18		
LON-MW2C	3/20/2013	12:25	96.09	122.64		
LON-MW2C	4/24/2013	9:51	96.51	122.22		
LON-MW2C	5/15/2013	14:25	97.21	121.52		
LON-MW2C	6/20/2013	14:31	98.43	120.30		
LON-MW2C	7/18/2013	9:21	99.88	118.85		
LON-MW2C	8/15/2013	9:05	101.18	117.55		
LON-MW2C	9/12/2013	11:12	101.79	116.94		
LON-MW2C	10/24/2013	10:51	102.99	115.74		
LON-MW2C	11/20/2013	7:41	102.20	116.53		
LON-MW2C	12/27/2013	11:28	101.94	116.79		
LON-MW2C	1/15/2014	10:06	102.29	116.44		
LON-MW2C	2/19/2014	12:02	102.54	116.19		
LON-MW2C	3/19/2014	13:45	102.99	115.74		
LON-MW2C	4/15/2014	13:07	103.63	115.10		
LON-MW2C	5/28/2014	9:06	105.15	113.58		
LON-MW2C	6/12/2014	12:16	105.81	112.92		
LON-MW2C	7/9/2014	10:31	107.03	111.70		
LON-MW2C	8/14/2014	7:58	108.48	110.25		
LON-MW2C	9/25/2014	9:06	109.63	109.10		
LON-MW2C	10/22/2014	10:31	110.02	108.71		
LON-MW2C	11/12/2014	12:06	110.24	108.49		
LON-MW2C	12/17/2014	9:11	110.10	108.63		
LON-MW2C	1/8/2015	13:06	109.72	109.01		
LON-MW2C	2/19/2015	15:18	110.13	108.60		
LON-MW2C	3/12/2015	11:22	110.65	108.08		
LON-MW2C	4/21/2015	10:13	111.45	107.28		
LON-MW2C	5/13/2015	13:02	111.90	106.83		
LON-MW2C	6/11/2015	11:36	112.66	106.07		
LON-MW2C	7/21/2015	13:59	113.95	104.78		
LON-MW2C	8/25/2015	8:12	115.12	103.61		
LON-MW2C	9/15/2015	10:06	115.64	103.09		
LON-MW2C	10/21/2015	14:05	116.27	102.46		
LON-MW2C	11/17/2015	10:21	116.64	102.09		
LON-MW2C	12/17/2015	10:22	116.62	102.11		
LON-MW2C	1/12/2016	9:37	116.38	102.35		
LON-MW2C	2/23/2016	9:56	116.19	102.54		
LON-MW2C	3/18/2016	10:22	116.88	101.85		
LON-MW2C	4/19/2016	11:24	117.30	101.43		
LON-MW2C	5/4/2016	13:33	117.43	101.30		
LON-MW2C	6/22/2016	10:49	118.40	100.33		
LON-MW2C	7/20/2016	12:54	119.00	99.73		
LON-MW2C	8/10/2016	12:49	119.53	99.20		
LON-MW2C	9/29/2016	8:06	114.12	104.61		
LON-MW2C	10/27/2016	12:38	121.05	97.68		
LON-MW2C	11/10/2016	11:08	121.26	97.47		
LON-MW2C	12/22/2016	13:41	121.15	97.58		
LON-MW2C	1/5/2017	16:05	121.81	96.92		
LON-MW2C	2/1/2017		N/M			
LON-MW2C	3/30/2017	16:34	120.26	98.47		
LON-MW2C	4/20/2017	8:24	120.00	98.73		
LON-MW2C	5/11/2017	11:28	122.96	95.77		
LON-MW2C	6/6/2017	10:38	119.10	99.63		
LON-MW2C	7/14/2017	6:58	117.12	101.61		
LON-MW2C	8/23/2017	11:43	115.16	103.57		
LON-MW2C	9/12/2017	12:39	114.23	104.50		
LON-MW2C	10/17/2017	13:50	112.31	106.42		
LON-MW2C	11/28/2017	7:30	110.40	108.33		
LON-MW2C	12/22/2017	11:26	114.90	103.83		
LON-MW2C	1/10/2018	11:01	108.60	110.13		
LON-MW2C	2/22/2018	8:15	108.35	110.38		
LON-MW2C	3/22/2018	17:50	108.17	110.56		
LON-MW2C	4/25/2018	8:24	108.45	110.28		
LON-MW2C	5/30/2018	7:16	109.35	109.38		
LON-MW2C	6/13/2018	10:43	104.15	114.58		
LON-MW2C	7/18/2018	12:03	111.19	107.54		
LON-MW2C	8/8/2018	15:08	111.94	106.79		
LON-MW2C	9/26/2018	11:46	113.04	105.69		
LON-MW2C	10/31/2018	11:05	113.10	105.63		
LON-MW2C	11/27/2018	12:49	113.13	105.60		
LON-MW2C	12/27/2018	9:21	112.50	106.23		
LON-MW2C	1/10/2019	9:53	112.43	106.30		
LON-MW2C	2/21/2019	8:12	112.57	106.16		
LON-MW2C	3/27/2019	16:13	106.25	112.48		
LON-MW2C	4/17/2019	9:52	111.97	106.76		
LON-MW2C	5/22/2019	7:26	112.40	106.33		
LON-MW2C	6/13/2019	7:43	112.19	106.54		
LON-MW2C	7/18/2019	7:04	111.59	107.14		
LON-MW2C	8/14/2019	11:34	111.33	107.40		
LON-MW2C	9/14/2019	11:39	110.72	108.01		
LON-MW2C	10/29/2019	12:58	110.72	108.01		
LON-MW2C	11/22/2019	7:52	110.60	108.13		
LON-MW2C	12/12/2019	10:07	111.03	107.70		
LON-MW3A	1/23/2013	11:55	Dry			
LON-MW3A	2/13/2013	10:15	Dry			
LON-MW3A	3/20/2013	12:50	Dry			
LON-MW3A	4/24/2013	9:55	Dry			
LON-MW3A	5/15/2013	14:24	Dry			
LON-MW3A	6/20/2013	14:45	Dry			
LON-MW3A	7/18/2013	9:28	Dry			
LON-MW3A	8/15/2013	9:10	Dry			
LON-MW3A	9/12/2013	11:19	Dry			
LON-MW3A	10/24/2013	10:58	Dry			
LON-MW3A	11/20/2013	7:46	Dry			
LON-MW3A	12/27/2013	11:46	Dry			
LON-MW3A	1/15/2014	10:16	Dry			
LON-MW3A	2/19/2014	12:06	Dry			
LON-MW3A	3/19/2014	13:22	Dry			
LON-MW3A	4/15/2014	12:48	Dry			
LON-MW3A	5/28/2014	8:49	Dry			
LON-MW3A	6/12/2014	11:56	Dry			
LON-MW3A	7/9/2014	10:36	Dry			
LON-MW3A	8/14/2014	7:33	Dry			
LON-MW3A	9/25/2014	9:28	Dry			
LON-MW3A	10/22/2014	10:36	Dry			
LON-MW3A	11/12/2014	12:10	Dry			
LON-MW3A	12/17/2014	9:18	Dry			
LON-MW3A	1/8/2015	12:47	Dry			
LON-MW3A	2/19/2015	14:56	Dry			
LON-MW3A	3/12/2015	11:27	Dry			
LON-MW3A	4/21/2015	10:20	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
LON-MW3A	5/13/2015	13:06	Dry			
LON-MW3A	6/11/2015	11:28	Dry			
LON-MW3A	7/21/2015	13:42	Dry			
LON-MW3A	8/25/2015	8:19	Dry			
LON-MW3A	9/15/2015	9:47	Dry			
LON-MW3A	10/21/2015	14:10	Dry			
LON-MW3A	11/17/2015	10:06	Dry			
LON-MW3A	12/17/2015	10:27	Dry			
LON-MW3A	1/12/2016	9:42	Dry			
LON-MW3A	2/23/2016	10:01	Dry			
LON-MW3A	3/18/2016	10:10	Dry			
LON-MW3A	4/19/2016	11:06	Dry			
LON-MW3A	5/4/2016	13:40	Dry			
LON-MW3A	6/22/2016	10:56	Dry			
LON-MW3A	7/20/2016	13:00	Dry			
LON-MW3A	8/10/2016	12:35	Dry			
LON-MW3A	9/29/2016	7:40	Dry			
LON-MW3A	10/27/2016	12:43	Dry			
LON-MW3A	11/10/2016	11:12	Dry			
LON-MW3A	12/22/2016	13:59	Dry			
LON-MW3A	1/5/2017	15:53	Dry			
LON-MW3A	2/1/2017		N/M			
LON-MW3A	3/30/2017	16:38	Dry			
LON-MW3A	4/20/2017	8:29	Dry			
LON-MW3A	5/11/2017	11:36	Dry			
LON-MW3A	6/6/2017	10:44	Dry			
LON-MW3A	7/14/2017	7:05	Dry			
LON-MW3A	8/23/2017	11:57	Dry			
LON-MW3A	9/12/2017	12:54	Dry			
LON-MW3A	10/17/2017	12:48	Dry			
LON-MW3A	11/28/2017	7:34	Dry			
LON-MW3A	12/22/2017	11:38	Dry			
LON-MW3A	1/10/2018	11:07	Dry			
LON-MW3A	2/22/2018	8:18	Dry			
LON-MW3A	3/22/2018	17:05	Dry			
LON-MW3A	4/25/2018	8:32	Dry			
LON-MW3A	5/30/2018	7:21	Dry			
LON-MW3A	6/13/2018	10:50	Dry			
LON-MW3A	7/18/2018	12:10	Dry			
LON-MW3A	8/8/2018	15:15	Dry			
LON-MW3A	9/26/2018	11:59	Dry			
LON-MW3A	10/31/2018	11:11	Dry			
LON-MW3A	11/27/2018	12:54	Dry			
LON-MW3A	12/27/2018	9:28	Dry			
LON-MW3A	1/10/2019	9:57	Dry			
LON-MW3A	2/21/2019	8:16	Dry			
LON-MW3A	3/27/2019	16:19	Dry			
LON-MW3A	4/17/2019	9:59	Dry			
LON-MW3A	5/22/2019	7:35	Dry			
LON-MW3A	6/13/2019	7:35	Dry			
LON-MW3A	7/18/2019	7:18	Dry			
LON-MW3A	8/14/2019	12:01	Dry			
LON-MW3A	9/14/2019	11:24	Dry			
LON-MW3A	10/29/2019	13:02	Dry			
LON-MW3A	11/22/2019	7:43	Dry			
LON-MW3A	12/12/2019	10:10	Dry			
LON-MW3B	1/23/2013	11:58	95.44	123.52		
LON-MW3B	2/13/2013	10:18	96.47	122.49		
LON-MW3B	3/20/2013	12:54	96.86	122.10		
LON-MW3B	4/24/2013	9:58	96.98	121.98		
LON-MW3B	5/15/2013	14:27	97.48	121.48		
LON-MW3B	6/20/2013	14:49	98.70	120.26		
LON-MW3B	7/18/2013	9:31	99.96	119.00		
LON-MW3B	8/15/2013	9:14	102.20	116.76		
LON-MW3B	9/12/2013	11:22	102.51	116.45		
LON-MW3B	10/24/2013	11:02	103.17	115.79		
LON-MW3B	11/20/2013	7:50	103.18	115.78		
LON-MW3B	12/27/2013	11:41	102.87	116.09		
LON-MW3B	1/15/2014	10:13	103.17	115.79		
LON-MW3B	2/19/2014	12:09	103.46	115.50		
LON-MW3B	3/19/2014	13:26	103.86	115.10		
LON-MW3B	4/15/2014	12:51	104.71	114.25		
LON-MW3B	5/28/2014	8:52	106.26	112.70		
LON-MW3B	6/12/2014	11:59	106.87	112.09		
LON-MW3B	7/9/2014	10:39	108.00	110.96		
LON-MW3B	8/14/2014	7:37	109.36	109.60		
LON-MW3B	9/25/2014	9:31	110.52	108.44		
LON-MW3B	10/22/2014	10:39	110.98	107.98		
LON-MW3B	11/12/2014	12:13	111.12	107.84		
LON-MW3B	12/17/2014	9:20	110.97	107.99		
LON-MW3B	1/8/2015	12:52	110.48	108.48		
LON-MW3B	2/19/2015	15:01	111.01	107.95		
LON-MW3B	3/12/2015	11:30	111.47	107.49		
LON-MW3B	4/21/2015	10:22	112.31	106.65		
LON-MW3B	5/13/2015	13:08	112.77	106.19		
LON-MW3B	6/11/2015	11:31	113.52	105.44		
LON-MW3B	7/21/2015	13:45	114.79	104.17		
LON-MW3B	8/25/2015	8:22	115.84	103.12		
LON-MW3B	9/15/2015	9:50	116.42	102.54		
LON-MW3B	10/21/2015	14:15	116.98	101.98		
LON-MW3B	11/17/2015	10:08	117.38	101.58		
LON-MW3B	12/17/2015	10:30	117.22	101.74		
LON-MW3B	1/12/2016	9:45	117.05	101.91		
LON-MW3B	2/23/2016	10:03	116.67	102.29		
LON-MW3B	3/18/2016	10:12	117.31	101.65		
LON-MW3B	4/19/2016	11:09	117.95	101.01		
LON-MW3B	5/4/2016	13:42	118.13	100.83		
LON-MW3B	6/22/2016	11:01	119.01	99.95		
LON-MW3B	7/20/2016	13:04	119.55	99.41		
LON-MW3B	8/10/2016	12:37	120.00	98.96		
LON-MW3B	9/29/2016	7:45	114.68	104.28		
LON-MW3B	10/27/2016	12:46	121.59	97.37		
LON-MW3B	11/10/2016	11:13	121.89	97.07		
LON-MW3B	12/22/2016	14:02	121.80	97.16		
LON-MW3B	1/5/2017	15:57	122.93	96.03		
LON-MW3B	2/1/2017		N/M			
LON-MW3B	3/30/2017	16:39	121.04	97.92		
LON-MW3B	4/20/2017	8:34	121.61	97.35		
LON-MW3B	5/11/2017	11:40	120.50	98.46		
LON-MW3B	6/6/2017	10:46	119.51	99.45		
LON-MW3B	7/14/2017	7:06	117.48	101.48		
LON-MW3B	8/23/2017	11:51	115.40	103.56		
LON-MW3B	9/12/2017	12:56	114.64	104.32		
LON-MW3B	10/17/2017	12:50	112.76	106.20		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
LON-MW3B	11/28/2017	7:36	113.52	105.44		
LON-MW3B	12/22/2017	11:44	113.16	105.80		
LON-MW3B	1/10/2018	11:09	109.95	109.01		
LON-MW3B	2/22/2018	8:19	109.79	109.17		
LON-MW3B	3/22/2018	17:10	109.52	109.44		
LON-MW3B	4/25/2018	8:33	109.90	109.06		
LON-MW3B	5/30/2018	7:24	110.67	108.29		
LON-MW3B	6/13/2018	10:52	110.65	108.31		
LON-MW3B	7/18/2018	12:13	112.44	106.52		
LON-MW3B	8/8/2018	15:16	113.20	105.76		
LON-MW3B	9/26/2018	12:02	114.31	104.65		
LON-MW3B	10/31/2018	11:13	114.48	104.48		
LON-MW3B	11/27/2018	12:55	Dry			
LON-MW3B	12/27/2018	9:29	113.88	105.08		
LON-MW3B	1/10/2019	9:58	Dry			
LON-MW3B	2/21/2019	8:17	111.62	107.34		
LON-MW3B	3/27/2019	16:21	106.39	112.57		
LON-MW3B	4/17/2019	10:02	113.13	105.83		
LON-MW3B	5/22/2019	7:36	113.44	105.52		
LON-MW3B	6/13/2019	7:30	Dry			
LON-MW3B	7/18/2019	7:16	112.19	106.77		
LON-MW3B	8/14/2019	12:04	111.47	107.49		
LON-MW3B	9/14/2019	11:26	112.07	106.89		
LON-MW3B	10/29/2019	13:03	110.70	108.26		
LON-MW3B	11/22/2019	7:41	Dry			
LON-MW3B	12/12/2019	10:12	112.00	106.96		
LON-MW3C	1/23/2013	12:00	95.18	123.47		
LON-MW3C	2/13/2013	10:24	96.31	122.34		
LON-MW3C	3/20/2013	12:56	96.71	121.94		
LON-MW3C	4/24/2013	10:01	96.87	121.78		
LON-MW3C	5/15/2013	14:28	97.48	121.17		
LON-MW3C	6/20/2013	14:53	98.79	119.86		
LON-MW3C	7/18/2013	9:34	100.02	118.63		
LON-MW3C	8/15/2013	9:16	101.90	116.75		
LON-MW3C	9/12/2013	11:25	102.60	116.05		
LON-MW3C	10/24/2013	11:07	103.26	115.39		
LON-MW3C	11/20/2013	7:53	102.90	115.75		
LON-MW3C	12/27/2013	11:44	102.55	116.10		
LON-MW3C	1/15/2014	10:10	102.93	115.72		
LON-MW3C	2/19/2014	12:12	103.12	115.53		
LON-MW3C	3/19/2014	13:31	103.59	115.06		
LON-MW3C	4/15/2014	12:55	104.42	114.23		
LON-MW3C	5/28/2014	8:55	105.94	112.71		
LON-MW3C	6/12/2014	12:02	106.54	112.11		
LON-MW3C	7/9/2014	10:42	107.74	110.91		
LON-MW3C	8/14/2014	7:39	109.06	109.59		
LON-MW3C	9/25/2014	9:34	110.24	108.41		
LON-MW3C	10/22/2014	10:42	110.65	108.00		
LON-MW3C	11/12/2014	12:16	110.81	107.84		
LON-MW3C	12/17/2014	9:22	110.62	108.03		
LON-MW3C	1/8/2015	12:55	110.19	108.46		
LON-MW3C	2/19/2015	15:04	110.67	107.98		
LON-MW3C	3/12/2015	11:33	111.18	107.47		
LON-MW3C	4/21/2015	10:24	112.01	106.64		
LON-MW3C	5/13/2015	13:10	112.62	106.03		
LON-MW3C	6/11/2015	11:34	113.24	105.41		
LON-MW3C	7/21/2015	13:49	114.50	104.15		
LON-MW3C	8/25/2015	8:25	115.61	103.04		
LON-MW3C	9/15/2015	9:53	116.21	102.44		
LON-MW3C	10/21/2015	14:20	116.76	101.89		
LON-MW3C	11/17/2015	10:10	117.09	101.56		
LON-MW3C	12/17/2015	10:33	116.90	101.75		
LON-MW3C	1/12/2016	9:48	116.92	101.73		
LON-MW3C	2/23/2016	10:05	116.45	102.20		
LON-MW3C	3/18/2016	10:14	117.02	101.63		
LON-MW3C	4/19/2016	11:12	117.86	100.79		
LON-MW3C	5/4/2016	13:44	117.69	100.96		
LON-MW3C	6/22/2016	11:06	118.67	99.98		
LON-MW3C	7/20/2016	13:07	119.12	99.53		
LON-MW3C	8/10/2016	12:39	119.72	98.93		
LON-MW3C	9/29/2016	7:48	113.97	104.68		
LON-MW3C	10/27/2016	12:49	121.26	97.39		
LON-MW3C	11/10/2016	11:14	121.58	97.07		
LON-MW3C	12/22/2016	14:05	121.50	97.15		
LON-MW3C	1/5/2017	16:05	121.88	96.77		
LON-MW3C	2/1/2017		N/M			
LON-MW3C	3/30/2017	16:42	120.71	97.94		
LON-MW3C	4/20/2017	8:37	119.97	98.68		
LON-MW3C	5/11/2017	11:37	120.20	98.45		
LON-MW3C	6/6/2017	10:49	119.10	99.55		
LON-MW3C	7/14/2017	7:08	117.28	101.37		
LON-MW3C	8/23/2017	11:54	115.08	103.57		
LON-MW3C	9/12/2017	12:59	114.25	104.40		
LON-MW3C	10/17/2017	12:52	112.41	106.24		
LON-MW3C	11/28/2017	7:39	111.00	107.65		
LON-MW3C	12/22/2017	11:41	113.21	105.44		
LON-MW3C	1/10/2018	11:11	109.65	109.00		
LON-MW3C	2/22/2018	8:21	109.46	109.19		
LON-MW3C	3/22/2018	17:15	109.21	109.44		
LON-MW3C	4/25/2018	8:34	109.71	108.94		
LON-MW3C	5/30/2018	7:26	110.38	108.27		
LON-MW3C	6/13/2018	10:54	110.38	108.27		
LON-MW3C	7/18/2018	12:15	112.21	106.44		
LON-MW3C	8/8/2018	15:17	112.90	105.75		
LON-MW3C	9/26/2018	12:05	114.08	104.57		
LON-MW3C	10/31/2018	11:15	114.15	104.50		
LON-MW3C	11/27/2018	12:56	Dry			
LON-MW3C	12/27/2018	9:30	113.67	104.98		
LON-MW3C	1/10/2019	9:59	113.44	105.21		
LON-MW3C	2/21/2019	8:18	112.15	106.50		
LON-MW3C	3/27/2019	16:20	106.89	111.76		
LON-MW3C	4/17/2019	10:05	112.81	105.84		
LON-MW3C	5/22/2019	7:37	113.20	105.45		
LON-MW3C	6/13/2019	7:32	112.81	105.84		
LON-MW3C	7/18/2019	7:14	111.79	106.86		
LON-MW3C	8/14/2019	12:07	111.20	107.45		
LON-MW3C	9/14/2019	11:29	100.67	117.98		
LON-MW3C	10/29/2019	13:04	110.37	108.28		
LON-MW3C	11/22/2019	7:40	110.56	108.09		
LON-MW3C	12/12/2019	10:14	111.67	106.98		
LON-MW4A	1/23/2013	11:16	Dry			
LON-MW4A	2/13/2013	9:10	Dry			
LON-MW4A	3/20/2013	14:15	Dry			
LON-MW4A	4/24/2013	10:20	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
LON-MW4A	5/15/2013	14:35	Dry			
LON-MW4A	6/20/2013	15:22	Dry			
LON-MW4A	7/18/2013	9:54	Dry			
LON-MW4A	8/15/2013	9:22	Dry			
LON-MW4A	9/12/2013	12:09	Dry			
LON-MW4A	10/24/2013	11:30	Dry			
LON-MW4A	11/20/2013	8:16	Dry			
LON-MW4A	12/27/2013	12:34	Dry			
LON-MW4A	1/15/2014	10:34	Dry			
LON-MW4A	2/19/2014	12:34	Dry			
LON-MW4A	3/19/2014	14:21	Dry			
LON-MW4A	4/15/2014	13:38	Dry			
LON-MW4A	5/28/2014	9:25	Dry			
LON-MW4A	6/12/2014	12:45	Dry			
LON-MW4A	7/9/2014	11:04	Dry			
LON-MW4A	8/14/2014	8:36	Dry			
LON-MW4A	9/25/2014	10:01	Dry			
LON-MW4A	10/22/2014	10:47	Dry			
LON-MW4A	11/12/2014	11:00	Dry			
LON-MW4A	12/17/2014	9:38	Dry			
LON-MW4A	1/8/2015	13:21	Dry			
LON-MW4A	2/19/2015	15:40	Dry			
LON-MW4A	3/12/2015	12:00	Dry			
LON-MW4A	4/21/2015	10:45	Dry			
LON-MW4A	5/13/2015	13:35	Dry			
LON-MW4A	6/11/2015	11:51	Dry			
LON-MW4A	7/21/2015	14:15	Dry			
LON-MW4A	8/25/2015	7:25	Dry			
LON-MW4A	9/15/2015	10:36	Dry			
LON-MW4A	10/21/2015	14:45	Dry			
LON-MW4A	11/17/2015	10:40	Dry			
LON-MW4A	12/17/2015	10:51	Dry			
LON-MW4A	1/12/2016	10:07	Dry			
LON-MW4A	2/23/2016	9:24	Dry			
LON-MW4A	3/18/2016	10:37	Dry			
LON-MW4A	4/19/2016	11:48	Dry			
LON-MW4A	5/4/2016	14:02	Dry			
LON-MW4A	6/22/2016	11:40	Dry			
LON-MW4A	7/20/2016	13:30	Dry			
LON-MW4A	8/10/2016	13:14	Dry			
LON-MW4A	9/29/2016	8:50	Dry			
LON-MW4A	10/27/2016	13:12	Dry			
LON-MW4A	11/10/2016	11:23	87.51	133.43		
LON-MW4A	12/22/2016	14:27	Dry			
LON-MW4A	1/5/2017	16:30	87.44	133.50		
LON-MW4A	2/1/2017		N/M			
LON-MW4A	3/30/2017	15:56	Dry			
LON-MW4A	4/20/2017	8:58	Dry			
LON-MW4A	5/11/2017	11:30	Dry			
LON-MW4A	6/6/2017	10:58	Dry			
LON-MW4A	7/14/2017	7:26	Dry			
LON-MW4A	8/23/2017	12:16	Dry			
LON-MW4A	9/12/2017	13:15	Dry			
LON-MW4A	10/17/2017	13:08	Dry			
LON-MW4A	11/28/2017	7:54	Dry			
LON-MW4A	12/22/2017	12:07	Dry			
LON-MW4A	1/10/2018	11:30	Dry			
LON-MW4A	2/22/2018	8:34	Dry			
LON-MW4A	3/22/2018	15:15	Dry			
LON-MW4A	4/25/2018	8:54	Dry			
LON-MW4A	5/30/2018	7:43	Dry			
LON-MW4A	6/13/2018	11:27	Dry			
LON-MW4A	7/18/2018	12:45	Dry			
LON-MW4A	8/8/2018	15:50	Dry			
LON-MW4A	9/26/2018	12:27	Dry			
LON-MW4A	10/31/2018	11:39	Dry			
LON-MW4A	11/27/2018	13:20	Dry			
LON-MW4A	12/27/2018	9:50	Dry			
LON-MW4A	1/10/2019	10:31	Dry			
LON-MW4A	2/21/2019	7:54	Dry			
LON-MW4A	3/27/2019	16:25	Dry			
LON-MW4A	4/17/2019	10:57	Dry			
LON-MW4A	5/22/2019	7:59	Dry			
LON-MW4A	6/13/2019	7:12	Dry			
LON-MW4A	7/18/2019	7:46	Dry			
LON-MW4A	8/14/2019	12:10	Dry			
LON-MW4A	9/14/2019	10:30	Dry			
LON-MW4A	10/29/2019	13:07	Dry			
LON-MW4A	11/22/2019	7:19	Dry			
LON-MW4A	12/12/2019	10:30	Dry			
LON-MW4B	1/23/2013	11:18	95.30	126.27		
LON-MW4B	2/13/2013	9:14	95.61	125.96		
LON-MW4B	3/20/2013	14:19	96.65	124.92		
LON-MW4B	4/24/2013	10:23	96.91	124.66		
LON-MW4B	5/15/2013	14:36	98.20	123.37		
LON-MW4B	6/20/2013	15:27	99.87	121.70		
LON-MW4B	7/18/2013	9:57	101.52	120.05		
LON-MW4B	8/15/2013	9:24	103.04	118.53		
LON-MW4B	9/12/2013	12:14	103.78	117.79		
LON-MW4B	10/24/2013	11:34	102.79	118.78		
LON-MW4B	11/20/2013	8:19	104.51	117.06		
LON-MW4B	12/27/2013	12:24	104.11	117.46		
LON-MW4B	1/15/2014	10:38	103.71	117.86		
LON-MW4B	2/19/2014	12:37	104.68	116.89		
LON-MW4B	3/19/2014	14:25	104.90	116.67		
LON-MW4B	4/15/2014	13:41	105.57	116.00		
LON-MW4B	5/28/2014	9:28	107.55	114.02		
LON-MW4B	6/12/2014	12:49	107.42	114.15		
LON-MW4B	7/9/2014	11:06	108.43	113.14		
LON-MW4B	8/14/2014	8:43	Dry			
LON-MW4B	9/25/2014	10:04	Dry			
LON-MW4B	10/22/2014	10:50	Dry			
LON-MW4B	11/12/2014	11:03	Dry			
LON-MW4B	12/17/2014	9:40	Dry			
LON-MW4B	1/8/2015	13:23	Dry			
LON-MW4B	2/19/2015	15:44	Dry			
LON-MW4B	3/12/2015	12:02	Dry			
LON-MW4B	4/21/2015	10:48	Dry			
LON-MW4B	5/13/2015	13:40	Dry			
LON-MW4B	6/11/2015	11:54	Dry			
LON-MW4B	7/21/2015	14:19	Dry			
LON-MW4B	8/25/2015	7:28	Dry			
LON-MW4B	9/15/2015	10:39	Dry			
LON-MW4B	10/21/2015	14:50	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
LON-MW4B	11/17/2015	10:42	Dry			
LON-MW4B	12/17/2015	10:53	Dry			
LON-MW4B	1/12/2016	10:10	Dry			
LON-MW4B	2/23/2016	9:27	Dry			
LON-MW4B	3/18/2016	10:39	Dry			
LON-MW4B	4/19/2016	11:51	Dry			
LON-MW4B	5/4/2016	14:04	Dry			
LON-MW4B	6/22/2016	11:45	Dry			
LON-MW4B	7/20/2016	13:33	Dry			
LON-MW4B	8/10/2016	13:16	Dry			
LON-MW4B	9/29/2016	8:53	Dry			
LON-MW4B	10/27/2016	13:15	Dry			
LON-MW4B	11/10/2016	11:24	Dry			
LON-MW4B	12/22/2016	14:29	Dry			
LON-MW4B	1/5/2017	16:33	Dry			
LON-MW4B	2/1/2017		N/M			
LON-MW4B	3/30/2017	15:58	Dry			
LON-MW4B	4/20/2017	9:05	Dry			
LON-MW4B	5/11/2017	11:34	Dry			
LON-MW4B	6/6/2017	11:00	Dry			
LON-MW4B	7/14/2017	7:26	Dry			
LON-MW4B	8/23/2017	12:20	Dry			
LON-MW4B	9/12/2017	13:17	Dry			
LON-MW4B	10/17/2017	13:10	Dry			
LON-MW4B	11/28/2017	7:56	Dry			
LON-MW4B	12/22/2017	12:09	Dry			
LON-MW4B	1/10/2018	11:32	Dry			
LON-MW4B	2/22/2018	8:36	Dry			
LON-MW4B	3/22/2018	15:20	Dry			
LON-MW4B	4/25/2018	8:55	Dry			
LON-MW4B	5/30/2018	7:46	Dry			
LON-MW4B	6/13/2018	11:25	Dry			
LON-MW4B	7/18/2018	12:43	Dry			
LON-MW4B	8/8/2018	15:49	Dry			
LON-MW4B	9/26/2018	12:31	Dry			
LON-MW4B	10/31/2018	11:36	Dry			
LON-MW4B	11/27/2018	13:21	Dry			
LON-MW4B	12/27/2018	9:51	Dry			
LON-MW4B	1/10/2019	10:32	Dry			
LON-MW4B	2/21/2019	7:55	Dry			
LON-MW4B	3/27/2019	16:27	Dry			
LON-MW4B	4/17/2019	10:59	Dry			
LON-MW4B	5/22/2019	8:00	Dry			
LON-MW4B	6/13/2019	7:06	Dry			
LON-MW4B	7/18/2019	7:40	Dry			
LON-MW4B	8/14/2019	12:12	Dry			
LON-MW4B	9/14/2019	10:32	Dry			
LON-MW4B	10/29/2019	13:08	Dry			
LON-MW4B	11/22/2019	7:24	Dry			
LON-MW4B	12/12/2019	10:32	108.98	112.59		
LON-MW4C	1/23/2013	11:20	95.66	125.74		
LON-MW4C	2/13/2013	9:18	96.45	124.95		
LON-MW4C	3/20/2013	14:21	96.88	124.52		
LON-MW4C	4/24/2013	10:25	97.81	123.59		
LON-MW4C	5/15/2013	14:36	98.51	122.89		
LON-MW4C	6/20/2013	16:00	99.97	121.43		
LON-MW4C	7/18/2013	9:59	101.56	119.84		
LON-MW4C	8/15/2013	9:27	103.00	118.40		
LON-MW4C	9/12/2013	12:18	103.81	117.59		
LON-MW4C	10/24/2013	11:37	102.84	118.56		
LON-MW4C	11/20/2013	8:22	104.37	117.03		
LON-MW4C	12/27/2013	12:27	103.89	117.51		
LON-MW4C	1/15/2014	10:46	104.13	117.27		
LON-MW4C	2/19/2014	12:40	104.97	116.43		
LON-MW4C	3/19/2014	14:28	104.85	116.55		
LON-MW4C	4/15/2014	13:44	105.52	115.88		
LON-MW4C	5/28/2014	9:31	106.74	114.66		
LON-MW4C	6/12/2014	12:52	107.33	114.07		
LON-MW4C	7/9/2014	11:08	108.23	113.17		
LON-MW4C	8/14/2014	8:46	109.45	111.95		
LON-MW4C	9/25/2014	10:09	110.55	110.85		
LON-MW4C	10/22/2014	10:53	110.94	110.46		
LON-MW4C	11/12/2014	11:05	111.00	110.40		
LON-MW4C	12/17/2014	9:42	110.79	110.61		
LON-MW4C	1/8/2015	13:26	110.42	110.98		
LON-MW4C	2/19/2015	15:47	110.63	110.77		
LON-MW4C	3/12/2015	12:05	111.23	110.17		
LON-MW4C	4/21/2015	10:51	112.04	109.36		
LON-MW4C	5/13/2015	13:44	112.58	108.82		
LON-MW4C	6/11/2015	11:53	113.32	108.08		
LON-MW4C	7/21/2015	14:23	114.55	106.85		
LON-MW4C	8/25/2015	7:31	115.80	105.60		
LON-MW4C	9/15/2015	10:42	116.35	105.05		
LON-MW4C	10/21/2015	14:55	116.90	104.50		
LON-MW4C	11/17/2015	10:44	117.32	104.08		
LON-MW4C	12/17/2015	10:56	117.07	104.33		
LON-MW4C	1/12/2016	10:13	117.10	104.30		
LON-MW4C	2/23/2016	9:29	116.40	105.00		
LON-MW4C	3/18/2016	10:41	117.12	104.28		
LON-MW4C	4/19/2016	11:54	117.82	103.58		
LON-MW4C	5/4/2016	14:06	117.66	103.74		
LON-MW4C	6/22/2016	11:49	118.45	102.95		
LON-MW4C	7/20/2016	13:36	119.11	102.29		
LON-MW4C	8/10/2016	13:18	113.42	107.98		
LON-MW4C	9/29/2016	8:56	113.98	107.42		
LON-MW4C	10/27/2016	13:18	121.47	99.93		
LON-MW4C	11/10/2016	11:25	Dry			
LON-MW4C	12/22/2016	14:32	121.98	99.42		
LON-MW4C	1/5/2017	16:38	118.12	103.28		
LON-MW4C	2/1/2017		N/M			
LON-MW4C	3/30/2017	16:00	121.43	99.97		
LON-MW4C	4/20/2017	9:08	121.31	100.09		
LON-MW4C	5/11/2017	11:39	121.34	100.06		
LON-MW4C	6/6/2017	11:02	123.34	98.06		
LON-MW4C	7/14/2017	7:29	120.91	100.49		
LON-MW4C	8/23/2017	12:24	120.91	100.49		
LON-MW4C	9/12/2017	13:19	120.46	100.94		
LON-MW4C	10/17/2017	13:12	119.75	101.65		
LON-MW4C	11/28/2017	7:58	118.97	102.43		
LON-MW4C	12/22/2017	12:11	121.10	100.30		
LON-MW4C	1/10/2018	11:34	117.61	103.79		
LON-MW4C	2/22/2018	8:38	116.44	104.96		
LON-MW4C	3/22/2018	15:25	115.64	105.76		
LON-MW4C	4/25/2018	8:56	113.50	107.90		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
LON-MW4C	5/30/2018	7:48	115.30	106.10		
LON-MW4C	6/13/2018	11:22	118.16	103.24		
LON-MW4C	7/18/2018	12:42	116.30	105.10		
LON-MW4C	8/8/2018	15:48	116.70	104.70		
LON-MW4C	9/26/2018	12:35	117.52	103.88		
LON-MW4C	10/31/2018	11:38	117.45	103.95		
LON-MW4C	11/27/2018	13:22	Dry			
LON-MW4C	12/27/2018	9:52	116.30	105.10		
LON-MW4C	1/10/2019	10:33	115.87	105.53		
LON-MW4C	2/21/2019	7:52	116.42	104.98		
LON-MW4C	3/27/2019	16:28	107.24	114.16		
LON-MW4C	4/17/2019	11:02	114.50	106.90		
LON-MW4C	5/22/2019	8:01	114.83	106.57		
LON-MW4C	6/13/2019	7:07	114.94	106.46		
LON-MW4C	7/18/2019	7:42	115.12	106.28		
LON-MW4C	8/14/2019	12:16	115.30	106.10		
LON-MW4C	9/14/2019	10:35	115.52	105.88		
LON-MW4C	10/29/2019	13:09	Q/M			
LON-MW4C	11/22/2019	7:22	114.14	107.26		
LON-MW4C	12/12/2019	10:34	115.01	106.39		
LON-MW4D	1/23/2013	11:22	95.66	125.53		
LON-MW4D	2/13/2013	9:22	96.33	124.86		
LON-MW4D	3/20/2013	14:24	96.88	124.31		
LON-MW4D	4/24/2013	10:28	97.77	123.42		
LON-MW4D	5/15/2013	14:38	98.51	122.68		
LON-MW4D	6/20/2013	16:05	99.95	121.24		
LON-MW4D	7/18/2013	10:03	101.56	119.63		
LON-MW4D	8/15/2013	9:30	102.81	118.38		
LON-MW4D	9/12/2013	12:22	103.58	117.61		
LON-MW4D	10/24/2013	11:40	102.84	118.35		
LON-MW4D	11/20/2013	8:26	104.17	117.02		
LON-MW4D	12/27/2013	12:30	103.68	117.51		
LON-MW4D	1/15/2014	10:50	103.88	117.31		
LON-MW4D	2/19/2014	12:43	104.77	116.42		
LON-MW4D	3/19/2014	14:33	104.57	116.62		
LON-MW4D	4/15/2014	13:48	105.24	115.95		
LON-MW4D	5/28/2014	9:34	106.55	114.64		
LON-MW4D	6/12/2014	12:55	107.08	114.11		
LON-MW4D	7/9/2014	11:10	108.04	113.15		
LON-MW4D	8/14/2014	8:48	109.19	112.00		
LON-MW4D	9/25/2014	10:10	110.33	110.86		
LON-MW4D	10/22/2014	10:58	110.68	110.51		
LON-MW4D	11/12/2014	11:08	110.78	110.41		
LON-MW4D	12/17/2014	9:44	110.54	110.65		
LON-MW4D	1/8/2015	13:29	110.21	110.98		
LON-MW4D	2/19/2015	15:51	110.48	110.71		
LON-MW4D	3/12/2015	12:09	110.98	110.21		
LON-MW4D	4/21/2015	10:54	111.83	109.36		
LON-MW4D	5/13/2015	13:47	112.34	108.85		
LON-MW4D	6/11/2015	11:56	113.11	108.08		
LON-MW4D	7/21/2015	14:27	114.31	106.88		
LON-MW4D	8/25/2015	7:34	115.54	105.65		
LON-MW4D	9/15/2015	10:45	116.20	104.99		
LON-MW4D	10/21/2015	15:00	116.70	104.49		
LON-MW4D	11/17/2015	10:46	117.12	104.07		
LON-MW4D	12/17/2015	10:59	116.83	104.36		
LON-MW4D	1/12/2016	10:17	116.96	104.23		
LON-MW4D	2/23/2016	9:31	116.23	104.96		
LON-MW4D	3/18/2016	10:43	116.81	104.38		
LON-MW4D	4/19/2016	11:57	117.28	103.91		
LON-MW4D	5/4/2016	14:08	117.34	103.85		
LON-MW4D	6/22/2016	11:54	118.26	102.93		
LON-MW4D	7/20/2016	13:39	118.85	102.34		
LON-MW4D	8/10/2016	13:21	119.44	101.75		
LON-MW4D	9/29/2016	9:00	114.22	106.97		
LON-MW4D	10/27/2016	13:22	121.28	99.91		
LON-MW4D	11/10/2016	11:26	121.61	99.58		
LON-MW4D	12/22/2016	14:35	121.74	99.45		
LON-MW4D	1/5/2017	16:42	126.91	94.28		
LON-MW4D	2/1/2017		N/M			
LON-MW4D	3/30/2017	16:02	121.19	100.00		
LON-MW4D	4/20/2017	9:11	121.11	100.08		
LON-MW4D	5/11/2017	11:45	121.09	100.10		
LON-MW4D	6/6/2017	11:04	125.65	95.54		
LON-MW4D	7/14/2017	7:33	120.70	100.49		
LON-MW4D	8/23/2017	12:29	120.52	100.67		
LON-MW4D	9/12/2017	13:21	120.25	100.94		
LON-MW4D	10/17/2017	13:14	119.55	101.64		
LON-MW4D	11/28/2017	8:00	118.80	102.39		
LON-MW4D	12/22/2017	12:13	121.02	100.17		
LON-MW4D	1/10/2018	11:36	117.43	103.76		
LON-MW4D	2/22/2018	8:40	116.20	104.99		
LON-MW4D	3/22/2018	15:32	115.45	105.74		
LON-MW4D	4/25/2018	8:57	115.10	106.09		
LON-MW4D	5/30/2018	7:50	115.10	106.09		
LON-MW4D	6/13/2018	11:20	118.01	103.18		
LON-MW4D	7/18/2018	12:41	116.31	104.88		
LON-MW4D	8/8/2018	15:47	116.50	104.69		
LON-MW4D	9/26/2018	12:38	Dry			
LON-MW4D	10/31/2018	11:40	117.21	103.98		
LON-MW4D	11/27/2018	13:24	Dry			
LON-MW4D	12/27/2018	9:53	116.10	105.09		
LON-MW4D	1/10/2019	10:34	116.09	105.10		
LON-MW4D	2/21/2019	7:51	116.35	104.84		
LON-MW4D	3/27/2019	16:29	107.06	114.13		
LON-MW4D	4/17/2019	11:05	114.31	106.88		
LON-MW4D	5/22/2019	8:02	114.61	106.58		
LON-MW4D	6/13/2019	7:08	114.71	106.48		
LON-MW4D	7/18/2019	7:44	114.92	106.27		
LON-MW4D	8/14/2019	12:20	115.04	106.15		
LON-MW4D	9/14/2019	10:37	115.29	105.90		
LON-MW4D	10/29/2019	13:10	112.43	108.76		
LON-MW4D	11/22/2019	7:26	114.02	107.17		
LON-MW4D	12/12/2019	10:36	114.35	106.84		
LON-MW5A	1/23/2013	11:32	Dry			
LON-MW5A	2/13/2013	8:53	Dry			
LON-MW5A	3/20/2013	14:50	Dry			
LON-MW5A	4/24/2013	10:33	Dry			
LON-MW5A	5/15/2013	14:55	Dry			
LON-MW5A	6/20/2013	16:17	Dry			
LON-MW5A	7/18/2013	10:10	Dry			
LON-MW5A	8/15/2013	9:36	Dry			
LON-MW5A	9/12/2013	12:32	Dry			
LON-MW5A	10/24/2013	11:51	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
LON-MW5A	11/20/2013	8:32	Dry			
LON-MW5A	12/27/2013	12:43	Dry			
LON-MW5A	1/15/2014	10:54	Dry			
LON-MW5A	2/19/2014	12:49	Dry			
LON-MW5A	3/19/2014	14:44	Dry			
LON-MW5A	4/15/2014	14:00	Dry			
LON-MW5A	5/28/2014	9:40	Dry			
LON-MW5A	6/12/2014	13:04	Dry			
LON-MW5A	7/9/2014	11:14	93.76	128.88		
LON-MW5A	8/14/2014	8:59	Dry			
LON-MW5A	9/25/2014	10:18	Dry			
LON-MW5A	10/22/2014	10:59	Dry			
LON-MW5A	11/12/2014	11:16	Dry			
LON-MW5A	12/17/2014	9:49	Dry			
LON-MW5A	1/8/2015	13:34	Dry			
LON-MW5A	2/19/2015	15:59	Dry			
LON-MW5A	3/12/2015	12:13	Dry			
LON-MW5A	4/21/2015	11:03	Dry			
LON-MW5A	5/13/2015	13:55	Dry			
LON-MW5A	6/11/2015	12:00	Dry			
LON-MW5A	7/21/2015	14:28	Dry			
LON-MW5A	8/25/2015	7:09	Dry			
LON-MW5A	9/15/2015	10:53	Dry			
LON-MW5A	10/21/2015	15:20	Dry			
LON-MW5A	11/17/2015	11:01	Dry			
LON-MW5A	12/17/2015	11:05	Dry			
LON-MW5A	1/12/2016	10:22	Dry			
LON-MW5A	2/23/2016	9:12	Dry			
LON-MW5A	3/18/2016	10:47	Dry			
LON-MW5A	4/19/2016	12:07	Dry			
LON-MW5A	5/4/2016	14:18	Dry			
LON-MW5A	6/22/2016	12:09	Dry			
LON-MW5A	7/20/2016	13:47	Dry			
LON-MW5A	8/10/2016	13:26	Dry			
LON-MW5A	9/29/2016	9:10	Dry			
LON-MW5A	10/27/2016	13:30	Dry			
LON-MW5A	11/10/2016	11:29	Dry			
LON-MW5A	12/22/2016	14:47	Dry			
LON-MW5A	1/5/2017	16:30	Dry			
LON-MW5A	2/1/2017		N/M			
LON-MW5A	3/30/2017	15:38	Dry			
LON-MW5A	4/20/2017	9:16	Dry			
LON-MW5A	5/11/2017	11:52	Dry			
LON-MW5A	6/6/2017	11:20	Dry			
LON-MW5A	7/14/2017	7:45	Dry			
LON-MW5A	8/23/2017	11:48	Dry			
LON-MW5A	9/12/2017	13:26	Dry			
LON-MW5A	10/17/2017	13:22	Dry			
LON-MW5A	11/28/2017	8:05	Dry			
LON-MW5A	12/22/2017	12:25	Dry			
LON-MW5A	1/10/2018	11:42	Dry			
LON-MW5A	2/22/2018	8:44	Dry			
LON-MW5A	3/22/2018	15:45	Dry			
LON-MW5A	4/25/2018	9:08	Dry			
LON-MW5A	5/30/2018	7:57	Dry			
LON-MW5A	6/13/2018	11:38	Dry			
LON-MW5A	7/18/2018	12:54	Dry			
LON-MW5A	8/8/2018	16:01	Dry			
LON-MW5A	9/26/2018	12:49	Dry			
LON-MW5A	10/31/2018	11:49	Dry			
LON-MW5A	11/27/2018	13:30	Dry			
LON-MW5A	12/27/2018	10:07	Dry			
LON-MW5A	1/10/2019	11:07	Dry			
LON-MW5A	2/21/2019	7:09	Dry			
LON-MW5A	3/27/2019	16:38	Dry			
LON-MW5A	4/17/2019	11:14	Dry			
LON-MW5A	5/22/2019	8:06	Dry			
LON-MW5A	6/13/2019	7:00	Dry			
LON-MW5A	7/18/2019	7:51	Dry			
LON-MW5A	8/14/2019	12:25	Dry			
LON-MW5A	9/14/2019	10:43	Dry			
LON-MW5A	10/29/2019	13:15	Dry			
LON-MW5A	11/22/2019	7:10	Dry			
LON-MW5A	12/12/2019	10:40	Dry			
LON-MW5B	1/23/2013	11:34	100.66	121.70		
LON-MW5B	2/13/2013	8:56	101.51	120.85		
LON-MW5B	3/20/2013	14:52	102.34	120.02		
LON-MW5B	4/24/2013	10:36	103.63	118.73		
LON-MW5B	5/15/2013	14:57	104.62	117.74		
LON-MW5B	6/20/2013	16:20	106.85	115.51		
LON-MW5B	7/18/2013	10:12	108.15	114.21		
LON-MW5B	8/15/2013	9:40	Dry			
LON-MW5B	9/12/2013	12:35	Dry			
LON-MW5B	10/24/2013	11:53	Dry			
LON-MW5B	11/20/2013	8:36	Dry			
LON-MW5B	12/27/2013	12:47	Dry			
LON-MW5B	1/15/2014	10:56	Dry			
LON-MW5B	2/19/2014	12:52	Dry			
LON-MW5B	3/19/2014	14:51	Dry			
LON-MW5B	4/15/2014	14:02	Dry			
LON-MW5B	5/28/2014	9:43	Dry			
LON-MW5B	6/12/2014	13:08	Dry			
LON-MW5B	7/9/2014	11:16	Dry			
LON-MW5B	8/14/2014	9:03	Dry			
LON-MW5B	9/25/2014	10:21	Dry			
LON-MW5B	10/22/2014	11:02	Dry			
LON-MW5B	11/12/2014	11:19	Dry			
LON-MW5B	12/17/2014	9:51	Dry			
LON-MW5B	1/8/2015	13:38	Dry			
LON-MW5B	2/19/2015	16:03	Dry			
LON-MW5B	3/12/2015	12:16	Dry			
LON-MW5B	4/21/2015	11:06	Dry			
LON-MW5B	5/13/2015	13:58	Dry			
LON-MW5B	6/11/2015	12:03	Dry			
LON-MW5B	7/21/2015	14:30	Dry			
LON-MW5B	8/25/2015	7:12	Dry			
LON-MW5B	9/15/2015	10:56	Dry			
LON-MW5B	10/21/2015	15:25	Dry			
LON-MW5B	11/17/2015	11:04	Dry			
LON-MW5B	12/17/2015	11:08	Dry			
LON-MW5B	1/12/2016	10:25	Dry			
LON-MW5B	2/23/2016	9:15	Dry			
LON-MW5B	3/18/2016	10:49	Dry			
LON-MW5B	4/19/2016	12:10	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
LON-MW5B	5/4/2016	14:20	Dry			
LON-MW5B	6/22/2016	12:12	Dry			
LON-MW5B	7/20/2016	13:50	Dry			
LON-MW5B	8/10/2016	13:28	Dry			
LON-MW5B	9/29/2016	9:15	Dry			
LON-MW5B	10/27/2016	13:33	Dry			
LON-MW5B	11/10/2016	11:30	Dry			
LON-MW5B	12/22/2016	14:43	Dry			
LON-MW5B	1/5/2017	16:35	Dry			
LON-MW5B	2/1/2017		N/M			
LON-MW5B	3/30/2017	15:40	Dry			
LON-MW5B	4/20/2017	9:20	Dry			
LON-MW5B	5/11/2017	11:57	Dry			
LON-MW5B	6/6/2017	11:23	Dry			
LON-MW5B	7/14/2017	7:46	Dry			
LON-MW5B	8/23/2017	11:53	Dry			
LON-MW5B	9/12/2017	13:28	Dry			
LON-MW5B	10/17/2017	13:24	Dry			
LON-MW5B	11/28/2017	8:07	Dry			
LON-MW5B	12/22/2017	12:22	Dry			
LON-MW5B	1/10/2018	11:44	Dry			
LON-MW5B	2/22/2018	8:45	Dry			
LON-MW5B	3/22/2018	15:48	Dry			
LON-MW5B	4/25/2018	9:09	Dry			
LON-MW5B	5/30/2018	7:59	Dry			
LON-MW5B	6/13/2018	11:40	Dry			
LON-MW5B	7/18/2018	12:55	Dry			
LON-MW5B	8/8/2018	16:02	Dry			
LON-MW5B	9/26/2018	12:52				
LON-MW5B	10/31/2018	11:51	Dry			
LON-MW5B	11/27/2018	13:31	Dry			
LON-MW5B	12/27/2018	10:08	Dry			
LON-MW5B	1/10/2019	11:08	Dry			
LON-MW5B	2/21/2019	7:11	Dry			
LON-MW5B	3/27/2019	16:35	Dry			
LON-MW5B	4/17/2019	11:17	Dry			
LON-MW5B	5/22/2019	8:07	Dry			
LON-MW5B	6/13/2019	6:56	Dry			
LON-MW5B	7/18/2019	7:54	Dry			
LON-MW5B	8/14/2019	12:27	Dry			
LON-MW5B	9/14/2019	10:45	Dry			
LON-MW5B	10/29/2019	13:16	Dry			
LON-MW5B	11/22/2019	7:12	Dry			
LON-MW5B	12/12/2019	10:43	Dry			
LON-MW5C	1/23/2013	11:36	100.84	121.24		
LON-MW5C	2/13/2013	8:59	101.10	120.98		
LON-MW5C	3/20/2013	14:54	102.58	119.50		
LON-MW5C	4/24/2013	10:39	104.06	118.02		
LON-MW5C	5/15/2013	14:52	105.01	117.07		
LON-MW5C	6/20/2013	16:24	107.24	114.84		
LON-MW5C	7/18/2013	10:15	108.38	113.70		
LON-MW5C	8/15/2013	9:42	110.34	111.74		
LON-MW5C	9/12/2013	12:40	110.83	111.25		
LON-MW5C	10/24/2013	11:57	111.27	110.81		
LON-MW5C	11/20/2013	8:40	110.84	111.24		
LON-MW5C	12/27/2013	12:49	109.96	112.12		
LON-MW5C	1/15/2014	10:59	110.20	111.88		
LON-MW5C	2/19/2014	12:55	110.88	111.20		
LON-MW5C	3/19/2014	14:58	110.98	111.10		
LON-MW5C	4/15/2014	14:05	111.67	110.41		
LON-MW5C	5/28/2014	9:46	113.05	109.03		
LON-MW5C	6/12/2014	13:10	114.84	107.24		
LON-MW5C	7/9/2014	11:18	115.00	107.08		
LON-MW5C	8/14/2014	9:06	116.61	105.47		
LON-MW5C	9/25/2014	10:24	117.67	104.41		
LON-MW5C	10/22/2014	11:05	112.71	109.37		
LON-MW5C	11/12/2014	11:22	116.96	105.12		
LON-MW5C	12/17/2014	9:53	116.77	105.31		
LON-MW5C	1/8/2015	13:41	115.37	106.71		
LON-MW5C	2/19/2015	16:05	115.50	106.58		
LON-MW5C	3/12/2015	12:18	116.28	105.80		
LON-MW5C	4/21/2015	11:09	117.70	104.38		
LON-MW5C	5/13/2015	14:02	118.31	103.77		
LON-MW5C	6/11/2015	12:05	119.20	102.88		
LON-MW5C	7/21/2015	14:33	120.59	101.49		
LON-MW5C	8/25/2015	7:15	121.49	100.59		
LON-MW5C	9/15/2015	10:59	122.08	100.00		
LON-MW5C	10/21/2015	15:30	127.37	94.71		
LON-MW5C	11/17/2015	11:07	122.52	99.56		
LON-MW5C	12/17/2015	11:11	122.48	99.60		
LON-MW5C	1/12/2016	10:28	122.31	99.77		
LON-MW5C	2/23/2016	9:17	121.10	100.98		
LON-MW5C	3/18/2016	10:51	121.41	100.67		
LON-MW5C	4/19/2016	12:13	121.64	100.44		
LON-MW5C	5/4/2016	14:22	122.38	99.70		
LON-MW5C	6/22/2016	12:16	123.13	98.95		
LON-MW5C	7/20/2016	13:53	123.61	98.47		
LON-MW5C	8/10/2016	13:30	124.18	97.90		
LON-MW5C	9/29/2016	9:17	119.88	102.20		
LON-MW5C	10/27/2016	13:36	125.98	96.10		
LON-MW5C	11/10/2016	11:31	126.24	95.84		
LON-MW5C	12/22/2016	14:40	126.39	95.69		
LON-MW5C	1/5/2017	16:40	126.50	95.58		
LON-MW5C	2/1/2017		N/M			
LON-MW5C	3/30/2017	15:44	125.63	96.45		
LON-MW5C	4/20/2017	9:23	125.42	96.66		
LON-MW5C	5/11/2017	11:59	125.36	96.72		
LON-MW5C	6/6/2017	11:25	126.30	95.78		
LON-MW5C	7/14/2017	7:49	125.21	96.87		
LON-MW5C	8/23/2017	11:55	Dry			
LON-MW5C	9/12/2017	13:30	125.46	96.62		
LON-MW5C	10/17/2017	13:26	124.95	97.13		
LON-MW5C	11/28/2017	8:09	124.84	97.24		
LON-MW5C	12/22/2017	12:19	126.90	95.18		
LON-MW5C	1/10/2018	11:46	123.94	98.14		
LON-MW5C	2/22/2018	8:48	122.89	99.19		
LON-MW5C	3/22/2018	15:55	122.21	99.87		
LON-MW5C	4/25/2018	9:10	121.78	100.30		
LON-MW5C	5/30/2018	8:01	121.71	100.37		
LON-MW5C	6/13/2018	11:43	124.26	97.82		
LON-MW5C	7/18/2018	12:56	123.54	98.54		
LON-MW5C	8/9/2018	8:00	124.37	97.71		
LON-MW5C	9/26/2018	12:55	123.83	98.25		
LON-MW5C	10/31/2018	11:53	123.67	98.41		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
LON-MW5C	11/27/2018	13:32	Dry			
LON-MW5C	12/27/2018	10:09	122.76	99.32		
LON-MW5C	1/10/2019	11:09	122.50	99.58		
LON-MW5C	2/21/2019	7:12	121.17	100.91		
LON-MW5C	3/27/2019	16:36	116.75	105.33		
LON-MW5C	4/17/2019	11:20	120.48	101.60		
LON-MW5C	5/22/2019	8:08	120.82	101.26		
LON-MW5C	6/13/2019	6:57	120.71	101.37		
LON-MW5C	7/18/2019	7:56	120.85	101.23		
LON-MW5C	8/14/2019	12:30	125.31	96.77		
LON-MW5C	9/14/2019	10:47	121.53	100.55		
LON-MW5C	10/29/2019	13:17	115.90	106.18		
LON-MW5C	11/22/2019	7:13	121.51	100.57		
LON-MW5C	12/12/2019	10:45	120.20	101.88		
LON-MW6A	1/23/2013	14:26	Dry			
LON-MW6A	2/13/2013	8:40	Dry			
LON-MW6A	3/20/2013	15:15	Dry			
LON-MW6A	4/24/2013	10:42	Dry			
LON-MW6A	5/15/2013	14:48	Dry			
LON-MW6A	6/20/2013	16:32	Dry			
LON-MW6A	7/18/2013	10:20	Dry			
LON-MW6A	8/15/2013	9:50	Dry			
LON-MW6A	9/12/2013	12:54	Dry			
LON-MW6A	10/24/2013	12:05	Dry			
LON-MW6A	11/20/2013	8:48	Dry			
LON-MW6A	12/27/2013	12:58	Dry			
LON-MW6A	1/15/2014	11:04	Dry			
LON-MW6A	2/19/2014	13:01	Dry			
LON-MW6A	3/19/2014	15:07	Dry			
LON-MW6A	4/15/2014	14:15	Dry			
LON-MW6A	5/28/2014	9:52	Dry			
LON-MW6A	6/12/2014	13:18	Dry			
LON-MW6A	7/9/2014	11:21	Dry			
LON-MW6A	8/14/2014	9:19	Dry			
LON-MW6A	9/25/2014	10:30	Dry			
LON-MW6A	10/22/2014	11:10	Dry			
LON-MW6A	11/12/2014	11:27	Dry			
LON-MW6A	12/17/2014	9:58	Dry			
LON-MW6A	1/8/2015	13:46	Dry			
LON-MW6A	2/19/2015	16:12	Dry			
LON-MW6A	3/12/2015	12:22	Dry			
LON-MW6A	4/21/2015	11:15	Dry			
LON-MW6A	5/13/2015	14:09	Dry			
LON-MW6A	6/11/2015	12:07	Dry			
LON-MW6A	7/21/2015	14:38	Dry			
LON-MW6A	8/25/2015	6:54	Dry			
LON-MW6A	9/15/2015	11:05	Dry			
LON-MW6A	10/21/2015	15:05	Dry			
LON-MW6A	11/17/2015	10:50	Dry			
LON-MW6A	12/17/2015	11:16	Dry			
LON-MW6A	1/12/2016	10:33	Dry			
LON-MW6A	2/23/2016	8:58	Dry			
LON-MW6A	3/18/2016	10:56	Dry			
LON-MW6A	4/19/2016	12:21	Dry			
LON-MW6A	5/4/2016	14:29	Dry			
LON-MW6A	6/22/2016	12:26	Dry			
LON-MW6A	7/20/2016	14:02	Dry			
LON-MW6A	8/10/2016	13:34	Dry			
LON-MW6A	9/29/2016	9:30	Dry			
LON-MW6A	10/27/2016	13:41	Dry			
LON-MW6A	11/10/2016	11:35	Dry			
LON-MW6A	12/22/2016	14:53	Dry			
LON-MW6A	1/5/2017	17:01	Dry			
LON-MW6A	2/1/2017		N/M			
LON-MW6A	3/30/2017	15:33	Dry			
LON-MW6A	4/20/2017	9:39	Dry			
LON-MW6A	5/11/2017	12:00	Dry			
LON-MW6A	6/6/2017	11:34	Dry			
LON-MW6A	7/14/2017	7:56	Dry			
LON-MW6A	8/23/2017	12:00	Dry			
LON-MW6A	9/12/2017	13:55	Dry			
LON-MW6A	10/17/2017	13:32	Dry			
LON-MW6A	11/28/2017	8:13	Dry			
LON-MW6A	12/22/2017	12:30	Dry			
LON-MW6A	1/10/2018	11:51	Dry			
LON-MW6A	2/22/2018	8:52	Dry			
LON-MW6A	3/22/2018	16:10	Dry			
LON-MW6A	4/25/2018	9:20	Dry			
LON-MW6A	5/30/2018	8:09	Dry			
LON-MW6A	6/13/2018	11:50	Dry			
LON-MW6A	7/18/2018	13:04	Dry			
LON-MW6A	8/8/2018	16:07	Dry			
LON-MW6A	9/26/2018	13:09	Dry			
LON-MW6A	10/31/2018	11:59	Dry			
LON-MW6A	11/27/2018	13:40	Dry			
LON-MW6A	12/27/2018	10:13	Dry			
LON-MW6A	1/10/2019	11:17	Dry			
LON-MW6A	2/21/2019	7:27	Dry			
LON-MW6A	3/27/2019	16:42	Dry			
LON-MW6A	4/17/2019	11:25	Dry			
LON-MW6A	5/22/2019	8:13	Dry			
LON-MW6A	6/13/2019	6:52	Dry			
LON-MW6A	7/18/2019	8:03	Dry			
LON-MW6A	8/14/2019	12:37	Dry			
LON-MW6A	9/14/2019	10:52	Dry			
LON-MW6A	10/29/2019	13:21	Dry			
LON-MW6A	11/22/2019	7:05	Dry			
LON-MW6A	12/12/2019	10:50	Dry			
LON-MW6B	1/23/2013	14:28	103.91	119.75		
LON-MW6B	2/13/2013	8:44	105.31	118.35		
LON-MW6B	3/20/2013	15:18	106.05	117.61		
LON-MW6B	4/24/2013	10:45	107.76	115.90		
LON-MW6B	5/15/2013	14:49	108.96	114.70		
LON-MW6B	6/20/2013	16:37	Dry			
LON-MW6B	7/18/2013	10:22	Dry			
LON-MW6B	8/15/2013	9:52	Dry			
LON-MW6B	9/12/2013	12:58	Dry			
LON-MW6B	10/24/2013	12:08	Dry			
LON-MW6B	11/20/2013	8:51	Dry			
LON-MW6B	12/27/2013	12:52	Dry			
LON-MW6B	1/15/2014	11:06	Dry			
LON-MW6B	2/19/2014	13:04	Dry			
LON-MW6B	3/19/2014	15:11	Dry			
LON-MW6B	4/15/2014	14:18	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
LON-MW6B	5/28/2014	9:55	Dry			
LON-MW6B	6/12/2014	13:22	Dry			
LON-MW6B	7/9/2014	11:24	Dry			
LON-MW6B	8/14/2014	9:24	Dry			
LON-MW6B	9/25/2014	10:33	Dry			
LON-MW6B	10/22/2014	11:13	Dry			
LON-MW6B	11/12/2014	11:30	Dry			
LON-MW6B	12/17/2014	10:00	Dry			
LON-MW6B	1/8/2015	13:49	Dry			
LON-MW6B	2/19/2015	16:17	Dry			
LON-MW6B	3/12/2015	12:24	Dry			
LON-MW6B	4/21/2015	11:17	Dry			
LON-MW6B	5/13/2015	14:12	Dry			
LON-MW6B	6/11/2015	12:10	Dry			
LON-MW6B	7/21/2015	14:42	Dry			
LON-MW6B	8/25/2015	6:57	Dry			
LON-MW6B	9/15/2015	11:08	Dry			
LON-MW6B	10/21/2015	15:10	Dry			
LON-MW6B	11/17/2015	10:52	Dry			
LON-MW6B	12/17/2015	11:19	Dry			
LON-MW6B	1/12/2016	10:36	Dry			
LON-MW6B	2/23/2016	9:02	Dry			
LON-MW6B	3/18/2016	10:58	Dry			
LON-MW6B	4/19/2016	12:24	Dry			
LON-MW6B	5/4/2016	14:31	Dry			
LON-MW6B	6/22/2016	12:30	Dry			
LON-MW6B	7/20/2016	14:05	Dry			
LON-MW6B	8/10/2016	13:36	Dry			
LON-MW6B	9/29/2016	9:33	Dry			
LON-MW6B	10/27/2016	13:44	Dry			
LON-MW6B	11/10/2016	11:36	Dry			
LON-MW6B	12/22/2016	14:55	Dry			
LON-MW6B	1/5/2017	17:00	Dry			
LON-MW6B	2/1/2017		N/M			
LON-MW6B	3/30/2017	15:35	Dry			
LON-MW6B	4/20/2017	9:29	Dry			
LON-MW6B	5/11/2017	12:04	Dry			
LON-MW6B	6/6/2017	11:30	Dry			
LON-MW6B	7/14/2017	7:56	Dry			
LON-MW6B	8/23/2017	12:04	Dry			
LON-MW6B	9/12/2017	13:57	Dry			
LON-MW6B	10/17/2017	13:34	Dry			
LON-MW6B	11/28/2017	8:15	Dry			
LON-MW6B	12/22/2017	12:32	Dry			
LON-MW6B	1/10/2018	11:53	Dry			
LON-MW6B	2/22/2018	8:54	Dry			
LON-MW6B	3/22/2018	16:14	Dry			
LON-MW6B	4/25/2018	9:21	Dry			
LON-MW6B	5/30/2018	8:12	Dry			
LON-MW6B	6/13/2018	11:52	Dry			
LON-MW6B	7/18/2018	13:05	Dry			
LON-MW6B	8/8/2018	16:08	Dry			
LON-MW6B	9/26/2018	13:12	Dry			
LON-MW6B	10/31/2018	12:01	Dry			
LON-MW6B	11/27/2018	13:41	Dry			
LON-MW6B	12/27/2018	10:14	Dry			
LON-MW6B	1/10/2019	11:19	Dry			
LON-MW6B	2/21/2019	7:28	Dry			
LON-MW6B	3/27/2019	16:44	Dry			
LON-MW6B	4/17/2019	11:28	Dry			
LON-MW6B	5/22/2019	8:14	Dry			
LON-MW6B	6/13/2019	6:50	Dry			
LON-MW6B	7/18/2019	8:05	Dry			
LON-MW6B	8/14/2019	12:39	Dry			
LON-MW6B	9/14/2019	10:54	Dry			
LON-MW6B	10/29/2019	13:22	Dry			
LON-MW6B	11/22/2019	7:02	Dry			
LON-MW6B	12/12/2019	10:53	Dry			
LON-MW6C	1/23/2013	14:30	103.71	119.77		
LON-MW6C	2/13/2013	8:47	105.38	118.10		
LON-MW6C	3/20/2013	15:20	105.88	117.60		
LON-MW6C	4/24/2013	10:48	107.57	115.91		
LON-MW6C	5/15/2013	14:51	108.55	114.93		
LON-MW6C	6/20/2013	16:40	110.14	113.34		
LON-MW6C	7/18/2013	10:25	111.70	111.78		
LON-MW6C	8/15/2013	9:54	113.47	110.01		
LON-MW6C	9/12/2013	13:03	114.63	108.85		
LON-MW6C	10/24/2013	12:11	114.99	108.49		
LON-MW6C	11/20/2013	8:54	114.35	109.13		
LON-MW6C	12/27/2013	12:54	113.62	109.86		
LON-MW6C	1/15/2014	11:09	114.07	109.41		
LON-MW6C	2/19/2014	13:07	114.64	108.84		
LON-MW6C	3/19/2014	15:16	114.17	109.31		
LON-MW6C	4/15/2014	14:22	115.46	108.02		
LON-MW6C	5/28/2014	9:58	116.94	106.54		
LON-MW6C	6/12/2014	13:25	117.59	105.89		
LON-MW6C	7/9/2014	11:27	118.78	104.70		
LON-MW6C	8/14/2014	9:27	120.05	103.43		
LON-MW6C	9/25/2014	10:36	Dry			
LON-MW6C	10/22/2014	11:16	115.86	107.62		
LON-MW6C	11/12/2014	11:33	Dry			
LON-MW6C	12/17/2014	10:02	Dry			
LON-MW6C	1/8/2015	13:51	119.19	104.29		
LON-MW6C	2/19/2015	16:20	119.06	104.42		
LON-MW6C	3/12/2015	12:27	119.80	103.68		
LON-MW6C	4/21/2015	11:20	120.92	102.56		
LON-MW6C	5/13/2015	14:15	121.33	102.15		
LON-MW6C	6/11/2015	12:15	122.19	101.29		
LON-MW6C	7/21/2015	14:44	123.34	100.14		
LON-MW6C	8/25/2015	7:00	124.35	99.13		
LON-MW6C	9/15/2015	11:12	124.79	98.69		
LON-MW6C	10/21/2015	15:15	125.19	98.29		
LON-MW6C	11/17/2015	10:55	125.18	98.30		
LON-MW6C	12/17/2015	11:23	125.70	97.78		
LON-MW6C	1/12/2016	10:39	124.98	98.50		
LON-MW6C	2/23/2016	9:04	123.70	99.78		
LON-MW6C	3/18/2016	11:00	123.41	100.07		
LON-MW6C	4/19/2016	12:27	123.68	99.80		
LON-MW6C	5/4/2016	14:33	124.80	98.68		
LON-MW6C	6/22/2016	12:34	126.00	97.48		
LON-MW6C	7/20/2016	14:08	126.57	96.91		
LON-MW6C	8/10/2016	13:39	128.22	95.26		
LON-MW6C	9/29/2016	9:38	123.30	100.18		
LON-MW6C	10/27/2016	13:47	128.73	94.75		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
LON-MW6C	11/10/2016	11:37	129.10	94.38		
LON-MW6C	12/22/2016	14:58	128.84	94.64		
LON-MW6C	1/5/2017	17:05	128.75	94.73		
LON-MW6C	2/1/2017		N/M			
LON-MW6C	3/30/2017	15:37	127.72	95.76		
LON-MW6C	4/20/2017	9:33	127.35	96.13		
LON-MW6C	5/11/2017	12:09	129.02	94.46		
LON-MW6C	6/6/2017	11:32	127.10	96.38		
LON-MW6C	7/14/2017	7:58	127.00	96.48		
LON-MW6C	8/23/2017	12:08	129.66	93.82		
LON-MW6C	9/12/2017	14:00	127.25	96.23		
LON-MW6C	10/17/2017	13:36	126.70	96.78		
LON-MW6C	11/28/2017	8:17	127.69	95.79		
LON-MW6C	12/22/2017	12:35	Dry			
LON-MW6C	1/10/2018	11:55	125.36	98.12		
LON-MW6C	2/22/2018	8:56	124.50	98.98		
LON-MW6C	3/22/2018	16:18	123.92	99.56		
LON-MW6C	4/25/2018	9:22	123.60	99.88		
LON-MW6C	5/30/2018	8:14	123.80	99.68		
LON-MW6C	6/13/2018	11:54	125.90	97.58		
LON-MW6C	7/18/2018	13:06	124.72	98.76		
LON-MW6C	8/8/2018	16:09	125.26	98.22		
LON-MW6C	9/26/2018	13:15	126.03	97.45		
LON-MW6C	10/31/2018	12:03	126.10	97.38		
LON-MW6C	11/27/2018	13:42	Dry			
LON-MW6C	12/27/2018	10:15	123.26	100.22		
LON-MW6C	1/10/2019	11:18	125.02	98.46		
LON-MW6C	2/21/2019	7:29	124.00	99.48		
LON-MW6C	3/27/2019	16:45	119.00	104.48		
LON-MW6C	4/17/2019	11:30	123.47	100.01		
LON-MW6C	5/22/2019	8:15	123.79	99.69		
LON-MW6C	6/13/2019	6:51	123.70	99.78		
LON-MW6C	7/18/2019	8:08	123.80	99.68		
LON-MW6C	8/14/2019	12:42	125.79	97.69		
LON-MW6C	9/14/2019	10:56	124.14	99.34		
LON-MW6C	10/29/2019	13:23	121.55	101.93		
LON-MW6C	11/22/2019	7:04	121.81	101.67		
LON-MW6C	12/12/2019	10:55	122.91	100.57		
LON-MW7A	1/23/2013	11:00	Dry			
LON-MW7A	2/13/2013	9:37	Dry			
LON-MW7A	3/20/2013	13:35	Dry			
LON-MW7A	4/24/2013	10:05	Dry			
LON-MW7A	5/15/2013	14:50	Dry			
LON-MW7A	6/20/2013	15:02	Dry			
LON-MW7A	7/18/2013	9:40	Dry			
LON-MW7A	8/15/2013	10:00	Dry			
LON-MW7A	9/12/2013	11:40	Dry			
LON-MW7A	10/24/2013	11:14	Dry			
LON-MW7A	11/20/2013	8:00	49.27	171.26		
LON-MW7A	12/27/2013	12:15	49.50	171.03		
LON-MW7A	1/15/2014	10:21	Dry			
LON-MW7A	2/19/2014	12:17	Dry			
LON-MW7A	3/19/2014	13:58	Dry			
LON-MW7A	4/15/2014	13:16	Dry			
LON-MW7A	5/28/2014	9:11	Dry			
LON-MW7A	6/12/2014	12:25	Dry			
LON-MW7A	7/9/2014	10:50	51.71	168.82		
LON-MW7A	8/14/2014	8:13	Dry			
LON-MW7A	9/25/2014	9:43	Dry			
LON-MW7A	10/22/2014	11:21	Dry			
LON-MW7A	11/12/2014	10:52	Dry			
LON-MW7A	12/17/2014	9:26	Dry			
LON-MW7A	1/8/2015	13:09	Dry			
LON-MW7A	2/19/2015	15:24	Dry			
LON-MW7A	3/12/2015	11:42	Dry			
LON-MW7A	4/21/2015	10:32	Dry			
LON-MW7A	5/13/2015	13:17	Dry			
LON-MW7A	6/11/2015	11:43	Dry			
LON-MW7A	7/21/2015	14:02	Dry			
LON-MW7A	8/25/2015	7:42	Dry			
LON-MW7A	9/15/2015	10:20	Dry			
LON-MW7A	10/21/2015	14:25	48.60	171.93		
LON-MW7A	11/17/2015	10:29	47.14	173.39		
LON-MW7A	12/17/2015	10:38	46.83	173.70		
LON-MW7A	1/12/2016	9:53	46.10	174.43		
LON-MW7A	2/23/2016	9:36	47.71	172.82		
LON-MW7A	3/18/2016	10:26	48.47	172.06		
LON-MW7A	4/19/2016	11:32	49.03	171.50		
LON-MW7A	5/4/2016	13:52	Dry			
LON-MW7A	6/22/2016	11:15	47.24	173.29		
LON-MW7A	7/20/2016	13:14	46.60	173.93		
LON-MW7A	8/10/2016	12:59	46.67	173.86		
LON-MW7A	9/29/2016	8:20	Dry			
LON-MW7A	10/27/2016	12:55	45.47	175.06		
LON-MW7A	11/10/2016	11:17	46.59	173.94		
LON-MW7A	12/22/2016	14:12	47.31	173.22		
LON-MW7A	1/5/2017	16:27	47.77	172.76		
LON-MW7A	2/1/2017		N/M			
LON-MW7A	3/30/2017	16:06	49.42	171.11		
LON-MW7A	4/20/2017	8:40	50.01	170.52		
LON-MW7A	5/11/2017	11:15	49.95	170.58		
LON-MW7A	6/6/2017	11:10	Dry			
LON-MW7A	7/14/2017	7:17	Dry			
LON-MW7A	8/23/2017	13:28	Dry			
LON-MW7A	9/12/2017	13:04	Dry			
LON-MW7A	10/17/2017	12:58	Dry			
LON-MW7A	11/28/2017	7:44	Dry			
LON-MW7A	12/22/2017	11:52	Dry			
LON-MW7A	1/10/2018	11:16	Dry			
LON-MW7A	2/22/2018	8:25	Dry			
LON-MW7A	3/22/2018	16:35	Dry			
LON-MW7A	4/25/2018	8:44	Dry			
LON-MW7A	5/30/2018	7:32	Dry			
LON-MW7A	6/13/2018	11:06	Dry			
LON-MW7A	7/18/2018	12:30	Dry			
LON-MW7A	8/8/2018	15:32	Dry			
LON-MW7A	9/26/2018	13:36	Dry			
LON-MW7A	10/31/2018	11:22	Dry			
LON-MW7A	11/27/2018	13:10	Dry			
LON-MW7A	12/27/2018	9:40	Dry			
LON-MW7A	1/10/2019	10:15	Dry			
LON-MW7A	2/21/2019	8:25	Dry			
LON-MW7A	3/27/2019	16:54	Dry			
LON-MW7A	4/17/2019	10:38	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
LON-MW7A	5/22/2019	7:44	Dry			
LON-MW7A	6/13/2019	7:24	Dry			
LON-MW7A	7/18/2019	7:33	Dry			
LON-MW7A	8/14/2019	11:49	Dry			
LON-MW7A	9/14/2019	11:12	Dry			
LON-MW7A	10/29/2019	13:27	Dry			
LON-MW7A	11/22/2019	7:30	Dry			
LON-MW7A	12/12/2019	10:17	42.29	178.24		
LON-MW7B	1/23/2013	11:02	Dry			
LON-MW7B	2/13/2013	9:40	Dry			
LON-MW7B	3/20/2013	13:38	Dry			
LON-MW7B	4/24/2013	10:08	Dry			
LON-MW7B	5/15/2013	14:52	Dry			
LON-MW7B	6/20/2013	15:08	Dry			
LON-MW7B	7/18/2013	9:43	Dry			
LON-MW7B	8/15/2013	10:05	Dry			
LON-MW7B	9/12/2013	11:43	Dry			
LON-MW7B	10/24/2013	11:17	Dry			
LON-MW7B	11/20/2013	8:04	Dry			
LON-MW7B	12/27/2013	12:09	78.48	142.22		
LON-MW7B	1/15/2014	10:25	Dry			
LON-MW7B	2/19/2014	12:20	Dry			
LON-MW7B	3/19/2014	14:06	Dry			
LON-MW7B	4/15/2014	13:21	Dry			
LON-MW7B	5/28/2014	9:13	Dry			
LON-MW7B	6/12/2014	12:27	Dry			
LON-MW7B	7/9/2014	10:52	Dry			
LON-MW7B	8/14/2014	8:18	Dry			
LON-MW7B	9/25/2014	9:46	Dry			
LON-MW7B	10/22/2014	11:24	Dry			
LON-MW7B	11/12/2014	10:54	Dry			
LON-MW7B	12/17/2014	9:28	Dry			
LON-MW7B	1/8/2015	13:11	Dry			
LON-MW7B	2/19/2015	15:28	Dry			
LON-MW7B	3/12/2015	11:45	Dry			
LON-MW7B	4/21/2015	10:35	Dry			
LON-MW7B	5/13/2015	13:20	Dry			
LON-MW7B	6/11/2015	11:43	Dry			
LON-MW7B	7/21/2015	14:05	Dry			
LON-MW7B	8/25/2015	7:45	Dry			
LON-MW7B	9/15/2015	10:22	Dry			
LON-MW7B	10/21/2015	14:30	78.38	142.32		
LON-MW7B	11/17/2015	10:31	76.41	144.29		
LON-MW7B	12/17/2015	10:41	76.69	144.01		
LON-MW7B	1/12/2016	9:56	Dry			
LON-MW7B	2/23/2016	9:39	Dry			
LON-MW7B	3/18/2016	10:28	Dry			
LON-MW7B	4/19/2016	11:35	Dry			
LON-MW7B	5/4/2016	13:54	Dry			
LON-MW7B	6/22/2016	11:21	Dry			
LON-MW7B	7/20/2016	13:18	Dry			
LON-MW7B	8/10/2016	13:01	Dry			
LON-MW7B	9/29/2016	8:23	Dry			
LON-MW7B	10/27/2016	12:57	Dry			
LON-MW7B	11/10/2016	11:18	Dry			
LON-MW7B	12/22/2016	14:15	Dry			
LON-MW7B	1/5/2017	16:31	Dry			
LON-MW7B	2/1/2017		N/M			
LON-MW7B	3/30/2017	16:08	Dry			
LON-MW7B	4/20/2017	8:45	Dry			
LON-MW7B	5/11/2017	11:18	Dry			
LON-MW7B	6/6/2017	11:12	Dry			
LON-MW7B	7/14/2017	7:17	Dry			
LON-MW7B	8/23/2017	13:32	Dry			
LON-MW7B	9/12/2017	13:06	Dry			
LON-MW7B	10/17/2017	13:00	Dry			
LON-MW7B	11/28/2017	7:46	Dry			
LON-MW7B	12/22/2017	11:54	Dry			
LON-MW7B	1/10/2018	11:18	Dry			
LON-MW7B	2/22/2018	8:26	Dry			
LON-MW7B	3/22/2018	16:40	Dry			
LON-MW7B	4/25/2018	8:45	Dry			
LON-MW7B	5/30/2018	7:34	Dry			
LON-MW7B	6/13/2018	11:08	Dry			
LON-MW7B	7/18/2018	12:26	Dry			
LON-MW7B	8/8/2018	15:30	Dry			
LON-MW7B	9/26/2018	13:36	Dry			
LON-MW7B	10/31/2018	11:24	Dry			
LON-MW7B	11/27/2018	13:11	Dry			
LON-MW7B	12/27/2018	9:41	Dry			
LON-MW7B	1/10/2019	10:16	Dry			
LON-MW7B	2/21/2019	8:26	Dry			
LON-MW7B	3/27/2019	16:53	Dry			
LON-MW7B	4/17/2019	10:41	Dry			
LON-MW7B	5/22/2019	7:45	Dry			
LON-MW7B	6/13/2019	7:18	Dry			
LON-MW7B	7/18/2019	7:27	Dry			
LON-MW7B	8/14/2019	11:53	Dry			
LON-MW7B	9/14/2019	11:15	Dry			
LON-MW7B	10/29/2019	13:28	Dry			
LON-MW7B	11/22/2019	7:35	Dry			
LON-MW7B	12/12/2019	10:20	77.56	143.14		
LON-MW7C	1/23/2013	11:04	95.41	125.12		
LON-MW7C	2/13/2013	9:44	96.86	123.67		
LON-MW7C	3/20/2013	13:41	96.43	124.10		
LON-MW7C	4/24/2013	10:11	90.40	130.13		
LON-MW7C	5/15/2013	14:52	Dry			
LON-MW7C	6/20/2013	15:12	Dry			
LON-MW7C	7/18/2013	9:45	Dry			
LON-MW7C	8/15/2013	10:08	Dry			
LON-MW7C	9/12/2013	11:47	Dry			
LON-MW7C	10/24/2013	11:20	Dry			
LON-MW7C	11/20/2013	8:08	Dry			
LON-MW7C	12/27/2013	12:11	Dry			
LON-MW7C	1/15/2014	10:27	Dry			
LON-MW7C	2/19/2014	12:23	Dry			
LON-MW7C	3/19/2014	14:10	Dry			
LON-MW7C	4/15/2014	13:24	Dry			
LON-MW7C	5/28/2014	9:15	Dry			
LON-MW7C	6/12/2014	12:30	Dry			
LON-MW7C	7/9/2014	10:54	Dry			
LON-MW7C	8/14/2014	8:20	Dry			
LON-MW7C	9/25/2014	9:49	Dry			
LON-MW7C	10/22/2014	11:27	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
LON-MW7C	11/12/2014	10:56	Dry			
LON-MW7C	12/17/2014	9:30	Dry			
LON-MW7C	1/8/2015	13:14	Dry			
LON-MW7C	2/19/2015	15:30	Dry			
LON-MW7C	3/12/2015	11:47	Dry			
LON-MW7C	4/21/2015	10:37	Dry			
LON-MW7C	5/13/2015	13:24	Dry			
LON-MW7C	6/11/2015	11:46	Dry			
LON-MW7C	7/21/2015	14:08	Dry			
LON-MW7C	8/25/2015	7:48	Dry			
LON-MW7C	9/15/2015	10:25	Dry			
LON-MW7C	10/21/2015	14:35	Dry			
LON-MW7C	11/17/2015	10:33	Dry			
LON-MW7C	12/17/2015	10:43	Dry			
LON-MW7C	1/12/2016	9:59	Dry			
LON-MW7C	2/23/2016	9:41	Dry			
LON-MW7C	3/18/2016	10:30	Dry			
LON-MW7C	4/19/2016	11:38	Dry			
LON-MW7C	5/4/2016	13:56	95.22	125.31		
LON-MW7C	6/22/2016	11:26	94.27	126.26		
LON-MW7C	7/20/2016	13:20	94.13	126.40		
LON-MW7C	8/10/2016	13:03	Dry			
LON-MW7C	9/29/2016	8:26	Dry			
LON-MW7C	10/27/2016	13:00	94.10	126.43		
LON-MW7C	11/10/2016	11:19	94.56	125.97		
LON-MW7C	12/22/2016	14:17	93.43	127.10		
LON-MW7C	1/5/2017	16:36	Dry			
LON-MW7C	2/1/2017		N/M			
LON-MW7C	3/30/2017	16:12	93.29	127.24		
LON-MW7C	4/20/2017	8:48	93.81	126.72		
LON-MW7C	5/11/2017	11:20	93.59	126.94		
LON-MW7C	6/6/2017	11:14	Dry			
LON-MW7C	7/14/2017	7:19	93.71	126.82		
LON-MW7C	8/23/2017	13:36	92.82	127.71		
LON-MW7C	9/12/2017	13:08	92.57	127.96		
LON-MW7C	10/17/2017	13:02	91.74	128.79		
LON-MW7C	11/28/2017	7:48	92.64	127.89		
LON-MW7C	12/22/2017	11:59	92.10	128.43		
LON-MW7C	1/10/2018	11:21	93.70	126.83		
LON-MW7C	2/22/2018	8:28	94.28	126.25		
LON-MW7C	3/22/2018	16:45	94.33	126.20		
LON-MW7C	4/25/2018	8:46	94.80	125.73		
LON-MW7C	5/30/2018	7:36	94.65	125.88		
LON-MW7C	6/13/2018	11:10	94.16	126.37		
LON-MW7C	7/18/2018	12:27	94.72	125.81		
LON-MW7C	8/8/2018	15:29	94.86	125.67		
LON-MW7C	9/26/2018	13:42	94.88	125.65		
LON-MW7C	10/31/2018	11:26	94.95	125.58		
LON-MW7C	11/27/2018	13:12	Dry			
LON-MW7C	12/27/2018	9:42	95.10	125.43		
LON-MW7C	1/10/2019	10:17	Dry			
LON-MW7C	2/21/2019	8:27	Dry			
LON-MW7C	3/27/2019	16:51	Dry			
LON-MW7C	4/17/2019	10:44	95.19	125.34		
LON-MW7C	5/22/2019	7:46	95.75	124.78		
LON-MW7C	6/13/2019	7:19	Dry			
LON-MW7C	7/18/2019	7:29	Dry			
LON-MW7C	8/14/2019	11:55	Dry			
LON-MW7C	9/14/2019	11:17	Dry			
LON-MW7C	10/29/2019	13:29	Dry			
LON-MW7C	11/22/2019	7:34	Dry			
LON-MW7C	12/12/2019	10:22	86.69	133.84		
LON-MW7D	1/23/2013	11:07	95.71	124.58		
LON-MW7D	2/13/2013	9:48	96.81	123.48		
LON-MW7D	3/20/2013	13:44	97.01	123.28		
LON-MW7D	4/24/2013	10:14	97.61	122.68		
LON-MW7D	5/15/2013	14:54	98.18	122.11		
LON-MW7D	6/20/2013	15:15	99.45	120.84		
LON-MW7D	7/18/2013	9:47	100.80	119.49		
LON-MW7D	8/15/2013	10:10	101.97	118.32		
LON-MW7D	9/12/2013	11:51	102.65	117.64		
LON-MW7D	10/24/2013	11:23	102.99	117.30		
LON-MW7D	11/20/2013	8:11	103.17	117.12		
LON-MW7D	12/27/2013	12:13	102.58	117.71		
LON-MW7D	1/15/2014	10:30	103.22	117.07		
LON-MW7D	2/19/2014	12:26	103.54	116.75		
LON-MW7D	3/19/2014	14:15	103.85	116.44		
LON-MW7D	4/15/2014	13:28	104.62	115.67		
LON-MW7D	5/28/2014	9:18	106.11	114.18		
LON-MW7D	6/12/2014	12:32	106.72	113.57		
LON-MW7D	7/9/2014	10:56	107.77	112.52		
LON-MW7D	8/14/2014	8:23	108.90	111.39		
LON-MW7D	9/25/2014	9:52	109.95	110.34		
LON-MW7D	10/22/2014	11:30	104.80	115.49		
LON-MW7D	11/12/2014	10:58	110.12	110.17		
LON-MW7D	12/17/2014	9:32	110.12	110.17		
LON-MW7D	1/8/2015	13:17	109.73	110.56		
LON-MW7D	2/19/2015	15:33	110.14	110.15		
LON-MW7D	3/12/2015	11:49	110.80	109.49		
LON-MW7D	4/21/2015	10:40	111.57	108.72		
LON-MW7D	5/13/2015	13:28	111.90	108.39		
LON-MW7D	6/11/2015	11:48	112.81	107.48		
LON-MW7D	7/21/2015	14:12	114.09	106.20		
LON-MW7D	8/25/2015	7:51	115.12	105.17		
LON-MW7D	9/15/2015	10:28	116.25	104.04		
LON-MW7D	10/21/2015	14:40	116.27	104.02		
LON-MW7D	11/17/2015	10:35	116.45	103.84		
LON-MW7D	12/17/2015	10:46	116.29	104.00		
LON-MW7D	1/12/2016	10:02	116.05	104.24		
LON-MW7D	2/23/2016	9:43	115.73	104.56		
LON-MW7D	3/18/2016	10:32	116.71	103.58		
LON-MW7D	4/19/2016	11:41	117.55	102.74		
LON-MW7D	5/4/2016	13:58	117.21	103.08		
LON-MW7D	6/22/2016	11:30	118.64	101.65		
LON-MW7D	7/20/2016	13:23	119.18	101.11		
LON-MW7D	8/10/2016	13:06	119.70	100.59		
LON-MW7D	9/29/2016	8:30	114.02	106.27		
LON-MW7D	10/27/2016	13:03	121.01	99.28		
LON-MW7D	11/10/2016	11:20	121.24	99.05		
LON-MW7D	12/22/2016	14:20	120.81	99.48		
LON-MW7D	1/5/2017	16:41	Dry			
LON-MW7D	2/1/2017		N/M			
LON-MW7D	3/30/2017	16:16	120.13	100.16		
LON-MW7D	4/20/2017	8:52	120.02	100.27		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
LON-MW7D	5/11/2017	11:22	120.06	100.23		
LON-MW7D	6/6/2017	11:17	Dry			
LON-MW7D	7/14/2017	7:22	118.96	101.33		
LON-MW7D	8/23/2017	13:40	117.90	102.39		
LON-MW7D	9/12/2017	13:10	117.33	102.96		
LON-MW7D	10/17/2017	13:04	115.98	104.31		
LON-MW7D	11/28/2017	7:50	116.32	103.97		
LON-MW7D	12/22/2017	11:56	117.16	103.13		
LON-MW7D	1/10/2018	11:23	112.79	107.50		
LON-MW7D	2/22/2018	8:29	112.00	108.29		
LON-MW7D	3/22/2018	16:50	111.62	108.67		
LON-MW7D	4/25/2018	8:47	111.61	108.68		
LON-MW7D	5/30/2018	7:38	112.08	108.21		
LON-MW7D	6/13/2018	11:12	113.10	107.19		
LON-MW7D	7/18/2018	12:29	113.51	106.78		
LON-MW7D	8/8/2018	15:28	114.30	105.99		
LON-MW7D	9/26/2018	13:45	114.96	105.33		
LON-MW7D	10/31/2018	11:28	114.91	105.38		
LON-MW7D	11/27/2018	13:13	Dry			
LON-MW7D	12/27/2018	9:43	114.00	106.29		
LON-MW7D	1/10/2019	10:18	113.81	106.48		
LON-MW7D	2/21/2019	8:28	112.76	107.53		
LON-MW7D	3/27/2019	16:52	110.35	109.94		
LON-MW7D	4/17/2019	10:47	112.90	107.39		
LON-MW7D	5/22/2019	7:47	113.40	106.89		
LON-MW7D	6/13/2019	7:21	113.34	106.95		
LON-MW7D	7/18/2019	7:31	113.28	107.01		
LON-MW7D	8/14/2019	11:57	Dry			
LON-MW7D	9/14/2019	11:19	117.10	103.19		
LON-MW7D	10/29/2019	13:30	110.70	109.59		
LON-MW7D	11/22/2019	7:32	112.97	107.32		
LON-MW7D	12/12/2019	10:24	110.39	109.90		
ADO-MW1s	1/22/2013	11:40	77.01	176.93	<|0.05|	0
ADO-MW1s	2/12/2013	11:21	78.01	175.93	<|0.05|	0
ADO-MW1s	3/19/2013	10:05	78.35	175.59	<|0.05|	0
ADO-MW1s	4/23/2013	9:50	80.69	173.25	0.06	0.00
ADO-MW1s	5/14/2013	11:10	80.87	173.07	<|0.05|	0
ADO-MW1s	6/19/2013	10:24	82.23	171.71	<|0.05|	0
ADO-MW1s	7/17/2013	9:55	84.77	169.17	<|0.05|	0
ADO-MW1s	8/16/2013	11:15	87.64	166.30	<|0.05|	0
ADO-MW1s	9/13/2013	8:35	88.33	165.61	<|0.05|	0
ADO-MW1s	10/23/2013	14:02	88.87	165.07	<|0.05|	0
ADO-MW1s	11/19/2013	7:45	89.65	164.29	<|0.05|	0
ADO-MW1s	12/26/2013	10:18	88.51	165.43	<|0.05|	0
ADO-MW1s	1/16/2014	11:09	88.77	165.17	0.10	0.01
ADO-MW1s	2/21/2014	6:28	88.15	165.79	0.09	0.01
ADO-MW1s	3/20/2014	13:15	87.76	166.18	0.05	0.00
ADO-MW1s	4/16/2014	12:36	89.09	164.85	<|0.05|	0
ADO-MW1s	5/22/2014	8:00	90.60	163.34	0.05	0.00
ADO-MW1s	6/13/2014	11:16	91.34	162.60	0.22	0.01
ADO-MW1s	7/10/2014	10:06	92.62	161.32	<|0.05|	0
ADO-MW1s	8/22/2014	8:12	Dry			
ADO-MW1s	9/26/2014	8:05	Dry			
ADO-MW1s	10/23/2014	9:05	Dry			
ADO-MW1s	11/14/2014	10:08	Dry			
ADO-MW1s	12/18/2014	9:16	Dry			
ADO-MW1s	1/12/2015	10:01	Dry			
ADO-MW1s	2/25/2015	11:20	Dry			
ADO-MW1s	3/13/2015	10:36	Dry			
ADO-MW1s	4/22/2015	11:24	Dry			
ADO-MW1s	5/18/2015	12:04	Dry			
ADO-MW1s	6/12/2015	10:57	Dry			
ADO-MW1s	7/22/2015	12:25	Dry			
ADO-MW1s	8/21/2015		N/M			
ADO-MW1s	9/16/2015	11:29	Dry			
ADO-MW1s	10/22/2015	12:45	Dry			
ADO-MW1s	11/19/2015	12:30	Dry			
ADO-MW1s	12/18/2015	10:15	Dry			
ADO-MW1s	1/13/2016	10:56	Dry			
ADO-MW1s	2/25/2016		N/M			
ADO-MW1s	3/18/2016	9:56	Dry			
ADO-MW1s	4/20/2016	11:35	Dry			
ADO-MW1s	5/9/2016	11:00	N/M			
ADO-MW1s	6/24/2016	8:45	N/M			
ADO-MW1s	7/21/2016		N/M			
ADO-MW1s	8/23/2016		N/M			
ADO-MW1s	9/26/2016		N/M			
ADO-MW1s	10/28/2016	10:54	Dry			
ADO-MW1s	11/11/2016	9:15	Dry			
ADO-MW1s	12/23/2016	12:45	Dry			
ADO-MW1s	1/4/2017	10:28	Dry			
ADO-MW1s	2/1/2017		N/M			
ADO-MW1s	4/6/2017	9:57	Dry			
ADO-MW1s	4/17/2017	7:01	Dry			
ADO-MW1s	5/11/2017	11:25	Dry			
ADO-MW1s	6/7/2017	12:50	Dry			
ADO-MW1s	7/20/2017	9:31	Dry			
ADO-MW1s	8/24/2017	6:15	Dry			
ADO-MW1s	9/13/2017	8:12	Dry			
ADO-MW1s	10/18/2017	11:50	Dry			
ADO-MW1s	11/29/2017	7:43	Dry			
ADO-MW1s	12/23/2017	14:37	Dry			
ADO-MW1s	1/11/2018	11:33	Dry			
ADO-MW1s	2/22/2018	12:20	Dry			
ADO-MW1s	3/21/2018	17:05	Dry			
ADO-MW1s	4/26/2018	8:00	Dry			
ADO-MW1s	5/18/2018	7:29	Dry			
ADO-MW1s	6/14/2018	11:00	Dry			
ADO-MW1s	7/19/2018	15:40	Dry			
ADO-MW1s	8/9/2018	10:00	Dry			
ADO-MW1s	9/27/2018		N/M			
ADO-MW1s	10/31/2018	14:13	Dry			
ADO-MW1s	11/15/2018		N/M			
ADO-MW1s	12/21/2018	9:15	Dry			
ADO-MW1s	1/11/2019	9:22	Dry			
ADO-MW1s	2/15/2019	10:47	Dry			
ADO-MW1s	3/31/2019	10:20	Dry			
ADO-MW1s	4/19/2019	10:32	Dry			
ADO-MW1s	5/23/2019	7:46	Dry			
ADO-MW1s	6/13/2019	12:05	Dry			
ADO-MW1s	7/18/2019	14:27	Dry			
ADO-MW1s	8/15/2019	12:33	Dry			
ADO-MW1s	9/7/2019	13:23	Dry			
ADO-MW1s	10/30/2019	7:55	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ADO-MW1s	11/22/2019	10:41	Dry			
ADO-MW1s	12/13/2019	8:39	Dry			
ADO-MW1d	1/22/2013	11:45	77.00	176.91		
ADO-MW1d	2/12/2013	11:26	78.02	175.89		
ADO-MW1d	3/19/2013	10:10	78.29	175.62		
ADO-MW1d	4/23/2013	9:55	80.72	173.19		
ADO-MW1d	5/14/2013	11:12	80.84	173.07		
ADO-MW1d	6/19/2013	10:27	82.22	171.69		
ADO-MW1d	7/17/2013	9:59	84.77	169.14		
ADO-MW1d	8/16/2013	11:58	87.65	166.26		
ADO-MW1d	9/13/2013	8:38	88.33	165.58		
ADO-MW1d	10/23/2013	14:05	88.85	165.06		
ADO-MW1d	11/19/2013	7:49	89.65	164.26		
ADO-MW1d	12/26/2013	10:12	88.46	165.45		
ADO-MW1d	1/16/2014	11:12	88.84	165.07		
ADO-MW1d	2/21/2014	6:31	88.21	165.70		
ADO-MW1d	3/20/2014	13:18	87.78	166.13		
ADO-MW1d	4/16/2014	12:39	89.09	164.82		
ADO-MW1d	5/22/2014	8:03	90.62	163.29		
ADO-MW1d	6/13/2014	11:19	91.53	162.38		
ADO-MW1d	7/10/2014	10:10	92.61	161.30		
ADO-MW1d	8/22/2014	8:15	94.97	158.94		
ADO-MW1d	9/26/2014	8:08	96.12	157.79		
ADO-MW1d	10/23/2014	9:08	96.08	157.83		
ADO-MW1d	11/14/2014	10:12	96.54	157.37		
ADO-MW1d	12/18/2014	9:18	96.03	157.88		
ADO-MW1d	1/12/2015	10:04	95.32	158.59		
ADO-MW1d	2/25/2015	11:23	84.60	169.31		
ADO-MW1d	3/13/2015	10:39	94.95	158.96		
ADO-MW1d	4/22/2015	11:21	96.50	157.41		
ADO-MW1d	5/18/2015	12:07	97.05	156.86		
ADO-MW1d	6/12/2015	11:00	98.06	155.85		
ADO-MW1d	7/22/2015	12:28	99.03	154.88		
ADO-MW1d	8/21/2015		N/M			
ADO-MW1d	9/16/2015	11:32	103.16	150.75		
ADO-MW1d	10/22/2015	12:50	103.72	150.19		
ADO-MW1d	11/19/2015	12:35	103.41	150.50		
ADO-MW1d	12/18/2015	10:18	103.18	150.73		
ADO-MW1d	1/13/2016	10:59	102.55	151.36		
ADO-MW1d	2/25/2016		N/M			
ADO-MW1d	3/18/2016	9:59	100.38	153.53		
ADO-MW1d	4/20/2016	11:38	100.66	153.25		
ADO-MW1d	5/9/2016	11:00	N/M			
ADO-MW1d	6/24/2016		N/M			
ADO-MW1d	7/21/2016		N/M			
ADO-MW1d	8/23/2016		N/M			
ADO-MW1d	9/26/2016		N/M			
ADO-MW1d	10/28/2016	11:01	101.45	152.46		
ADO-MW1d	11/11/2016	9:18	101.33	152.58		
ADO-MW1d	12/23/2016	12:47	100.97	152.94		
ADO-MW1d	1/4/2017	10:32	Dry			
ADO-MW1d	2/1/2017		N/M			
ADO-MW1d	4/6/2017	9:59	97.71	156.20		
ADO-MW1d	4/17/2017	7:05	97.38	156.53		
ADO-MW1d	5/11/2017	11:30	97.30	156.61		
ADO-MW1d	6/7/2017	12:52	Dry			
ADO-MW1d	7/20/2017	9:33	Dry			
ADO-MW1d	8/24/2017	6:18	97.75	156.16		
ADO-MW1d	9/13/2017	8:15	97.94	155.97		
ADO-MW1d	10/18/2017	11:53	97.40	156.51		
ADO-MW1d	11/29/2017	7:46	96.49	157.42		
ADO-MW1d	12/23/2017	14:38	95.13	158.78		
ADO-MW1d	1/11/2018	11:35	95.65	158.26		
ADO-MW1d	2/22/2018	12:25	95.05	158.86		
ADO-MW1d	3/21/2018	17:10	94.60	159.31		
ADO-MW1d	4/26/2018	8:01	94.94	158.97		
ADO-MW1d	5/18/2018	7:30	95.04	158.87		
ADO-MW1d	6/14/2018	11:02	96.81	157.10		
ADO-MW1d	7/19/2018	15:42	96.95	156.96		
ADO-MW1d	8/9/2018	10:02	Q/M			
ADO-MW1d	9/27/2018		N/M			
ADO-MW1d	10/31/2018	14:15	98.20	155.71		
ADO-MW1d	11/15/2018		N/M			
ADO-MW1d	12/21/2018	9:16	97.00	156.91		
ADO-MW1d	1/11/2019	9:21	96.61	157.30		
ADO-MW1d	2/15/2019	10:49	95.66	158.25		
ADO-MW1d	3/31/2019	10:17	95.17	158.74		
ADO-MW1d	4/19/2019	10:34	97.69	156.22		
ADO-MW1d	5/23/2019	7:47	95.39	158.52		
ADO-MW1d	6/13/2019	12:06	95.28	158.63		
ADO-MW1d	7/18/2019	14:24	95.69	158.22		
ADO-MW1d	8/15/2019	12:30	95.97	157.94		
ADO-MW1d	9/7/2019	13:27	95.67	158.24		
ADO-MW1d	10/30/2019	7:56	95.02	158.89		
ADO-MW1d	11/22/2019	10:42	94.15	159.76		
ADO-MW1d	12/13/2019	8:41	93.50	160.41		
ADO-MW2s	1/22/2013	11:32	77.45	176.54	-0.14	-0.01
ADO-MW2s	2/12/2013	11:05	78.16	175.83	0.05	0.00
ADO-MW2s	3/19/2013	9:30	78.56	175.43	0.16	0.01
ADO-MW2s	4/23/2013	10:05	80.44	173.55	-0.06	-0.00
ADO-MW2s	5/14/2013	11:18	81.22	172.77	<|0.05|	0
ADO-MW2s	6/19/2013	10:15	82.68	171.31	<|0.05|	0
ADO-MW2s	7/17/2013	10:05	85.26	168.73	<|0.05|	0
ADO-MW2s	8/16/2013	12:03	88.20	165.79	<|0.05|	0
ADO-MW2s	9/13/2013	8:42	88.87	165.12	<|0.05|	0
ADO-MW2s	10/23/2013	14:15	89.29	164.70	<|0.05|	0
ADO-MW2s	11/19/2013	7:52	89.87	164.12	<|0.05|	0
ADO-MW2s	12/26/2013	10:31	88.90	165.09	<|0.05|	0
ADO-MW2s	1/16/2014	11:00	89.25	164.74	<|0.05|	0
ADO-MW2s	2/21/2014	6:20	88.52	165.47	-0.08	-0.00
ADO-MW2s	3/20/2014	13:06	Dry			
ADO-MW2s	4/16/2014	12:47	89.41	164.58	<|0.05|	0
ADO-MW2s	5/22/2014	8:09	90.95	163.04	1.55	0.08
ADO-MW2s	6/13/2014	11:07	Dry			
ADO-MW2s	7/10/2014	9:54	Dry			
ADO-MW2s	8/22/2014	8:23	Dry			
ADO-MW2s	9/26/2014	8:15	Dry			
ADO-MW2s	10/23/2014	9:15	Dry			
ADO-MW2s	11/14/2014	10:09	Dry			
ADO-MW2s	12/18/2014	9:08	Dry			
ADO-MW2s	1/12/2015	10:10	Dry			
ADO-MW2s	2/25/2015	11:32	Dry			
ADO-MW2s	3/13/2015	10:27	Dry			
ADO-MW2s	4/22/2015	11:12	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ADO-MW2s	5/18/2015	12:22	Dry			
ADO-MW2s	6/12/2015	11:08	Dry			
ADO-MW2s	7/22/2015	12:49	Dry			
ADO-MW2s	8/21/2015		N/M			
ADO-MW2s	9/16/2015	11:39	Dry			
ADO-MW2s	10/22/2015	12:55	Dry			
ADO-MW2s	11/19/2015	12:40	Dry			
ADO-MW2s	12/18/2015	10:23	Dry			
ADO-MW2s	1/13/2016	11:04	Dry			
ADO-MW2s	2/25/2016		N/M			
ADO-MW2s	3/18/2016	9:47	Dry			
ADO-MW2s	4/20/2016	11:48	Dry			
ADO-MW2s	5/9/2016	11:00	N/M			
ADO-MW2s	6/24/2016		N/M			
ADO-MW2s	7/21/2016		N/M			
ADO-MW2s	8/23/2016		N/M			
ADO-MW2s	9/26/2016		N/M			
ADO-MW2s	10/28/2016	11:05	Dry			
ADO-MW2s	11/11/2016	9:30	Dry			
ADO-MW2s	12/23/2016	12:53	Dry			
ADO-MW2s	1/4/2017	10:44	Dry			
ADO-MW2s	2/1/2017		N/M			
ADO-MW2s	4/6/2017	10:04	Dry			
ADO-MW2s	4/17/2017	7:11	Dry			
ADO-MW2s	5/11/2017	11:37	Dry			
ADO-MW2s	6/7/2017	12:57	Dry			
ADO-MW2s	7/20/2017	9:42	Dry			
ADO-MW2s	8/24/2017	6:22	Dry			
ADO-MW2s	9/13/2017	8:20	Dry			
ADO-MW2s	10/18/2017	12:03	Dry			
ADO-MW2s	11/29/2017	7:58	Dry			
ADO-MW2s	12/23/2017	14:43	Dry			
ADO-MW2s	1/11/2018	11:26	Dry			
ADO-MW2s	2/22/2018	12:30	Dry			
ADO-MW2s	3/21/2018	17:20	Dry			
ADO-MW2s	4/26/2018	8:04	Dry			
ADO-MW2s	5/18/2018	7:48	Dry			
ADO-MW2s	6/14/2018	11:12	Dry			
ADO-MW2s	7/19/2018	15:50	Dry			
ADO-MW2s	8/9/2018	10:41	Dry			
ADO-MW2s	9/27/2018	12:02	Dry			
ADO-MW2s	10/31/2018	14:07	Dry			
ADO-MW2s	11/15/2018		N/M			
ADO-MW2s	12/21/2018	9:30	Dry			
ADO-MW2s	1/11/2019	9:31	Dry			
ADO-MW2s	2/15/2019	10:59	Dry			
ADO-MW2s	3/31/2019	10:09	Dry			
ADO-MW2s	4/19/2019	10:39	Dry			
ADO-MW2s	5/23/2019	7:54	Dry			
ADO-MW2s	6/13/2019	11:57	Dry			
ADO-MW2s	7/18/2019	14:33	Dry			
ADO-MW2s	8/15/2019	12:45	Dry			
ADO-MW2s	9/7/2019	13:33	Dry			
ADO-MW2s	10/30/2019	8:01	Dry			
ADO-MW2s	11/22/2019	10:51	Dry			
ADO-MW2s	12/13/2019	8:48	Dry			
ADO-MW2d	1/22/2013	11:28	77.34	176.68		
ADO-MW2d	2/12/2013	11:13	78.24	175.78		
ADO-MW2d	3/19/2013	9:34	78.75	175.27		
ADO-MW2d	4/23/2013	10:10	80.41	173.61		
ADO-MW2d	5/14/2013	11:20	81.28	172.74		
ADO-MW2d	6/19/2013	10:18	82.71	171.31		
ADO-MW2d	7/17/2013	10:10	85.30	168.72		
ADO-MW2d	8/16/2013	12:05	88.24	165.78		
ADO-MW2d	9/13/2013	8:45	88.89	165.13		
ADO-MW2d	10/23/2013	14:19	89.28	164.74		
ADO-MW2d	11/19/2013	7:55	89.94	164.08		
ADO-MW2d	12/26/2013	10:26	88.94	165.08		
ADO-MW2d	1/16/2014	11:04	89.23	164.79		
ADO-MW2d	2/21/2014	6:23	88.47	165.55		
ADO-MW2d	3/20/2014	13:09	88.16	165.86		
ADO-MW2d	4/16/2014	12:51	89.42	164.60		
ADO-MW2d	5/22/2014	8:12	92.53	161.49		
ADO-MW2d	6/13/2014	11:10	91.90	162.12		
ADO-MW2d	7/10/2014	9:58	93.00	161.02		
ADO-MW2d	8/22/2014	8:26	95.53	158.49		
ADO-MW2d	9/26/2014	8:18	96.59	157.43		
ADO-MW2d	10/23/2014	9:18	96.54	157.48		
ADO-MW2d	11/14/2014	10:11	96.95	157.07		
ADO-MW2d	12/18/2014	9:10	96.31	157.71		
ADO-MW2d	1/12/2015	10:14	95.73	158.29		
ADO-MW2d	2/25/2015	11:35	95.06	158.96		
ADO-MW2d	3/13/2015	10:30	95.31	158.71		
ADO-MW2d	4/22/2015	11:14	96.81	157.21		
ADO-MW2d	5/18/2015	12:26	97.41	156.61		
ADO-MW2d	6/12/2015	11:11	98.50	155.52		
ADO-MW2d	7/22/2015	12:53	99.48	154.54		
ADO-MW2d	8/21/2015		N/M			
ADO-MW2d	9/16/2015	11:42	103.51	150.51		
ADO-MW2d	10/22/2015	13:00	104.00	150.02		
ADO-MW2d	11/19/2015	12:45	103.59	150.43		
ADO-MW2d	12/18/2015	10:26	103.62	150.40		
ADO-MW2d	1/13/2016	11:07	102.90	151.12		
ADO-MW2d	2/25/2016		N/M			
ADO-MW2d	3/18/2016	9:50	100.60	153.42		
ADO-MW2d	4/20/2016	11:51	100.98	153.04		
ADO-MW2d	5/9/2016	11:00	N/M			
ADO-MW2d	6/24/2016		N/M			
ADO-MW2d	7/21/2016		N/M			
ADO-MW2d	8/23/2016		N/M			
ADO-MW2d	9/26/2016		N/M			
ADO-MW2d	10/28/2016	11:07	101.99	152.03		
ADO-MW2d	11/11/2016	9:33	101.80	152.22		
ADO-MW2d	12/23/2016	12:55	101.40	152.62		
ADO-MW2d	1/4/2017	10:48	101.17	152.85		
ADO-MW2d	2/1/2017		N/M			
ADO-MW2d	4/6/2017	10:05	98.31	155.71		
ADO-MW2d	4/17/2017	7:15	98.90	155.12		
ADO-MW2d	5/11/2017	11:46	97.67	156.35		
ADO-MW2d	6/7/2017	13:00	Dry			
ADO-MW2d	7/20/2017	9:46	103.61	150.41		
ADO-MW2d	8/24/2017	6:25	98.33	155.69		
ADO-MW2d	9/13/2017	8:23	98.48	155.54		
ADO-MW2d	10/18/2017	12:05	98.00	156.02		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ADO-MW2d	11/29/2017	8:01	96.99	157.03		
ADO-MW2d	12/23/2017	14:42	94.47	159.55		
ADO-MW2d	1/11/2018	11:28	96.10	157.92		
ADO-MW2d	2/22/2018	12:35	95.52	158.50		
ADO-MW2d	3/21/2018	17:25	95.11	158.91		
ADO-MW2d	4/26/2018	8:05	95.40	158.62		
ADO-MW2d	5/18/2018	7:47	95.50	158.52		
ADO-MW2d	6/14/2018	11:14	97.65	156.37		
ADO-MW2d	7/19/2018	15:52	97.86	156.16		
ADO-MW2d	8/9/2018	10:40	97.00	157.02		
ADO-MW2d	9/27/2018	12:05	97.72	156.30		
ADO-MW2d	10/31/2018	14:09	97.65	156.37		
ADO-MW2d	11/15/2018		N/M			
ADO-MW2d	12/21/2018	9:31	97.58	156.44		
ADO-MW2d	1/11/2019	9:32	97.18	156.84		
ADO-MW2d	2/15/2019	11:02	96.11	157.91		
ADO-MW2d	3/31/2019	10:06	95.72	158.30		
ADO-MW2d	4/19/2019	10:38	99.40	154.62		
ADO-MW2d	5/23/2019	7:55	95.90	158.12		
ADO-MW2d	6/13/2019	11:56	95.85	158.17		
ADO-MW2d	7/18/2019	14:31	96.15	157.87		
ADO-MW2d	8/15/2019	12:42	96.51	157.51		
ADO-MW2d	9/7/2019	13:35	96.20	157.82		
ADO-MW2d	10/30/2019	8:02	95.63	158.39		
ADO-MW2d	11/22/2019	10:50	94.71	159.31		
ADO-MW2d	12/13/2019	8:51	91.15	162.87		
MAL-MW1	1/23/2013	12:40	15.40	190.12		
MAL-MW1	2/13/2013	11:35	15.51	190.01		
MAL-MW1	3/20/2013	16:05	15.23	190.29		
MAL-MW1	4/24/2013	11:08	15.23	190.29		
MAL-MW1	5/15/2013	12:01	15.92	189.60		
MAL-MW1	6/20/2013	12:43	16.23	189.29		
MAL-MW1	7/18/2013	10:48	16.39	189.13		
MAL-MW1	8/15/2013	5:55	16.18	189.34		
MAL-MW1	9/12/2013	7:22	17.17	188.35		
MAL-MW1	10/24/2013	9:34	15.85	189.67		
MAL-MW1	11/20/2013	14:50	16.69	188.83		
MAL-MW1	12/27/2013	11:45	16.63	188.89		
MAL-MW1	1/15/2014	8:32	16.62	188.90		
MAL-MW1	2/20/2014	6:50	16.30	189.22		
MAL-MW1	3/19/2014	11:44	16.21	189.31		
MAL-MW1	4/15/2014	11:37	16.44	189.08		
MAL-MW1	5/28/2014	8:44	16.81	188.71		
MAL-MW1	6/12/2014	10:58	16.78	188.74		
MAL-MW1	7/9/2014	8:55	16.98	188.54		
MAL-MW1	8/20/2014	9:47	17.29	188.23		
MAL-MW1	9/25/2014	10:55	17.83	187.69		
MAL-MW1	10/22/2014	12:00	17.98	187.54		
MAL-MW1	11/12/2014	7:24	17.60	187.92		
MAL-MW1	12/17/2014	7:33	17.37	188.15		
MAL-MW1	1/8/2015	11:33	17.22	188.30		
MAL-MW1	2/19/2015	7:56	17.66	187.86		
MAL-MW1	3/12/2015	10:00	17.53	187.99		
MAL-MW1	4/21/2015	8:46	17.72	187.80		
MAL-MW1	5/14/2015	6:40	17.52	188.00		
MAL-MW1	6/11/2015	10:36	17.39	188.13		
MAL-MW1	7/21/2015	15:54	18.11	187.41		
MAL-MW1	8/21/2015	7:36	18.33	187.19		
MAL-MW1	9/15/2015	8:20	18.52	187.00		
MAL-MW1	10/21/2015	11:45	18.59	186.93		
MAL-MW1	11/19/2015	7:26	18.23	187.29		
MAL-MW1	12/17/2015	8:55	18.17	187.35		
MAL-MW1	1/12/2016	8:18	17.98	187.54		
MAL-MW1	2/24/2016	8:18	17.87	187.65		
MAL-MW1	3/18/2016	11:17	17.80	187.72		
MAL-MW1	4/19/2016	9:09	17.85	187.67		
MAL-MW1	5/9/2016	12:33	17.23	188.29		
MAL-MW1	6/22/2016	14:02	16.98	188.54		
MAL-MW1	7/20/2016	14:45	16.73	188.79		
MAL-MW1	8/23/2016	9:43	16.71	188.81		
MAL-MW1	9/28/2016	7:15	17.46	188.06		
MAL-MW1	10/27/2016	7:31	15.85	189.67		
MAL-MW1	11/10/2016	6:45	15.80	189.72		
MAL-MW1	12/22/2016	11:45	15.58	189.94		
MAL-MW1	1/6/2017	8:51	15.53	189.99		
MAL-MW1	2/1/2017		N/M			
MAL-MW1	3/24/2017	11:08	15.08	190.44		
MAL-MW1	4/20/2017	6:55	14.80	190.72		
MAL-MW1	5/18/2017	10:50	14.79	190.73		
MAL-MW1	6/6/2017	9:26	14.61	190.91		
MAL-MW1	7/13/2017	14:56	14.45	191.07		
MAL-MW1	8/23/2017	7:55	14.48	191.04		
MAL-MW1	9/12/2017	14:25	14.28	191.24		
MAL-MW1	10/17/2017	10:42	14.12	191.40		
MAL-MW1	11/27/2017	11:33	14.22	191.30		
MAL-MW1	12/22/2017	10:00	14.31	191.21		
MAL-MW1	1/10/2018	12:46	14.10	191.42		
MAL-MW1	2/7/2018	7:50	14.16	191.36		
MAL-MW1	3/21/2018	10:45	13.90	191.62		
MAL-MW1	4/24/2018	8:59	13.85	191.67		
MAL-MW1	5/17/2018	7:05	13.69	191.83		
MAL-MW1	6/13/2018	8:55	14.50	191.02		
MAL-MW1	7/18/2018	10:07	13.18	192.34		
MAL-MW1	8/7/2018	7:25	13.20	192.32		
MAL-MW1	9/26/2018	8:30	13.42	192.10		
MAL-MW1	10/31/2018	9:10	13.63	191.89		
MAL-MW1	11/27/2018	14:50	14.20	191.32		
MAL-MW1	12/27/2018	7:35	13.90	191.62		
MAL-MW1	1/9/2019	11:33	13.90	191.62		
MAL-MW1	2/14/2019	13:20	13.86	191.66		
MAL-MW1	3/31/2019	7:20	13.82	191.70		
MAL-MW1	4/19/2019	11:53	13.89	191.63		
MAL-MW1	5/15/2019	10:00	13.00	192.52		
MAL-MW1	6/12/2019	9:27	12.65	192.87		
MAL-MW1	7/17/2019	15:01	12.38	193.14		
MAL-MW1	8/14/2019	17:45	12.59	192.93		
MAL-MW1	9/14/2019	9:30	12.19	193.33		
MAL-MW1	10/29/2019	11:50	12.66	192.86		
MAL-MW1	11/21/2019	7:37	12.38	193.14		
MAL-MW1	12/12/2019	8:20	12.29	193.23		
MAL-MW2	1/23/2013	12:57	12.61	190.98		
MAL-MW2	2/13/2013	11:20	12.55	191.04		
MAL-MW2	3/20/2013	14:20	12.47	191.12		
MAL-MW2	4/24/2013	11:30	12.36	191.23		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MAL-MW2	5/15/2013	12:08	12.42	191.17		
MAL-MW2	6/20/2013	13:15	12.45	191.14		
MAL-MW2	7/18/2013	11:07	12.50	191.09		
MAL-MW2	8/15/2013	6:10	12.40	191.19		
MAL-MW2	9/12/2013	7:30	12.43	191.16		
MAL-MW2	10/24/2013	9:45	11.80	191.79		
MAL-MW2	11/20/2013	14:56	12.28	191.31		
MAL-MW2	12/27/2013	12:07	12.65	190.94		
MAL-MW2	1/15/2014	8:56	12.31	191.28		
MAL-MW2	2/20/2014	6:55	12.23	191.36		
MAL-MW2	3/19/2014	11:36	12.04	191.55		
MAL-MW2	4/15/2014	11:29	12.11	191.48		
MAL-MW2	5/28/2014	8:50	12.36	191.23		
MAL-MW2	6/12/2014	10:51	12.10	191.49		
MAL-MW2	7/9/2014	9:17	12.27	191.32		
MAL-MW2	8/20/2014	10:26	12.27	191.32		
MAL-MW2	9/25/2014	11:20	12.57	191.02		
MAL-MW2	10/22/2014	12:20	12.57	191.02		
MAL-MW2	11/12/2014	7:33	12.03	191.56		
MAL-MW2	12/17/2014	8:44	11.66	191.93		
MAL-MW2	1/8/2015	11:24	11.82	191.77		
MAL-MW2	2/19/2015	7:36	11.85	191.74		
MAL-MW2	3/12/2015	10:09	11.75	191.84		
MAL-MW2	4/21/2015	8:58	11.60	191.99		
MAL-MW2	5/14/2015	7:30	11.83	191.76		
MAL-MW2	6/11/2015	10:41	12.04	191.55		
MAL-MW2	7/21/2015	15:39	12.20	191.39		
MAL-MW2	8/21/2015	7:43	12.10	191.49		
MAL-MW2	9/15/2015	8:45	12.24	191.35		
MAL-MW2	10/21/2015	12:00	12.53	191.06		
MAL-MW2	11/19/2015	7:21	12.42	191.17		
MAL-MW2	12/17/2015	9:10	12.59	191.00		
MAL-MW2	1/12/2016	8:43	12.72	190.87		
MAL-MW2	2/24/2016	8:09	12.83	190.76		
MAL-MW2	3/18/2016	11:30	12.81	190.78		
MAL-MW2	4/19/2016	9:35	12.86	190.73		
MAL-MW2	5/9/2016	13:03	13.20	190.39		
MAL-MW2	6/22/2016	14:32	12.48	191.11		
MAL-MW2	7/20/2016	15:05	12.23	191.36		
MAL-MW2	8/23/2016	9:51	12.21	191.38		
MAL-MW2	9/28/2016	7:25	11.89	191.70		
MAL-MW2	10/27/2016	7:53	12.90	190.69		
MAL-MW2	11/10/2016	7:35	12.52	191.07		
MAL-MW2	12/22/2016	12:50	12.51	191.08		
MAL-MW2	1/6/2017	9:10	12.70	190.89		
MAL-MW2	2/1/2017		N/M			
MAL-MW2	3/24/2017	11:14	11.51	192.08		
MAL-MW2	4/20/2017	7:02	11.42	192.17		
MAL-MW2	5/18/2017	10:56	11.44	192.15		
MAL-MW2	6/6/2017	9:31	11.28	192.31		
MAL-MW2	7/13/2017	15:33	11.18	192.41		
MAL-MW2	8/23/2017	7:51	11.05	192.54		
MAL-MW2	9/12/2017	14:07	11.04	192.55		
MAL-MW2	10/17/2017	11:06	10.59	193.00		
MAL-MW2	11/27/2017	11:04	10.57	193.02		
MAL-MW2	12/22/2017	10:27	11.19	192.40		
MAL-MW2	1/10/2018	13:21	10.50	193.09		
MAL-MW2	2/7/2018	7:56	10.41	193.18		
MAL-MW2	3/21/2018	11:05	10.41	193.18		
MAL-MW2	4/24/2018	9:43	9.33	194.26		
MAL-MW2	5/17/2018	8:11	11.81	191.78		
MAL-MW2	6/13/2018	9:37	11.00	192.59		
MAL-MW2	7/18/2018	11:20	10.30	193.29		
MAL-MW2	8/7/2018	8:42	9.76	193.83		
MAL-MW2	9/26/2018	8:50	9.88	193.71		
MAL-MW2	10/31/2018	9:43	10.31	193.28		
MAL-MW2	11/27/2018	15:53	10.57	193.02		
MAL-MW2	12/27/2018	8:27	10.50	193.09		
MAL-MW2	1/9/2019	11:51	10.46	193.13		
MAL-MW2	2/14/2019	14:32	10.43	193.16		
MAL-MW2	3/31/2019	7:42	10.46	193.13		
MAL-MW2	4/19/2019	13:05	10.54	193.05		
MAL-MW2	5/15/2019	10:11	10.75	192.84		
MAL-MW2	6/12/2019	10:44	9.27	194.32		
MAL-MW2	7/17/2019	14:30	8.71	194.88		
MAL-MW2	8/14/2019	17:13	8.33	195.26		
MAL-MW2	9/14/2019	9:36	8.40	195.19		
MAL-MW2	10/29/2019	11:56	8.98	194.61		
MAL-MW2	11/21/2019	7:43	9.20	194.39		
MAL-MW2	12/12/2019	8:41	8.57	195.02		
MAL-MW3	1/23/2013	13:18	9.28	193.64		
MAL-MW3	2/13/2013	11:12	9.68	193.24		
MAL-MW3	3/20/2013	15:57	9.88	193.04		
MAL-MW3	4/24/2013	11:20	10.18	192.74		
MAL-MW3	5/15/2013	12:18	10.21	192.71		
MAL-MW3	6/20/2013	12:56	10.33	192.59		
MAL-MW3	7/18/2013	11:31	10.52	192.40		
MAL-MW3	8/15/2013	6:21	10.55	192.37		
MAL-MW3	9/12/2013	8:05	10.51	192.41		
MAL-MW3	10/24/2013	9:27	10.01	192.91		
MAL-MW3	11/20/2013	15:12	10.74	192.18		
MAL-MW3	12/27/2013	11:52	10.53	192.39		
MAL-MW3	1/15/2014	9:14	9.93	192.99		
MAL-MW3	2/20/2014	6:35	10.52	192.40		
MAL-MW3	3/19/2014	11:14	10.06	192.86		
MAL-MW3	4/15/2014	11:14	10.44	192.48		
MAL-MW3	5/28/2014		N/M			
MAL-MW3	6/12/2014	10:39	9.04	193.88		
MAL-MW3	7/9/2014	9:02	12.61	190.31		
MAL-MW3	8/20/2014	10:10	10.85	192.07		
MAL-MW3	9/25/2014	11:55	11.13	191.79		
MAL-MW3	10/22/2014	12:10	11.08	191.84		
MAL-MW3	11/12/2014	7:41	10.97	191.95		
MAL-MW3	12/17/2014	7:59	9.29	193.63		
MAL-MW3	1/8/2015	11:12	9.88	193.04		
MAL-MW3	2/19/2015	8:02	10.31	192.61		
MAL-MW3	3/12/2015	10:35	10.00	192.92		
MAL-MW3	4/21/2015	9:26	10.15	192.77		
MAL-MW3	5/14/2015	6:59	10.48	192.44		
MAL-MW3	6/11/2015	10:13	10.75	192.17		
MAL-MW3	7/21/2015	16:12	13.34	189.58		
MAL-MW3	8/21/2015	7:54	11.59	191.33		
MAL-MW3	9/15/2015	9:20	11.70	191.22		
MAL-MW3	10/21/2015	13:15	11.77	191.15		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MAL-MW3	11/19/2015	7:28	11.71	191.21		
MAL-MW3	12/17/2015	9:30	11.39	191.53		
MAL-MW3	1/12/2016	8:23	11.52	191.40		
MAL-MW3	2/24/2016	8:41	10.44	192.48		
MAL-MW3	3/18/2016	11:41	10.33	192.59		
MAL-MW3	4/19/2016	10:40	10.38	192.54		
MAL-MW3	5/9/2016	12:42	10.48	192.44		
MAL-MW3	6/22/2016	14:42	10.14	192.78		
MAL-MW3	7/20/2016	15:47	10.32	192.60		
MAL-MW3	8/23/2016	10:32	11.01	191.91		
MAL-MW3	9/28/2016	7:40	11.12	191.80		
MAL-MW3	10/27/2016	8:04	10.30	192.62		
MAL-MW3	11/10/2016	7:14	11.18	191.74		
MAL-MW3	12/22/2016	12:34	10.95	191.97		
MAL-MW3	1/6/2017	10:23	9.81	193.11		
MAL-MW3	2/1/2017		N/M			
MAL-MW3	3/24/2017	11:31	9.04	193.88		
MAL-MW3	4/20/2017	7:26	9.74	193.18		
MAL-MW3	5/18/2017	11:26	9.68	193.24		
MAL-MW3	6/6/2017	9:52	9.50	193.42		
MAL-MW3	7/13/2017	15:19	9.41	193.51		
MAL-MW3	8/23/2017	8:18	9.73	193.19		
MAL-MW3	9/12/2017	14:19	9.53	193.39		
MAL-MW3	10/17/2017	11:48	9.23	193.69		
MAL-MW3	11/27/2017	12:01	9.34	193.58		
MAL-MW3	12/22/2017	11:00	11.90	191.02		
MAL-MW3	1/10/2018	14:08	8.73	194.19		
MAL-MW3	2/7/2018	8:26	8.58	194.34		
MAL-MW3	3/21/2018	12:05	8.81	194.11		
MAL-MW3	4/24/2018	9:53	10.75	192.17		
MAL-MW3	5/17/2018	7:43	9.00	193.92		
MAL-MW3	6/13/2018	9:16	9.04	193.88		
MAL-MW3	7/18/2018	10:41	8.00	194.92		
MAL-MW3	8/7/2018	8:05	8.49	194.43		
MAL-MW3	9/26/2018		N/M			
MAL-MW3	10/31/2018	10:10	9.33	193.59		
MAL-MW3	11/27/2018	16:00	N/M			
MAL-MW3	12/27/2018	7:42	N/M			
MAL-MW3	1/9/2019		N/M			
MAL-MW3	2/14/2019	13:56	8.71	194.21		
MAL-MW3	3/31/2019		N/M			
MAL-MW3	4/19/2019	12:15	9.69	193.23		
MAL-MW3	5/15/2019	10:17	10.20	192.72		
MAL-MW3	6/12/2019	9:45	9.68	193.24		
MAL-MW3	7/17/2019	15:13	9.47	193.45		
MAL-MW3	8/14/2019	17:37	8.56	194.36		
MAL-MW3	9/14/2019	9:49	9.11	193.81		
MAL-MW3	10/29/2019	12:18	9.39	193.53		
MAL-MW3	11/21/2019	8:08	9.12	193.80		
MAL-MW3	12/12/2019	9:10	9.31	193.61		
MAL-MW4	1/23/2013	12:47	12.31	191.36		
MAL-MW4	2/13/2013	11:28	12.45	191.22		
MAL-MW4	3/20/2013	16:30	12.20	191.47		
MAL-MW4	4/24/2013	11:15	12.17	191.50		
MAL-MW4	5/15/2013	12:21	12.42	191.25		
MAL-MW4	6/20/2013	12:50	12.56	191.11		
MAL-MW4	7/18/2013	10:55	12.49	191.18		
MAL-MW4	8/15/2013	5:59	12.80	190.87		
MAL-MW4	9/12/2013	7:35	12.72	190.95		
MAL-MW4	10/24/2013	9:33	12.39	191.28		
MAL-MW4	11/20/2013	15:08	12.86	190.81		
MAL-MW4	12/27/2013	12:15	12.01	191.66		
MAL-MW4	1/15/2014	8:42	12.77	190.90		
MAL-MW4	2/20/2014	6:45	12.60	191.07		
MAL-MW4	3/19/2014	11:51	11.41	192.26		
MAL-MW4	4/15/2014	11:46	12.60	191.07		
MAL-MW4	5/28/2014	8:58	12.74	190.93		
MAL-MW4	6/12/2014	11:07	12.52	191.15		
MAL-MW4	7/9/2014	9:24	10.17	193.50		
MAL-MW4	8/20/2014	9:59	13.03	190.64		
MAL-MW4	9/25/2014	11:05	13.26	190.41		
MAL-MW4	10/22/2014	12:05	13.23	190.44		
MAL-MW4	11/12/2014	7:26	13.00	190.67		
MAL-MW4	12/17/2014	7:39	12.19	191.48		
MAL-MW4	1/8/2015	11:44	12.73	190.94		
MAL-MW4	2/19/2015	7:49	12.97	190.70		
MAL-MW4	3/12/2015	10:50	12.89	190.78		
MAL-MW4	4/21/2015	9:37	12.63	191.04		
MAL-MW4	5/14/2015	6:46	12.80	190.87		
MAL-MW4	6/11/2015	10:29	12.93	190.74		
MAL-MW4	7/21/2015	16:04	13.01	190.66		
MAL-MW4	8/21/2015	7:28	13.45	190.22		
MAL-MW4	9/15/2015	8:28	13.56	190.11		
MAL-MW4	10/21/2015	13:00	13.80	189.87		
MAL-MW4	11/19/2015	7:33	13.71	189.96		
MAL-MW4	12/17/2015	9:00	13.80	189.87		
MAL-MW4	1/12/2016	8:53	13.93	189.74		
MAL-MW4	2/24/2016	8:27	13.33	190.34		
MAL-MW4	3/18/2016	11:22	13.41	190.26		
MAL-MW4	4/19/2016	9:20	13.46	190.21		
MAL-MW4	5/9/2016	12:51	13.30	190.37		
MAL-MW4	6/22/2016	14:15	12.98	190.69		
MAL-MW4	7/20/2016	14:55	12.87	190.80		
MAL-MW4	8/23/2016	10:43	12.99	190.68		
MAL-MW4	9/28/2016	8:00	12.90	190.77		
MAL-MW4	10/27/2016	7:40	13.19	190.48		
MAL-MW4	11/10/2016	6:52	12.94	190.73		
MAL-MW4	12/22/2016	11:58	12.92	190.75		
MAL-MW4	1/6/2017	10:30	12.90	190.77		
MAL-MW4	2/1/2017		N/M			
MAL-MW4	3/24/2017		N/M			
MAL-MW4	4/20/2017	7:19	12.71	190.96		
MAL-MW4	5/18/2017	11:32	11.72	191.95		
MAL-MW4	6/6/2017	10:01	11.67	192.00		
MAL-MW4	7/13/2017	15:06	12.39	191.28		
MAL-MW4	8/23/2017	8:25	11.39	192.28		
MAL-MW4	9/12/2017	14:01	11.28	192.39		
MAL-MW4	10/17/2017	10:50	11.20	192.47		
MAL-MW4	11/27/2017	11:52	11.20	192.47		
MAL-MW4	12/22/2017	10:09	11.46	192.21		
MAL-MW4	1/10/2018	12:54	11.08	192.59		
MAL-MW4	2/7/2018		N/M			
MAL-MW4	3/21/2018	11:30	10.68	192.99		
MAL-MW4	4/24/2018	9:15	10.90	192.77		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MAL-MW4	5/17/2018	7:15	10.70	192.97		
MAL-MW4	6/13/2018	9:10	11.58	192.09		
MAL-MW4	7/18/2018	10:16	10.29	193.38		
MAL-MW4	8/7/2018	7:38	N/M			
MAL-MW4	9/26/2018	9:20	10.61	193.06		
MAL-MW4	10/31/2018	9:20	10.71	192.96		
MAL-MW4	11/27/2018	14:58	10.90	192.77		
MAL-MW4	12/27/2018	8:42	10.84	192.83		
MAL-MW4	1/9/2019	11:45	10.95	192.72		
MAL-MW4	2/14/2019	13:31	11.02	192.65		
MAL-MW4	3/31/2019	7:35	10.87	192.80		
MAL-MW4	4/19/2019	12:02	10.95	192.72		
MAL-MW4	5/15/2019	10:04	10.10	193.57		
MAL-MW4	6/12/2019	9:35	10.45	193.22		
MAL-MW4	7/17/2019	14:53	9.94	193.73		
MAL-MW4	8/14/2019	17:41	9.73	193.94		
MAL-MW4	9/14/2019	9:55	8.87	194.80		
MAL-MW4	10/29/2019	12:30	9.67	194.00		
MAL-MW4	11/21/2019	8:18	9.80	193.87		
MAL-MW4	12/12/2019	8:33	9.66	194.01		
MAL-MW5	1/23/2013	12:53	10.31	192.16		
MAL-MW5	2/13/2013	11:15	10.62	191.85		
MAL-MW5	3/20/2013	16:23	10.45	192.02		
MAL-MW5	4/24/2013	11:25	10.45	192.02		
MAL-MW5	5/15/2013	12:28	10.48	191.99		
MAL-MW5	6/20/2013	13:10	10.65	191.82		
MAL-MW5	7/18/2013	11:01	10.46	192.01		
MAL-MW5	8/15/2013	6:03	10.63	191.84		
MAL-MW5	9/12/2013	7:42	10.72	191.75		
MAL-MW5	10/24/2013	9:39	10.14	192.33		
MAL-MW5	11/20/2013	15:00	10.59	191.88		
MAL-MW5	12/27/2013	12:00	10.51	191.96		
MAL-MW5	1/15/2014	8:50	10.37	192.10		
MAL-MW5	2/20/2014	6:40	10.31	192.16		
MAL-MW5	3/19/2014	11:20	9.37	193.10		
MAL-MW5	4/15/2014	11:22	10.35	192.12		
MAL-MW5	5/28/2014	9:08	10.56	191.91		
MAL-MW5	6/12/2014	10:44	9.42	193.05		
MAL-MW5	7/9/2014	9:10	10.32	192.15		
MAL-MW5	8/20/2014	10:17	10.98	191.49		
MAL-MW5	9/25/2014	11:15	11.10	191.37		
MAL-MW5	10/22/2014	12:15	10.83	191.64		
MAL-MW5	11/12/2014	7:48	10.23	192.24		
MAL-MW5	12/17/2014	8:06	9.79	192.68		
MAL-MW5	1/8/2015	11:19	10.06	192.41		
MAL-MW5	2/19/2015	7:41	9.94	192.53		
MAL-MW5	3/12/2015	10:43	9.81	192.66		
MAL-MW5	4/21/2015	9:31	10.21	192.26		
MAL-MW5	5/14/2015	6:52	10.39	192.08		
MAL-MW5	6/11/2015	10:19	10.56	191.91		
MAL-MW5	7/21/2015	15:46	10.62	191.85		
MAL-MW5	8/21/2015	7:48	10.95	191.52		
MAL-MW5	9/15/2015	8:37	11.12	191.35		
MAL-MW5	10/21/2015	12:50	11.22	191.25		
MAL-MW5	11/19/2015	7:30	11.30	191.17		
MAL-MW5	12/17/2015	9:05	11.41	191.06		
MAL-MW5	1/12/2016	8:48	10.80	191.67		
MAL-MW5	2/24/2016	8:35	10.81	191.66		
MAL-MW5	3/18/2016	11:26	11.10	191.37		
MAL-MW5	4/19/2016	9:49	11.29	191.18		
MAL-MW5	5/9/2016	12:57	11.00	191.47		
MAL-MW5	6/22/2016	14:25	10.78	191.69		
MAL-MW5	7/20/2016	15:12	10.77	191.70		
MAL-MW5	8/23/2016	10:00	10.65	191.82		
MAL-MW5	9/28/2016	8:10	11.00	191.47		
MAL-MW5	10/27/2016	7:47	11.11	191.36		
MAL-MW5	11/10/2016	6:58	11.01	191.46		
MAL-MW5	12/22/2016	12:15	11.10	191.37		
MAL-MW5	1/6/2017	9:37	10.78	191.69		
MAL-MW5	2/1/2017		N/M			
MAL-MW5	3/24/2017	11:40	9.48	192.99		
MAL-MW5	4/20/2017	7:10	9.74	192.73		
MAL-MW5	5/18/2017	11:01	10.36	192.11		
MAL-MW5	6/6/2017	10:06	9.54	192.93		
MAL-MW5	7/13/2017	15:43	10.01	192.46		
MAL-MW5	8/23/2017	8:03	9.76	192.71		
MAL-MW5	9/12/2017	14:12	9.69	192.78		
MAL-MW5	10/17/2017	11:01	9.56	192.91		
MAL-MW5	11/27/2017	11:44	9.41	193.06		
MAL-MW5	12/22/2017	10:22	10.26	192.21		
MAL-MW5	1/10/2018	13:29	9.01	193.46		
MAL-MW5	2/7/2018	8:35	8.76	193.71		
MAL-MW5	3/21/2018	11:50	8.31	194.16		
MAL-MW5	4/24/2018	9:23	9.13	193.34		
MAL-MW5	5/17/2018	7:35	9.07	193.40		
MAL-MW5	6/13/2018	9:28	9.48	192.99		
MAL-MW5	7/18/2018	10:28	8.80	193.67		
MAL-MW5	8/7/2018	7:45	8.66	193.81		
MAL-MW5	9/26/2018	8:57	9.06	193.41		
MAL-MW5	10/31/2018	9:30	9.24	193.23		
MAL-MW5	11/27/2018	15:49	9.70	192.77		
MAL-MW5	12/27/2018	8:20	9.00	193.47		
MAL-MW5	1/9/2019	11:58	7.00	195.47		
MAL-MW5	2/14/2019	14:17	9.27	193.20		
MAL-MW5	3/31/2019	7:50	8.91	193.56		
MAL-MW5	4/19/2019	12:07	9.10	193.37		
MAL-MW5	5/15/2019	10:07	8.16	194.31		
MAL-MW5	6/12/2019	10:36	8.80	193.67		
MAL-MW5	7/17/2019	14:40	8.96	193.51		
MAL-MW5	8/14/2019	17:21	10.31	192.16		
MAL-MW5	9/14/2019	9:41	8.63	193.84		
MAL-MW5	10/29/2019	12:25	9.21	193.26		
MAL-MW5	11/21/2019	8:22	8.21	194.26		
MAL-MW5	12/12/2019	9:00	8.71	193.76		
MAL-MW6	1/23/2013	13:30	8.24	192.90		
MAL-MW6	2/13/2013	10:58	8.72	192.42		
MAL-MW6	3/20/2013	17:00	7.88	193.26		
MAL-MW6	4/24/2013	11:36	8.59	192.55		
MAL-MW6	5/15/2013	12:13	8.10	193.04		
MAL-MW6	6/20/2013	13:32	5.95	195.19		
MAL-MW6	7/18/2013	11:20	6.01	195.13		
MAL-MW6	8/15/2013	6:32	6.26	194.88		
MAL-MW6	9/12/2013	8:20	6.12	195.02		
MAL-MW6	10/24/2013	9:13	5.81	195.33		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MAL-MW6	11/20/2013	15:21	7.78	193.36		
MAL-MW6	12/27/2013	12:22	6.01	195.13		
MAL-MW6	1/15/2014	9:31	7.75	193.39		
MAL-MW6	2/20/2014	6:20	8.00	193.14		
MAL-MW6	3/19/2014	12:06	7.89	193.25		
MAL-MW6	4/15/2014	12:11	8.15	192.99		
MAL-MW6	5/28/2014	9:24	7.88	193.26		
MAL-MW6	6/12/2014	11:24	6.13	195.01		
MAL-MW6	7/9/2014	9:59	2.86	198.28		
MAL-MW6	8/20/2014	10:56	6.95	194.19		
MAL-MW6	9/25/2014	11:40	7.64	193.50		
MAL-MW6	10/22/2014	12:30	6.26	194.88		
MAL-MW6	11/12/2014	7:35	7.20	193.94		
MAL-MW6	12/17/2014	8:17	6.98	194.16		
MAL-MW6	1/8/2015	12:02	7.70	193.44		
MAL-MW6	2/19/2015	7:21	7.81	193.33		
MAL-MW6	3/12/2015	10:23	8.04	193.10		
MAL-MW6	4/21/2015	9:12	7.95	193.19		
MAL-MW6	5/14/2015	7:14	8.20	192.94		
MAL-MW6	6/11/2015	10:47	8.01	193.13		
MAL-MW6	7/21/2015	16:25	7.62	193.52		
MAL-MW6	8/21/2015	7:16	8.41	192.73		
MAL-MW6	9/15/2015	9:05	8.91	192.23		
MAL-MW6	10/21/2015	12:15	7.72	193.42		
MAL-MW6	11/19/2015	7:17	8.64	192.50		
MAL-MW6	12/17/2015	9:15	8.76	192.38		
MAL-MW6	1/12/2016	8:33	8.97	192.17		
MAL-MW6	2/24/2016	7:52	9.23	191.91		
MAL-MW6	3/18/2016	11:52	9.11	192.03		
MAL-MW6	4/19/2016	10:17	9.19	191.95		
MAL-MW6	5/9/2016	13:16	7.91	193.23		
MAL-MW6	6/22/2016	14:59	7.10	194.04		
MAL-MW6	7/20/2016	15:32	6.84	194.30		
MAL-MW6	8/23/2016	10:17	7.54	193.60		
MAL-MW6	9/28/2016	8:30	8.21	192.93		
MAL-MW6	10/27/2016	8:11	9.16	191.98		
MAL-MW6	11/10/2016	7:24	7.94	193.20		
MAL-MW6	12/22/2016	13:10	8.78	192.36		
MAL-MW6	1/6/2017	9:54	8.93	192.21		
MAL-MW6	2/1/2017		N/M			
MAL-MW6	3/24/2017	11:51	7.55	193.59		
MAL-MW6	4/20/2017	7:30	8.87	192.27		
MAL-MW6	5/18/2017	11:15	7.74	193.40		
MAL-MW6	6/6/2017	9:40	7.30	193.84		
MAL-MW6	7/13/2017	16:10	7.02	194.12		
MAL-MW6	8/23/2017	9:24	6.50	194.64		
MAL-MW6	9/12/2017	14:38	6.62	194.52		
MAL-MW6	10/17/2017	11:26	6.40	194.74		
MAL-MW6	11/27/2017	11:25	7.47	193.67		
MAL-MW6	12/22/2017	10:48	7.90	193.24		
MAL-MW6	1/10/2018	13:55	8.01	193.13		
MAL-MW6	2/7/2018	8:09	8.16	192.98		
MAL-MW6	3/21/2018	12:55	8.50	192.64		
MAL-MW6	4/24/2018	10:23	8.71	192.43		
MAL-MW6	5/17/2018	8:29	7.60	193.54		
MAL-MW6	6/13/2018	9:53	8.51	192.63		
MAL-MW6	7/18/2018	11:04	6.20	194.94		
MAL-MW6	8/7/2018	8:24	5.27	195.87		
MAL-MW6	9/26/2018	9:30	7.56	193.58		
MAL-MW6	10/31/2018	9:56	7.19	193.95		
MAL-MW6	11/27/2018	15:25	8.07	193.07		
MAL-MW6	12/27/2018	7:58	8.03	193.11		
MAL-MW6	1/9/2019	10:18	8.55	192.59		
MAL-MW6	2/14/2019	14:46	8.29	192.85		
MAL-MW6	3/31/2019	9:10	9.00	192.14		
MAL-MW6	4/19/2019	12:35	9.06	192.08		
MAL-MW6	5/15/2019	10:30	7.00	194.14		
MAL-MW6	6/12/2019	10:05	7.95	193.19		
MAL-MW6	7/17/2019	15:30	6.41	194.73		
MAL-MW6	8/14/2019	18:13	6.27	194.87		
MAL-MW6	9/14/2019	10:27	6.37	194.77		
MAL-MW6	10/29/2019	12:06	6.66	194.48		
MAL-MW6	11/21/2019	7:54	7.03	194.11		
MAL-MW6	12/12/2019	9:20	6.31	194.83		
MAL-MW7	1/23/2013	13:01	8.31	191.62		
MAL-MW7	2/13/2013	11:25	8.26	191.67		
MAL-MW7	3/20/2013	14:49	8.14	191.79		
MAL-MW7	4/24/2013	11:36	8.11	191.82		
MAL-MW7	5/15/2013	12:16	8.28	191.65		
MAL-MW7	6/20/2013	13:21	7.43	192.50		
MAL-MW7	7/18/2013	11:14	7.59	192.34		
MAL-MW7	8/15/2013	6:15	6.69	193.24		
MAL-MW7	9/12/2013	7:57	7.18	192.75		
MAL-MW7	10/24/2013	9:05	6.86	193.07		
MAL-MW7	11/20/2013	15:26	7.22	192.71		
MAL-MW7	12/27/2013	12:29	7.40	192.53		
MAL-MW7	1/15/2014	9:04	7.43	192.50		
MAL-MW7	2/20/2014	6:30	7.35	192.58		
MAL-MW7	3/19/2014	12:00	7.28	192.65		
MAL-MW7	4/15/2014	12:03	7.59	192.34		
MAL-MW7	5/28/2014	9:20	7.86	192.07		
MAL-MW7	6/12/2014	11:16	6.90	193.03		
MAL-MW7	7/9/2014	9:39	6.90	193.03		
MAL-MW7	8/20/2014	10:37	6.93	193.00		
MAL-MW7	9/25/2014	11:30	7.55	192.38		
MAL-MW7	10/22/2014	12:25	6.95	192.98		
MAL-MW7	11/12/2014	7:42	7.12	192.81		
MAL-MW7	12/17/2014	8:31	7.00	192.93		
MAL-MW7	1/8/2015	11:54	6.95	192.98		
MAL-MW7	2/19/2015	7:30	6.83	193.10		
MAL-MW7	3/12/2015	10:16	6.28	193.65		
MAL-MW7	4/21/2015	9:05	6.84	193.09		
MAL-MW7	5/14/2015	7:21	7.21	192.72		
MAL-MW7	6/11/2015	10:58	7.33	192.60		
MAL-MW7	7/21/2015	16:33	6.93	193.00		
MAL-MW7	8/21/2015	7:22	7.05	192.88		
MAL-MW7	9/15/2015	8:55	7.12	192.81		
MAL-MW7	10/21/2015	12:05	6.92	193.01		
MAL-MW7	11/19/2015	7:25	7.27	192.66		
MAL-MW7	12/17/2015	9:20	7.38	192.55		
MAL-MW7	1/12/2016	8:38	8.03	191.90		
MAL-MW7	2/24/2016	8:01	7.66	192.27		
MAL-MW7	3/18/2016	11:37	8.91	191.02		
MAL-MW7	4/19/2016	10:05	9.99	189.94		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MAL-MW7	5/9/2016	13:09	7.01	192.92		
MAL-MW7	6/22/2016	15:15	6.13	193.80		
MAL-MW7	7/20/2016	15:21	5.15	194.78		
MAL-MW7	8/23/2016	10:09	5.90	194.03		
MAL-MW7	9/28/2016	8:50	7.00	192.93		
MAL-MW7	10/27/2016	7:59	9.95	189.98		
MAL-MW7	11/10/2016	7:30	6.60	193.33		
MAL-MW7	12/22/2016	12:56	7.28	192.65		
MAL-MW7	1/6/2017	10:10	7.44	192.49		
MAL-MW7	2/1/2017		N/M			
MAL-MW7	3/24/2017	12:05	6.21	193.72		
MAL-MW7	4/20/2017	7:20	6.03	193.90		
MAL-MW7	5/18/2017	11:09	6.02	193.91		
MAL-MW7	6/6/2017	9:35	5.93	194.00		
MAL-MW7	7/13/2017	15:59	5.38	194.55		
MAL-MW7	8/23/2017		Obs			
MAL-MW7	9/12/2017	14:47	5.14	194.79		
MAL-MW7	10/17/2017	11:13	4.87	195.06		
MAL-MW7	11/27/2017	11:17	5.75	194.18		
MAL-MW7	12/22/2017	10:36	6.06	193.87		
MAL-MW7	1/10/2018	13:44	6.29	193.64		
MAL-MW7	2/7/2018	8:04	6.60	193.33		
MAL-MW7	3/21/2018	12:30	6.61	193.32		
MAL-MW7	4/24/2018	10:04	6.97	192.96		
MAL-MW7	5/17/2018	8:02	6.90	193.03		
MAL-MW7	6/13/2018	9:44	6.69	193.24		
MAL-MW7	7/18/2018	11:13	5.77	194.16		
MAL-MW7	8/7/2018	8:33	4.90	195.03		
MAL-MW7	9/26/2018	9:48	5.64	194.29		
MAL-MW7	10/31/2018	9:47	5.79	194.14		
MAL-MW7	11/27/2018	15:35	6.13	193.80		
MAL-MW7	12/27/2018	8:07	6.37	193.56		
MAL-MW7	1/9/2019	10:46	6.50	193.43		
MAL-MW7	2/14/2019	14:57	6.52	193.41		
MAL-MW7	3/31/2019	9:39	6.69	193.24		
MAL-MW7	4/19/2019	12:54	6.59	193.34		
MAL-MW7	5/15/2019	10:35	6.00	193.93		
MAL-MW7	6/12/2019	10:16	5.22	194.71		
MAL-MW7	7/17/2019	15:43	4.14	195.79		
MAL-MW7	8/14/2019	18:01	4.59	195.34		
MAL-MW7	9/14/2019	10:16	4.11	195.82		
MAL-MW7	10/29/2019	12:00	5.01	194.92		
MAL-MW7	11/21/2019	7:48	5.11	194.82		
MAL-MW7	12/12/2019	9:30	4.14	195.79		
MAL-MW8	1/23/2013	13:22	5.94	193.96		
MAL-MW8	2/13/2013	11:05	5.51	194.39		
MAL-MW8	3/20/2013	15:31	5.42	194.48		
MAL-MW8	4/24/2013	11:55	5.31	194.59		
MAL-MW8	5/15/2013	12:24	4.64	195.26		
MAL-MW8	6/20/2013	13:25	3.94	195.96		
MAL-MW8	7/18/2013	11:26	3.99	195.91		
MAL-MW8	8/15/2013	6:27	3.07	196.83		
MAL-MW8	9/12/2013	8:12	4.41	195.49		
MAL-MW8	10/24/2013	9:20	3.37	196.53		
MAL-MW8	11/20/2013	15:17	5.28	194.62		
MAL-MW8	12/27/2013	12:35	4.09	195.81		
MAL-MW8	1/15/2014	9:22	4.71	195.19		
MAL-MW8	2/20/2014	6:25	4.80	195.10		
MAL-MW8	3/19/2014	11:03	5.10	194.80		
MAL-MW8	4/15/2014	11:07	5.34	194.56		
MAL-MW8	5/28/2014	9:16	4.25	195.65		
MAL-MW8	6/12/2014	10:32	4.73	195.17		
MAL-MW8	7/9/2014	9:51	6.29	193.61		
MAL-MW8	8/20/2014	11:09	3.91	195.99		
MAL-MW8	9/25/2014	11:45	4.90	195.00		
MAL-MW8	10/22/2014	12:35	3.88	196.02		
MAL-MW8	11/12/2014	7:50	4.33	195.57		
MAL-MW8	12/17/2014	7:53	4.41	195.49		
MAL-MW8	1/8/2015	11:06	4.97	194.93		
MAL-MW8	2/19/2015	8:11	5.24	194.66		
MAL-MW8	3/12/2015	10:30	4.70	195.20		
MAL-MW8	4/21/2015	9:19	3.90	196.00		
MAL-MW8	5/14/2015	7:06	4.38	195.52		
MAL-MW8	6/11/2015	10:07	4.11	195.79		
MAL-MW8	7/21/2015	16:20	14.12	185.78		
MAL-MW8	8/21/2015	8:02	4.68	195.22		
MAL-MW8	9/15/2015	9:12	5.65	194.25		
MAL-MW8	10/21/2015	12:25	4.82	195.08		
MAL-MW8	11/19/2015	7:16	5.41	194.49		
MAL-MW8	12/17/2015	9:25	5.60	194.30		
MAL-MW8	1/12/2016	8:28	6.06	193.84		
MAL-MW8	2/24/2016	8:54	6.21	193.69		
MAL-MW8	3/18/2016	11:45	6.34	193.56		
MAL-MW8	4/19/2016	10:28	6.40	193.50		
MAL-MW8	5/9/2016	13:24	4.70	195.20		
MAL-MW8	6/22/2016	14:50	4.73	195.17		
MAL-MW8	7/20/2016	15:39	5.41	194.49		
MAL-MW8	8/23/2016	10:24	5.98	193.92		
MAL-MW8	9/28/2016	9:15	4.93	194.97		
MAL-MW8	10/27/2016	8:18	6.37	193.53		
MAL-MW8	11/10/2016	7:20	7.18	192.72		
MAL-MW8	12/22/2016	12:40	7.03	192.87		
MAL-MW8	1/6/2017	10:40	7.23	192.67		
MAL-MW8	2/1/2017		N/M			
MAL-MW8	3/24/2017	12:15	6.18	193.72		
MAL-MW8	4/20/2017	7:40	6.71	193.19		
MAL-MW8	5/18/2017	11:21	5.41	194.49		
MAL-MW8	6/6/2017	9:46	4.70	195.20		
MAL-MW8	7/13/2017	16:19	3.89	196.01		
MAL-MW8	8/23/2017	8:40	3.90	196.00		
MAL-MW8	9/12/2017	14:32	4.33	195.57		
MAL-MW8	10/17/2017	11:38	4.81	195.09		
MAL-MW8	11/27/2017	12:09	5.82	194.08		
MAL-MW8	12/22/2017	10:54	6.21	193.69		
MAL-MW8	1/10/2018	14:01	5.65	194.25		
MAL-MW8	2/7/2018	8:16	5.51	194.39		
MAL-MW8	3/21/2018	12:45	6.48	193.42		
MAL-MW8	4/24/2018	10:15	6.12	193.78		
MAL-MW8	5/17/2018	7:51	4.19	195.71		
MAL-MW8	6/13/2018	10:02	5.92	193.98		
MAL-MW8	7/18/2018	10:48	3.26	196.64		
MAL-MW8	8/7/2018	8:17	3.29	196.61		
MAL-MW8	9/26/2018	10:00	4.95	194.95		
MAL-MW8	10/31/2018	10:02	4.60	195.30		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MAL-MW8	11/27/2018	15:15	5.45	194.45		
MAL-MW8	12/27/2018	7:48	6.16	193.74		
MAL-MW8	1/9/2019	10:05	6.45	193.45		
MAL-MW8	2/14/2019	15:06	5.88	194.02		
MAL-MW8	3/31/2019	8:30	7.15	192.75		
MAL-MW8	4/19/2019	12:27	7.65	192.25		
MAL-MW8	5/15/2019	10:22	5.30	194.60		
MAL-MW8	6/12/2019	9:54	5.12	194.78		
MAL-MW8	7/17/2019	15:22	2.31	197.59		
MAL-MW8	8/14/2019	17:52	3.37	196.53		
MAL-MW8	9/14/2019	10:08	3.13	196.77		
MAL-MW8	10/29/2019	12:12	5.30	194.60		
MAL-MW8	11/21/2019	8:00	5.45	194.45		
MAL-MW8	12/12/2019	9:13	1.98	197.92		
MAP-MW8	1/22/2013	16:32	94.08	148.55		
MAP-MW8	2/12/2013	14:57	94.10	148.53		
MAP-MW8	3/20/2013	7:40	94.08	148.55		
MAP-MW8	4/23/2013	14:20	94.11	148.52		
MAP-MW8	5/15/2013	7:05	94.48	148.15		
MAP-MW8	6/19/2013	15:40	96.22	146.41		
MAP-MW8	7/17/2013	14:04	99.15	143.48		
MAP-MW8	8/16/2013	6:45	96.88	145.75		
MAP-MW8	9/12/2013	15:15	Dry			
MAP-MW8	10/24/2013	8:00	Dry			
MAP-MW8	11/19/2013	15:15	Dry			
MAP-MW8	12/26/2013	15:38	Dry			
MAP-MW8	1/15/2014	15:28	Q/M			
MAP-MW8	2/20/2014	11:35	Q/M			
MAP-MW8	3/20/2014	11:25	Q/M			
MAP-MW8	4/16/2014	10:57	Dry			
MAP-MW8	5/23/2014	12:31	Q/M			
MAP-MW8	6/13/2014	9:22	Q/M			
MAP-MW8	7/9/2014	15:41	Q/M			
MAP-MW8	8/18/2014	15:57	Q/M			
MAP-MW8	9/25/2014	13:50	Q/M			
MAP-MW8	10/22/2014	14:35	Q/M			
MAP-MW8	11/13/2014	15:08	Q/M			
MAP-MW8	12/17/2014	12:39	Q/M			
MAP-MW8	1/12/2015	12:07	Dry			
MAP-MW8	2/24/2015	14:56	Dry			
MAP-MW8	3/13/2015	8:00	Dry			
MAP-MW8	4/22/2015	8:03	Dry			
MAP-MW8	5/15/2015	11:21	Dry			
MAP-MW8	6/12/2015	8:15	Dry			
MAP-MW8	7/22/2015	9:31	Dry			
MAP-MW8	8/24/2015	15:43	Dry			
MAP-MW8	9/16/2015	9:17	Dry			
MAP-MW8	10/22/2015	8:45	Dry			
MAP-MW8	11/18/2015	10:15	Dry			
MAP-MW8	12/17/2015	14:38	Dry			
MAP-MW8	1/13/2016	7:18	Dry			
MAP-MW8	2/24/2016	12:10	Dry			
MAP-MW8	3/18/2016	12:13	Dry			
MAP-MW8	4/20/2016	9:46	Dry			
MAP-MW8	5/6/2016	10:59	Dry			
MAP-MW8	6/23/2016	13:19	Dry			
MAP-MW8	7/21/2016	9:10	Dry			
MAP-MW8	8/8/2016	15:38	Dry			
MAP-MW8	9/29/2016		Dry			
MAP-MW8	10/27/2016	9:07	Dry			
MAP-MW8	11/11/2016	7:30	Dry			
MAP-MW8	12/23/2016	10:06	Dry			
MAP-MW8	1/5/2017	11:33	Dry			
MAP-MW8	2/1/2017		N/M			
MAP-MW8	3/31/2017	12:31	Dry			
MAP-MW8	4/20/2017	14:30	Dry			
MAP-MW8	5/10/2017	15:57	Dry			
MAP-MW8	6/7/2017	8:40	Dry			
MAP-MW8	7/20/2017	6:58	Dry			
MAP-MW8	8/24/2017	7:54	Dry			
MAP-MW8	9/12/2017	10:22	Dry			
MAP-MW8	10/18/2017	7:17	Dry			
MAP-MW8	11/28/2017	10:03	Dry			
MAP-MW8	12/22/2017	12:16	Dry			
MAP-MW8	1/10/2018	14:57	Dry			
MAP-MW8	2/14/2018	10:40	Dry			
MAP-MW8	3/22/2018	14:25	Dry			
MAP-MW8	4/25/2018	15:58	Dry			
MAP-MW8	5/11/2018	11:05	Dry			
MAP-MW8	6/14/2018	7:05	Dry			
MAP-MW8	7/19/2018	16:09	Dry			
MAP-MW8	8/8/2018	7:35	Dry			
MAP-MW8	9/27/2018		N/M			
MAP-MW8	10/31/2018	9:10	Dry			
MAP-MW8	11/15/2018	14:25	Dry			
MAP-MW8	12/27/2018	13:05	Dry			
MAP-MW8	1/10/2019	12:10	Dry			
MAP-MW8	2/20/2019	12:25	Dry			
MAP-MW8	3/15/2019	10:30	Dry			
MAP-MW8	4/17/2019	11:37	Dry			
MAP-MW8	5/21/2019	12:15	Dry			
MAP-MW8	6/13/2019	9:14	Dry			
MAP-MW8	7/18/2019	12:06	Dry			
MAP-MW8	8/14/2019	14:38	Dry			
MAP-MW8	9/21/2019	11:03	Dry			
MAP-MW8	10/29/2019	14:27	Dry			
MAP-MW8	11/21/2019	13:15	Dry			
MAP-MW8	12/12/2019	15:34	93.92	148.71		
MAP-MW9	1/22/2013	15:34	Dry			
MAP-MW9	2/12/2013	14:50	Dry			
MAP-MW9	3/20/2013	7:28	Dry			
MAP-MW9	4/23/2013	14:10	Dry			
MAP-MW9	5/15/2013	7:13	Dry			
MAP-MW9	6/19/2013	15:36	Dry			
MAP-MW9	7/17/2013	13:59	Dry			
MAP-MW9	8/16/2013	6:50	Dry			
MAP-MW9	9/12/2013	15:22	Dry			
MAP-MW9	10/24/2013	8:07	Dry			
MAP-MW9	11/19/2013	15:22	Dry			
MAP-MW9	12/26/2013	15:32	Dry			
MAP-MW9	1/15/2014	15:24	Dry			
MAP-MW9	2/20/2014	11:40	Dry			
MAP-MW9	3/20/2014	11:19	Dry			
MAP-MW9	4/16/2014	11:02	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MAP-MW9	5/23/2014	12:36	Dry			
MAP-MW9	6/13/2014	9:26	Dry			
MAP-MW9	7/9/2014	15:36	Dry			
MAP-MW9	8/18/2014	16:05	Dry			
MAP-MW9	9/25/2014	13:55	Dry			
MAP-MW9	10/22/2014	14:40	Dry			
MAP-MW9	11/13/2014	15:04	Dry			
MAP-MW9	12/17/2014	12:48	Dry			
MAP-MW9	1/12/2015	12:11	Dry			
MAP-MW9	2/24/2015	15:02	Dry			
MAP-MW9	3/13/2015	7:51	Dry			
MAP-MW9	4/22/2015	7:58	Dry			
MAP-MW9	5/15/2015	11:26	Dry			
MAP-MW9	6/12/2015	8:19	Dry			
MAP-MW9	7/22/2015	9:40	Dry			
MAP-MW9	8/24/2015	15:52	Dry			
MAP-MW9	9/16/2015	9:21	Dry			
MAP-MW9	10/22/2015	8:50	Dry			
MAP-MW9	11/18/2015	10:20	Dry			
MAP-MW9	12/17/2015	14:35	Dry			
MAP-MW9	1/13/2016	7:23	Dry			
MAP-MW9	2/24/2016	12:15	Dry			
MAP-MW9	3/18/2016	12:09	Dry			
MAP-MW9	4/20/2016	9:38	Dry			
MAP-MW9	5/6/2016	11:06	Dry			
MAP-MW9	6/23/2016	13:15	Dry			
MAP-MW9	7/21/2016	9:03	Dry			
MAP-MW9	8/8/2016	15:43	Dry			
MAP-MW9	9/29/2016		Dry			
MAP-MW9	10/27/2016	9:19	Dry			
MAP-MW9	11/11/2016	7:40	Dry			
MAP-MW9	12/23/2016	10:00	Dry			
MAP-MW9	1/5/2017	11:36	Dry			
MAP-MW9	2/1/2017		N/M			
MAP-MW9	3/31/2017	12:28	Dry			
MAP-MW9	4/20/2017	14:37	Dry			
MAP-MW9	5/10/2017	15:50	Dry			
MAP-MW9	6/7/2017	8:36	Dry			
MAP-MW9	7/20/2017	6:52	Dry			
MAP-MW9	8/24/2017	7:46	Dry			
MAP-MW9	9/12/2017	10:25	Dry			
MAP-MW9	10/18/2017	7:22	Dry			
MAP-MW9	11/28/2017	9:55	Dry			
MAP-MW9	12/22/2017	12:11	Dry			
MAP-MW9	1/10/2018	14:51	Dry			
MAP-MW9	2/14/2018	10:24	Dry			
MAP-MW9	3/22/2018	14:15	Dry			
MAP-MW9	4/25/2018	15:52	Dry			
MAP-MW9	5/11/2018	7:10	Dry			
MAP-MW9	6/14/2018	6:58	Dry			
MAP-MW9	7/19/2018	16:13	Dry			
MAP-MW9	8/8/2018	7:43	Dry			
MAP-MW9	9/27/2018		N/M			
MAP-MW9	10/31/2018	9:05	Dry			
MAP-MW9	11/15/2018	14:20	Dry			
MAP-MW9	12/27/2018	13:08	Dry			
MAP-MW9	1/10/2019	12:13	Dry			
MAP-MW9	2/20/2019	12:30	Dry			
MAP-MW9	3/15/2019	10:40	Dry			
MAP-MW9	4/17/2019	11:34	Dry			
MAP-MW9	5/21/2019	12:10	Dry			
MAP-MW9	6/13/2019	9:17	Dry			
MAP-MW9	7/18/2019	12:12	Dry			
MAP-MW9	8/14/2019	14:33	Dry			
MAP-MW9	9/21/2019	11:07	Dry			
MAP-MW9	10/29/2019	14:24	Dry			
MAP-MW9	11/21/2019	13:18	Dry			
MAP-MW9	12/12/2019	15:30	Dry			
MAP-MW10	1/22/2013	16:45	87.22	157.43		
MAP-MW10	2/12/2013	15:08	87.74	156.91		
MAP-MW10	3/20/2013	8:12	88.16	156.49		
MAP-MW10	4/23/2013	14:28	88.91	155.74		
MAP-MW10	5/15/2013	7:19	89.66	154.99		
MAP-MW10	6/19/2013	15:30	90.54	154.11		
MAP-MW10	7/17/2013	13:52	93.69	150.96		
MAP-MW10	8/16/2013	6:40	91.90	152.75		
MAP-MW10	9/12/2013	15:29	92.15	152.50		
MAP-MW10	10/24/2013	8:13	92.22	152.43		
MAP-MW10	11/19/2013	15:30	94.98	149.67		
MAP-MW10	12/26/2013	15:22	92.15	152.50		
MAP-MW10	1/15/2014	15:18	92.14	152.51		
MAP-MW10	2/20/2014	11:45	92.65	152.00		
MAP-MW10	3/20/2014	11:12	92.87	151.78		
MAP-MW10	4/16/2014	10:49	93.15	151.50		
MAP-MW10	5/23/2014	12:44	93.51	151.14		
MAP-MW10	6/13/2014	9:35	93.80	150.85		
MAP-MW10	7/9/2014	15:25	94.01	150.64		
MAP-MW10	8/18/2014	16:11	94.28	150.37		
MAP-MW10	9/25/2014	14:05	94.11	150.54		
MAP-MW10	10/22/2014	14:45	91.66	152.99		
MAP-MW10	11/13/2014	15:11	94.13	150.52		
MAP-MW10	12/17/2014	12:57	94.19	150.46		
MAP-MW10	1/12/2015	12:18	94.06	150.59		
MAP-MW10	2/24/2015	15:13	94.35	150.30		
MAP-MW10	3/13/2015	8:07	94.49	150.16		
MAP-MW10	4/22/2015	8:12	94.79	149.86		
MAP-MW10	5/15/2015	11:34	95.00	149.65		
MAP-MW10	6/12/2015	8:26	95.07	149.58		
MAP-MW10	7/22/2015	9:55	95.21	149.44		
MAP-MW10	8/24/2015	16:08	95.17	149.48		
MAP-MW10	9/16/2015	9:29	95.21	149.44		
MAP-MW10	10/22/2015	9:00	95.05	149.60		
MAP-MW10	11/18/2015	10:25	94.55	150.10		
MAP-MW10	12/17/2015	14:40	99.39	145.26		
MAP-MW10	1/13/2016	7:29	94.36	150.29		
MAP-MW10	2/24/2016	12:20	94.38	150.27		
MAP-MW10	3/18/2016	12:19	94.51	150.14		
MAP-MW10	4/20/2016	10:00	94.69	149.96		
MAP-MW10	5/6/2016	11:13	95.31	149.34		
MAP-MW10	6/23/2016	13:06	95.62	149.03		
MAP-MW10	7/21/2016	8:57	95.85	148.80		
MAP-MW10	8/8/2016	15:49	95.83	148.82		
MAP-MW10	9/29/2016		94.99	149.66		
MAP-MW10	10/27/2016	9:32	94.39	150.26		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
MAP-MW10	11/11/2016	7:55	96.40	148.25		
MAP-MW10	12/23/2016	10:20	96.13	148.52		
MAP-MW10	1/5/2017	11:42	96.17	148.48		
MAP-MW10	2/1/2017		N/M			
MAP-MW10	3/31/2017	12:23	96.15	148.50		
MAP-MW10	4/20/2017	14:45	Dry			
MAP-MW10	5/10/2017	16:04	96.30	148.35		
MAP-MW10	6/7/2017	8:46	Dry			
MAP-MW10	7/20/2017	7:10	94.78	149.87		
MAP-MW10	8/24/2017	8:13	93.68	150.97		
MAP-MW10	9/12/2017	10:33	93.16	151.49		
MAP-MW10	10/18/2017	7:30	92.20	152.45		
MAP-MW10	11/28/2017	10:15	92.32	152.33		
MAP-MW10	12/22/2017	12:22	92.85	151.80		
MAP-MW10	1/10/2018	14:40	91.34	153.31		
MAP-MW10	2/14/2018	11:00	91.54	153.11		
MAP-MW10	3/22/2018	14:00	91.71	152.94		
MAP-MW10	4/25/2018	15:40	92.18	152.47		
MAP-MW10	5/11/2018	11:09	Q/M			
MAP-MW10	6/14/2018	7:12	98.66	145.99		
MAP-MW10	7/19/2018	16:01	92.71	151.94		
MAP-MW10	8/8/2018	7:49	92.16	152.49		
MAP-MW10	9/27/2018		N/M			
MAP-MW10	10/31/2018	8:55	89.89	154.76		
MAP-MW10	11/15/2018	14:32	Dry			
MAP-MW10	12/27/2018	13:15	89.91	154.74		
MAP-MW10	1/10/2019		N/M			
MAP-MW10	2/20/2019	12:37	90.80	153.85		
MAP-MW10	3/15/2019	10:45	91.26	153.39		
MAP-MW10	4/17/2019	11:29	91.83	152.82		
MAP-MW10	5/21/2019	12:20	91.92	152.73		
MAP-MW10	6/13/2019	9:07	91.98	152.67		
MAP-MW10	7/18/2019	12:19	91.23	153.42		
MAP-MW10	8/14/2019	14:25	90.30	154.35		
MAP-MW10	9/21/2019	11:14	88.82	155.83		
MAP-MW10	10/29/2019	14:17	92.49	152.16		
MAP-MW10	11/21/2019	13:30	87.68	156.97		
MAP-MW10	12/12/2019	15:46	87.75	156.90		
ZON-MW1A	1/22/2013	15:10	12.40	231.11		
ZON-MW1A	2/12/2013	14:31	10.62	232.89		
ZON-MW1A	3/20/2013	8:05	11.63	231.88		
ZON-MW1A	4/23/2013	13:00	10.33	233.18		
ZON-MW1A	5/15/2013	7:10	9.45	234.06		
ZON-MW1A	6/19/2013	15:50	9.27	234.24		
ZON-MW1A	7/17/2013	14:20	9.45	234.06		
ZON-MW1A	8/16/2013	8:40	8.83	234.68		
ZON-MW1A	9/12/2013	13:55	10.73	232.78		
ZON-MW1A	10/24/2013	7:39	8.96	234.55		
ZON-MW1A	11/19/2013	12:32	10.73	232.78		
ZON-MW1A	12/26/2013	14:14	12.45	231.06		
ZON-MW1A	1/15/2014	14:36	13.44	230.07		
ZON-MW1A	2/20/2014	11:27	11.21	232.30		
ZON-MW1A	3/20/2014	10:08	11.53	231.98		
ZON-MW1A	4/16/2014	9:47	9.41	234.10		
ZON-MW1A	5/23/2014	7:21	10.14	233.37		
ZON-MW1A	6/13/2014	8:34	9.98	233.53		
ZON-MW1A	7/9/2014	14:42	10.15	233.36		
ZON-MW1A	8/18/2014	12:34	10.19	233.32		
ZON-MW1A	9/25/2014	12:44	10.64	232.87		
ZON-MW1A	10/22/2014	14:55	12.64	230.87		
ZON-MW1A	11/13/2014	13:33	8.93	234.58		
ZON-MW1A	12/17/2014	11:55	8.67	234.84		
ZON-MW1A	1/12/2015	11:16	12.22	231.29		
ZON-MW1A	2/23/2015	13:20	14.10	229.41		
ZON-MW1A	3/13/2015	9:05	9.47	234.04		
ZON-MW1A	4/22/2015	9:11	8.63	234.88		
ZON-MW1A	5/15/2015	7:59	8.63	234.88		
ZON-MW1A	6/12/2015	7:31	8.70	234.81		
ZON-MW1A	7/22/2015	8:43	7.52	235.99		
ZON-MW1A	8/24/2015	12:16	8.36	235.15		
ZON-MW1A	9/16/2015	10:01	8.40	235.11		
ZON-MW1A	10/22/2015	9:40	Dry			
ZON-MW1A	11/18/2015	11:40	10.29	233.22		
ZON-MW1A	12/17/2015	15:25	11.24	232.27		
ZON-MW1A	1/13/2016	8:17	12.56	230.95		
ZON-MW1A	2/24/2016	8:39	12.66	230.85		
ZON-MW1A	3/18/2016	13:16	11.84	231.67		
ZON-MW1A	4/20/2016	8:38	11.99	231.52		
ZON-MW1A	5/6/2016	8:16	8.68	234.83		
ZON-MW1A	6/23/2016	11:52	8.92	234.59		
ZON-MW1A	7/21/2016	8:01	8.20	235.31		
ZON-MW1A	8/8/2016	13:24	10.04	233.47		
ZON-MW1A	9/29/2016	14:15	8.13	235.38		
ZON-MW1A	10/28/2016	9:28	13.01	230.50		
ZON-MW1A	11/10/2016	16:23	11.20	232.31		
ZON-MW1A	12/23/2016	11:21	11.71	231.80		
ZON-MW1A	1/5/2017	10:36	12.15	231.36		
ZON-MW1A	2/1/2017		N/M			
ZON-MW1A	3/31/2017	10:37	6.00	237.51		
ZON-MW1A	4/20/2017	13:25	8.91	234.60		
ZON-MW1A	5/11/2017	7:17	10.26	233.25		
ZON-MW1A	6/7/2017	10:43	13.87	229.64		
ZON-MW1A	7/20/2017	7:56	12.61	230.90		
ZON-MW1A	8/23/2017	8:30	7.92	235.59		
ZON-MW1A	9/13/2017	9:34	8.42	235.09		
ZON-MW1A	10/18/2017	8:30	9.44	234.07		
ZON-MW1A	11/28/2017	11:28	10.10	233.41		
ZON-MW1A	12/22/2017	12:00	10.02	233.49		
ZON-MW1A	1/10/2018	15:08	10.47	233.04		
ZON-MW1A	2/15/2018	9:25	10.02	233.49		
ZON-MW1A	3/22/2018	12:15	11.22	232.29		
ZON-MW1A	4/25/2018	14:37	13.67	229.84		
ZON-MW1A	5/11/2018	7:31	Dry			
ZON-MW1A	6/14/2018	7:40	12.96	230.55		
ZON-MW1A	7/19/2018	15:09	Dry			
ZON-MW1A	8/8/2018	9:55	9.70	233.81		
ZON-MW1A	9/27/2018	9:05	Dry			
ZON-MW1A	10/31/2018	9:40	9.90	233.61		
ZON-MW1A	11/28/2018	14:59	13.27	230.24		
ZON-MW1A	12/27/2018	13:30	10.74	232.77		
ZON-MW1A	1/10/2019	13:19	Dry			
ZON-MW1A	2/20/2019	13:26	9.10	234.41		
ZON-MW1A	3/15/2019	12:53	Dry			
ZON-MW1A	4/17/2019	11:52	10.50	233.01		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ZON-MW1A	5/21/2019	13:18	11.11	232.40		
ZON-MW1A	6/13/2019	9:50	11.84	231.67		
ZON-MW1A	7/18/2019	12:32	7.49	236.02		
ZON-MW1A	8/14/2019	15:39	10.15	233.36		
ZON-MW1A	9/21/2019	10:54	12.60	230.91		
ZON-MW1A	10/29/2019	15:12	8.63	234.88		
ZON-MW1A	11/21/2019	14:15	13.18	230.33		
ZON-MW1A	12/13/2019	7:41	13.95	229.56		
ZON-MW1B	1/22/2013	15:13	Dry			
ZON-MW1B	2/12/2013	14:35	Dry			
ZON-MW1B	3/20/2013	8:08	Dry			
ZON-MW1B	4/23/2013	13:08	Dry			
ZON-MW1B	5/15/2013	7:13	Dry			
ZON-MW1B	6/19/2013	15:55	Dry			
ZON-MW1B	7/17/2013	14:23	Dry			
ZON-MW1B	8/16/2013	8:42	Dry			
ZON-MW1B	9/12/2013	14:00	Dry			
ZON-MW1B	10/24/2013	7:42	Dry			
ZON-MW1B	11/19/2013	12:35	Dry			
ZON-MW1B	12/26/2013	14:17	Dry			
ZON-MW1B	1/15/2014	14:32	Dry			
ZON-MW1B	2/20/2014	11:29	Dry			
ZON-MW1B	3/20/2014	10:12	Dry			
ZON-MW1B	4/16/2014	9:51	Dry			
ZON-MW1B	5/23/2014	7:23	Dry			
ZON-MW1B	6/13/2014	8:37	Dry			
ZON-MW1B	7/9/2014	14:45	Dry			
ZON-MW1B	8/18/2014	12:36	Dry			
ZON-MW1B	9/25/2014	12:47	Dry			
ZON-MW1B	10/22/2014	14:58	Dry			
ZON-MW1B	11/13/2014	13:35	Dry			
ZON-MW1B	12/17/2014	11:57	Dry			
ZON-MW1B	1/12/2015	11:21	Dry			
ZON-MW1B	2/23/2015	13:23	Dry			
ZON-MW1B	3/13/2015	9:08	Dry			
ZON-MW1B	4/22/2015	9:14	Dry			
ZON-MW1B	5/15/2015	8:02	Dry			
ZON-MW1B	6/12/2015	7:34	Dry			
ZON-MW1B	7/22/2015	8:47	Dry			
ZON-MW1B	8/24/2015	12:19	Dry			
ZON-MW1B	9/16/2015	10:04	Dry			
ZON-MW1B	10/22/2015	9:45	Dry			
ZON-MW1B	11/18/2015	11:42	Dry			
ZON-MW1B	12/17/2015	15:28	Dry			
ZON-MW1B	1/13/2016	8:20	Dry			
ZON-MW1B	2/24/2016	8:42	Dry			
ZON-MW1B	3/18/2016	13:19	Dry			
ZON-MW1B	4/20/2016	8:41	Dry			
ZON-MW1B	5/6/2016	8:18	Dry			
ZON-MW1B	6/23/2016	11:56	Dry			
ZON-MW1B	7/21/2016	7:58	Dry			
ZON-MW1B	8/8/2016	13:26	Dry			
ZON-MW1B	9/29/2016	14:18	Dry			
ZON-MW1B	10/28/2016	9:30	Dry			
ZON-MW1B	11/10/2016	16:24	Dry			
ZON-MW1B	12/23/2016	11:23	Dry			
ZON-MW1B	1/5/2017	10:38	Dry			
ZON-MW1B	2/1/2017		N/M			
ZON-MW1B	3/31/2017	10:35	Dry			
ZON-MW1B	4/20/2017	13:21	Dry			
ZON-MW1B	5/11/2017	7:12	Dry			
ZON-MW1B	6/7/2017	10:45	Dry			
ZON-MW1B	7/20/2017	7:54	Dry			
ZON-MW1B	8/23/2017	8:35	Dry			
ZON-MW1B	9/13/2017	9:31	Dry			
ZON-MW1B	10/18/2017	8:33	Dry			
ZON-MW1B	11/28/2017	11:26	Dry			
ZON-MW1B	12/22/2017	12:03	Dry			
ZON-MW1B	1/10/2018	15:10	Dry			
ZON-MW1B	2/15/2018	9:05	Dry			
ZON-MW1B	3/22/2018	12:20	Dry			
ZON-MW1B	4/25/2018	14:38	Dry			
ZON-MW1B	5/11/2018	7:33	Dry			
ZON-MW1B	6/14/2018	7:42	Dry			
ZON-MW1B	7/19/2018	15:08	Dry			
ZON-MW1B	8/8/2018	9:57	Dry			
ZON-MW1B	9/27/2018	9:08	Dry			
ZON-MW1B	10/31/2018	9:41	Dry			
ZON-MW1B	11/28/2018	15:00	Dry			
ZON-MW1B	12/27/2018	13:31	Dry			
ZON-MW1B	1/10/2019	13:18	Dry			
ZON-MW1B	2/20/2019	13:29	Dry			
ZON-MW1B	3/15/2019	12:54	Dry			
ZON-MW1B	4/17/2019	11:53	Dry			
ZON-MW1B	5/21/2019	13:19	Dry			
ZON-MW1B	6/13/2019	9:48	Dry			
ZON-MW1B	7/18/2019	12:34	Dry			
ZON-MW1B	8/14/2019	15:42	Dry			
ZON-MW1B	9/21/2019	10:51	Dry			
ZON-MW1B	10/29/2019	15:13	Dry			
ZON-MW1B	11/21/2019	14:14	Dry			
ZON-MW1B	12/13/2019	7:43	Dry			
ZON-MW1C	1/22/2013	15:16	103.60	140.01		
ZON-MW1C	2/12/2013	14:39	103.68	139.93		
ZON-MW1C	3/20/2013	8:12	103.72	139.89		
ZON-MW1C	4/23/2013	13:11	103.63	139.98		
ZON-MW1C	5/15/2013	7:16	103.82	139.79		
ZON-MW1C	6/19/2013	16:00	103.77	139.84		
ZON-MW1C	7/17/2013	14:27	106.67	136.94		
ZON-MW1C	8/16/2013	8:45	103.94	139.67		
ZON-MW1C	9/12/2013	14:04	103.80	139.81		
ZON-MW1C	10/24/2013	7:45	103.85	139.76		
ZON-MW1C	11/19/2013	12:38	103.49	140.12		
ZON-MW1C	12/26/2013	14:20	103.69	139.92		
ZON-MW1C	1/15/2014	14:40	Dry			
ZON-MW1C	2/20/2014	11:31	Dry			
ZON-MW1C	3/20/2014	10:16	103.79	139.82		
ZON-MW1C	4/16/2014	9:54	103.77	139.84		
ZON-MW1C	5/23/2014	7:26	103.88	139.73		
ZON-MW1C	6/13/2014	8:40	103.93	139.68		
ZON-MW1C	7/9/2014	14:48	103.92	139.69		
ZON-MW1C	8/18/2014	12:39	103.95	139.66		
ZON-MW1C	9/25/2014	12:50	103.98	139.63		
ZON-MW1C	10/22/2014	15:01	104.04	139.57		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ZON-MW1C	11/13/2014	13:38	103.14	140.47		
ZON-MW1C	12/17/2014	11:59	102.98	140.63		
ZON-MW1C	1/12/2015	11:25	Dry			
ZON-MW1C	2/23/2015	13:25	Dry			
ZON-MW1C	3/13/2015	9:12	Dry			
ZON-MW1C	4/22/2015	9:16	Dry			
ZON-MW1C	5/15/2015	8:05	Dry			
ZON-MW1C	6/12/2015	7:37	Dry			
ZON-MW1C	7/22/2015	8:51	Dry			
ZON-MW1C	8/24/2015	12:22	Dry			
ZON-MW1C	9/16/2015	10:07	Dry			
ZON-MW1C	10/22/2015	9:50	Dry			
ZON-MW1C	11/18/2015	11:44	Dry			
ZON-MW1C	12/17/2015	15:31	Dry			
ZON-MW1C	1/13/2016	8:23	Dry			
ZON-MW1C	2/24/2016	8:45	Dry			
ZON-MW1C	3/18/2016	13:21	Dry			
ZON-MW1C	4/20/2016	8:44	Dry			
ZON-MW1C	5/6/2016	8:20	Dry			
ZON-MW1C	6/23/2016	11:59	Dry			
ZON-MW1C	7/21/2016	7:55	Dry			
ZON-MW1C	8/8/2016	13:28	Dry			
ZON-MW1C	9/29/2016	14:22	Dry			
ZON-MW1C	10/28/2016	9:32	Dry			
ZON-MW1C	11/10/2016	16:25	Dry			
ZON-MW1C	12/23/2016	11:25	Dry			
ZON-MW1C	1/5/2017	10:42	Dry			
ZON-MW1C	2/1/2017		N/M			
ZON-MW1C	3/31/2017	10:34	Dry			
ZON-MW1C	4/20/2017	13:17	Dry			
ZON-MW1C	5/11/2017	7:23	Dry			
ZON-MW1C	6/7/2017	10:47	Dry			
ZON-MW1C	7/20/2017	7:50	Dry			
ZON-MW1C	8/23/2017	8:40	Dry			
ZON-MW1C	9/13/2017	9:28	Dry			
ZON-MW1C	10/18/2017	8:36	Dry			
ZON-MW1C	11/28/2017	11:24	Dry			
ZON-MW1C	12/22/2017	12:01	Dry			
ZON-MW1C	1/10/2018	15:12	Dry			
ZON-MW1C	2/15/2018	9:15	Dry			
ZON-MW1C	3/22/2018	12:25	Dry			
ZON-MW1C	4/25/2018	14:39	Dry			
ZON-MW1C	5/11/2018	7:35	Dry			
ZON-MW1C	6/14/2018	7:44	Dry			
ZON-MW1C	7/19/2018	15:07	Dry			
ZON-MW1C	8/8/2018	9:59	Dry			
ZON-MW1C	9/27/2018	9:11	Dry			
ZON-MW1C	10/31/2018	9:42	Q/M			
ZON-MW1C	11/28/2018	15:01	Dry			
ZON-MW1C	12/27/2018	13:32	Dry			
ZON-MW1C	1/10/2019	13:17	Dry			
ZON-MW1C	2/20/2019	13:32	Dry			
ZON-MW1C	3/15/2019	12:55	Dry			
ZON-MW1C	4/17/2019	11:54	Dry			
ZON-MW1C	5/21/2019	13:20	Dry			
ZON-MW1C	6/13/2019	9:47	Dry			
ZON-MW1C	7/18/2019	12:36	Dry			
ZON-MW1C	8/14/2019	15:45	Dry			
ZON-MW1C	9/21/2019	10:44	Dry			
ZON-MW1C	10/29/2019	15:14	101.27	142.34		
ZON-MW1C	11/21/2019	14:13	Dry			
ZON-MW1C	12/13/2019	7:45	Dry			
ZON-MW2A	1/22/2013	16:03	Dry			
ZON-MW2A	2/12/2013	15:21	92.78	151.79		
ZON-MW2A	3/20/2013	9:15	92.91	151.66		
ZON-MW2A	4/23/2013	13:45	93.12	151.45		
ZON-MW2A	5/15/2013	6:49	93.49	151.08		
ZON-MW2A	6/19/2013	15:25	Dry			
ZON-MW2A	7/17/2013	13:41	Dry			
ZON-MW2A	8/16/2013	9:00	97.81	146.76		
ZON-MW2A	9/12/2013	14:52	Dry			
ZON-MW2A	10/24/2013	7:25	Dry			
ZON-MW2A	11/19/2013	13:05	98.50	146.07		
ZON-MW2A	12/26/2013	15:05	93.67	150.90		
ZON-MW2A	1/15/2014	15:06	93.70	150.87		
ZON-MW2A	2/20/2014	12:01	93.98	150.59		
ZON-MW2A	3/20/2014	10:29	94.10	150.47		
ZON-MW2A	4/16/2014	10:16	94.11	150.46		
ZON-MW2A	5/23/2014	8:01	96.11	148.46		
ZON-MW2A	6/13/2014	8:56	94.04	150.53		
ZON-MW2A	7/9/2014	15:12	94.09	150.48		
ZON-MW2A	8/18/2014	11:55	96.11	148.46		
ZON-MW2A	9/25/2014	13:30	95.31	149.26		
ZON-MW2A	10/22/2014	14:28	N/M			
ZON-MW2A	11/13/2014	13:20	N/M			
ZON-MW2A	12/17/2014	12:26	N/M			
ZON-MW2A	1/12/2015	11:42	N/M			
ZON-MW2A	2/23/2015	12:36	Dry			
ZON-MW2A	3/13/2015	8:48	Dry			
ZON-MW2A	4/22/2015	8:48	Dry			
ZON-MW2A	5/15/2015	8:38	Dry			
ZON-MW2A	6/12/2015	7:47	Dry			
ZON-MW2A	7/22/2015	9:08	Dry			
ZON-MW2A	8/24/2015	11:28	Dry			
ZON-MW2A	9/16/2015	8:45	Dry			
ZON-MW2A	10/22/2015	9:05	Dry			
ZON-MW2A	11/18/2015	11:29	Dry			
ZON-MW2A	12/17/2015	14:50	Dry			
ZON-MW2A	1/13/2016	7:40	Dry			
ZON-MW2A	2/24/2016	8:10	Dry			
ZON-MW2A	3/18/2016	12:53	Dry			
ZON-MW2A	4/20/2016	9:06	Dry			
ZON-MW2A	5/6/2016	8:30	Dry			
ZON-MW2A	6/23/2016	12:52	Dry			
ZON-MW2A	7/21/2016	8:42	Dry			
ZON-MW2A	8/8/2016	12:42	Dry			
ZON-MW2A	9/29/2016	14:30	Dry			
ZON-MW2A	10/28/2016	9:10	Dry			
ZON-MW2A	11/10/2016	16:42	Dry			
ZON-MW2A	12/23/2016	10:55	Dry			
ZON-MW2A	1/5/2017	11:25	Dry			
ZON-MW2A	2/1/2017		N/M			
ZON-MW2A	3/31/2017	10:11	Dry			
ZON-MW2A	4/20/2017	14:11	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ZON-MW2A	5/11/2017	7:42	Dry			
ZON-MW2A	6/7/2017	9:59	Dry			
ZON-MW2A	7/20/2017	8:36	Dry			
ZON-MW2A	8/23/2017	9:55	Dry			
ZON-MW2A	9/13/2017	9:52	Dry			
ZON-MW2A	10/18/2017	7:40	Dry			
ZON-MW2A	11/28/2017	11:10	Dry			
ZON-MW2A	12/22/2017	11:35	Dry			
ZON-MW2A	1/10/2018	15:40	Dry			
ZON-MW2A	2/15/2018	10:20	Dry			
ZON-MW2A	3/22/2018	13:40	Dry			
ZON-MW2A	4/25/2018	15:23	Dry			
ZON-MW2A	5/11/2018	7:37	Dry			
ZON-MW2A	6/14/2018	8:25	Dry			
ZON-MW2A	7/19/2018	15:53	Dry			
ZON-MW2A	8/8/2018	9:10	Dry			
ZON-MW2A	9/27/2018		N/M			
ZON-MW2A	10/31/2018	9:15	Dry			
ZON-MW2A	11/28/2018	14:38	Dry			
ZON-MW2A	12/27/2018	14:04	Dry			
ZON-MW2A	1/10/2019	12:33	Dry			
ZON-MW2A	2/20/2019	12:30	Dry			
ZON-MW2A	3/15/2019	12:10	Dry			
ZON-MW2A	4/17/2019	12:33	Dry			
ZON-MW2A	5/21/2019	14:02	Dry			
ZON-MW2A	6/13/2019	9:23	Dry			
ZON-MW2A	7/18/2019	13:20	Dry			
ZON-MW2A	8/14/2019	16:29	Dry			
ZON-MW2A	9/21/2019	10:27	Dry			
ZON-MW2A	10/29/2019	14:30	Dry			
ZON-MW2A	11/21/2019	14:46	Dry			
ZON-MW2A	12/13/2019	7:13	Dry			
ZON-MW2B	1/22/2013	16:06	100.45	143.95		
ZON-MW2B	2/12/2013	15:25	101.84	142.56		
ZON-MW2B	3/20/2013	9:12	103.91	140.49		
ZON-MW2B	4/23/2013	13:48	108.01	136.39		
ZON-MW2B	5/15/2013	6:52	110.14	134.26		
ZON-MW2B	6/19/2013	15:29	112.43	131.97		
ZON-MW2B	7/17/2013	13:45	116.71	127.69		
ZON-MW2B	8/16/2013	9:05	116.23	128.17		
ZON-MW2B	9/12/2013	14:55	117.08	127.32		
ZON-MW2B	10/24/2013	7:29	117.85	126.55		
ZON-MW2B	11/19/2013	13:08	117.61	126.79		
ZON-MW2B	12/26/2013	15:09	116.90	127.50		
ZON-MW2B	1/15/2014	15:03	116.92	127.48		
ZON-MW2B	2/20/2014	12:03	117.10	127.30		
ZON-MW2B	3/20/2014	10:32	117.38	127.02		
ZON-MW2B	4/16/2014	10:19	118.06	126.34		
ZON-MW2B	5/23/2014	8:04	119.64	124.76		
ZON-MW2B	6/13/2014	8:59	120.88	123.52		
ZON-MW2B	7/9/2014	15:16	122.66	121.74		
ZON-MW2B	8/18/2014	11:58	123.76	120.64		
ZON-MW2B	9/25/2014	13:33	125.57	118.83		
ZON-MW2B	10/22/2014	14:28	N/M			
ZON-MW2B	11/13/2014	13:20	N/M			
ZON-MW2B	12/17/2014	12:13	N/M			
ZON-MW2B	1/12/2015	11:42	N/M			
ZON-MW2B	2/23/2015	12:38	124.63	119.77		
ZON-MW2B	3/13/2015	8:51	Dry			
ZON-MW2B	4/22/2015	8:50	Dry			
ZON-MW2B	5/15/2015	8:41	Dry			
ZON-MW2B	6/12/2015	7:50	Dry			
ZON-MW2B	7/22/2015	9:12	Dry			
ZON-MW2B	8/24/2015	11:31	Dry			
ZON-MW2B	9/16/2015	8:48	Dry			
ZON-MW2B	10/22/2015	9:10	Dry			
ZON-MW2B	11/18/2015	11:30	Dry			
ZON-MW2B	12/17/2015	14:53	Dry			
ZON-MW2B	1/13/2016	7:43	Dry			
ZON-MW2B	2/24/2016	8:13	Dry			
ZON-MW2B	3/18/2016	12:54	Dry			
ZON-MW2B	4/20/2016	9:09	Dry			
ZON-MW2B	5/6/2016	8:28	Dry			
ZON-MW2B	6/23/2016	12:55	Dry			
ZON-MW2B	7/21/2016	8:45	Dry			
ZON-MW2B	8/8/2016	12:45	Dry			
ZON-MW2B	9/29/2016	14:33	Dry			
ZON-MW2B	10/28/2016	9:13	Dry			
ZON-MW2B	11/10/2016	16:43	Dry			
ZON-MW2B	12/23/2016	10:56	Dry			
ZON-MW2B	1/5/2017	11:29	Dry			
ZON-MW2B	2/1/2017		N/M			
ZON-MW2B	3/31/2017	10:15	126.56	117.84		
ZON-MW2B	4/20/2017	14:15	125.97	118.43		
ZON-MW2B	5/11/2017	7:38	127.42	116.98		
ZON-MW2B	6/7/2017	10:02	Dry			
ZON-MW2B	7/20/2017	8:40	127.18	117.22		
ZON-MW2B	8/23/2017	10:00	126.14	118.26		
ZON-MW2B	9/13/2017	9:55	122.94	121.46		
ZON-MW2B	10/18/2017	7:43	116.15	128.25		
ZON-MW2B	11/28/2017	11:06	117.86	126.54		
ZON-MW2B	12/22/2017	11:33	116.43	127.97		
ZON-MW2B	1/10/2018	15:42	117.22	127.18		
ZON-MW2B	2/15/2018	10:30	107.90	136.50		
ZON-MW2B	3/22/2018	13:45	108.42	135.98		
ZON-MW2B	4/25/2018	15:22	109.91	134.49		
ZON-MW2B	5/11/2018	7:40	110.90	133.50		
ZON-MW2B	6/14/2018	8:27	112.83	131.57		
ZON-MW2B	7/19/2018	15:52	114.60	129.80		
ZON-MW2B	8/8/2018	9:11	115.89	128.51		
ZON-MW2B	9/27/2018		N/M			
ZON-MW2B	10/31/2018	9:16	118.20	126.20		
ZON-MW2B	11/28/2018	14:40	114.60	129.80		
ZON-MW2B	12/27/2018	14:05	118.28	126.12		
ZON-MW2B	1/10/2019	12:34	118.60	125.80		
ZON-MW2B	2/20/2019	12:31	118.60	125.80		
ZON-MW2B	3/15/2019	12:11	118.46	125.94		
ZON-MW2B	4/17/2019	12:34	119.54	124.86		
ZON-MW2B	5/21/2019	14:01	120.60	123.80		
ZON-MW2B	6/13/2019	9:24	121.06	123.34		
ZON-MW2B	7/18/2019	13:22	121.45	122.95		
ZON-MW2B	8/14/2019	16:30	120.85	123.55		
ZON-MW2B	9/21/2019	10:30	118.60	125.80		
ZON-MW2B	10/29/2019	14:32	116.02	128.38		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ZON-MW2B	11/21/2019	14:47	114.19	130.21		
ZON-MW2B	12/13/2019	7:16	113.00	131.40		
ZON-MW3A	1/22/2013	16:11	96.63	148.96		
ZON-MW3A	2/12/2013	15:37	97.28	148.31		
ZON-MW3A	3/20/2013	9:49	Dry			
ZON-MW3A	4/23/2013	13:27	97.36	148.23		
ZON-MW3A	5/15/2013	7:30	Dry			
ZON-MW3A	6/19/2013	15:15	Dry			
ZON-MW3A	7/17/2013	13:23	Dry			
ZON-MW3A	8/16/2013	9:02	Dry			
ZON-MW3A	9/12/2013	14:29	Dry			
ZON-MW3A	10/24/2013	7:15	Dry			
ZON-MW3A	11/19/2013	12:57	Dry			
ZON-MW3A	12/26/2013	14:47	Dry			
ZON-MW3A	1/15/2014	14:50	Dry			
ZON-MW3A	2/20/2014	11:54	Dry			
ZON-MW3A	3/20/2014	10:52	Dry			
ZON-MW3A	4/16/2014	10:32	Dry			
ZON-MW3A	5/23/2014	7:46	Dry			
ZON-MW3A	6/13/2014	9:00	Dry			
ZON-MW3A	7/9/2014	15:05	Dry			
ZON-MW3A	8/18/2014	12:09	Dry			
ZON-MW3A	9/25/2014	13:23	Dry			
ZON-MW3A	10/22/2014	14:18	Dry			
ZON-MW3A	11/13/2014	13:46	Dry			
ZON-MW3A	12/17/2014	12:15	Dry			
ZON-MW3A	1/12/2015	11:46	Dry			
ZON-MW3A	2/23/2015	12:52	Dry			
ZON-MW3A	3/13/2015	8:38	Dry			
ZON-MW3A	4/22/2015	8:38	Dry			
ZON-MW3A	5/15/2015	8:29	Dry			
ZON-MW3A	6/12/2015	7:58	Dry			
ZON-MW3A	7/22/2015	9:26	Dry			
ZON-MW3A	8/24/2015	11:39	Dry			
ZON-MW3A	9/16/2015	9:06	Dry			
ZON-MW3A	10/22/2015	9:20	Dry			
ZON-MW3A	11/18/2015	11:22	Dry			
ZON-MW3A	12/17/2015	15:06	Dry			
ZON-MW3A	1/13/2016	8:04	Dry			
ZON-MW3A	2/24/2016	8:18	Dry			
ZON-MW3A	3/18/2016	12:46	Dry			
ZON-MW3A	4/20/2016	9:25	Dry			
ZON-MW3A	5/6/2016	7:52	Dry			
ZON-MW3A	6/23/2016	12:39	Dry			
ZON-MW3A	7/21/2016	8:32	Dry			
ZON-MW3A	8/8/2016	12:49	Dry			
ZON-MW3A	9/29/2016	14:40	Dry			
ZON-MW3A	10/28/2016	9:04	Dry			
ZON-MW3A	11/10/2016	16:38	Dry			
ZON-MW3A	12/23/2016	10:36	Dry			
ZON-MW3A	1/5/2017	11:00	Dry			
ZON-MW3A	2/1/2017		N/M			
ZON-MW3A	3/31/2017	10:05	Dry			
ZON-MW3A	4/20/2017	14:00	Dry			
ZON-MW3A	5/11/2017	7:30	Dry			
ZON-MW3A	6/7/2017	10:27	Dry			
ZON-MW3A	7/20/2017	8:25	Dry			
ZON-MW3A	8/23/2017	9:40	Dry			
ZON-MW3A	9/13/2017	10:13	Dry			
ZON-MW3A	10/18/2017	8:07	Dry			
ZON-MW3A	11/28/2017	10:49	Dry			
ZON-MW3A	12/22/2017	11:16	Dry			
ZON-MW3A	1/10/2018	15:46	Dry			
ZON-MW3A	2/15/2018	10:40	Dry			
ZON-MW3A	3/22/2018	13:20	Dry			
ZON-MW3A	4/25/2018	15:14	Dry			
ZON-MW3A	5/11/2018	7:15	Dry			
ZON-MW3A	6/14/2018	8:18	Dry			
ZON-MW3A	7/19/2018	15:39	Dry			
ZON-MW3A	8/8/2018	9:18	Dry			
ZON-MW3A	9/27/2018		N/M			
ZON-MW3A	10/31/2018	9:21	Dry			
ZON-MW3A	11/28/2018	14:21	Dry			
ZON-MW3A	12/27/2018	13:57	Dry			
ZON-MW3A	1/10/2019	12:47	Dry			
ZON-MW3A	2/20/2019	12:45	Dry			
ZON-MW3A	3/15/2019	12:18	Dry			
ZON-MW3A	4/17/2019	12:17	Dry			
ZON-MW3A	5/21/2019	13:45	Dry			
ZON-MW3A	6/13/2019	9:28	Dry			
ZON-MW3A	7/18/2019	13:28	Dry			
ZON-MW3A	8/14/2019	16:20	Dry			
ZON-MW3A	9/21/2019	10:19	Dry			
ZON-MW3A	10/29/2019	14:50	Dry			
ZON-MW3A	11/21/2019	14:32	Dry			
ZON-MW3A	12/13/2019	7:26	Dry			
ZON-MW3B	1/22/2013	16:16	106.05	139.43		
ZON-MW3B	2/12/2013	15:45	107.40	138.08		
ZON-MW3B	3/20/2013	9:42	102.64	142.84		
ZON-MW3B	4/23/2013	13:30	116.37	129.11		
ZON-MW3B	5/15/2013	7:42	108.53	136.95		
ZON-MW3B	6/19/2013	15:19	110.07	135.41		
ZON-MW3B	7/17/2013	13:27	113.29	132.19		
ZON-MW3B	8/16/2013	9:06	114.28	131.20		
ZON-MW3B	9/12/2013	14:32	113.06	132.42		
ZON-MW3B	10/24/2013	7:18	117.75	127.73		
ZON-MW3B	11/19/2013	13:00	111.86	133.62		
ZON-MW3B	12/26/2013	14:51	112.94	132.54		
ZON-MW3B	1/15/2014	14:54	113.94	131.54		
ZON-MW3B	2/20/2014	11:56	115.35	130.13		
ZON-MW3B	3/20/2014	10:54	116.24	129.24		
ZON-MW3B	4/16/2014	10:35	117.47	128.01		
ZON-MW3B	5/23/2014	7:50	119.45	126.03		
ZON-MW3B	6/13/2014	9:04	120.38	125.10		
ZON-MW3B	7/9/2014	15:08	122.43	123.05		
ZON-MW3B	8/18/2014	12:12	122.20	123.28		
ZON-MW3B	9/25/2014	13:20	120.78	124.70		
ZON-MW3B	10/22/2014	14:21	120.22	125.26		
ZON-MW3B	11/13/2014	13:48	120.17	125.31		
ZON-MW3B	12/17/2014	12:05	120.61	124.87		
ZON-MW3B	1/12/2015	11:49	120.78	124.70		
ZON-MW3B	2/23/2015	12:55	121.55	123.93		
ZON-MW3B	3/13/2015	8:40	122.13	123.35		
ZON-MW3B	4/22/2015	8:41	123.36	122.12		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ZON-MW3B	5/15/2015	8:32	124.02	121.46		
ZON-MW3B	6/12/2015	8:01	124.34	121.14		
ZON-MW3B	7/22/2015	9:31	124.69	120.79		
ZON-MW3B	8/24/2015	11:42	124.22	121.26		
ZON-MW3B	9/16/2015	9:09	122.30	123.18		
ZON-MW3B	10/22/2015	9:25	119.89	125.59		
ZON-MW3B	11/18/2015	11:24	119.74	125.74		
ZON-MW3B	12/17/2015	15:09	120.30	125.18		
ZON-MW3B	1/13/2016	8:09	117.89	127.59		
ZON-MW3B	2/24/2016	8:21	122.11	123.37		
ZON-MW3B	3/18/2016	12:49	122.58	122.90		
ZON-MW3B	4/20/2016	9:28	122.80	122.68		
ZON-MW3B	5/6/2016	7:54	124.69	120.79		
ZON-MW3B	6/23/2016	12:42	126.01	119.47		
ZON-MW3B	7/21/2016	8:35	126.66	118.82		
ZON-MW3B	8/8/2016	12:52	126.82	118.66		
ZON-MW3B	9/29/2016	14:45	123.77	121.71		
ZON-MW3B	10/28/2016	9:06	122.41	123.07		
ZON-MW3B	11/10/2016	16:37	122.14	123.34		
ZON-MW3B	12/23/2016	10:38	122.30	123.18		
ZON-MW3B	1/5/2017	11:04	122.78	122.70		
ZON-MW3B	2/1/2017		N/M			
ZON-MW3B	3/31/2017	10:07	124.72	120.76		
ZON-MW3B	4/20/2017	14:05	125.31	120.17		
ZON-MW3B	5/11/2017	7:26	126.08	119.40		
ZON-MW3B	6/7/2017	10:29	Dry			
ZON-MW3B	7/20/2017	8:27	127.40	118.08		
ZON-MW3B	8/23/2017	9:45	126.72	118.76		
ZON-MW3B	9/13/2017	10:15	125.24	120.24		
ZON-MW3B	10/18/2017	8:10	122.19	123.29		
ZON-MW3B	11/28/2017	10:54	123.16	122.32		
ZON-MW3B	12/22/2017	11:18	123.16	122.32		
ZON-MW3B	1/10/2018	15:48	107.88	137.60		
ZON-MW3B	2/15/2018	10:50	117.50	127.98		
ZON-MW3B	3/22/2018	13:25	118.05	127.43		
ZON-MW3B	4/25/2018	15:15	119.00	126.48		
ZON-MW3B	5/11/2018	7:17	119.58	125.90		
ZON-MW3B	6/14/2018	8:15	122.16	123.32		
ZON-MW3B	7/19/2018	15:38	121.28	124.20		
ZON-MW3B	8/8/2018	9:19	121.67	123.81		
ZON-MW3B	9/27/2018		N/M			
ZON-MW3B	10/31/2018	9:22	117.16	128.32		
ZON-MW3B	11/28/2018	14:19	123.37	122.11		
ZON-MW3B	12/27/2018	13:58	116.90	128.58		
ZON-MW3B	1/10/2019	12:48	117.43	128.05		
ZON-MW3B	2/20/2019	12:46	118.42	127.06		
ZON-MW3B	3/15/2019	12:17	125.42	120.06		
ZON-MW3B	4/17/2019	12:18	120.86	124.62		
ZON-MW3B	5/21/2019	13:46	121.78	123.70		
ZON-MW3B	6/13/2019	9:29	Dry			
ZON-MW3B	7/18/2019	13:30	Dry			
ZON-MW3B	8/14/2019	16:23	122.61	122.87		
ZON-MW3B	9/21/2019	10:21	121.08	124.40		
ZON-MW3B	10/29/2019	14:51	Dry			
ZON-MW3B	11/21/2019	14:33	116.79	128.69		
ZON-MW3B	12/13/2019	7:28	Dry			
ZON-MW4A	1/22/2013	15:45	Dry			
ZON-MW4A	2/12/2013	16:01	Dry			
ZON-MW4A	3/20/2013	8:52	Dry			
ZON-MW4A	4/23/2013	13:18	Dry			
ZON-MW4A	5/15/2013	7:01	Dry			
ZON-MW4A	6/19/2013	14:45	Dry			
ZON-MW4A	7/17/2013	13:15	Dry			
ZON-MW4A	8/16/2013	8:50	Dry			
ZON-MW4A	9/12/2013	14:20	Dry			
ZON-MW4A	10/24/2013	6:50	Dry			
ZON-MW4A	11/19/2013	12:43	Dry			
ZON-MW4A	12/26/2013	14:35	Dry			
ZON-MW4A	1/15/2014	14:18	Dry			
ZON-MW4A	2/20/2014	11:40	Dry			
ZON-MW4A	3/20/2014	10:36	Dry			
ZON-MW4A	4/16/2014	10:07	Dry			
ZON-MW4A	5/23/2014	7:37	Dry			
ZON-MW4A	6/13/2014	8:48	Dry			
ZON-MW4A	7/9/2014	14:26	Dry			
ZON-MW4A	8/18/2014	11:33	Dry			
ZON-MW4A	9/25/2014	13:05	Dry			
ZON-MW4A	10/22/2014	14:02	Dry			
ZON-MW4A	11/13/2014	13:27	Dry			
ZON-MW4A	12/17/2014	12:07	Dry			
ZON-MW4A	1/12/2015	11:32	Dry			
ZON-MW4A	2/23/2015	13:04	Dry			
ZON-MW4A	3/13/2015	8:21	Dry			
ZON-MW4A	4/22/2015	8:23	Dry			
ZON-MW4A	5/15/2015	8:15	Dry			
ZON-MW4A	6/12/2015	7:40	Dry			
ZON-MW4A	7/22/2015	9:00	Dry			
ZON-MW4A	8/24/2015	11:56	Dry			
ZON-MW4A	9/16/2015	9:41	Dry			
ZON-MW4A	10/22/2015	9:40	Dry			
ZON-MW4A	11/18/2015	11:12	Dry			
ZON-MW4A	12/17/2015	15:14	Dry			
ZON-MW4A	1/13/2016	7:48	Dry			
ZON-MW4A	2/24/2016	8:00	Dry			
ZON-MW4A	3/18/2016	13:00	Dry			
ZON-MW4A	4/20/2016	8:54	Dry			
ZON-MW4A	5/6/2016	7:32	Dry			
ZON-MW4A	6/23/2016	12:12	Dry			
ZON-MW4A	7/21/2016	8:13	Dry			
ZON-MW4A	8/8/2016	13:05	Dry			
ZON-MW4A	9/29/2016	14:55	Dry			
ZON-MW4A	10/28/2016	8:48	Dry			
ZON-MW4A	11/10/2016	16:29	Dry			
ZON-MW4A	12/23/2016	11:03	Dry			
ZON-MW4A	1/5/2017	11:00	Dry			
ZON-MW4A	2/1/2017		N/M			
ZON-MW4A	3/31/2017	9:51	Dry			
ZON-MW4A	4/20/2017	13:35	Dry			
ZON-MW4A	5/11/2017	7:36	Dry			
ZON-MW4A	6/7/2017	9:43	Dry			
ZON-MW4A	7/20/2017	7:30	Dry			
ZON-MW4A	8/23/2017	9:05	Dry			
ZON-MW4A	9/13/2017	9:44	Dry			
ZON-MW4A	10/18/2017	8:18	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ZON-MW4A	11/28/2017	10:28	Dry			
ZON-MW4A	12/22/2017	11:40	Dry			
ZON-MW4A	1/10/2018	15:27	Dry			
ZON-MW4A	2/15/2018	9:40	Dry			
ZON-MW4A	3/22/2018	12:50	Dry			
ZON-MW4A	4/25/2018	14:59	Dry			
ZON-MW4A	5/11/2018	7:05	Dry			
ZON-MW4A	6/14/2018	7:55	Dry			
ZON-MW4A	7/19/2018	15:28	Dry			
ZON-MW4A	8/8/2018	9:38	Dry			
ZON-MW4A	9/27/2018		N/M			
ZON-MW4A	10/31/2018	9:32	Dry			
ZON-MW4A	11/28/2018	14:49	Dry			
ZON-MW4A	12/27/2018	13:55	Dry			
ZON-MW4A	1/10/2019	12:56	Dry			
ZON-MW4A	2/20/2019	13:07	Dry			
ZON-MW4A	3/15/2019	12:30	Dry			
ZON-MW4A	4/17/2019	12:48	Dry			
ZON-MW4A	5/21/2019	13:34	Dry			
ZON-MW4A	6/13/2019	9:38	Dry			
ZON-MW4A	7/18/2019	12:53	Dry			
ZON-MW4A	8/14/2019	16:00	Dry			
ZON-MW4A	9/21/2019	10:00	Dry			
ZON-MW4A	10/29/2019	14:58	Dry			
ZON-MW4A	11/21/2019	14:20	Dry			
ZON-MW4A	12/13/2019	7:31	Dry			
ZON-MW4B	1/22/2013	15:50	109.41	135.59		
ZON-MW4B	2/12/2013	16:05	111.62	133.38		
ZON-MW4B	3/20/2013	8:55	112.48	132.52		
ZON-MW4B	4/23/2013	13:21	118.20	126.80		
ZON-MW4B	5/15/2013	7:10	118.97	126.03		
ZON-MW4B	6/19/2013	14:50	121.75	123.25		
ZON-MW4B	7/17/2013	13:18	125.50	119.50		
ZON-MW4B	8/16/2013	8:55	127.74	117.26		
ZON-MW4B	9/12/2013	14:23	126.87	118.13		
ZON-MW4B	10/24/2013	6:55	125.93	119.07		
ZON-MW4B	11/19/2013	12:45	124.48	120.52		
ZON-MW4B	12/26/2013	14:38	123.41	121.59		
ZON-MW4B	1/15/2014	14:20	124.39	120.61		
ZON-MW4B	2/20/2014	11:43	123.88	121.12		
ZON-MW4B	3/20/2014	10:39	124.34	120.66		
ZON-MW4B	4/16/2014	10:10	126.06	118.94		
ZON-MW4B	5/23/2014	7:39	129.35	115.65		
ZON-MW4B	6/13/2014	8:51	130.44	114.56		
ZON-MW4B	7/9/2014	14:30	132.45	112.55		
ZON-MW4B	8/18/2014	11:36	134.24	110.76		
ZON-MW4B	9/25/2014	13:08	133.83	111.17		
ZON-MW4B	10/22/2014	14:05	133.80	111.20		
ZON-MW4B	11/13/2014	13:30	133.11	111.89		
ZON-MW4B	12/17/2014	12:20	131.11	113.89		
ZON-MW4B	1/12/2015	11:35	130.18	114.82		
ZON-MW4B	2/23/2015	13:07	130.24	114.76		
ZON-MW4B	3/13/2015	8:24	130.83	114.17		
ZON-MW4B	4/22/2015	8:25	132.70	112.30		
ZON-MW4B	5/15/2015	8:17	133.95	111.05		
ZON-MW4B	6/12/2015	7:43	134.93	110.07		
ZON-MW4B	7/22/2015	9:03	135.74	109.26		
ZON-MW4B	8/24/2015	11:59	135.74	109.26		
ZON-MW4B	9/16/2015	9:44	137.45	107.55		
ZON-MW4B	10/22/2015	9:45	137.48	107.52		
ZON-MW4B	11/18/2015	11:14	135.22	109.78		
ZON-MW4B	12/17/2015	15:17	133.83	111.17		
ZON-MW4B	1/13/2016	7:51	133.06	111.94		
ZON-MW4B	2/24/2016	8:05	132.66	112.34		
ZON-MW4B	3/18/2016	13:03	132.53	112.47		
ZON-MW4B	4/20/2016	8:57	132.67	112.33		
ZON-MW4B	5/6/2016	7:35	134.41	110.59		
ZON-MW4B	6/23/2016	12:15	Dry			
ZON-MW4B	7/21/2016	8:16	Dry			
ZON-MW4B	8/8/2016	13:07	Dry			
ZON-MW4B	9/29/2016	14:58	Dry			
ZON-MW4B	10/28/2016	8:51	Dry			
ZON-MW4B	11/10/2016	16:30	Dry			
ZON-MW4B	12/23/2016	11:05	Dry			
ZON-MW4B	1/5/2017	11:05	Dry			
ZON-MW4B	2/1/2017		N/M			
ZON-MW4B	3/31/2017	9:54	Dry			
ZON-MW4B	4/20/2017	13:40	Dry			
ZON-MW4B	5/11/2017	7:40	Dry			
ZON-MW4B	6/7/2017	9:45	Dry			
ZON-MW4B	7/20/2017	7:32	Dry			
ZON-MW4B	8/23/2017	9:10	Dry			
ZON-MW4B	9/13/2017	9:47	Dry			
ZON-MW4B	10/18/2017	8:21	Dry			
ZON-MW4B	11/28/2017	10:31	Dry			
ZON-MW4B	12/22/2017	11:41	Dry			
ZON-MW4B	1/10/2018	15:29	131.80	113.20		
ZON-MW4B	2/15/2018	9:50	130.11	114.89		
ZON-MW4B	3/22/2018	12:55	129.60	115.40		
ZON-MW4B	4/25/2018	14:58	129.90	115.10		
ZON-MW4B	5/11/2018	7:07	Q/M			
ZON-MW4B	6/14/2018	7:58	131.90	113.10		
ZON-MW4B	7/19/2018	15:27	132.70	112.30		
ZON-MW4B	8/8/2018	9:37	133.78	111.22		
ZON-MW4B	9/27/2018		N/M			
ZON-MW4B	10/31/2018	9:33	134.04	110.96		
ZON-MW4B	11/28/2018	14:47	132.08	112.92		
ZON-MW4B	12/27/2018	13:54	130.76	114.24		
ZON-MW4B	1/10/2019	12:57	131.18	113.82		
ZON-MW4B	2/20/2019	13:09	129.75	115.25		
ZON-MW4B	3/15/2019	12:31	130.27	114.73		
ZON-MW4B	4/17/2019	12:49	Dry			
ZON-MW4B	5/21/2019	13:35	132.70	112.30		
ZON-MW4B	6/13/2019	9:39	132.30	112.70		
ZON-MW4B	7/18/2019	12:55	133.21	111.79		
ZON-MW4B	8/14/2019	16:03	133.70	111.30		
ZON-MW4B	9/21/2019	10:03	Dry			
ZON-MW4B	10/29/2019	14:59	133.10	111.90		
ZON-MW4B	11/21/2019	14:22	131.89	113.11		
ZON-MW4B	12/13/2019	7:33	130.57	114.43		
ZON-MW5A	1/22/2013	16:18	99.78	145.86		
ZON-MW5A	2/12/2013	16:14	99.31	146.33		
ZON-MW5A	3/20/2013	10:08	97.42	148.22		
ZON-MW5A	4/23/2013	13:34	102.07	143.57		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ZON-MW5A	5/15/2013	7:21	96.98	148.66		
ZON-MW5A	6/19/2013	15:00	Dry			
ZON-MW5A	7/17/2013	13:32	Dry			
ZON-MW5A	8/16/2013	8:53	96.71	148.93		
ZON-MW5A	9/12/2013	14:40	Dry			
ZON-MW5A	10/24/2013	7:04	Dry			
ZON-MW5A	11/19/2013	12:50	Dry			
ZON-MW5A	12/26/2013	14:59	Dry			
ZON-MW5A	1/15/2014	14:57	Dry			
ZON-MW5A	2/20/2014	11:47	Dry			
ZON-MW5A	3/20/2014	10:43	Dry			
ZON-MW5A	4/16/2014	10:23	Dry			
ZON-MW5A	5/23/2014	7:54	Dry			
ZON-MW5A	6/13/2014	9:10	Dry			
ZON-MW5A	7/9/2014	23:18	Dry			
ZON-MW5A	8/18/2014	11:46	Dry			
ZON-MW5A	9/25/2014	13:15	Dry			
ZON-MW5A	10/22/2014	14:10	Dry			
ZON-MW5A	11/13/2014	13:39	Dry			
ZON-MW5A	12/17/2014	12:22	Dry			
ZON-MW5A	1/12/2015	11:56	Dry			
ZON-MW5A	2/23/2015	12:42	Dry			
ZON-MW5A	3/13/2015	8:30	Dry			
ZON-MW5A	4/22/2015	8:30	Dry			
ZON-MW5A	5/15/2015	8:23	Dry			
ZON-MW5A	6/12/2015	8:05	Dry			
ZON-MW5A	7/22/2015	9:18	Dry			
ZON-MW5A	8/24/2015	11:47	Dry			
ZON-MW5A	9/16/2015	8:54	Dry			
ZON-MW5A	10/22/2015	9:30	Dry			
ZON-MW5A	11/18/2015	11:19	Dry			
ZON-MW5A	12/17/2015	14:58	Dry			
ZON-MW5A	1/13/2016	7:56	Dry			
ZON-MW5A	2/24/2016	8:26	Dry			
ZON-MW5A	3/18/2016	12:40	Dry			
ZON-MW5A	4/20/2016	9:16	Dry			
ZON-MW5A	5/6/2016	7:44	Dry			
ZON-MW5A	6/23/2016	12:25	Dry			
ZON-MW5A	7/21/2016	8:23	Dry			
ZON-MW5A	8/8/2016	12:57	Dry			
ZON-MW5A	9/29/2016	15:12	Dry			
ZON-MW5A	10/28/2016	9:00	Dry			
ZON-MW5A	11/10/2016	16:34	Dry			
ZON-MW5A	12/23/2016	10:46	Dry			
ZON-MW5A	1/5/2017	11:10	Dry			
ZON-MW5A	2/1/2017		N/M			
ZON-MW5A	3/31/2017	10:02	Dry			
ZON-MW5A	4/20/2017	13:48	Dry			
ZON-MW5A	5/11/2017	7:10	Dry			
ZON-MW5A	6/7/2017	9:51	Dry			
ZON-MW5A	7/20/2017	8:15	Dry			
ZON-MW5A	8/23/2017	9:20	Dry			
ZON-MW5A	9/13/2017	10:05	Dry			
ZON-MW5A	10/18/2017	7:50	Dry			
ZON-MW5A	11/28/2017	10:37	Dry			
ZON-MW5A	12/22/2017	11:24	Dry			
ZON-MW5A	1/10/2018	15:33	Obs			
ZON-MW5A	2/15/2018	10:00	Dry			
ZON-MW5A	3/22/2018	13:05	Dry			
ZON-MW5A	4/25/2018	15:07	Dry			
ZON-MW5A	5/11/2018	7:21	Obs			
ZON-MW5A	6/14/2018	8:06	Obs			
ZON-MW5A	7/19/2018	15:45	Dry			
ZON-MW5A	8/8/2018	9:29	Dry			
ZON-MW5A	9/27/2018		N/M			
ZON-MW5A	10/31/2018	9:27	Dry			
ZON-MW5A	11/28/2018	14:27	Dry			
ZON-MW5A	12/27/2018	13:48	Dry			
ZON-MW5A	1/10/2019	12:39	Obs			
ZON-MW5A	2/20/2019	12:55	Dry			
ZON-MW5A	3/15/2019	12:20	Dry			
ZON-MW5A	4/17/2019	12:24	Dry			
ZON-MW5A	5/21/2019	13:51	Obs			
ZON-MW5A	6/13/2019	9:33	Dry			
ZON-MW5A	7/18/2019	13:07	Obs			
ZON-MW5A	8/14/2019	16:08	Dry			
ZON-MW5A	9/21/2019	10:10	Dry			
ZON-MW5A	10/29/2019	14:42	Dry			
ZON-MW5A	11/21/2019	14:38	Dry			
ZON-MW5A	12/13/2019	7:23	Obs			
ZON-MW5B	1/22/2013	16:22	100.39	145.07		
ZON-MW5B	2/12/2013	16:22	101.36	144.10		
ZON-MW5B	3/20/2013	10:10	110.78	134.68		
ZON-MW5B	4/23/2013	13:37	106.94	138.52		
ZON-MW5B	5/15/2013	7:24	116.39	129.07		
ZON-MW5B	6/19/2013	15:05	119.12	126.34		
ZON-MW5B	7/17/2013	13:35	122.39	123.07		
ZON-MW5B	8/16/2013	8:56	124.49	120.97		
ZON-MW5B	9/12/2013	14:43	123.34	122.12		
ZON-MW5B	10/24/2013	7:09	121.49	123.97		
ZON-MW5B	11/19/2013	12:53	120.35	125.11		
ZON-MW5B	12/26/2013	15:01	119.84	125.62		
ZON-MW5B	1/15/2014	15:00	121.06	124.40		
ZON-MW5B	2/20/2014	11:49	121.23	124.23		
ZON-MW5B	3/20/2014	10:46	127.66	117.80		
ZON-MW5B	4/16/2014	10:27	125.05	120.41		
ZON-MW5B	5/23/2014	7:57	127.49	117.97		
ZON-MW5B	6/13/2014	9:13	129.52	115.94		
ZON-MW5B	7/9/2014	15:01	132.70	112.76		
ZON-MW5B	8/18/2014	11:49	133.23	112.23		
ZON-MW5B	9/25/2014	13:18	132.85	112.61		
ZON-MW5B	10/22/2014	14:13	132.39	113.07		
ZON-MW5B	11/13/2014	13:42	130.38	115.08		
ZON-MW5B	12/17/2014	13:08	128.27	117.19		
ZON-MW5B	1/12/2015	11:58	127.52	117.94		
ZON-MW5B	2/23/2015	12:45	129.78	115.68		
ZON-MW5B	3/13/2015	8:33	130.88	114.58		
ZON-MW5B	4/22/2015	8:33	132.76	112.70		
ZON-MW5B	5/15/2015	8:25	133.13	112.33		
ZON-MW5B	6/12/2015	8:08	137.38	108.08		
ZON-MW5B	7/22/2015	9:21	137.61	107.85		
ZON-MW5B	8/24/2015	11:50	Dry			
ZON-MW5B	9/16/2015	8:57	Dry			
ZON-MW5B	10/22/2015	9:35	135.41	110.05		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ZON-MW5B	11/18/2015	11:21	134.11	111.35		
ZON-MW5B	12/17/2015	15:01	133.51	111.95		
ZON-MW5B	1/13/2016	7:59	132.36	113.10		
ZON-MW5B	2/24/2016	8:29	132.69	112.77		
ZON-MW5B	3/18/2016	12:43	133.21	112.25		
ZON-MW5B	4/20/2016	9:19	133.78	111.68		
ZON-MW5B	5/6/2016	7:46	136.78	108.68		
ZON-MW5B	6/23/2016	12:29	136.34	109.12		
ZON-MW5B	7/21/2016	8:26	136.71	108.75		
ZON-MW5B	8/8/2016	12:59	136.93	108.53		
ZON-MW5B	9/29/2016	15:15	136.91	108.55		
ZON-MW5B	10/28/2016	8:57	137.59	107.87		
ZON-MW5B	11/10/2016	16:35	137.61	107.85		
ZON-MW5B	12/23/2016	10:50	137.50	107.96		
ZON-MW5B	1/5/2017	11:15	Dry			
ZON-MW5B	2/1/2017		N/M			
ZON-MW5B	3/31/2017	9:59	Dry			
ZON-MW5B	4/20/2017	13:52	Dry			
ZON-MW5B	5/11/2017	7:13	Dry			
ZON-MW5B	6/7/2017	9:53	Dry			
ZON-MW5B	7/20/2017	8:17	Dry			
ZON-MW5B	8/23/2017	9:25	Dry			
ZON-MW5B	9/13/2017	10:08	Dry			
ZON-MW5B	10/18/2017	7:55	Dry			
ZON-MW5B	11/28/2017	10:42	Dry			
ZON-MW5B	12/22/2017	11:26	Dry			
ZON-MW5B	1/10/2018	15:35	127.36	118.10		
ZON-MW5B	2/15/2018	10:12	126.35	119.11		
ZON-MW5B	3/22/2018	13:10	126.03	119.43		
ZON-MW5B	4/25/2018	15:06	127.25	118.21		
ZON-MW5B	5/11/2018	7:24	128.70	116.76		
ZON-MW5B	6/14/2018	8:08	131.90	113.56		
ZON-MW5B	7/19/2018	15:46	132.21	113.25		
ZON-MW5B	8/8/2018	9:28	Dry			
ZON-MW5B	9/27/2018		N/M			
ZON-MW5B	10/31/2018	9:28	132.66	112.80		
ZON-MW5B	11/28/2018	14:27	132.21	113.25		
ZON-MW5B	12/27/2018	13:49	129.73	115.73		
ZON-MW5B	1/10/2019	12:40	128.48	116.98		
ZON-MW5B	2/20/2019	12:56	124.73	120.73		
ZON-MW5B	3/15/2019	12:21	128.18	117.28		
ZON-MW5B	4/17/2019	12:26	130.64	114.82		
ZON-MW5B	5/21/2019	13:52	132.14	113.32		
ZON-MW5B	6/13/2019	9:34	132.73	112.73		
ZON-MW5B	7/18/2019	13:09	133.21	112.25		
ZON-MW5B	8/14/2019	16:11	134.40	111.06		
ZON-MW5B	9/21/2019	10:13	134.70	110.76		
ZON-MW5B	10/29/2019	14:43	131.90	113.56		
ZON-MW5B	11/21/2019	14:39	129.12	116.34		
ZON-MW5B	12/13/2019	7:21	121.91	123.55		
ZON-MW7	1/22/2013	15:01	Dry			
ZON-MW7	2/12/2013	14:20	Dry			
ZON-MW7	3/20/2013	7:51	Dry			
ZON-MW7	4/23/2013	12:50	Dry			
ZON-MW7	5/15/2013	7:39	Dry			
ZON-MW7	6/19/2013	16:10	Dry			
ZON-MW7	7/17/2013	14:12	Dry			
ZON-MW7	8/16/2013	8:38	Dry			
ZON-MW7	9/12/2013	14:12	Dry			
ZON-MW7	10/24/2013	7:52	Dry			
ZON-MW7	11/19/2013	12:20	Dry			
ZON-MW7	12/26/2013	14:06	Dry			
ZON-MW7	1/15/2014	14:28	Dry			
ZON-MW7	2/20/2014	11:35	Dry			
ZON-MW7	3/20/2014	9:58	Dry			
ZON-MW7	4/16/2014	9:38	Dry			
ZON-MW7	5/23/2014	7:16	Dry			
ZON-MW7	6/13/2014	8:27	Dry			
ZON-MW7	7/9/2014	14:36	Dry			
ZON-MW7	8/18/2014	11:20	Dry			
ZON-MW7	9/25/2014	12:35	Dry			
ZON-MW7	10/22/2014	14:50	Dry			
ZON-MW7	11/13/2014	13:24	Dry			
ZON-MW7	12/17/2014	13:24	Dry			
ZON-MW7	1/12/2015	11:09	Dry			
ZON-MW7	2/23/2015	13:14	Dry			
ZON-MW7	3/13/2015	8:58	Dry			
ZON-MW7	4/22/2015	9:00	Dry			
ZON-MW7	5/15/2015	8:09	Dry			
ZON-MW7	6/12/2015	7:20	Dry			
ZON-MW7	7/22/2015	9:30	Dry			
ZON-MW7	8/24/2015	12:08	Dry			
ZON-MW7	9/16/2015	9:54	Dry			
ZON-MW7	10/22/2015	10:05	Dry			
ZON-MW7	11/18/2015	11:35	Dry			
ZON-MW7	12/17/2015	15:36	Dry			
ZON-MW7	1/13/2016	8:29	Dry			
ZON-MW7	2/24/2016	8:34	Dry			
ZON-MW7	3/18/2016	13:11	Dry			
ZON-MW7	4/20/2016	8:31	Dry			
ZON-MW7	5/6/2016	8:10	Dry			
ZON-MW7	6/23/2016	11:42	Dry			
ZON-MW7	7/21/2016	7:42	Dry			
ZON-MW7	8/8/2016	13:13	Dry			
ZON-MW7	9/29/2016	15:20	Dry			
ZON-MW7	10/28/2016	9:19	Dry			
ZON-MW7	11/10/2016	16:20	Dry			
ZON-MW7	12/23/2016	11:12	Dry			
ZON-MW7	1/5/2017	10:30	Dry			
ZON-MW7	2/1/2017		N/M			
ZON-MW7	3/31/2017	10:24	Dry			
ZON-MW7	4/20/2017	13:10	Dry			
ZON-MW7	5/11/2017	7:00	Dry			
ZON-MW7	6/7/2017	10:16	Dry			
ZON-MW7	7/20/2017	7:38	Dry			
ZON-MW7	8/23/2017	8:50	Dry			
ZON-MW7	9/13/2017	9:19	Dry			
ZON-MW7	10/18/2017	8:44	Dry			
ZON-MW7	11/28/2017	11:16	Dry			
ZON-MW7	12/22/2017	11:52	Dry			
ZON-MW7	1/10/2018	15:20	Dry			
ZON-MW7	2/15/2018	8:25	Dry			
ZON-MW7	3/22/2018	12:40	Dry			
ZON-MW7	4/25/2018	14:50	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
ZON-MW7	5/11/2018	8:00	Dry			
ZON-MW7	6/14/2018	7:30	Dry			
ZON-MW7	7/19/2018	15:20	Dry			
ZON-MW7	8/8/2018	9:46	Dry			
ZON-MW7	9/27/2018		N/M			
ZON-MW7	10/31/2018	9:48	Dry			
ZON-MW7	11/28/2018	15:08	Dry			
ZON-MW7	12/27/2018	13:40	Dry			
ZON-MW7	1/10/2019	13:44	Dry			
ZON-MW7	2/20/2019	13:18	Dry			
ZON-MW7	3/15/2019	13:08	Dry			
ZON-MW7	4/17/2019	12:00	Dry			
ZON-MW7	5/21/2019	13:29	Dry			
ZON-MW7	6/13/2019	9:56	Dry			
ZON-MW7	7/18/2019	12:45	Dry			
ZON-MW7	8/14/2019	15:55	Dry			
ZON-MW7	9/21/2019	10:40	Dry			
ZON-MW7	10/29/2019	15:06	Dry			
ZON-MW7	11/21/2019	14:10	Dry			
ZON-MW7	12/13/2019	7:52	Dry			
RIC-MW1	1/24/2013	11:10	12.00	307.10		
RIC-MW1	2/14/2013	12:10	12.40	306.70		
RIC-MW1	3/22/2013	9:17	12.36	306.74		
RIC-MW1	4/25/2013	8:17	12.76	306.34		
RIC-MW1	5/17/2013	7:01	12.55	306.55		
RIC-MW1	6/21/2013	10:58	12.62	306.48		
RIC-MW1	7/19/2013	10:00	12.85	306.25		
RIC-MW1	8/13/2013	11:55	12.77	306.33		
RIC-MW1	9/10/2013	16:30	13.31	305.79		
RIC-MW1	10/25/2013	11:00	13.51	305.59		
RIC-MW1	11/21/2013	14:35	13.16	305.94		
RIC-MW1	12/26/2013	13:25	13.48	305.62		
RIC-MW1	1/14/2014	12:04	13.79	305.31		
RIC-MW1	2/17/2014	12:09	13.61	305.49		
RIC-MW1	3/18/2014	12:35	13.56	305.54		
RIC-MW1	4/14/2014	12:15	13.81	305.29		
RIC-MW1	5/30/2014	6:56	13.93	305.17		
RIC-MW1	6/11/2014	12:25	14.13	304.97		
RIC-MW1	7/8/2014	12:26	14.53	304.57		
RIC-MW1	8/12/2014	11:07	14.82	304.28		
RIC-MW1	9/24/2014	7:36	15.23	303.87		
RIC-MW1	10/21/2014	11:45	15.30	303.80		
RIC-MW1	11/10/2014	11:56	14.89	304.21		
RIC-MW1	12/16/2014	12:35	14.49	304.61		
RIC-MW1	1/7/2015	13:43	14.86	304.24		
RIC-MW1	2/17/2015	10:19	14.61	304.49		
RIC-MW1	3/11/2015	12:28	14.37	304.73		
RIC-MW1	4/20/2015	12:30	14.44	304.66		
RIC-MW1	5/11/2015	12:27	14.70	304.40		
RIC-MW1	6/10/2015	12:12	14.25	304.85		
RIC-MW1	7/20/2015	13:58	14.23	304.87		
RIC-MW1	8/20/2015	9:03	14.66	304.44		
RIC-MW1	9/14/2015	11:24	15.30	303.80		
RIC-MW1	10/20/2015	12:00	16.20	302.90		
RIC-MW1	11/18/2015	8:33	12.26	306.84		
RIC-MW1	12/16/2015	11:50	12.48	306.62		
RIC-MW1	1/11/2016	12:18	16.91	302.19		
RIC-MW1	2/22/2016	12:10	16.68	302.42		
RIC-MW1	3/17/2016	11:48	16.22	302.88		
RIC-MW1	4/18/2016	11:25	16.35	302.75		
RIC-MW1	5/19/2016	11:36	16.34	302.76		
RIC-MW1	6/20/2016	18:49	15.67	303.43		
RIC-MW1	7/18/2016	15:32	15.71	303.39		
RIC-MW1	8/9/2016	7:37	15.72	303.38		
RIC-MW1	9/30/2016	11:30	15.31	303.79		
RIC-MW1	10/25/2016	15:23	16.37	302.73		
RIC-MW1	11/8/2016	11:50	16.48	302.62		
RIC-MW1	12/21/2016	11:52	16.34	302.76		
RIC-MW1	1/12/2017	13:40	16.11	302.99		
RIC-MW1	2/1/2017		N/M			
RIC-MW1	3/27/2017	13:10	15.16	303.94		
RIC-MW1	4/18/2017	13:16	15.38	303.72		
RIC-MW1	5/16/2017	12:01	15.80	303.30		
RIC-MW1	6/5/2017	12:03	15.42	303.68		
RIC-MW1	7/12/2017	12:59	15.07	304.03		
RIC-MW1	8/21/2017	10:49	14.88	304.22		
RIC-MW1	9/11/2017	10:11	15.26	303.84		
RIC-MW1	10/16/2017	12:21	15.55	303.55		
RIC-MW1	11/20/2017	12:56	15.16	303.94		
RIC-MW1	12/21/2017	11:06	15.80	303.30		
RIC-MW1	1/9/2018	12:35	16.14	302.96		
RIC-MW1	2/5/2018	12:22	15.43	303.67		
RIC-MW1	3/19/2018	12:40	16.50	302.60		
RIC-MW1	4/23/2018	13:25	16.90	302.20		
RIC-MW1	5/14/2018	12:40	16.05	303.05		
RIC-MW1	6/12/2018	11:39	15.46	303.64		
RIC-MW1	7/17/2018	13:49	15.10	304.00		
RIC-MW1	8/6/2018	12:17	15.81	303.29		
RIC-MW1	9/24/2018	16:27	14.48	304.62		
RIC-MW1	10/31/2018	14:04	12.34	306.76		
RIC-MW1	11/15/2018		N/M			
RIC-MW1	12/20/2018	13:40	14.70	304.40		
RIC-MW1	1/8/2019	12:32	15.10	304.00		
RIC-MW1	2/14/2019	12:51	15.00	304.10		
RIC-MW1	3/20/2019	12:25	15.10	304.00		
RIC-MW1	4/16/2019	12:05	15.26	303.84		
RIC-MW1	5/13/2019	11:52	14.45	304.65		
RIC-MW1	6/11/2019	13:01	14.54	304.56		
RIC-MW1	7/16/2019	11:32	13.61	305.49		
RIC-MW1	8/12/2019	12:48	13.43	305.67		
RIC-MW1	9/6/2019	14:33	13.90	305.20		
RIC-MW1	10/28/2019	10:55	14.14	304.96		
RIC-MW1	11/19/2019	12:08	14.66	304.44		
RIC-MW1	12/11/2019	11:53	14.84	304.26		
RIC-MW2	1/24/2013	11:13	Dry			
RIC-MW2	2/14/2013	12:13	Dry			
RIC-MW2	3/22/2013	9:20	Dry			
RIC-MW2	4/25/2013	8:20	Dry			
RIC-MW2	5/17/2013	7:04	Dry			
RIC-MW2	6/21/2013	11:05	10.00	307.19		
RIC-MW2	7/19/2013	10:04	10.21	306.98		
RIC-MW2	8/13/2013	11:36	10.15	307.04		
RIC-MW2	9/10/2013	16:27	Dry			
RIC-MW2	10/25/2013	10:55	10.74	306.45		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
RIC-MW2	11/21/2013	14:41	Dry			
RIC-MW2	12/26/2013	13:28	10.56	306.63		
RIC-MW2	1/14/2014	12:08	Dry			
RIC-MW2	2/17/2014	12:15	Dry			
RIC-MW2	3/18/2014	12:41	10.82	306.37		
RIC-MW2	4/14/2014	12:12	11.01	306.18		
RIC-MW2	5/30/2014	7:00	Dry			
RIC-MW2	6/11/2014	12:22	11.61	305.58		
RIC-MW2	7/8/2014	12:22	11.34	305.85		
RIC-MW2	8/12/2014	11:10	11.81	305.38		
RIC-MW2	9/24/2014	7:38	Dry			
RIC-MW2	10/21/2014	11:50	Dry			
RIC-MW2	11/10/2014	11:00	Dry			
RIC-MW2	12/16/2014	12:33	11.40	305.79		
RIC-MW2	1/7/2015	13:40	Dry			
RIC-MW2	2/17/2015	10:22	Dry			
RIC-MW2	3/11/2015	12:31	Dry			
RIC-MW2	4/20/2015	12:34	Dry			
RIC-MW2	5/11/2015	12:30	Dry			
RIC-MW2	6/10/2015	12:15	Dry			
RIC-MW2	7/20/2015	13:54	Dry			
RIC-MW2	8/20/2015	9:07	Dry			
RIC-MW2	9/14/2015	11:21	Dry			
RIC-MW2	10/20/2015	12:05	Dry			
RIC-MW2	11/18/2015	8:30	Dry			
RIC-MW2	12/16/2015	11:55	Dry			
RIC-MW2	1/11/2016	12:22	Dry			
RIC-MW2	2/22/2016	12:07	Dry			
RIC-MW2	3/17/2016	11:50	Dry			
RIC-MW2	4/18/2016	11:28	Dry			
RIC-MW2	5/19/2016	11:39	Dry			
RIC-MW2	6/20/2016	18:47	Dry			
RIC-MW2	7/18/2016	15:35	Dry			
RIC-MW2	8/9/2016	7:40	Dry			
RIC-MW2	9/30/2016	11:34	Dry			
RIC-MW2	10/25/2016	15:21	Dry			
RIC-MW2	11/8/2016	11:52	9.11	308.08		
RIC-MW2	12/21/2016	11:55	Dry			
RIC-MW2	1/12/2017	13:43	Dry			
RIC-MW2	2/1/2017		N/M			
RIC-MW2	3/27/2017	13:15	Dry			
RIC-MW2	4/18/2017	13:14	Dry			
RIC-MW2	5/16/2017	12:04	Dry			
RIC-MW2	6/5/2017	12:00	Dry			
RIC-MW2	7/12/2017	12:58	Dry			
RIC-MW2	8/21/2017	10:46	Dry			
RIC-MW2	9/11/2017	10:14	Dry			
RIC-MW2	10/16/2017	12:23	Dry			
RIC-MW2	11/20/2017	12:58	Dry			
RIC-MW2	12/21/2017	11:04	Dry			
RIC-MW2	1/9/2018	12:38	Dry			
RIC-MW2	2/5/2018	12:23	Dry			
RIC-MW2	3/19/2018	12:44	Dry			
RIC-MW2	4/23/2018	13:30	Dry			
RIC-MW2	5/14/2018	12:43	Dry			
RIC-MW2	6/12/2018	11:36	Dry			
RIC-MW2	7/17/2018	13:47	Dry			
RIC-MW2	8/6/2018	12:18	Dry			
RIC-MW2	9/24/2018	16:28	Dry			
RIC-MW2	10/31/2018	14:06	Dry			
RIC-MW2	11/15/2018		N/M			
RIC-MW2	12/20/2018	13:39	Dry			
RIC-MW2	1/8/2019	12:30	Dry			
RIC-MW2	2/14/2019	12:52	Dry			
RIC-MW2	3/20/2019	12:26	Dry			
RIC-MW2	4/16/2019	12:02	Dry			
RIC-MW2	5/13/2019	11:55	Dry			
RIC-MW2	6/11/2019	13:00	Dry			
RIC-MW2	7/16/2019	11:30	10.28	306.91		
RIC-MW2	8/12/2019	12:51	10.80	306.39		
RIC-MW2	9/6/2019	14:30	10.44	306.75		
RIC-MW2	10/28/2019	10:56	10.92	306.27		
RIC-MW2	11/19/2019	12:07	11.14	306.05		
RIC-MW2	12/11/2019	11:50	Dry			
RIC-MW3	1/24/2013	11:45	7.71	303.74		
RIC-MW3	2/14/2013	12:18	8.25	303.20		
RIC-MW3	3/22/2013	10:57	7.68	303.77		
RIC-MW3	4/25/2013	8:13	8.91	302.54		
RIC-MW3	5/17/2013	6:52	7.05	304.40		
RIC-MW3	6/21/2013	11:15	6.77	304.68		
RIC-MW3	7/19/2013	10:10	6.96	304.49		
RIC-MW3	8/13/2013	11:45	6.89	304.56		
RIC-MW3	9/10/2013	16:35	7.22	304.23		
RIC-MW3	10/25/2013	11:15	8.56	302.89		
RIC-MW3	11/21/2013	14:52	7.89	303.56		
RIC-MW3	12/26/2013	13:34	8.76	302.69		
RIC-MW3	1/14/2014	11:44	8.54	302.91		
RIC-MW3	2/17/2014	11:35	8.71	302.74		
RIC-MW3	3/18/2014	12:21	8.21	303.24		
RIC-MW3	4/14/2014	12:00	8.94	302.51		
RIC-MW3	5/30/2014	7:09	7.89	303.56		
RIC-MW3	6/11/2014	12:12	7.97	303.48		
RIC-MW3	7/8/2014	12:34	8.27	303.18		
RIC-MW3	8/12/2014	10:55	8.77	302.68		
RIC-MW3	9/24/2014	7:52	9.60	301.85		
RIC-MW3	10/21/2014	12:25	7.59	303.86		
RIC-MW3	11/10/2014	12:02	9.30	302.15		
RIC-MW3	12/16/2014	13:03	8.97	302.48		
RIC-MW3	1/7/2015	13:30	9.84	301.61		
RIC-MW3	2/17/2015	10:28	9.67	301.78		
RIC-MW3	3/11/2015	12:13	9.77	301.68		
RIC-MW3	4/20/2015	12:06	9.34	302.11		
RIC-MW3	5/11/2015	12:41	9.52	301.93		
RIC-MW3	6/10/2015	12:00	9.91	301.54		
RIC-MW3	7/20/2015	13:45	9.53	301.92		
RIC-MW3	8/20/2015	9:16	10.30	301.15		
RIC-MW3	9/14/2015	11:15	11.41	300.04		
RIC-MW3	10/20/2015	11:40	12.11	299.34		
RIC-MW3	11/18/2015	8:41	12.55	298.90		
RIC-MW3	12/16/2015	11:45	12.52	298.93		
RIC-MW3	1/11/2016	12:09	13.12	298.33		
RIC-MW3	2/22/2016	12:02	13.07	298.38		
RIC-MW3	3/17/2016	11:56	12.11	299.34		
RIC-MW3	4/18/2016	11:14	12.42	299.03		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
RIC-MW3	5/19/2016	11:25	12.40	299.05		
RIC-MW3	6/20/2016	18:35	11.00	300.45		
RIC-MW3	7/18/2016	15:56	11.56	299.89		
RIC-MW3	8/9/2016	7:47	12.33	299.12		
RIC-MW3	9/30/2016	11:41	10.14	301.31		
RIC-MW3	10/25/2016	15:13	12.41	299.04		
RIC-MW3	11/8/2016	11:40	12.92	298.53		
RIC-MW3	12/21/2016	12:09	12.50	298.95		
RIC-MW3	1/12/2017	13:50	13.00	298.45		
RIC-MW3	2/1/2017		N/M			
RIC-MW3	3/27/2017	13:45	13.12	298.33		
RIC-MW3	4/18/2017	13:28	10.98	300.47		
RIC-MW3	5/16/2017	12:09	11.10	300.35		
RIC-MW3	6/5/2017	12:23	10.94	300.51		
RIC-MW3	7/12/2017	13:11	10.50	300.95		
RIC-MW3	8/21/2017	10:35	10.90	300.55		
RIC-MW3	9/11/2017	10:18	11.26	300.19		
RIC-MW3	10/16/2017	12:30	11.48	299.97		
RIC-MW3	11/20/2017	14:10	11.58	299.87		
RIC-MW3	12/21/2017	11:13	11.96	299.49		
RIC-MW3	1/9/2018	12:45	12.21	299.24		
RIC-MW3	2/5/2018	12:36	12.44	299.01		
RIC-MW3	3/19/2018	11:50	12.21	299.24		
RIC-MW3	4/23/2018	13:05	11.83	299.62		
RIC-MW3	5/14/2018	12:32	10.89	300.56		
RIC-MW3	6/12/2018	11:53	10.40	301.05		
RIC-MW3	7/17/2018	12:55	9.41	302.04		
RIC-MW3	8/6/2018	12:04	10.47	300.98		
RIC-MW3	9/24/2018	16:15	8.77	302.68		
RIC-MW3	10/31/2018	13:55	9.26	302.19		
RIC-MW3	11/15/2018		N/M			
RIC-MW3	12/20/2018	12:45	9.76	301.69		
RIC-MW3	1/8/2019	12:22	10.49	300.96		
RIC-MW3	2/14/2019	12:34	10.46	300.99		
RIC-MW3	3/20/2019	12:16	10.18	301.27		
RIC-MW3	4/16/2019	11:53	9.99	301.46		
RIC-MW3	5/13/2019	12:26	9.04	302.41		
RIC-MW3	6/11/2019	12:31	9.17	302.28		
RIC-MW3	7/16/2019	11:16	8.12	303.33		
RIC-MW3	8/12/2019	12:35	8.30	303.15		
RIC-MW3	9/6/2019	14:23	7.07	304.38		
RIC-MW3	10/28/2019	11:41	8.63	302.82		
RIC-MW3	11/19/2019	11:52	9.20	302.25		
RIC-MW3	12/11/2019	11:39	9.00	302.45		
RIC-MW4	1/24/2013	11:40	6.88	304.32		
RIC-MW4	2/14/2013	12:20	7.31	303.89		
RIC-MW4	3/22/2013	11:01	6.35	304.85		
RIC-MW4	4/25/2013	8:09	6.61	304.59		
RIC-MW4	5/17/2013	6:55	5.13	306.07		
RIC-MW4	6/21/2013	11:10	5.87	305.33		
RIC-MW4	7/19/2013	10:14	6.02	305.18		
RIC-MW4	8/13/2013	11:47	5.80	305.40		
RIC-MW4	9/10/2013	16:41	6.30	304.90		
RIC-MW4	10/25/2013	11:12	7.25	303.95		
RIC-MW4	11/21/2013	14:56	5.69	305.51		
RIC-MW4	12/26/2013	13:36	6.98	304.22		
RIC-MW4	1/14/2014	11:47	7.47	303.73		
RIC-MW4	2/17/2014	11:38	7.16	304.04		
RIC-MW4	3/18/2014	12:26	7.29	303.91		
RIC-MW4	4/14/2014	12:04	7.53	303.67		
RIC-MW4	5/30/2014	7:14	7.41	303.79		
RIC-MW4	6/11/2014	12:16	7.35	303.85		
RIC-MW4	7/8/2014	12:30	7.43	303.77		
RIC-MW4	8/12/2014	10:58	7.48	303.72		
RIC-MW4	9/24/2014	7:55	7.94	303.26		
RIC-MW4	10/21/2014	12:30	7.11	304.09		
RIC-MW4	11/10/2014	12:00	8.64	302.56		
RIC-MW4	12/16/2014	13:05	8.42	302.78		
RIC-MW4	1/7/2015	13:34	8.49	302.71		
RIC-MW4	2/17/2015	10:32	8.44	302.76		
RIC-MW4	3/11/2015	12:16	8.64	302.56		
RIC-MW4	4/20/2015	12:08	8.58	302.62		
RIC-MW4	5/11/2015	12:43	8.83	302.37		
RIC-MW4	6/10/2015	12:06	9.02	302.18		
RIC-MW4	7/20/2015	13:48	9.13	302.07		
RIC-MW4	8/20/2015	9:19	9.40	301.80		
RIC-MW4	9/14/2015	11:17	10.07	301.13		
RIC-MW4	10/20/2015	11:45	10.80	300.40		
RIC-MW4	11/18/2015	8:38	11.34	299.86		
RIC-MW4	12/16/2015	11:50	11.48	299.72		
RIC-MW4	1/11/2016	12:13	11.83	299.37		
RIC-MW4	2/22/2016	11:58	Dry			
RIC-MW4	3/17/2016	11:58	Dry			
RIC-MW4	4/18/2016	11:17	Dry			
RIC-MW4	5/19/2016	11:28	Dry			
RIC-MW4	6/20/2016	18:39	10.34	300.86		
RIC-MW4	7/18/2016	16:00	10.88	300.32		
RIC-MW4	8/9/2016	7:49	11.32	299.88		
RIC-MW4	9/30/2016	11:44	9.03	302.17		
RIC-MW4	10/25/2016	15:17	Dry			
RIC-MW4	11/8/2016	11:43	Dry			
RIC-MW4	12/21/2016	12:06	11.91	299.29		
RIC-MW4	1/12/2017	13:53	Dry			
RIC-MW4	2/1/2017		N/M			
RIC-MW4	3/27/2017	13:50	Dry			
RIC-MW4	4/18/2017	13:25	10.96	300.24		
RIC-MW4	5/16/2017	12:11	Dry			
RIC-MW4	6/5/2017	12:19	Dry			
RIC-MW4	7/12/2017	13:11	10.43	300.77		
RIC-MW4	8/21/2017	10:28	10.71	300.49		
RIC-MW4	9/11/2017	10:21	10.44	300.76		
RIC-MW4	10/16/2017	12:34	10.77	300.43		
RIC-MW4	11/20/2017		N/M			
RIC-MW4	12/21/2017	11:16	10.91	300.29		
RIC-MW4	1/9/2018	12:47	11.04	300.16		
RIC-MW4	2/5/2018	12:37	12.08	299.12		
RIC-MW4	3/19/2018	11:54	11.02	300.18		
RIC-MW4	4/23/2018	13:10	11.10	300.10		
RIC-MW4	5/14/2018	12:30	10.77	300.43		
RIC-MW4	6/12/2018	11:50	Dry			
RIC-MW4	7/17/2018	12:57	9.60	301.60		
RIC-MW4	8/6/2018	12:07	14.66	296.54		
RIC-MW4	9/24/2018	16:17	7.50	303.70		
RIC-MW4	10/31/2018	13:52	6.88	304.32		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
RIC-MW4	11/15/2018		N/M			
RIC-MW4	12/20/2018	12:47	7.00	304.20		
RIC-MW4	1/8/2019	12:24	7.70	303.50		
RIC-MW4	2/14/2019	12:33	8.70	302.50		
RIC-MW4	3/20/2019	12:15	8.77	302.43		
RIC-MW4	4/16/2019	11:55	8.82	302.38		
RIC-MW4	5/13/2019	12:21	7.90	303.30		
RIC-MW4	6/11/2019	12:30	8.16	303.04		
RIC-MW4	7/16/2019	11:20	7.21	303.99		
RIC-MW4	8/12/2019	12:40	7.65	303.55		
RIC-MW4	9/6/2019	14:25	6.72	304.48		
RIC-MW4	10/28/2019	11:43	6.71	304.49		
RIC-MW4	11/19/2019	11:54	7.05	304.15		
RIC-MW4	12/11/2019	11:41	7.62	303.58		
RIC-MW5	1/24/2013	11:55	11.51	307.25		
RIC-MW5	2/14/2013	12:24	11.97	306.79		
RIC-MW5	3/22/2013	9:51	12.01	306.75		
RIC-MW5	4/25/2013	8:28	12.23	306.53		
RIC-MW5	5/17/2013	6:40	11.43	307.33		
RIC-MW5	6/21/2013	11:25	11.06	307.70		
RIC-MW5	7/19/2013	10:20	11.71	307.05		
RIC-MW5	8/13/2013	11:50	10.98	307.78		
RIC-MW5	9/10/2013	16:49	11.94	306.82		
RIC-MW5	10/25/2013	11:22	12.21	306.55		
RIC-MW5	11/21/2013	15:07	11.71	307.05		
RIC-MW5	12/26/2013	13:44	12.37	306.39		
RIC-MW5	1/14/2014	12:36	12.11	306.65		
RIC-MW5	2/17/2014	11:25	12.54	306.22		
RIC-MW5	3/18/2014	12:08	12.77	305.99		
RIC-MW5	4/14/2014	11:49	13.06	305.70		
RIC-MW5	5/30/2014	7:21	12.52	306.24		
RIC-MW5	6/11/2014	12:02	12.62	306.14		
RIC-MW5	7/8/2014	12:17	12.68	306.08		
RIC-MW5	8/12/2014	10:41	12.98	305.78		
RIC-MW5	9/24/2014	7:30	13.74	305.02		
RIC-MW5	10/21/2014	11:35	14.31	304.45		
RIC-MW5	11/10/2014	12:11	14.21	304.55		
RIC-MW5	12/16/2014	12:28	14.31	304.45		
RIC-MW5	1/7/2015	13:20	14.63	304.13		
RIC-MW5	2/17/2015	10:41	14.94	303.82		
RIC-MW5	3/11/2015	12:05	14.94	303.82		
RIC-MW5	4/20/2015	12:00	15.04	303.72		
RIC-MW5	5/11/2015	12:56	15.18	303.58		
RIC-MW5	6/10/2015	11:51	15.18	303.58		
RIC-MW5	7/20/2015	13:35	15.28	303.48		
RIC-MW5	8/20/2015	9:28	15.43	303.33		
RIC-MW5	9/14/2015	11:08	15.98	302.78		
RIC-MW5	10/20/2015	11:20	16.33	302.43		
RIC-MW5	11/18/2015	8:49	17.11	301.65		
RIC-MW5	12/16/2015	11:35	17.13	301.63		
RIC-MW5	1/11/2016	12:00	17.65	301.11		
RIC-MW5	2/22/2016	11:50	18.12	300.64		
RIC-MW5	3/17/2016	12:02	18.03	300.73		
RIC-MW5	4/18/2016	11:05	17.98	300.78		
RIC-MW5	5/19/2016	11:15	17.90	300.86		
RIC-MW5	6/20/2016	18:26	17.65	301.11		
RIC-MW5	7/18/2016	15:47	18.21	300.55		
RIC-MW5	8/9/2016	7:54	18.30	300.46		
RIC-MW5	9/30/2016	11:50	15.41	303.35		
RIC-MW5	10/25/2016	15:03	17.85	300.91		
RIC-MW5	11/8/2016	11:30	18.31	300.45		
RIC-MW5	12/21/2016	12:20	18.60	300.16		
RIC-MW5	1/12/2017	14:10	18.80	299.96		
RIC-MW5	2/1/2017		N/M			
RIC-MW5	3/27/2017	13:25	18.04	300.72		
RIC-MW5	4/18/2017	13:35	18.37	300.39		
RIC-MW5	5/16/2017	12:17	17.61	301.15		
RIC-MW5	6/5/2017	12:13	17.50	301.26		
RIC-MW5	7/12/2017	13:20	17.90	300.86		
RIC-MW5	8/21/2017	10:15	17.45	301.31		
RIC-MW5	9/11/2017	10:28	16.17	302.59		
RIC-MW5	10/16/2017	12:40	17.00	301.76		
RIC-MW5	11/20/2017	13:06	17.32	301.44		
RIC-MW5	12/21/2017	11:31	16.52	302.24		
RIC-MW5	1/9/2018	12:55	Dry			
RIC-MW5	2/5/2018	12:29	18.22	300.54		
RIC-MW5	3/19/2018	11:30	18.30	300.46		
RIC-MW5	4/23/2018	12:39	17.88	300.88		
RIC-MW5	5/14/2018	12:15	17.61	301.15		
RIC-MW5	6/12/2018	11:59	16.62	302.14		
RIC-MW5	7/17/2018	13:03	14.80	303.96		
RIC-MW5	8/6/2018	12:11	16.65	302.11		
RIC-MW5	9/24/2018	16:05	13.36	305.40		
RIC-MW5	10/31/2018	13:43	14.06	304.70		
RIC-MW5	11/15/2018		N/M			
RIC-MW5	12/20/2018	12:30	15.00	303.76		
RIC-MW5	1/8/2019	12:10	15.49	303.27		
RIC-MW5	2/14/2019	12:23	15.68	303.08		
RIC-MW5	3/20/2019	12:03	15.72	303.04		
RIC-MW5	4/16/2019	11:40	13.11	305.65		
RIC-MW5	5/13/2019	12:32	15.30	303.46		
RIC-MW5	6/11/2019	12:44	14.68	304.08		
RIC-MW5	7/16/2019	11:00	14.53	304.23		
RIC-MW5	8/12/2019	12:03	14.49	304.27		
RIC-MW5	9/6/2019	14:12	14.60	304.16		
RIC-MW5	10/28/2019	11:46	14.42	304.34		
RIC-MW5	11/19/2019	11:59	14.64	304.12		
RIC-MW5	12/11/2019	11:26	17.10	301.66		
RIC-MW6	1/24/2013	11:50	10.35	308.67		
RIC-MW6	2/14/2013	12:28	10.66	308.36		
RIC-MW6	3/22/2013	9:54	10.55	308.47		
RIC-MW6	4/25/2013	8:32	11.04	307.98		
RIC-MW6	5/17/2013	6:44	8.64	310.38		
RIC-MW6	6/21/2013	11:21	9.34	309.68		
RIC-MW6	7/19/2013	10:24	9.45	309.57		
RIC-MW6	8/13/2013	11:52	9.33	309.69		
RIC-MW6	9/10/2013	16:56	10.13	308.89		
RIC-MW6	10/25/2013	11:25	10.55	308.47		
RIC-MW6	11/21/2013	15:10	10.09	308.93		
RIC-MW6	12/26/2013	13:47	10.82	308.20		
RIC-MW6	1/14/2014	12:40	9.93	309.09		
RIC-MW6	2/17/2014	11:28	10.82	308.20		
RIC-MW6	3/18/2014	12:14	11.04	307.98		
RIC-MW6	4/14/2014	11:53	11.47	307.55		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
RIC-MW6	5/30/2014	7:25	11.14	307.88		
RIC-MW6	6/11/2014	12:06	10.99	308.03		
RIC-MW6	7/8/2014	12:15	11.26	307.76		
RIC-MW6	8/12/2014	10:44	11.31	307.71		
RIC-MW6	9/24/2014	7:25	11.83	307.19		
RIC-MW6	10/21/2014	11:40	12.57	306.45		
RIC-MW6	11/10/2014	12:08	12.76	306.26		
RIC-MW6	12/16/2014	12:26	12.74	306.28		
RIC-MW6	1/7/2015	13:16	13.24	305.78		
RIC-MW6	2/17/2015	10:43	13.66	305.36		
RIC-MW6	3/11/2015	12:08	13.96	305.06		
RIC-MW6	4/20/2015	12:03	13.90	305.12		
RIC-MW6	5/11/2015	12:59	14.06	304.96		
RIC-MW6	6/10/2015	11:54	14.22	304.80		
RIC-MW6	7/20/2015	13:40	14.20	304.82		
RIC-MW6	8/20/2015	9:31	13.94	305.08		
RIC-MW6	9/14/2015	11:10	14.59	304.43		
RIC-MW6	10/20/2015	11:25	14.45	304.57		
RIC-MW6	11/18/2015	8:52	15.36	303.66		
RIC-MW6	12/16/2015	11:40	15.40	303.62		
RIC-MW6	1/11/2016	12:04	15.60	303.42		
RIC-MW6	2/22/2016	11:53	Dry			
RIC-MW6	3/17/2016	12:04	16.60	302.42		
RIC-MW6	4/18/2016	11:08	16.73	302.29		
RIC-MW6	5/19/2016	11:18	16.63	302.39		
RIC-MW6	6/20/2016	18:28	Dry			
RIC-MW6	7/18/2016	15:50	17.14	301.88		
RIC-MW6	8/9/2016	7:56	Dry			
RIC-MW6	9/30/2016	11:57	14.01	305.01		
RIC-MW6	10/25/2016	15:00	16.81	302.21		
RIC-MW6	11/8/2016	11:33	17.05	301.97		
RIC-MW6	12/21/2016	12:15	17.19	301.83		
RIC-MW6	1/12/2017	14:17	Dry			
RIC-MW6	2/1/2017		N/M			
RIC-MW6	3/27/2017	13:30	16.86	302.16		
RIC-MW6	4/18/2017	13:45	17.11	301.91		
RIC-MW6	5/16/2017	12:21	16.22	302.80		
RIC-MW6	6/5/2017	12:10	Dry			
RIC-MW6	7/12/2017	13:20	Dry			
RIC-MW6	8/21/2017	10:11	Dry			
RIC-MW6	9/11/2017	10:25	Dry			
RIC-MW6	10/16/2017	12:43	15.95	303.07		
RIC-MW6	11/20/2017	13:04	Dry			
RIC-MW6	12/21/2017	11:28	Dry			
RIC-MW6	1/9/2018	12:57	16.71	302.31		
RIC-MW6	2/5/2018	12:30	17.22	301.80		
RIC-MW6	3/19/2018	11:34	Dry			
RIC-MW6	4/23/2018	12:42	Dry			
RIC-MW6	5/14/2018	12:17	Dry			
RIC-MW6	6/12/2018	12:05	15.70	303.32		
RIC-MW6	7/17/2018	13:01	13.38	305.64		
RIC-MW6	8/6/2018	12:13	15.82	303.20		
RIC-MW6	9/24/2018	16:07	10.66	308.36		
RIC-MW6	10/31/2018	13:40	11.09	307.93		
RIC-MW6	11/15/2018		N/M			
RIC-MW6	12/20/2018	12:33	Dry			
RIC-MW6	1/8/2019	12:12	13.96	305.06		
RIC-MW6	2/14/2019	12:24	13.62	305.40		
RIC-MW6	3/20/2019	12:04	14.25	304.77		
RIC-MW6	4/16/2019	11:45	15.37	303.65		
RIC-MW6	5/13/2019	12:35	13.75	305.27		
RIC-MW6	6/11/2019	12:46	12.94	306.08		
RIC-MW6	7/16/2019	11:05	13.54	305.48		
RIC-MW6	8/12/2019	12:46	13.31	305.71		
RIC-MW6	9/6/2019	14:15	13.14	305.88		
RIC-MW6	10/28/2019	11:50	12.95	306.07		
RIC-MW6	11/19/2019	11:57	12.52	306.50		
RIC-MW6	12/11/2019	11:28	13.00	306.02		
RIC-MW7s	1/24/2013	11:00	12.15	307.53	0.17	0.01
RIC-MW7s	2/14/2013	11:38	12.39	307.29	0.26	0.01
RIC-MW7s	3/22/2013	7:31	12.60	307.08	0.23	0.01
RIC-MW7s	4/25/2013	7:45	12.82	306.86	0.11	0.01
RIC-MW7s	5/17/2013	7:30	13.01	306.67	0.12	0.01
RIC-MW7s	6/21/2013	10:30	12.71	306.97	0.14	0.01
RIC-MW7s	7/19/2013	9:25	13.20	306.48	0.13	0.01
RIC-MW7s	8/13/2013	11:30	13.07	306.61	0.05	0.00
RIC-MW7s	9/10/2013	15:56	13.63	306.05	0.09	0.00
RIC-MW7s	10/25/2013	10:45	13.90	305.78	0.16	0.01
RIC-MW7s	11/21/2013	15:25	10.61	309.07	1.19	0.06
RIC-MW7s	12/26/2013	13:15	14.32	305.36	0.08	0.00
RIC-MW7s	1/14/2014	12:10	14.42	305.26	0.30	0.02
RIC-MW7s	2/17/2014	12:03	14.19	305.49	0.07	0.00
RIC-MW7s	3/18/2014	12:43	14.21	305.47	<|0.05|	0
RIC-MW7s	4/14/2014	12:22	14.36	305.32	0.07	0.00
RIC-MW7s	5/30/2014	6:49	14.30	305.38	<|0.05|	0
RIC-MW7s	6/11/2014	12:33	14.71	304.97	0.18	0.01
RIC-MW7s	7/8/2014	13:05	14.85	304.83	0.08	0.00
RIC-MW7s	8/12/2014	11:20	15.37	304.31	0.06	0.00
RIC-MW7s	9/24/2014	7:44	14.92	304.76	0.05	0.00
RIC-MW7s	10/21/2014	12:15	15.02	304.66	0.07	0.00
RIC-MW7s	11/10/2014	12:34	14.88	304.80	<|0.05|	0
RIC-MW7s	12/16/2014	12:41	14.73	304.95	0.05	0.00
RIC-MW7s	1/7/2015	13:50	15.01	304.67	<|0.05|	0
RIC-MW7s	2/17/2015	10:11	14.18	305.50	0.06	0.00
RIC-MW7s	3/11/2015	12:36	13.50	306.18	<|0.05|	0
RIC-MW7s	4/20/2015	12:19	13.35	306.33	-0.05	-0.00
RIC-MW7s	5/11/2015	12:17	13.82	305.86	<|0.05|	0
RIC-MW7s	6/10/2015	12:20	12.42	307.26	0.05	0.00
RIC-MW7s	7/20/2015	14:00	12.10	307.58	<|0.05|	0
RIC-MW7s	8/20/2015	8:53	12.96	306.72	0.05	0.00
RIC-MW7s	9/14/2015	11:30	13.99	305.69	0.07	0.00
RIC-MW7s	10/20/2015	12:10	15.19	304.49	<|0.05|	0
RIC-MW7s	11/18/2015	8:24	15.30	304.38	<|0.05|	0
RIC-MW7s	12/16/2015	12:00	15.32	304.36	<|0.05|	0
RIC-MW7s	1/11/2016	12:28	15.76	303.92	0.12	0.01
RIC-MW7s	2/22/2016	12:15	14.67	305.01	0.09	0.00
RIC-MW7s	3/17/2016	11:41	13.13	306.55	<|0.05|	0
RIC-MW7s	4/18/2016	11:37	13.40	306.28	0.07	0.00
RIC-MW7s	5/19/2016	11:45	13.32	306.36	0.08	0.00
RIC-MW7s	6/20/2016	19:06	11.90	307.78	0.06	0.00
RIC-MW7s	7/18/2016	15:20	11.88	307.80	0.10	0.00
RIC-MW7s	8/9/2016	7:28	12.04	307.64	0.08	0.00
RIC-MW7s	9/30/2016	12:10	12.31	307.37	-0.34	-0.02
RIC-MW7s	10/25/2016	15:30	13.45	306.23	0.05	0.00

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
RIC-MW7s	11/8/2016	11:50	13.80	305.88	0.06	0.00
RIC-MW7s	12/21/2016	11:40	13.40	306.28	<|0.05|	0
RIC-MW7s	1/12/2017	12:17	12.70	306.98	0.07	0.00
RIC-MW7s	2/1/2017		N/M			
RIC-MW7s	3/27/2017	12:25	12.70	306.98	0.11	0.01
RIC-MW7s	4/18/2017	13:05	12.78	306.90	<|0.05|	0
RIC-MW7s	5/16/2017	11:54	13.05	306.63	0.05	0.00
RIC-MW7s	6/5/2017	11:54	12.80	306.88	-0.08	-0.00
RIC-MW7s	7/12/2017	12:43	11.61	308.07	0.05	0.00
RIC-MW7s	8/21/2017	9:55	11.75	307.93	-0.33	-0.02
RIC-MW7s	9/11/2017	9:45	12.10	307.58	0.06	0.00
RIC-MW7s	10/16/2017	12:49	12.93	306.75	0.06	0.00
RIC-MW7s	11/20/2017	12:46	13.20	306.48	0.06	0.00
RIC-MW7s	12/21/2017	10:53	13.50	306.18	0.08	0.00
RIC-MW7s	1/9/2018	12:23	14.26	305.42	<|0.05|	0
RIC-MW7s	2/5/2018	12:18	14.41	305.27	0.14	0.01
RIC-MW7s	3/19/2018	12:50	14.19	305.49	0.05	0.00
RIC-MW7s	4/23/2018	13:40	14.10	305.58	0.05	0.00
RIC-MW7s	5/14/2018	12:50	13.46	306.22	0.06	0.00
RIC-MW7s	6/12/2018	11:22	12.50	307.18	0.56	0.03
RIC-MW7s	7/17/2018	13:15	12.80	306.88	0.09	0.00
RIC-MW7s	8/6/2018	12:23	12.67	307.01	0.46	0.02
RIC-MW7s	9/24/2018	16:34	13.63	306.05	<|0.05|	0
RIC-MW7s	10/31/2018	14:11	13.88	305.80	<|0.05|	0
RIC-MW7s	11/15/2018		N/M			
RIC-MW7s	12/20/2018	12:55	14.77	304.91	-0.07	-0.00
RIC-MW7s	1/8/2019	12:45	15.08	304.60	0.12	0.01
RIC-MW7s	2/14/2019	13:10	10.73	308.95	0.95	0.05
RIC-MW7s	3/20/2019	12:57	14.30	305.38	<|0.05|	0
RIC-MW7s	4/16/2019	12:15	13.47	306.21	<|0.05|	0
RIC-MW7s	5/13/2019	11:40	13.72	305.96	<|0.05|	0
RIC-MW7s	6/11/2019	13:08	13.04	306.64	<|0.05|	0
RIC-MW7s	7/16/2019	11:41	12.51	307.17	0.16	0.01
RIC-MW7s	8/12/2019	12:53	12.98	306.70	0.12	0.01
RIC-MW7s	9/6/2019	14:43	13.60	306.08	0.05	0.00
RIC-MW7s	10/28/2019	12:03	14.31	305.37	0.07	0.00
RIC-MW7s	11/19/2019	12:14	14.53	305.15	0.17	0.01
RIC-MW7s	12/11/2019	11:58	14.69	304.99	0.15	0.01
RIC-MW7d	1/24/2013	11:05	12.22	307.36		
RIC-MW7d	2/14/2013	11:42	12.55	307.03		
RIC-MW7d	3/22/2013	7:33	12.73	306.85		
RIC-MW7d	4/25/2013	7:48	12.83	306.75		
RIC-MW7d	5/17/2013	7:35	13.03	306.55		
RIC-MW7d	6/21/2013	10:35	12.75	306.83		
RIC-MW7d	7/19/2013	9:28	13.23	306.35		
RIC-MW7d	8/13/2013	11:32	13.02	306.56		
RIC-MW7d	9/10/2013	16:00	13.62	305.96		
RIC-MW7d	10/25/2013	10:48	13.96	305.62		
RIC-MW7d	11/21/2013	15:29	11.70	307.88		
RIC-MW7d	12/26/2013	13:17	14.30	305.28		
RIC-MW7d	1/14/2014	12:12	14.62	304.96		
RIC-MW7d	2/17/2014	11:59	14.16	305.42		
RIC-MW7d	3/18/2014	12:51	14.15	305.43		
RIC-MW7d	4/14/2014	12:25	14.33	305.25		
RIC-MW7d	5/30/2014	6:52	14.23	305.35		
RIC-MW7d	6/11/2014	12:37	14.79	304.79		
RIC-MW7d	7/8/2014	13:01	14.83	304.75		
RIC-MW7d	8/12/2014	11:23	15.33	304.25		
RIC-MW7d	9/24/2014	7:46	14.87	304.71		
RIC-MW7d	10/21/2014	12:20	14.99	304.59		
RIC-MW7d	11/10/2014	12:36	14.81	304.77		
RIC-MW7d	12/16/2014	12:39	14.68	304.90		
RIC-MW7d	1/7/2015	13:53	14.94	304.64		
RIC-MW7d	2/17/2015	10:14	14.14	305.44		
RIC-MW7d	3/11/2015	12:39	13.44	306.14		
RIC-MW7d	4/20/2015	12:23	13.20	306.38		
RIC-MW7d	5/11/2015	12:20	13.75	305.83		
RIC-MW7d	6/10/2015	12:23	12.37	307.21		
RIC-MW7d	7/20/2015	14:03	12.02	307.56		
RIC-MW7d	8/20/2015	8:56	12.91	306.67		
RIC-MW7d	9/14/2015	11:32	13.96	305.62		
RIC-MW7d	10/20/2015	12:15	15.12	304.46		
RIC-MW7d	11/18/2015	8:27	15.21	304.37		
RIC-MW7d	12/16/2015	12:05	15.24	304.34		
RIC-MW7d	1/11/2016	12:32	15.78	303.80		
RIC-MW7d	2/22/2016	12:17	14.66	304.92		
RIC-MW7d	3/17/2016	11:43	13.03	306.55		
RIC-MW7d	4/18/2016	11:40	13.37	306.21		
RIC-MW7d	5/19/2016	11:48	13.30	306.28		
RIC-MW7d	6/20/2016	19:10	11.86	307.72		
RIC-MW7d	7/18/2016	15:23	11.88	307.70		
RIC-MW7d	8/9/2016	7:32	12.02	307.56		
RIC-MW7d	9/30/2016	12:14	11.87	307.71		
RIC-MW7d	10/25/2016	15:33	13.40	306.18		
RIC-MW7d	11/8/2016	12:01	13.76	305.82		
RIC-MW7d	12/21/2016	11:43	13.32	306.26		
RIC-MW7d	1/12/2017	12:21	12.67	306.91		
RIC-MW7d	2/1/2017		N/M			
RIC-MW7d	3/27/2017	12:20	12.71	306.87		
RIC-MW7d	4/18/2017	13:08	12.72	306.86		
RIC-MW7d	5/16/2017	11:56	13.00	306.58		
RIC-MW7d	6/5/2017	11:52	12.62	306.96		
RIC-MW7d	7/12/2017	12:44	11.56	308.02		
RIC-MW7d	8/21/2017	9:50	11.32	308.26		
RIC-MW7d	9/11/2017	9:50	12.06	307.52		
RIC-MW7d	10/16/2017	12:51	12.89	306.69		
RIC-MW7d	11/20/2017	12:49	13.16	306.42		
RIC-MW7d	12/21/2017	10:56	13.48	306.10		
RIC-MW7d	1/9/2018	12:25	14.20	305.38		
RIC-MW7d	2/5/2018	12:16	14.45	305.13		
RIC-MW7d	3/19/2018	12:54	14.14	305.44		
RIC-MW7d	4/23/2018	13:42	14.05	305.53		
RIC-MW7d	5/14/2018	12:52	13.42	306.16		
RIC-MW7d	6/12/2018	11:24	12.96	306.62		
RIC-MW7d	7/17/2018	13:12	12.79	306.79		
RIC-MW7d	8/6/2018	12:25	13.03	306.55		
RIC-MW7d	9/24/2018	16:36	13.56	306.02		
RIC-MW7d	10/31/2018	14:14	13.80	305.78		
RIC-MW7d	11/15/2018		N/M			
RIC-MW7d	12/20/2018	12:57	14.60	304.98		
RIC-MW7d	1/8/2019	12:46	15.10	304.48		
RIC-MW7d	2/14/2019	13:11	11.58	308.00		
RIC-MW7d	3/20/2019	12:58	14.23	305.35		
RIC-MW7d	4/16/2019	12:19	13.41	306.17		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
RIC-MW7d	5/13/2019	11:42	13.60	305.98		
RIC-MW7d	6/11/2019	13:09	12.96	306.62		
RIC-MW7d	7/16/2019	11:45	12.57	307.01		
RIC-MW7d	8/12/2019	12:49	13.00	306.58		
RIC-MW7d	9/6/2019	14:40	13.55	306.03		
RIC-MW7d	10/28/2019	12:04	14.28	305.30		
RIC-MW7d	11/19/2019	12:17	14.60	304.98		
RIC-MW7d	12/11/2019	12:00	14.74	304.84		
RIC-MW8s	1/24/2013	11:19	12.68	302.35	0.07	0.00
RIC-MW8s	2/14/2013	11:48	12.73	302.30	0.49	0.03
RIC-MW8s	3/22/2013	8:43	13.01	302.02	0.14	0.01
RIC-MW8s	4/25/2013	7:55	13.16	301.87	0.13	0.01
RIC-MW8s	5/17/2013	7:12	13.11	301.92	0.22	0.01
RIC-MW8s	6/21/2013	10:40	13.44	301.59	0.17	0.01
RIC-MW8s	7/19/2013	9:35	13.91	301.12	0.16	0.01
RIC-MW8s	8/13/2013	11:40	13.74	301.29	<|0.05|	0
RIC-MW8s	9/10/2013	16:10	14.43	300.60	<|0.05|	0
RIC-MW8s	10/25/2013	11:33	14.45	300.58	<|0.05|	0
RIC-MW8s	11/21/2013	15:36	13.94	301.09	<|0.05|	0
RIC-MW8s	12/26/2013	12:50	14.25	300.78	<|0.05|	0
RIC-MW8s	1/14/2014	12:15	14.42	300.61	<|0.05|	0
RIC-MW8s	2/17/2014	11:52	14.04	300.99	<|0.05|	0
RIC-MW8s	3/18/2014	12:59	13.67	301.36	<|0.05|	0
RIC-MW8s	4/14/2014	12:34	14.11	300.92	<|0.05|	0
RIC-MW8s	5/30/2014	6:40	14.41	300.62	<|0.05|	0
RIC-MW8s	6/11/2014	12:44	14.93	300.10	<|0.05|	0
RIC-MW8s	7/8/2014	12:45	15.32	299.71	<|0.05|	0
RIC-MW8s	8/12/2014	11:32	15.70	299.33	0.24	0.01
RIC-MW8s	9/24/2014	8:00	15.91	299.12	0.25	0.02
RIC-MW8s	10/21/2014	11:55	15.91	299.12	<|0.05|	0
RIC-MW8s	11/10/2014	12:28	15.28	299.75	<|0.05|	0
RIC-MW8s	12/16/2014	12:50	14.97	300.06	<|0.05|	0
RIC-MW8s	1/7/2015	14:02	15.15	299.88	<|0.05|	0
RIC-MW8s	2/17/2015	9:59	14.76	300.27	<|0.05|	0
RIC-MW8s	3/11/2015	12:50	14.45	300.58	<|0.05|	0
RIC-MW8s	4/20/2015	12:40	14.15	300.88	<|0.05|	0
RIC-MW8s	5/11/2015	12:09	14.62	300.41	<|0.05|	0
RIC-MW8s	6/10/2015	12:30	14.48	300.55	<|0.05|	0
RIC-MW8s	7/20/2015	14:07	14.48	300.55	<|0.05|	0
RIC-MW8s	8/20/2015	8:37	15.01	300.02	<|0.05|	0
RIC-MW8s	9/14/2015	11:37	15.75	299.28	<|0.05|	0
RIC-MW8s	10/20/2015	12:45	16.57	298.46	<|0.05|	0
RIC-MW8s	11/18/2015	8:14	16.18	298.85	<|0.05|	0
RIC-MW8s	12/16/2015	12:15	16.20	298.83	<|0.05|	0
RIC-MW8s	1/11/2016	12:37	16.36	298.67	<|0.05|	0
RIC-MW8s	2/22/2016	12:31	16.03	299.00		
RIC-MW8s	3/17/2016	11:33	15.70	299.33	-0.09	-0.01
RIC-MW8s	4/18/2016	11:46	15.79	299.24	<|0.05|	0
RIC-MW8s	5/19/2016	11:55	15.72	299.31	0.06	0.00
RIC-MW8s	6/20/2016	18:55	14.80	300.23	<|0.05|	0
RIC-MW8s	7/18/2016	16:13	14.80	300.23	<|0.05|	0
RIC-MW8s	8/9/2016	7:21	14.65	300.38	<|0.05|	0
RIC-MW8s	9/30/2016	12:19	14.67	300.36	-0.56	-0.03
RIC-MW8s	10/25/2016	15:40	15.80	299.23	-0.13	-0.01
RIC-MW8s	11/8/2016	12:07	15.54	299.49	<|0.05|	0
RIC-MW8s	12/21/2016	12:33	15.50	299.53	<|0.05|	0
RIC-MW8s	1/12/2017	15:06	15.30	299.73	<|0.05|	0
RIC-MW8s	2/1/2017		N/M			
RIC-MW8s	3/27/2017	12:55	14.28	300.75	<|0.05|	0
RIC-MW8s	4/18/2017	13:56	14.25	300.78	<|0.05|	0
RIC-MW8s	5/16/2017	11:48	14.21	300.82	0.11	0.01
RIC-MW8s	6/5/2017	11:47	13.92	301.11	<|0.05|	0
RIC-MW8s	7/12/2017	13:36	13.06	301.97	<|0.05|	0
RIC-MW8s	8/21/2017	10:04	13.40	301.63	<|0.05|	0
RIC-MW8s	9/11/2017	9:56	14.09	300.94	0.08	0.00
RIC-MW8s	10/16/2017	12:58	14.71	300.32	<|0.05|	0
RIC-MW8s	11/20/2017	12:36	14.83	300.20	0.07	0.00
RIC-MW8s	12/21/2017	11:39	15.01	300.02	<|0.05|	0
RIC-MW8s	1/9/2018	13:10	15.53	299.50	<|0.05|	0
RIC-MW8s	2/5/2018	12:11	15.55	299.48	0.07	0.00
RIC-MW8s	3/19/2018	12:20	15.58	299.45	0.05	0.00
RIC-MW8s	4/23/2018	13:58	15.24	299.79	<|0.05|	0
RIC-MW8s	5/14/2018	13:15	14.94	300.09	<|0.05|	0
RIC-MW8s	6/12/2018	12:15	13.81	301.22	0.25	0.02
RIC-MW8s	7/17/2018	13:38	14.13	300.90	<|0.05|	0
RIC-MW8s	8/6/2018	12:29	13.88	301.15	0.24	0.01
RIC-MW8s	9/24/2018	16:44	14.12	300.91	<|0.05|	0
RIC-MW8s	10/31/2018	14:21	14.47	300.56	<|0.05|	0
RIC-MW8s	11/15/2018		N/M			
RIC-MW8s	12/20/2018	13:30	14.80	300.23	<|0.05|	0
RIC-MW8s	1/8/2019	13:00	15.20	299.83	<|0.05|	0
RIC-MW8s	2/14/2019	13:49	14.36	300.67	0.18	0.01
RIC-MW8s	3/20/2019	12:45	14.53	300.50	<|0.05|	0
RIC-MW8s	4/16/2019	12:35	14.30	300.73	<|0.05|	0
RIC-MW8s	5/13/2019	12:01	13.68	301.35	-0.13	-0.01
RIC-MW8s	6/11/2019	13:19	13.81	301.22	0.07	0.00
RIC-MW8s	7/16/2019	12:05	13.61	301.42	<|0.05|	0
RIC-MW8s	8/12/2019	13:12	13.83	301.20	<|0.05|	0
RIC-MW8s	9/6/2019	14:50	14.04	300.99	0.08	0.00
RIC-MW8s	10/28/2019	12:10	14.83	300.20	-0.10	-0.01
RIC-MW8s	11/19/2019	12:35	15.01	300.02	0.27	0.02
RIC-MW8s	12/11/2019	12:11	14.39	300.64	-0.07	-0.00
RIC-MW8d	1/24/2013	11:21	12.63	302.28		
RIC-MW8d	2/14/2013	11:52	13.10	301.81		
RIC-MW8d	3/22/2013	8:46	13.03	301.88		
RIC-MW8d	4/25/2013	7:58	13.17	301.74		
RIC-MW8d	5/17/2013	7:15	13.21	301.70		
RIC-MW8d	6/21/2013	10:43	13.49	301.42		
RIC-MW8d	7/19/2013	9:39	13.95	300.96		
RIC-MW8d	8/13/2013	11:42	13.60	301.31		
RIC-MW8d	9/10/2013	16:14	14.32	300.59		
RIC-MW8d	10/25/2013	11:36	14.33	300.58		
RIC-MW8d	11/21/2013	15:40	13.82	301.09		
RIC-MW8d	12/26/2013	12:54	14.17	300.74		
RIC-MW8d	1/14/2014	12:18	14.31	300.60		
RIC-MW8d	2/17/2014	11:55	13.94	300.97		
RIC-MW8d	3/18/2014	13:08	13.58	301.33		
RIC-MW8d	4/14/2014	12:38	14.02	300.89		
RIC-MW8d	5/30/2014	6:43	14.28	300.63		
RIC-MW8d	6/11/2014	12:48	14.84	300.07		
RIC-MW8d	7/8/2014	12:42	15.17	299.74		
RIC-MW8d	8/12/2014	11:35	15.82	299.09		
RIC-MW8d	9/24/2014	8:02	16.04	298.87		
RIC-MW8d	10/21/2014	12:00	15.81	299.10		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
RIC-MW8d	11/10/2014	12:25	15.17	299.74		
RIC-MW8d	12/16/2014	12:48	14.85	300.06		
RIC-MW8d	1/7/2015	14:05	15.02	299.89		
RIC-MW8d	2/17/2015	10:02	14.62	300.29		
RIC-MW8d	3/11/2015	12:53	14.34	300.57		
RIC-MW8d	4/20/2015	12:43	14.03	300.88		
RIC-MW8d	5/11/2015	12:12	14.52	300.39		
RIC-MW8d	6/10/2015	12:33	14.40	300.51		
RIC-MW8d	7/20/2015	14:10	14.36	300.55		
RIC-MW8d	8/20/2015	8:40	14.92	299.99		
RIC-MW8d	9/14/2015	11:40	15.66	299.25		
RIC-MW8d	10/20/2015	12:50	16.44	298.47		
RIC-MW8d	11/18/2015	8:17	16.05	298.86		
RIC-MW8d	12/16/2015	12:20	16.06	298.85		
RIC-MW8d	1/11/2016	12:31	16.23	298.68		
RIC-MW8d	2/22/2016	12:34	Dry			
RIC-MW8d	3/17/2016	11:35	15.49	299.42		
RIC-MW8d	4/18/2016	11:48	15.63	299.28		
RIC-MW8d	5/19/2016	11:57	15.66	299.25		
RIC-MW8d	6/20/2016	18:57	14.68	300.23		
RIC-MW8d	7/18/2016	16:15	14.70	300.21		
RIC-MW8d	8/9/2016	7:23	14.53	300.38		
RIC-MW8d	9/30/2016	12:23	13.99	300.92		
RIC-MW8d	10/25/2016	15:44	15.55	299.36		
RIC-MW8d	11/8/2016	12:10	15.44	299.47		
RIC-MW8d	12/21/2016	12:36	15.41	299.50		
RIC-MW8d	1/12/2017	14:59	15.18	299.73		
RIC-MW8d	2/1/2017		N/M			
RIC-MW8d	3/27/2017	13:00	14.20	300.71		
RIC-MW8d	4/18/2017	13:39	14.16	300.75		
RIC-MW8d	5/16/2017	11:50	14.20	300.71		
RIC-MW8d	6/5/2017	11:44	13.82	301.09		
RIC-MW8d	7/12/2017	13:36	12.96	301.95		
RIC-MW8d	8/21/2017	10:07	13.32	301.59		
RIC-MW8d	9/11/2017	9:59	14.05	300.86		
RIC-MW8d	10/16/2017	13:01	14.63	300.28		
RIC-MW8d	11/20/2017	12:38	14.78	300.13		
RIC-MW8d	12/21/2017	11:43	14.91	300.00		
RIC-MW8d	1/9/2018	13:08	15.45	299.46		
RIC-MW8d	2/5/2018	12:08	15.50	299.41		
RIC-MW8d	3/19/2018	12:24	15.51	299.40		
RIC-MW8d	4/23/2018	14:01	15.14	299.77		
RIC-MW8d	5/14/2018	13:17	14.80	300.11		
RIC-MW8d	6/12/2018	12:19	13.94	300.97		
RIC-MW8d	7/17/2018	13:37	14.04	300.87		
RIC-MW8d	8/6/2018	12:31	14.00	300.91		
RIC-MW8d	9/24/2018	16:46	14.03	300.88		
RIC-MW8d	10/31/2018	14:23	14.38	300.53		
RIC-MW8d	11/15/2018		N/M			
RIC-MW8d	12/20/2018	13:31	14.66	300.25		
RIC-MW8d	1/8/2019	13:01	15.11	299.80		
RIC-MW8d	2/14/2019	13:48	14.42	300.49		
RIC-MW8d	3/20/2019	12:46	14.43	300.48		
RIC-MW8d	4/16/2019	12:32	14.19	300.72		
RIC-MW8d	5/13/2019	12:04	13.43	301.48		
RIC-MW8d	6/11/2019	13:20	13.76	301.15		
RIC-MW8d	7/16/2019	12:08	13.48	301.43		
RIC-MW8d	8/12/2019	13:15	13.75	301.16		
RIC-MW8d	9/6/2019	14:52	14.00	300.91		
RIC-MW8d	10/28/2019	12:11	14.61	300.30		
RIC-MW8d	11/19/2019	12:36	15.16	299.75		
RIC-MW8d	12/11/2019	12:13	14.20	300.71		
RIC-MW9s	1/24/2013	11:32	10.15	301.53	0.72	0.04
RIC-MW9s	2/14/2013	12:00	10.45	301.23	0.50	0.02
RIC-MW9s	3/22/2013	8:11	10.05	301.63	0.57	0.03
RIC-MW9s	4/25/2013	8:02	9.32	302.36	0.62	0.03
RIC-MW9s	5/17/2013	7:22	9.31	302.37	0.93	0.05
RIC-MW9s	6/21/2013	10:50	8.40	303.28	1.33	0.07
RIC-MW9s	7/19/2013	9:45	8.40	303.28	1.31	0.07
RIC-MW9s	8/13/2013	11:59	7.74	303.94	2.23	0.11
RIC-MW9s	9/10/2013	16:20	9.13	302.55	2.26	0.11
RIC-MW9s	10/25/2013	11:45	11.94	299.74	0.39	0.02
RIC-MW9s	11/21/2013	15:47	14.03	297.65	<|0.05|	0
RIC-MW9s	12/26/2013	13:05	12.13	299.55	0.79	0.04
RIC-MW9s	1/14/2014	12:22	12.13	299.55	0.23	0.01
RIC-MW9s	2/17/2014	11:44	11.71	299.97	0.75	0.04
RIC-MW9s	3/18/2014	13:13	9.34	302.34	1.32	0.07
RIC-MW9s	4/14/2014	12:44	11.15	300.53	1.00	0.05
RIC-MW9s	5/30/2014	6:31	10.05	301.63	0.81	0.04
RIC-MW9s	6/11/2014	12:54	10.25	301.43	0.89	0.04
RIC-MW9s	7/8/2014	12:52	9.58	302.10	1.98	0.10
RIC-MW9s	8/12/2014	11:41	11.21	300.47	1.46	0.07
RIC-MW9s	9/24/2014	8:05	11.56	300.12	1.34	0.07
RIC-MW9s	10/21/2014	12:05	13.18	298.50	0.52	0.03
RIC-MW9s	11/10/2014	12:17	11.28	300.40	1.00	0.05
RIC-MW9s	12/16/2014	12:57	10.53	301.15	1.18	0.06
RIC-MW9s	1/7/2015	14:15	12.12	299.56	1.03	0.05
RIC-MW9s	2/17/2015	9:48	10.88	300.80	1.50	0.08
RIC-MW9s	3/11/2015	12:58	10.54	301.14	1.70	0.08
RIC-MW9s	4/20/2015	12:49	10.19	301.49	1.24	0.06
RIC-MW9s	5/11/2015	11:58	10.97	300.71	0.77	0.04
RIC-MW9s	6/10/2015	12:38	10.51	301.17	1.55	0.08
RIC-MW9s	7/20/2015	14:15	9.93	301.75	1.28	0.06
RIC-MW9s	8/20/2015	8:22	11.26	300.42	1.50	0.08
RIC-MW9s	9/14/2015	11:43	13.27	298.41	0.89	0.04
RIC-MW9s	10/20/2015	13:00	14.71	296.97	0.45	0.02
RIC-MW9s	11/18/2015	8:06	13.01	298.67	1.86	0.09
RIC-MW9s	12/16/2015	12:25	13.08	298.60	1.81	0.09
RIC-MW9s	1/11/2016	12:36	13.21	298.47	1.80	0.09
RIC-MW9s	2/22/2016	12:26	12.64	299.04	1.44	0.07
RIC-MW9s	3/17/2016	11:22	12.21	299.47	1.03	0.05
RIC-MW9s	4/18/2016	11:57	12.31	299.37	1.02	0.05
RIC-MW9s	5/19/2016	12:05	12.35	299.33	0.96	0.05
RIC-MW9s	6/20/2016	18:01	10.12	301.56	2.01	0.10
RIC-MW9s	7/18/2016	16:22	10.26	301.42	1.84	0.09
RIC-MW9s	8/9/2016	7:13	12.34	299.34	1.05	0.05
RIC-MW9s	9/30/2016	12:29	9.64	302.04	1.32	0.07
RIC-MW9s	10/25/2016	15:51	12.26	299.42	0.99	0.05
RIC-MW9s	11/8/2016	12:15	13.84	297.84	0.50	0.02
RIC-MW9s	12/21/2016	12:44	12.20	299.48	1.21	0.06
RIC-MW9s	1/12/2017	14:45	12.60	299.08	1.13	0.06
RIC-MW9s	2/1/2017		N/M			
RIC-MW9s	3/27/2017	12:40	10.00	301.68	2.13	0.11
RIC-MW9s	4/18/2017	14:05	11.56	300.12	0.40	0.02

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
RIC-MW9s	5/16/2017	11:40	9.74	301.94	2.55	0.13
RIC-MW9s	6/5/2017	11:40	10.78	300.90	1.23	0.06
RIC-MW9s	7/12/2017	13:44	8.14	303.54	2.10	0.11
RIC-MW9s	8/21/2017	10:14	8.91	302.77	2.44	0.12
RIC-MW9s	9/11/2017	10:03	11.23	300.45	1.60	0.08
RIC-MW9s	10/16/2017	13:04	12.69	298.99	1.02	0.05
RIC-MW9s	11/20/2017	12:28	11.81	299.87	1.45	0.07
RIC-MW9s	12/21/2017	11:50	12.10	299.58	1.94	0.10
RIC-MW9s	1/9/2018	13:14	12.50	299.18	1.42	0.07
RIC-MW9s	2/5/2018	12:01	12.50	299.18	1.24	0.06
RIC-MW9s	3/19/2018	12:10	12.43	299.25	1.26	0.06
RIC-MW9s	4/23/2018	14:05	11.85	299.83	1.33	0.07
RIC-MW9s	5/14/2018	13:05	11.26	300.42	1.21	0.06
RIC-MW9s	6/12/2018	12:30	9.36	302.32	1.66	0.08
RIC-MW9s	7/17/2018	13:27	8.12	303.56	2.45	0.12
RIC-MW9s	8/6/2018	12:37	9.40	302.28	1.62	0.08
RIC-MW9s	9/24/2018	16:55	11.34	300.34	0.89	0.04
RIC-MW9s	10/31/2018	14:26	11.93	299.75	0.90	0.04
RIC-MW9s	11/15/2018		N/M			
RIC-MW9s	12/20/2018	13:15	12.53	299.15	0.41	0.02
RIC-MW9s	1/8/2019	13:10	13.08	298.60	0.15	0.01
RIC-MW9s	2/14/2019	13:24	10.80	300.88	1.43	0.07
RIC-MW9s	3/20/2019	12:36	10.11	301.57	1.49	0.07
RIC-MW9s	4/16/2019	12:42	10.14	301.54	1.38	0.07
RIC-MW9s	5/13/2019	12:10	8.21	303.47	2.03	0.10
RIC-MW9s	6/11/2019	13:27	10.20	301.48	0.76	0.04
RIC-MW9s	7/16/2019	12:15	8.35	303.33	1.39	0.07
RIC-MW9s	8/12/2019	13:08	8.00	303.68	1.95	0.10
RIC-MW9s	9/6/2019	15:00	8.00	303.68	2.63	0.13
RIC-MW9s	10/28/2019	12:16	9.54	302.14	1.85	0.09
RIC-MW9s	11/19/2019	12:28	11.33	300.35	0.69	0.03
RIC-MW9s	12/11/2019	12:17	10.07	301.61	1.37	0.07
RIC-MW9d	1/24/2013	11:35	10.84	300.81		
RIC-MW9d	2/14/2013	12:04	10.92	300.73		
RIC-MW9d	3/22/2013	8:13	10.59	301.06		
RIC-MW9d	4/25/2013	8:05	9.91	301.74		
RIC-MW9d	5/17/2013	7:24	10.21	301.44		
RIC-MW9d	6/21/2013	10:53	9.70	301.95		
RIC-MW9d	7/19/2013	9:50	9.68	301.97		
RIC-MW9d	8/13/2013	12:01	9.94	301.71		
RIC-MW9d	9/10/2013	16:23	11.36	300.29		
RIC-MW9d	10/25/2013	11:48	12.30	299.35		
RIC-MW9d	11/21/2013	15:50	13.97	297.68		
RIC-MW9d	12/26/2013	13:08	12.89	298.76		
RIC-MW9d	1/14/2014	12:25	12.33	299.32		
RIC-MW9d	2/17/2014	11:47	12.43	299.22		
RIC-MW9d	3/18/2014	13:19	10.63	301.02		
RIC-MW9d	4/14/2014	12:47	12.12	299.53		
RIC-MW9d	5/30/2014	6:34	10.83	300.82		
RIC-MW9d	6/11/2014	12:58	11.11	300.54		
RIC-MW9d	7/8/2014	12:49	11.53	300.12		
RIC-MW9d	8/12/2014	11:44	12.64	299.01		
RIC-MW9d	9/24/2014	8:07	12.87	298.78		
RIC-MW9d	10/21/2014	12:10	13.67	297.98		
RIC-MW9d	11/10/2014	12:20	12.25	299.40		
RIC-MW9d	12/16/2014	12:55	11.68	299.97		
RIC-MW9d	1/7/2015	14:18	13.12	298.53		
RIC-MW9d	2/17/2015	9:51	12.35	299.30		
RIC-MW9d	3/11/2015	13:00	12.21	299.44		
RIC-MW9d	4/20/2015	12:51	11.40	300.25		
RIC-MW9d	5/11/2015	12:01	11.71	299.94		
RIC-MW9d	6/10/2015	12:41	12.03	299.62		
RIC-MW9d	7/20/2015	14:17	11.18	300.47		
RIC-MW9d	8/20/2015	8:25	12.73	298.92		
RIC-MW9d	9/14/2015	11:45	14.13	297.52		
RIC-MW9d	10/20/2015	13:05	15.13	296.52		
RIC-MW9d	11/18/2015	8:09	14.84	296.81		
RIC-MW9d	12/16/2015	12:30	14.86	296.79		
RIC-MW9d	1/11/2016	12:40	14.98	296.67		
RIC-MW9d	2/22/2016	12:23	14.05	297.60		
RIC-MW9d	3/17/2016	11:24	13.21	298.44		
RIC-MW9d	4/18/2016	12:00	13.30	298.35		
RIC-MW9d	5/19/2016	12:08	13.28	298.37		
RIC-MW9d	6/20/2016	18:03	12.10	299.55		
RIC-MW9d	7/18/2016	16:24	12.07	299.58		
RIC-MW9d	8/9/2016	7:16	13.36	298.29		
RIC-MW9d	9/30/2016	12:33	10.93	300.72		
RIC-MW9d	10/25/2016	15:55	13.22	298.43		
RIC-MW9d	11/8/2016	12:17	14.31	297.34		
RIC-MW9d	12/21/2016	12:40	13.38	298.27		
RIC-MW9d	1/12/2017	14:50	13.70	297.95		
RIC-MW9d	2/1/2017		N/M			
RIC-MW9d	3/27/2017	12:45	12.10	299.55		
RIC-MW9d	4/18/2017	14:08	11.93	299.72		
RIC-MW9d	5/16/2017	11:43	12.26	299.39		
RIC-MW9d	6/5/2017	11:37	11.98	299.67		
RIC-MW9d	7/12/2017	13:43	10.21	301.44		
RIC-MW9d	8/21/2017	10:17	11.32	300.33		
RIC-MW9d	9/11/2017	10:06	12.80	298.85		
RIC-MW9d	10/16/2017	13:07	13.68	297.97		
RIC-MW9d	11/20/2017	12:30	13.23	298.42		
RIC-MW9d	12/21/2017	11:52	14.01	297.64		
RIC-MW9d	1/9/2018	13:16	13.89	297.76		
RIC-MW9d	2/5/2018	12:03	13.71	297.94		
RIC-MW9d	3/19/2018	12:14	13.66	297.99		
RIC-MW9d	4/23/2018	14:07	13.15	298.50		
RIC-MW9d	5/14/2018	13:07	12.44	299.21		
RIC-MW9d	6/12/2018	12:34	10.99	300.66		
RIC-MW9d	7/17/2018	13:29	10.54	301.11		
RIC-MW9d	8/6/2018	12:36	10.99	300.66		
RIC-MW9d	9/24/2018	16:57	12.20	299.45		
RIC-MW9d	10/31/2018	14:28	12.80	298.85		
RIC-MW9d	11/15/2018		N/M			
RIC-MW9d	12/20/2018	13:18	12.91	298.74		
RIC-MW9d	1/8/2019	13:11	13.20	298.45		
RIC-MW9d	2/14/2019	13:23	12.20	299.45		
RIC-MW9d	3/20/2019	12:37	11.57	300.08		
RIC-MW9d	4/16/2019	12:45	11.49	300.16		
RIC-MW9d	5/13/2019	12:13	10.21	301.44		
RIC-MW9d	6/11/2019	13:29	10.93	300.72		
RIC-MW9d	7/16/2019	12:18	9.71	301.94		
RIC-MW9d	8/12/2019	13:10	9.92	301.73		
RIC-MW9d	9/6/2019	15:02	10.60	301.05		
RIC-MW9d	10/28/2019	12:18	11.36	300.29		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
RIC-MW9d	11/19/2019	12:30	11.99	299.66		
RIC-MW9d	12/11/2019	12:20	11.41	300.24		
SIE-MW1	1/24/2013	13:15	89.91	204.10		
SIE-MW1	2/13/2013	16:24	93.78	200.23		
SIE-MW1	3/21/2013	9:05	105.30	188.71		
SIE-MW1	4/24/2013	16:21	112.66	181.35		
SIE-MW1	5/16/2013	8:35	116.70	177.31		
SIE-MW1	6/20/2013	7:45	121.49	172.52		
SIE-MW1	7/18/2013	15:42	121.30	172.71		
SIE-MW1	8/14/2013	14:22	122.83	171.18		
SIE-MW1	9/11/2013	11:32	Dry			
SIE-MW1	10/25/2013	7:21	89.29	204.72		
SIE-MW1	11/21/2013	11:58	88.72	205.29		
SIE-MW1	12/27/2013	10:08	88.62	205.39		
SIE-MW1	1/15/2014	17:34	89.05	204.96		
SIE-MW1	2/19/2014	13:25	89.83	204.18		
SIE-MW1	3/19/2014	6:50	90.64	203.37		
SIE-MW1	4/15/2014	7:09	97.92	196.09		
SIE-MW1	5/29/2014	8:13	88.58	205.43		
SIE-MW1	6/12/2014	6:56	87.67	206.34		
SIE-MW1	7/9/2014	7:24	Dry			
SIE-MW1	8/13/2014	7:02	87.46	206.55		
SIE-MW1	9/24/2014	15:35	87.20	206.81		
SIE-MW1	10/21/2014	16:40	86.98	207.03		
SIE-MW1	11/13/2014	7:30	85.50	208.51		
SIE-MW1	12/16/2014	17:29	87.04	206.97		
SIE-MW1	1/8/2015	7:28	86.93	207.08		
SIE-MW1	2/16/2015	16:51	83.02	210.99		
SIE-MW1	3/12/2015	8:11	88.74	205.27		
SIE-MW1	4/21/2015	15:01	87.61	206.40		
SIE-MW1	5/12/2015	14:42	86.39	207.62		
SIE-MW1	6/11/2015	7:08	86.33	207.68		
SIE-MW1	7/21/2015	7:58	87.03	206.98		
SIE-MW1	8/26/2015	6:51	87.10	206.91		
SIE-MW1	9/15/2015	6:40	87.00	207.01		
SIE-MW1	10/20/2015	17:05	85.45	208.56		
SIE-MW1	11/16/2015	14:38	86.22	207.79		
SIE-MW1	12/17/2015	7:40	87.89	206.12		
SIE-MW1	1/12/2016	7:15	88.08	205.93		
SIE-MW1	2/23/2016	17:28	89.52	204.49		
SIE-MW1	3/18/2016	7:33	90.41	203.60		
SIE-MW1	4/19/2016	7:43	91.26	202.75		
SIE-MW1	5/3/2016	15:33	91.33	202.68		
SIE-MW1	6/21/2016		N/M			
SIE-MW1	7/19/2016		N/M			
SIE-MW1	8/24/2016	9:23	83.95	210.06		
SIE-MW1	9/27/2016	12:45	N/M			
SIE-MW1	10/27/2016	10:30	89.93	204.08		
SIE-MW1	11/9/2016	12:45	78.04	215.97		
SIE-MW1	12/22/2016	9:45	81.10	212.91		
SIE-MW1	1/13/2017	11:05	82.90	211.11		
SIE-MW1	2/1/2017		N/M			
SIE-MW1	3/29/2017	8:10	87.34	206.67		
SIE-MW1	4/19/2017	11:10	87.21	206.80		
SIE-MW1	5/17/2017	12:24	87.50	206.51		
SIE-MW1	6/6/2017	12:15	86.24	207.77		
SIE-MW1	7/13/2017	10:07	81.80	212.21		
SIE-MW1	8/22/2017	15:21	79.15	214.86		
SIE-MW1	9/11/2017	16:04	79.75	214.26		
SIE-MW1	10/17/2017	8:00	81.00	213.01		
SIE-MW1	11/27/2017	15:18	81.63	212.38		
SIE-MW1	12/22/2017	8:08	84.70	209.31		
SIE-MW1	1/10/2018	8:55	85.62	208.39		
SIE-MW1	2/6/2018	14:22	84.55	209.46		
SIE-MW1	3/20/2018	14:15	83.85	210.16		
SIE-MW1	4/24/2018	16:35	89.84	204.17		
SIE-MW1	5/16/2018	7:15	90.07	203.94		
SIE-MW1	6/13/2018	15:50	88.00	206.01		
SIE-MW1	7/18/2018	8:30	82.65	211.36		
SIE-MW1	8/7/2018	14:14	88.06	205.95		
SIE-MW1	9/25/2018	16:25	79.54	214.47		
SIE-MW1	10/31/2018	7:03	80.16	213.85		
SIE-MW1	11/14/2018	14:18	88.65	205.36		
SIE-MW1	12/26/2018	15:30	83.72	210.29		
SIE-MW1	1/9/2019	14:13	84.53	209.48		
SIE-MW1	2/13/2019	8:58	86.16	207.85		
SIE-MW1	3/27/2019	12:41	90.37	203.64		
SIE-MW1	4/17/2019	7:30	89.36	204.65		
SIE-MW1	5/15/2019	7:07	89.31	204.70		
SIE-MW1	6/12/2019	15:58	86.12	207.89		
SIE-MW1	7/17/2019	10:06	83.59	210.42		
SIE-MW1	8/13/2019	16:09	82.00	212.01		
SIE-MW1	9/1/2019	9:10	81.98	212.03		
SIE-MW1	10/29/2019	8:25	83.88	210.13		
SIE-MW1	11/20/2019	14:04	84.90	209.11		
SIE-MW1	12/12/2019	6:59	85.90	208.11		
SIE-MW2	1/24/2013	13:20	102.55	192.69		
SIE-MW2	2/13/2013	16:35	104.01	191.23		
SIE-MW2	3/21/2013	8:13	104.37	190.87		
SIE-MW2	4/24/2013	16:10	Dry			
SIE-MW2	5/16/2013	8:45	Dry			
SIE-MW2	6/20/2013	7:35	Dry			
SIE-MW2	7/18/2013	15:20	Dry			
SIE-MW2	8/14/2013	14:15	Dry			
SIE-MW2	9/11/2013	11:44	Dry			
SIE-MW2	10/25/2013	7:33	Dry			
SIE-MW2	11/21/2013	12:02	Dry			
SIE-MW2	12/27/2013	9:55	Dry			
SIE-MW2	1/15/2014	17:16	Dry			
SIE-MW2	2/19/2014	13:12	Dry			
SIE-MW2	3/19/2014	7:00	Dry			
SIE-MW2	4/15/2014	7:16	Dry			
SIE-MW2	5/29/2014	8:20	Dry			
SIE-MW2	6/12/2014	7:02	Dry			
SIE-MW2	7/9/2014	7:07	Dry			
SIE-MW2	8/13/2014	7:11	Dry			
SIE-MW2	9/24/2014	15:25	Dry			
SIE-MW2	10/21/2014	16:45	Dry			
SIE-MW2	11/13/2014	7:32	Dry			
SIE-MW2	12/16/2014	17:24	Dry			
SIE-MW2	1/8/2015	7:36	Dry			
SIE-MW2	2/16/2015	16:46	Dry			
SIE-MW2	3/12/2015	8:02	Dry			
SIE-MW2	4/21/2015	14:55	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SIE-MW2	5/12/2015	14:48	Dry			
SIE-MW2	6/11/2015	7:14	Dry			
SIE-MW2	7/21/2015	8:10	Dry			
SIE-MW2	8/26/2015	6:58	Dry			
SIE-MW2	9/15/2015	6:55	Dry			
SIE-MW2	10/20/2015	17:15	Dry			
SIE-MW2	11/16/2015	14:30	Dry			
SIE-MW2	12/17/2015	7:35	Dry			
SIE-MW2	1/12/2016	7:05	Dry			
SIE-MW2	2/23/2016	17:20	Dry			
SIE-MW2	3/18/2016	7:36	Dry			
SIE-MW2	4/19/2016	7:14	Dry			
SIE-MW2	5/3/2016	15:23	Dry			
SIE-MW2	6/21/2016		N/M			
SIE-MW2	7/19/2016	11:07	Dry			
SIE-MW2	8/24/2016	9:38	Dry			
SIE-MW2	9/27/2016	12:15	Dry			
SIE-MW2	10/27/2016	10:52	Dry			
SIE-MW2	11/9/2016	12:50	Dry			
SIE-MW2	12/22/2016	9:30	Dry			
SIE-MW2	1/13/2017	11:40	Dry			
SIE-MW2	2/1/2017		N/M			
SIE-MW2	3/29/2017	7:45	Dry			
SIE-MW2	4/19/2017	11:25	Dry			
SIE-MW2	5/17/2017	12:17	Dry			
SIE-MW2	6/6/2017	12:20	Dry			
SIE-MW2	7/13/2017	10:35	Dry			
SIE-MW2	8/22/2017	15:15	Dry			
SIE-MW2	9/11/2017	15:57	Dry			
SIE-MW2	10/17/2017	8:20	Dry			
SIE-MW2	11/27/2017	15:01	Dry			
SIE-MW2	12/22/2017	8:31	Dry			
SIE-MW2	1/10/2018	8:41	101.41	193.83		
SIE-MW2	2/6/2018	14:29	100.37	194.87		
SIE-MW2	3/20/2018	15:00	104.61	190.63		
SIE-MW2	4/24/2018	16:47	Dry			
SIE-MW2	5/16/2018	7:00	Dry			
SIE-MW2	6/13/2018	15:36	102.16	193.08		
SIE-MW2	7/18/2018	8:24	Dry			
SIE-MW2	8/7/2018	14:25	Dry			
SIE-MW2	9/25/2018	16:40	N/M			
SIE-MW2	10/31/2018	6:45	N/M			
SIE-MW2	11/14/2018	14:12	104.90	190.34		
SIE-MW2	12/26/2018	15:23	N/M			
SIE-MW2	1/9/2019	14:02	N/M			
SIE-MW2	2/13/2019	9:15	100.76	194.48		
SIE-MW2	3/27/2019	12:27	105.36	189.88		
SIE-MW2	4/17/2019	7:00	Dry			
SIE-MW2	5/15/2019	6:52	Dry			
SIE-MW2	6/12/2019	15:50	Dry			
SIE-MW2	7/17/2019	9:59	Dry			
SIE-MW2	8/13/2019	16:05	Dry			
SIE-MW2	9/1/2019	8:56	Dry			
SIE-MW2	10/29/2019	8:31	Dry			
SIE-MW2	11/20/2019	13:59	Dry			
SIE-MW2	12/12/2019	6:53	Dry			
SIE-MW3	1/24/2013	13:25	103.40	193.20		
SIE-MW3	2/13/2013	16:45	104.84	191.76		
SIE-MW3	3/21/2013	8:25	105.01	191.59		
SIE-MW3	4/24/2013	16:25	121.12	175.48		
SIE-MW3	5/16/2013	8:41	122.51	174.09		
SIE-MW3	6/20/2013	7:49	114.38	182.22		
SIE-MW3	7/18/2013	15:35	115.52	181.08		
SIE-MW3	8/14/2013	14:25	117.18	179.42		
SIE-MW3	9/11/2013	11:37	118.47	178.13		
SIE-MW3	10/25/2013	7:27	120.42	176.18		
SIE-MW3	11/21/2013	12:05	121.89	174.71		
SIE-MW3	12/27/2013	10:01	Dry			
SIE-MW3	1/15/2014	17:28	123.07	173.53		
SIE-MW3	2/19/2014	13:20	Dry			
SIE-MW3	3/19/2014	7:11	Dry			
SIE-MW3	4/15/2014	7:28	Dry			
SIE-MW3	5/29/2014	8:31	Dry			
SIE-MW3	6/12/2014	7:09	Dry			
SIE-MW3	7/9/2014	7:15	87.42	209.18		
SIE-MW3	8/13/2014	7:21	Dry			
SIE-MW3	9/24/2014	15:45	Dry			
SIE-MW3	10/21/2014	16:50	Dry			
SIE-MW3	11/13/2014	7:12	Dry			
SIE-MW3	12/16/2014	17:14	Dry			
SIE-MW3	1/8/2015	7:46	Dry			
SIE-MW3	2/16/2015	16:58	Dry			
SIE-MW3	3/12/2015	8:17	Dry			
SIE-MW3	4/21/2015	15:09	Dry			
SIE-MW3	5/12/2015	14:58	112.72	183.88		
SIE-MW3	6/11/2015	7:21	112.52	184.08		
SIE-MW3	7/21/2015	8:05	112.41	184.19		
SIE-MW3	8/26/2015	7:04	112.38	184.22		
SIE-MW3	9/15/2015	7:05	112.04	184.56		
SIE-MW3	10/20/2015	17:40	110.49	186.11		
SIE-MW3	11/16/2015	14:46	109.75	186.85		
SIE-MW3	12/17/2015	7:45	109.83	186.77		
SIE-MW3	1/12/2016	7:10	110.61	185.99		
SIE-MW3	2/23/2016	17:33	111.92	184.68		
SIE-MW3	3/18/2016	7:39	112.90	183.70		
SIE-MW3	4/19/2016	7:52	113.79	182.81		
SIE-MW3	5/3/2016	15:39	113.92	182.68		
SIE-MW3	6/21/2016	16:52	113.09	183.51		
SIE-MW3	7/19/2016	11:20	112.22	184.38		
SIE-MW3	8/24/2016	9:16	109.93	186.67		
SIE-MW3	9/27/2016	12:30	92.24	204.36		
SIE-MW3	10/27/2016	10:41	109.08	187.52		
SIE-MW3	11/9/2016	12:55	92.62	203.98		
SIE-MW3	12/22/2016	9:55	92.37	204.23		
SIE-MW3	1/13/2017	11:15	97.52	199.08		
SIE-MW3	2/1/2017		N/M			
SIE-MW3	3/29/2017	7:53	103.34	193.26		
SIE-MW3	4/19/2017	11:31	104.07	192.53		
SIE-MW3	5/17/2017	12:30	104.38	192.22		
SIE-MW3	6/6/2017	12:26	102.67	193.93		
SIE-MW3	7/13/2017	10:13	94.89	201.71		
SIE-MW3	8/22/2017	15:25	89.22	207.38		
SIE-MW3	9/11/2017	14:52	89.97	206.63		
SIE-MW3	10/17/2017	8:08	98.50	198.10		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SIE-MW3	11/27/2017	15:13	99.22	197.38		
SIE-MW3	12/22/2017	8:16	103.10	193.50		
SIE-MW3	1/10/2018	8:48	95.90	200.70		
SIE-MW3	2/6/2018	14:36	95.06	201.54		
SIE-MW3	3/20/2018	14:30	101.41	195.19		
SIE-MW3	4/24/2018	17:04	109.30	187.30		
SIE-MW3	5/16/2018	7:25	107.96	188.64		
SIE-MW3	6/13/2018	15:56	98.02	198.58		
SIE-MW3	7/18/2018	8:37	98.09	198.51		
SIE-MW3	8/7/2018	14:33	94.00	202.60		
SIE-MW3	9/25/2018	16:50	91.62	204.98		
SIE-MW3	10/31/2018	6:55	90.96	205.64		
SIE-MW3	11/14/2018	14:05	98.53	198.07		
SIE-MW3	12/26/2018	15:35	92.60	204.00		
SIE-MW3	1/9/2019	14:20	89.72	206.88		
SIE-MW3	2/13/2019	9:26	97.29	199.31		
SIE-MW3	3/27/2019	12:35	96.31	200.29		
SIE-MW3	4/17/2019	7:15	105.31	191.29		
SIE-MW3	5/15/2019	6:59	107.30	189.30		
SIE-MW3	6/12/2019	16:02	103.84	192.76		
SIE-MW3	7/17/2019	10:25	93.41	203.19		
SIE-MW3	8/13/2019	16:16	91.11	205.49		
SIE-MW3	9/1/2019	9:03	92.00	204.60		
SIE-MW3	10/29/2019	8:36	92.62	203.98		
SIE-MW3	11/20/2019	14:12	92.51	204.09		
SIE-MW3	12/12/2019	7:05	87.92	208.68		
SIE-MW4	1/24/2013	13:30	108.51	192.11		
SIE-MW4	2/13/2013	16:18	109.71	190.91		
SIE-MW4	3/21/2013	8:50	110.24	190.38		
SIE-MW4	4/24/2013	16:15	124.98	175.64		
SIE-MW4	5/16/2013	8:50	126.47	174.15		
SIE-MW4	6/20/2013	7:39	Dry			
SIE-MW4	7/18/2013	15:27	Dry			
SIE-MW4	8/14/2013	14:18	Dry			
SIE-MW4	9/11/2013	11:51	Dry			
SIE-MW4	10/25/2013	7:15	Dry			
SIE-MW4	11/21/2013	11:57	Dry			
SIE-MW4	12/27/2013	10:15	Dry			
SIE-MW4	1/15/2014	17:07	Dry			
SIE-MW4	2/19/2014	13:03	Dry			
SIE-MW4	3/19/2014	6:43	Dry			
SIE-MW4	4/15/2014	7:01	Dry			
SIE-MW4	5/29/2014	8:06	Dry			
SIE-MW4	6/12/2014	6:45	Dry			
SIE-MW4	7/9/2014	7:00	Dry			
SIE-MW4	8/13/2014	6:51	Dry			
SIE-MW4	9/24/2014	15:15	Dry			
SIE-MW4	10/21/2014	16:35	Dry			
SIE-MW4	11/13/2014	7:24	Dry			
SIE-MW4	12/16/2014	17:19	Dry			
SIE-MW4	1/8/2015	7:21	Dry			
SIE-MW4	2/16/2015	16:38	Dry			
SIE-MW4	3/12/2015	7:51	Dry			
SIE-MW4	4/21/2015	14:49	Dry			
SIE-MW4	5/12/2015	14:37	Dry			
SIE-MW4	6/11/2015	7:00	Dry			
SIE-MW4	7/21/2015	8:12	Dry			
SIE-MW4	8/26/2015	6:41	Dry			
SIE-MW4	9/15/2015	6:30	Dry			
SIE-MW4	10/20/2015	16:50	Dry			
SIE-MW4	11/16/2015	14:21	Dry			
SIE-MW4	12/17/2015	7:30	Dry			
SIE-MW4	1/12/2016	7:00	Dry			
SIE-MW4	2/23/2016	17:15	Dry			
SIE-MW4	3/18/2016	7:43	Dry			
SIE-MW4	4/19/2016	7:06	Dry			
SIE-MW4	5/3/2016	15:16	Dry			
SIE-MW4	6/21/2016	16:35	Dry			
SIE-MW4	7/19/2016	11:00	Dry			
SIE-MW4	8/24/2016	9:31	Dry			
SIE-MW4	9/27/2016	11:50	Dry			
SIE-MW4	10/27/2016	10:58	Dry			
SIE-MW4	11/9/2016	12:40	Dry			
SIE-MW4	12/22/2016	9:15	Dry			
SIE-MW4	1/13/2017	11:27	Dry			
SIE-MW4	2/1/2017		N/M			
SIE-MW4	3/29/2017	7:32	Dry			
SIE-MW4	4/19/2017	11:39	Obs			
SIE-MW4	5/17/2017	12:10	Dry			
SIE-MW4	6/6/2017	12:10	Dry			
SIE-MW4	7/13/2017	10:30	Obs			
SIE-MW4	8/22/2017	15:22	Obs			
SIE-MW4	9/11/2017	15:47	Dry			
SIE-MW4	10/17/2017	8:40	Dry			
SIE-MW4	11/27/2017	15:07	Dry			
SIE-MW4	12/22/2017	8:25	Dry			
SIE-MW4	1/10/2018	8:34	Dry			
SIE-MW4	2/6/2018	14:17	Dry			
SIE-MW4	3/20/2018	15:20	Dry			
SIE-MW4	4/24/2018	16:25	Dry			
SIE-MW4	5/16/2018	6:50	Dry			
SIE-MW4	6/13/2018	15:30	Dry			
SIE-MW4	7/18/2018	8:17	Dry			
SIE-MW4	8/7/2018	14:14	Dry			
SIE-MW4	9/25/2018	17:00	Obs			
SIE-MW4	10/31/2018	6:30	Obs			
SIE-MW4	11/14/2018	13:55	Dry			
SIE-MW4	12/26/2018	15:18	Dry			
SIE-MW4	1/9/2019	13:59	Dry			
SIE-MW4	2/13/2019	9:06	Dry			
SIE-MW4	3/27/2019	12:20	Dry			
SIE-MW4	4/17/2019	6:45	Dry			
SIE-MW4	5/15/2019	6:45	Dry			
SIE-MW4	6/12/2019	15:42	Dry			
SIE-MW4	7/17/2019	9:53	Dry			
SIE-MW4	8/13/2019	16:00	Dry			
SIE-MW4	9/1/2019	8:50	Dry			
SIE-MW4	10/29/2019	8:20	Dry			
SIE-MW4	11/20/2019	13:52	Dry			
SIE-MW4	12/12/2019	6:49	Dry			
SO2-MW1	1/22/2013	13:53	65.51	208.96		
SO2-MW1	2/12/2013	12:45	66.86	207.61		
SO2-MW1	3/19/2013	14:00	67.92	206.55		
SO2-MW1	4/23/2013	12:03	69.93	204.54		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SO2-MW1	5/14/2013	12:58	70.62	203.85		
SO2-MW1	6/19/2013	12:35	Dry			
SO2-MW1	7/17/2013	11:50	Dry			
SO2-MW1	8/16/2013	8:35	Dry			
SO2-MW1	9/13/2013	8:05	Dry			
SO2-MW1	10/23/2013	16:56	Dry			
SO2-MW1	11/19/2013	9:55	Dry			
SO2-MW1	12/26/2013	12:33	Dry			
SO2-MW1	1/16/2014	8:46	Dry			
SO2-MW1	2/21/2014	8:17	Dry			
SO2-MW1	3/20/2014	9:23	Dry			
SO2-MW1	4/16/2014	9:06	Dry			
SO2-MW1	5/22/2014	13:00	Dry			
SO2-MW1	6/13/2014	8:05	Dry			
SO2-MW1	7/9/2014	17:21	Dry			
SO2-MW1	8/21/2014	10:50	Dry			
SO2-MW1	9/25/2014	15:10	Dry			
SO2-MW1	10/23/2014	8:25	Dry			
SO2-MW1	11/13/2014	9:08	Dry			
SO2-MW1	12/17/2014	15:50	Dry			
SO2-MW1	1/9/2015	10:37	Dry			
SO2-MW1	2/25/2015	8:17	Dry			
SO2-MW1	3/13/2015	6:57	Dry			
SO2-MW1	4/22/2015	6:44	Dry			
SO2-MW1	5/14/2015	14:53	Dry			
SO2-MW1	6/12/2015	9:41	Dry			
SO2-MW1	7/22/2015	7:05	Dry			
SO2-MW1	8/19/2015	13:23	Dry			
SO2-MW1	9/16/2015	7:46	Dry			
SO2-MW1	10/22/2015	10:30	Dry			
SO2-MW1	11/19/2015	11:29	Dry			
SO2-MW1	12/18/2015	8:00	Dry			
SO2-MW1	1/13/2016	9:38	Dry			
SO2-MW1	2/24/2016	15:30	Dry			
SO2-MW1	3/18/2016	11:45	Dry			
SO2-MW1	4/20/2016	7:05	Dry			
SO2-MW1	5/5/2016	11:04	Dry			
SO2-MW1	6/23/2016	14:35	Dry			
SO2-MW1	7/20/2016	7:35	Dry			
SO2-MW1	8/8/2016	11:41	Dry			
SO2-MW1	9/29/2016	15:55	Dry			
SO2-MW1	10/28/2016	7:35	Dry			
SO2-MW1	11/9/2016	16:04	Dry			
SO2-MW1	12/23/2016	8:49	Dry			
SO2-MW1	1/5/2017	9:25	Dry			
SO2-MW1	2/1/2017		N/M			
SO2-MW1	3/22/2017	11:40	Dry			
SO2-MW1	4/20/2017	13:00	Dry			
SO2-MW1	5/10/2017	14:37	Dry			
SO2-MW1	6/7/2017	11:02	Dry			
SO2-MW1	7/14/2017	12:00	Dry			
SO2-MW1	8/24/2017	7:45	Dry			
SO2-MW1	9/12/2017	15:42	Dry			
SO2-MW1	10/18/2017	9:10	Dry			
SO2-MW1	11/22/2017	10:40	Dry			
SO2-MW1	12/22/2017	12:30	Dry			
SO2-MW1	1/11/2018	9:29	Dry			
SO2-MW1	2/8/2018	7:15	Dry			
SO2-MW1	3/22/2018	11:20	Dry			
SO2-MW1	4/24/2018	11:20	Dry			
SO2-MW1	5/10/2018	15:51	Dry			
SO2-MW1	6/14/2018	9:29	Dry			
SO2-MW1	7/19/2018	13:42	Dry			
SO2-MW1	8/8/2018	13:16	Dry			
SO2-MW1	9/27/2018	7:05	Dry			
SO2-MW1	10/30/2018	10:25	Dry			
SO2-MW1	11/29/2018	7:51	Dry			
SO2-MW1	12/27/2018	15:14	Dry			
SO2-MW1	1/11/2019	8:16	Dry			
SO2-MW1	2/15/2019	10:28	Dry			
SO2-MW1	3/22/2019	11:46	Dry			
SO2-MW1	4/19/2019	9:21	Dry			
SO2-MW1	5/16/2019	12:09	Dry			
SO2-MW1	6/13/2019	10:38	Dry			
SO2-MW1	7/18/2019	10:13	Dry			
SO2-MW1	8/15/2019	11:48	Dry			
SO2-MW1	9/14/2019	15:17	Dry			
SO2-MW1	10/29/2019	15:37	Dry			
SO2-MW1	11/21/2019		Dry			
SO2-MW1	12/12/2019	13:58	Dry			
SO2-MW2	1/22/2013	13:32	62.11	210.37		
SO2-MW2	2/12/2013	13:13	62.56	209.92		
SO2-MW2	3/19/2013	13:10	68.44	204.04		
SO2-MW2	4/23/2013	11:41	68.14	204.34		
SO2-MW2	5/14/2013	13:42	72.46	200.02		
SO2-MW2	6/19/2013	12:13	Dry			
SO2-MW2	7/17/2013	12:48	Dry			
SO2-MW2	8/16/2013	8:23	Dry			
SO2-MW2	9/13/2013	7:00	Dry			
SO2-MW2	10/23/2013	16:46	Dry			
SO2-MW2	11/19/2013	10:05	72.45	200.03		
SO2-MW2	12/26/2013	12:56	72.50	199.98		
SO2-MW2	1/16/2014	8:52	Dry			
SO2-MW2	2/21/2014	8:55	Dry			
SO2-MW2	3/20/2014	8:45	Dry			
SO2-MW2	4/16/2014	8:26	Dry			
SO2-MW2	5/22/2014	12:44	Dry			
SO2-MW2	6/13/2014	7:30	Dry			
SO2-MW2	7/9/2014	17:38	Dry			
SO2-MW2	8/21/2014	11:03	Dry			
SO2-MW2	9/25/2014	15:20	Dry			
SO2-MW2	10/23/2014	8:15	Dry			
SO2-MW2	11/13/2014	9:17	Dry			
SO2-MW2	12/17/2014	15:35	Dry			
SO2-MW2	1/9/2015	9:59	Dry			
SO2-MW2	2/25/2015	7:31	Dry			
SO2-MW2	3/13/2015	7:13	Dry			
SO2-MW2	4/22/2015	6:50	Dry			
SO2-MW2	5/14/2015	14:49	Dry			
SO2-MW2	6/12/2015	8:58	Dry			
SO2-MW2	7/22/2015	7:09	Dry			
SO2-MW2	8/19/2015	12:42	Dry			
SO2-MW2	9/16/2015	7:21	Dry			
SO2-MW2	10/22/2015	11:15	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SO2-MW2	11/19/2015	11:45	Dry			
SO2-MW2	12/18/2015	8:23	Dry			
SO2-MW2	1/13/2016	9:08	Dry			
SO2-MW2	2/24/2016	15:48	Dry			
SO2-MW2	3/18/2016	11:13	Dry			
SO2-MW2	4/20/2016	7:12	Dry			
SO2-MW2	5/5/2016	11:34	Dry			
SO2-MW2	6/23/2016	14:43	Dry			
SO2-MW2	7/20/2016	7:46	Dry			
SO2-MW2	8/8/2016	11:18	Dry			
SO2-MW2	9/29/2016	16:00	Dry			
SO2-MW2	10/28/2016	8:02	63.11	209.37		
SO2-MW2	11/9/2016	16:21	71.00	201.48		
SO2-MW2	12/23/2016	9:04	Dry			
SO2-MW2	1/5/2017	9:57	Dry			
SO2-MW2	2/1/2017		N/M			
SO2-MW2	3/22/2017	12:32	Dry			
SO2-MW2	4/20/2017	12:39	Dry			
SO2-MW2	5/10/2017	14:52	Dry			
SO2-MW2	6/7/2017	11:13	Dry			
SO2-MW2	7/14/2017	11:36	Dry			
SO2-MW2	8/24/2017	7:28	Dry			
SO2-MW2	9/12/2017	15:50	66.17	206.31		
SO2-MW2	10/18/2017	9:17	71.39	201.09		
SO2-MW2	11/22/2017	11:05	71.84	200.64		
SO2-MW2	12/22/2017	12:48	71.06	201.42		
SO2-MW2	1/11/2018	9:23	Dry			
SO2-MW2	2/8/2018	7:30	Dry			
SO2-MW2	3/22/2018	10:20	Dry			
SO2-MW2	4/24/2018	11:40	Dry			
SO2-MW2	5/10/2018	15:55	Dry			
SO2-MW2	6/14/2018	9:15	Dry			
SO2-MW2	7/19/2018	13:59	Dry			
SO2-MW2	8/8/2018	13:28	Dry			
SO2-MW2	9/27/2018	19:13	Dry			
SO2-MW2	10/30/2018	10:59	Dry			
SO2-MW2	11/29/2018	7:35	Dry			
SO2-MW2	12/27/2018	15:23	Dry			
SO2-MW2	1/11/2019	7:30	Dry			
SO2-MW2	2/15/2019	9:29	Dry			
SO2-MW2	3/22/2019	11:25	Dry			
SO2-MW2	4/19/2019	9:07	Dry			
SO2-MW2	5/16/2019	12:20	Dry			
SO2-MW2	6/13/2019	10:26	Dry			
SO2-MW2	7/18/2019	10:27	Dry			
SO2-MW2	8/15/2019	11:17	Dry			
SO2-MW2	9/14/2019	15:39	Dry			
SO2-MW2	10/29/2019	15:47	65.88	206.60		
SO2-MW2	11/21/2019	15:06	Dry			
SO2-MW2	12/12/2019	14:03	Dry			
SO2-MW3	1/22/2013	13:49	66.81	207.28		
SO2-MW3	2/12/2013	13:24	68.21	205.88		
SO2-MW3	3/19/2013	14:14	Dry			
SO2-MW3	4/23/2013	11:58	Dry			
SO2-MW3	5/14/2013	13:45	Dry			
SO2-MW3	6/19/2013	12:29	Dry			
SO2-MW3	7/17/2013	12:35	Dry			
SO2-MW3	8/16/2013	8:40	Dry			
SO2-MW3	9/13/2013	7:17	Dry			
SO2-MW3	10/23/2013	16:51	Dry			
SO2-MW3	11/19/2013	9:59	Dry			
SO2-MW3	12/26/2013	12:40	Dry			
SO2-MW3	1/16/2014	8:56	Dry			
SO2-MW3	2/21/2014	8:50	Dry			
SO2-MW3	3/20/2014	8:57	Dry			
SO2-MW3	4/16/2014	8:38	Dry			
SO2-MW3	5/22/2014	12:37	Dry			
SO2-MW3	6/13/2014	7:39	Dry			
SO2-MW3	7/9/2014	17:27	Dry			
SO2-MW3	8/21/2014	10:39	Dry			
SO2-MW3	9/25/2014	15:25	Dry			
SO2-MW3	10/23/2014	8:20	Dry			
SO2-MW3	11/13/2014	9:29	Dry			
SO2-MW3	12/17/2014	15:44	Dry			
SO2-MW3	1/9/2015	10:11	Dry			
SO2-MW3	2/25/2015	7:43	Dry			
SO2-MW3	3/13/2015	7:03	Dry			
SO2-MW3	4/22/2015	7:00	Dry			
SO2-MW3	5/14/2015	14:34	Dry			
SO2-MW3	6/12/2015	8:53	Dry			
SO2-MW3	7/22/2015	7:24	Dry			
SO2-MW3	8/19/2015	12:28	Dry			
SO2-MW3	9/16/2015	7:36	Dry			
SO2-MW3	10/22/2015	11:30	Dry			
SO2-MW3	11/19/2015	11:33	Dry			
SO2-MW3	12/18/2015	8:10	Dry			
SO2-MW3	1/13/2016	8:55	Dry			
SO2-MW3	2/24/2016	15:35	Dry			
SO2-MW3	3/18/2016	11:05	Dry			
SO2-MW3	4/20/2016	7:26	Dry			
SO2-MW3	5/5/2016	11:44	Dry			
SO2-MW3	6/23/2016	15:00	Dry			
SO2-MW3	7/20/2016	7:57	Dry			
SO2-MW3	8/8/2016	11:09	Dry			
SO2-MW3	9/29/2016	16:11	Dry			
SO2-MW3	10/28/2016	8:22	Dry			
SO2-MW3	11/9/2016	16:25	Dry			
SO2-MW3	12/23/2016	8:43	Dry			
SO2-MW3	1/5/2017	9:58	Dry			
SO2-MW3	2/1/2017		N/M			
SO2-MW3	3/22/2017	12:45	Dry			
SO2-MW3	4/20/2017	12:56	Dry			
SO2-MW3	5/10/2017	14:30	Dry			
SO2-MW3	6/7/2017	11:05	Dry			
SO2-MW3	7/14/2017	11:26	Dry			
SO2-MW3	8/24/2017	7:39	Dry			
SO2-MW3	9/12/2017	15:33	Dry			
SO2-MW3	10/18/2017	9:25	Dry			
SO2-MW3	11/22/2017	10:51	Dry			
SO2-MW3	12/22/2017	12:37	Dry			
SO2-MW3	1/11/2018	9:13	Dry			
SO2-MW3	2/8/2018	7:19	Dry			
SO2-MW3	3/22/2018	10:05	Dry			
SO2-MW3	4/24/2018	11:30	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SO2-MW3	5/10/2018	16:10	Dry			
SO2-MW3	6/14/2018	9:24	Dry			
SO2-MW3	7/19/2018	13:35	Dry			
SO2-MW3	8/8/2018	13:22	Dry			
SO2-MW3	9/27/2018	7:23	Dry			
SO2-MW3	10/30/2018	10:20	Dry			
SO2-MW3	11/29/2018	7:46	Dry			
SO2-MW3	12/27/2018	15:10	Dry			
SO2-MW3	1/11/2019	7:22	Dry			
SO2-MW3	2/15/2019	9:21	Dry			
SO2-MW3	3/22/2019	11:36	Dry			
SO2-MW3	4/19/2019	9:16	Dry			
SO2-MW3	5/16/2019	12:04	Dry			
SO2-MW3	6/13/2019	10:20	Dry			
SO2-MW3	7/18/2019	10:32	Dry			
SO2-MW3	8/15/2019	11:10	Dry			
SO2-MW3	9/14/2019	15:26	Dry			
SO2-MW3	10/29/2019	15:40	Dry			
SO2-MW3	11/21/2019	15:15	Dry			
SO2-MW3	12/12/2019	14:12	Dry			
SO2-MW4	1/22/2013	13:04	67.81	204.86		
SO2-MW4	2/12/2013	12:51	70.01	202.66		
SO2-MW4	3/19/2013	11:20	71.66	201.01		
SO2-MW4	4/23/2013	11:28	73.42	199.25		
SO2-MW4	5/14/2013	13:10	Dry			
SO2-MW4	6/19/2013	11:48	Dry			
SO2-MW4	7/17/2013	12:28	Dry			
SO2-MW4	8/16/2013	8:00	Dry			
SO2-MW4	9/13/2013	7:22	Dry			
SO2-MW4	10/23/2013	15:52	Dry			
SO2-MW4	11/19/2013	10:03	Dry			
SO2-MW4	12/26/2013	13:28	Dry			
SO2-MW4	1/16/2014	9:00	Dry			
SO2-MW4	2/21/2014	8:45	Dry			
SO2-MW4	3/20/2014	8:28	Dry			
SO2-MW4	4/16/2014	8:14	Dry			
SO2-MW4	5/22/2014	12:34	Dry			
SO2-MW4	6/13/2014	7:17	Dry			
SO2-MW4	7/9/2014	16:51	Dry			
SO2-MW4	8/21/2014	10:32	Dry			
SO2-MW4	9/25/2014	14:30	Dry			
SO2-MW4	10/23/2014	7:30	Dry			
SO2-MW4	11/13/2014	9:10	Dry			
SO2-MW4	12/17/2014	15:10	Dry			
SO2-MW4	1/9/2015	9:47	Dry			
SO2-MW4	2/25/2015	7:15	Dry			
SO2-MW4	3/13/2015	7:38	Dry			
SO2-MW4	4/22/2015	7:06	Dry			
SO2-MW4	5/14/2015	15:27	Dry			
SO2-MW4	6/12/2015	8:47	Dry			
SO2-MW4	7/22/2015	7:30	Dry			
SO2-MW4	8/19/2015	12:18	Dry			
SO2-MW4	9/16/2015	7:05	Dry			
SO2-MW4	10/22/2015	11:35	Dry			
SO2-MW4	11/19/2015	11:51	Dry			
SO2-MW4	12/18/2015	8:29	Dry			
SO2-MW4	1/13/2016	8:50	Dry			
SO2-MW4	2/24/2016	15:40	Dry			
SO2-MW4	3/18/2016	11:35	Dry			
SO2-MW4	4/20/2016	7:32	Dry			
SO2-MW4	5/5/2016	11:51	Dry			
SO2-MW4	6/23/2016	15:10	Dry			
SO2-MW4	7/20/2016	8:03	Dry			
SO2-MW4	8/8/2016	10:43	Dry			
SO2-MW4	9/29/2016	16:17	Dry			
SO2-MW4	10/28/2016	7:41	Dry			
SO2-MW4	11/9/2016	16:04	Dry			
SO2-MW4	12/23/2016	9:21	Dry			
SO2-MW4	1/5/2017	10:05	Dry			
SO2-MW4	2/1/2017		N/M			
SO2-MW4	3/22/2017	12:53	Dry			
SO2-MW4	4/20/2017	11:59	Dry			
SO2-MW4	5/10/2017	15:05	Dry			
SO2-MW4	6/7/2017	11:24	Dry			
SO2-MW4	7/14/2017	12:07	Dry			
SO2-MW4	8/24/2017	6:59	Dry			
SO2-MW4	9/12/2017	15:36	Dry			
SO2-MW4	10/18/2017	9:32	Dry			
SO2-MW4	11/22/2017	11:37	Dry			
SO2-MW4	12/22/2017	13:08	Dry			
SO2-MW4	1/11/2018	10:00	Dry			
SO2-MW4	2/8/2018	8:00	Dry			
SO2-MW4	3/22/2018	11:10	Dry			
SO2-MW4	4/24/2018	12:21	Dry			
SO2-MW4	5/10/2018	15:50	Dry			
SO2-MW4	6/14/2018	8:48	Dry			
SO2-MW4	7/19/2018	14:20	Dry			
SO2-MW4	8/8/2018	14:07	Dry			
SO2-MW4	9/27/2018	7:30	Dry			
SO2-MW4	10/30/2018	11:10	Dry			
SO2-MW4	11/29/2018	7:20	Dry			
SO2-MW4	12/27/2018	15:43	Dry			
SO2-MW4	1/11/2019	8:27	Dry			
SO2-MW4	2/15/2019	10:35	Dry			
SO2-MW4	3/22/2019	10:48	Dry			
SO2-MW4	4/19/2019	8:46	Dry			
SO2-MW4	5/16/2019	12:58	Dry			
SO2-MW4	6/13/2019	10:43	Dry			
SO2-MW4	7/18/2019	10:38	Dry			
SO2-MW4	8/15/2019	11:56	Dry			
SO2-MW4	9/14/2019	15:51	Dry			
SO2-MW4	10/29/2019	16:00	Dry			
SO2-MW4	11/21/2019	14:45	Dry			
SO2-MW4	12/12/2019	14:16	Dry			
SO2-MW5s	1/22/2013	13:10	63.45	205.61	0.18	0.01
SO2-MW5s	2/12/2013	12:58	65.01	204.05	0.28	0.02
SO2-MW5s	3/19/2013	11:55	66.31	202.75	0.53	0.03
SO2-MW5s	4/23/2013	11:50	70.61	198.45	-0.20	-0.01
SO2-MW5s	5/14/2013	13:18	68.68	200.38	0.21	0.01
SO2-MW5s	6/19/2013	11:55	72.38	196.68	0.35	0.02
SO2-MW5s	7/17/2013	12:20	76.07	192.99	0.33	0.02
SO2-MW5s	8/16/2013	8:08	77.66	191.40	<|0.05|	0
SO2-MW5s	9/13/2013	7:27	77.50	191.56	0.09	0.01
SO2-MW5s	10/23/2013	15:59	76.67	192.39	0.12	0.01

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SO2-MW5s	11/19/2013	10:10	77.32	191.74	0.06	0.00
SO2-MW5s	12/26/2013	13:09	75.48	193.58	<|0.05|	0
SO2-MW5s	1/16/2014	9:14	75.50	193.56	0.09	0.01
SO2-MW5s	2/21/2014	8:37	75.90	193.16	0.06	0.00
SO2-MW5s	3/20/2014	8:33	76.65	192.41	0.14	0.01
SO2-MW5s	4/16/2014	8:19	78.04	191.02	<|0.05|	0
SO2-MW5s	5/22/2014	12:47	77.98	191.08	2.10	0.12
SO2-MW5s	6/13/2014	7:23	81.46	187.60	0.16	0.01
SO2-MW5s	7/9/2014	16:55	83.93	185.13	<|0.05|	0
SO2-MW5s	8/21/2014	11:39	86.59	182.47	<|0.05|	0
SO2-MW5s	9/25/2014	14:40	86.71	182.35	<|0.05|	0
SO2-MW5s	10/23/2014	7:45	86.61	182.45	<|0.05|	0
SO2-MW5s	11/13/2014	9:16	86.39	182.67	<|0.05|	0
SO2-MW5s	12/17/2014	15:28	86.31	182.75	-0.06	-0.00
SO2-MW5s	1/9/2015	9:52	85.92	183.14	<|0.05|	0
SO2-MW5s	2/25/2015	7:21	86.79	182.27	<|0.05|	0
SO2-MW5s	3/13/2015	7:16	86.86	182.20	<|0.05|	0
SO2-MW5s	4/22/2015	7:11	88.41	180.65	<|0.05|	0
SO2-MW5s	5/14/2015	15:21	89.68	179.38	-0.32	-0.02
SO2-MW5s	6/12/2015	9:09	90.14	178.92	0.22	0.01
SO2-MW5s	7/22/2015	7:37	Dry			
SO2-MW5s	8/19/2015	12:49	Dry			
SO2-MW5s	9/16/2015	7:10	Dry			
SO2-MW5s	10/22/2015	11:00	Dry			
SO2-MW5s	11/19/2015	11:51	Dry			
SO2-MW5s	12/18/2015	8:34	Dry			
SO2-MW5s	1/13/2016	9:13	Dry			
SO2-MW5s	2/24/2016	15:53	Dry			
SO2-MW5s	3/18/2016	11:18	Dry			
SO2-MW5s	4/20/2016	7:40	Dry			
SO2-MW5s	5/5/2016	11:10	Dry			
SO2-MW5s	6/23/2016	15:25	Dry			
SO2-MW5s	7/20/2016	8:10	Dry			
SO2-MW5s	8/8/2016	10:52	Dry			
SO2-MW5s	9/29/2016	16:25	Dry			
SO2-MW5s	10/28/2016	7:48	Dry			
SO2-MW5s	11/9/2016	16:07	Dry			
SO2-MW5s	12/23/2016	9:12	Dry			
SO2-MW5s	1/5/2017	9:40	Dry			
SO2-MW5s	2/1/2017		N/M			
SO2-MW5s	3/22/2017	12:02	Dry			
SO2-MW5s	4/20/2017	12:03	Dry			
SO2-MW5s	5/10/2017	14:53	Dry			
SO2-MW5s	6/7/2017	11:17	Dry			
SO2-MW5s	7/14/2017	11:40	Dry			
SO2-MW5s	8/24/2017	7:03	Dry			
SO2-MW5s	9/12/2017	15:49	Dry			
SO2-MW5s	10/18/2017	9:36	Dry			
SO2-MW5s	11/22/2017	11:30	Obs			
SO2-MW5s	12/22/2017	13:02	Dry			
SO2-MW5s	1/11/2018	9:54	Dry			
SO2-MW5s	2/8/2018	7:42	Dry			
SO2-MW5s	3/22/2018	10:50	Dry			
SO2-MW5s	4/24/2018	11:10	Dry			
SO2-MW5s	5/10/2018	15:57	Dry			
SO2-MW5s	6/14/2018	8:54	Dry			
SO2-MW5s	7/19/2018	14:10	Dry			
SO2-MW5s	8/8/2018	13:34	Dry			
SO2-MW5s	9/27/2018	7:37	Dry			
SO2-MW5s	10/30/2018	10:50	Dry			
SO2-MW5s	11/29/2018	7:29	Dry			
SO2-MW5s	12/27/2018	15:38	Dry			
SO2-MW5s	1/11/2019	7:35	Dry			
SO2-MW5s	2/15/2019	9:37	Dry			
SO2-MW5s	3/22/2019	10:55	Dry			
SO2-MW5s	4/19/2019	8:54	Dry			
SO2-MW5s	5/16/2019	12:44	Dry			
SO2-MW5s	6/13/2019	10:50	Dry			
SO2-MW5s	7/18/2019	10:50	Dry			
SO2-MW5s	8/15/2019	11:20	Dry			
SO2-MW5s	9/14/2019	16:02	Dry			
SO2-MW5s	10/29/2019	15:50	Dry			
SO2-MW5s	11/21/2019	14:52	Dry			
SO2-MW5s	12/12/2019	14:25	Dry			
SO2-MW5d	1/22/2013	13:13	63.38	205.43		
SO2-MW5d	2/12/2013	13:01	65.04	203.77		
SO2-MW5d	3/19/2013	11:57	66.59	202.22		
SO2-MW5d	4/23/2013	11:53	70.16	198.65		
SO2-MW5d	5/14/2013	13:20	68.64	200.17		
SO2-MW5d	6/19/2013	11:58	72.48	196.33		
SO2-MW5d	7/17/2013	12:23	76.15	192.66		
SO2-MW5d	8/16/2013	8:10	77.43	191.38		
SO2-MW5d	9/13/2013	7:30	77.34	191.47		
SO2-MW5d	10/23/2013	16:02	76.54	192.27		
SO2-MW5d	11/19/2013	10:13	77.13	191.68		
SO2-MW5d	12/26/2013	13:06	75.27	193.54		
SO2-MW5d	1/16/2014	9:18	75.34	193.47		
SO2-MW5d	2/21/2014	8:40	75.71	193.10		
SO2-MW5d	3/20/2014	8:37	76.54	192.27		
SO2-MW5d	4/16/2014	8:22	77.81	191.00		
SO2-MW5d	5/22/2014	12:49	79.83	188.98		
SO2-MW5d	6/13/2014	7:26	81.37	187.44		
SO2-MW5d	7/9/2014	16:58	83.73	185.08		
SO2-MW5d	8/21/2014	11:41	86.32	182.49		
SO2-MW5d	9/25/2014	14:43	86.49	182.32		
SO2-MW5d	10/23/2014	7:48	86.39	182.42		
SO2-MW5d	11/13/2014	9:18	86.19	182.62		
SO2-MW5d	12/17/2014	15:30	86.00	182.81		
SO2-MW5d	1/9/2015	9:55	85.70	183.11		
SO2-MW5d	2/25/2015	7:24	86.58	182.23		
SO2-MW5d	3/13/2015	7:19	86.64	182.17		
SO2-MW5d	4/22/2015	7:13	88.20	180.61		
SO2-MW5d	5/14/2015	15:18	89.11	179.70		
SO2-MW5d	6/12/2015	9:11	90.11	178.70		
SO2-MW5d	7/22/2015	7:41	94.79	174.02		
SO2-MW5d	8/19/2015	12:52	95.46	173.35		
SO2-MW5d	9/16/2015	7:13	95.48	173.33		
SO2-MW5d	10/22/2015	11:05	95.10	173.71		
SO2-MW5d	11/19/2015	11:53	94.45	174.36		
SO2-MW5d	12/18/2015	8:37	95.40	173.41		
SO2-MW5d	1/13/2016	9:16	93.31	175.50		
SO2-MW5d	2/24/2016	15:56	93.78	175.03		
SO2-MW5d	3/18/2016	11:20	93.02	175.79		
SO2-MW5d	4/20/2016	7:43	93.86	174.95		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SO2-MW5d	5/5/2016	11:12	97.41	171.40		
SO2-MW5d	6/23/2016	15:30	Obs			
SO2-MW5d	7/20/2016	8:14	Obs			
SO2-MW5d	8/8/2016	10:57	101.90	166.91		
SO2-MW5d	9/29/2016	16:28	94.66	174.15		
SO2-MW5d	10/28/2016	7:51	Obs			
SO2-MW5d	11/9/2016	16:08	Obs			
SO2-MW5d	12/23/2016	9:13	Obs			
SO2-MW5d	1/5/2017	9:45	Dry			
SO2-MW5d	2/1/2017		N/M			
SO2-MW5d	3/22/2017	12:05	Dry			
SO2-MW5d	4/20/2017	12:10	Obs			
SO2-MW5d	5/10/2017	14:56	Obs			
SO2-MW5d	6/7/2017	11:18	Obs			
SO2-MW5d	7/14/2017	11:42	Obs			
SO2-MW5d	8/24/2017	7:06	Obs			
SO2-MW5d	9/12/2017	15:55	Obs			
SO2-MW5d	10/18/2017	9:38	Dry			
SO2-MW5d	11/22/2017	11:28	Dry			
SO2-MW5d	12/22/2017	12:59	Dry			
SO2-MW5d	1/11/2018	9:56	Obs			
SO2-MW5d	2/8/2018	7:44	Obs			
SO2-MW5d	3/22/2018		Obs			
SO2-MW5d	4/24/2018	11:12	Obs			
SO2-MW5d	5/10/2018	15:59	Obs			
SO2-MW5d	6/14/2018	8:56	Obs			
SO2-MW5d	7/19/2018	14:12	Obs			
SO2-MW5d	8/8/2018	13:36	Obs			
SO2-MW5d	9/27/2018	7:50	Dry			
SO2-MW5d	10/30/2018	10:51	Dry			
SO2-MW5d	11/29/2018	7:28	Dry			
SO2-MW5d	12/27/2018		Obs			
SO2-MW5d	1/11/2019	7:36	Obs			
SO2-MW5d	2/15/2019	9:38	Obs			
SO2-MW5d	3/22/2019	11:00	Dry			
SO2-MW5d	4/19/2019	8:52	Dry			
SO2-MW5d	5/16/2019	12:45	Obs			
SO2-MW5d	6/13/2019	10:49	Obs			
SO2-MW5d	7/18/2019	10:52	Obs			
SO2-MW5d	8/15/2019	11:22	Obs			
SO2-MW5d	9/14/2019	16:04	Obs			
SO2-MW5d	10/29/2019	15:51	Obs			
SO2-MW5d	11/21/2019	14:51	Obs			
SO2-MW5d	12/12/2019	14:23	Obs			
SO2-MW6s	1/22/2013	13:20	62.26	204.95	0.12	0.01
SO2-MW6s	2/12/2013	13:07	63.42	203.79	0.22	0.01
SO2-MW6s	3/19/2013	12:31	64.41	202.80	0.21	0.01
SO2-MW6s	4/23/2013	12:20	68.85	198.36	0.09	0.01
SO2-MW6s	5/14/2013	13:26	66.75	200.46	0.38	0.02
SO2-MW6s	6/19/2013	12:05	69.74	197.47	0.21	0.01
SO2-MW6s	7/17/2013	12:10	73.17	194.04	0.20	0.01
SO2-MW6s	8/16/2013	8:15	75.01	192.20	0.07	0.00
SO2-MW6s	9/13/2013	7:40	75.08	192.13	0.11	0.01
SO2-MW6s	10/23/2013	16:10	74.68	192.53	0.07	0.00
SO2-MW6s	11/19/2013	10:17	75.00	192.21	0.11	0.01
SO2-MW6s	12/26/2013	13:15	73.96	193.25	<|0.05|	0
SO2-MW6s	1/16/2014	9:26	74.02	193.19	0.09	0.01
SO2-MW6s	2/21/2014	8:29	74.10	193.11	0.07	0.00
SO2-MW6s	3/20/2014	9:03	75.06	192.15	0.07	0.00
SO2-MW6s	4/16/2014	8:45	76.11	191.10	0.10	0.01
SO2-MW6s	5/22/2014	12:51	77.93	189.28	0.26	0.02
SO2-MW6s	6/13/2014	7:46	79.52	187.69	0.09	0.01
SO2-MW6s	7/9/2014	17:03	81.96	185.25	<|0.05|	0
SO2-MW6s	8/21/2014	11:30	84.27	182.94	1.52	0.09
SO2-MW6s	9/25/2014	14:50	Dry			
SO2-MW6s	10/23/2014	7:55	Dry			
SO2-MW6s	11/13/2014	9:23	Dry			
SO2-MW6s	12/17/2014	15:15	Dry			
SO2-MW6s	1/9/2015	10:18	Dry			
SO2-MW6s	2/25/2015	7:55	85.41	181.80	-0.06	-0.00
SO2-MW6s	3/13/2015	7:23	Dry			
SO2-MW6s	4/22/2015	7:30	Dry			
SO2-MW6s	5/14/2015	15:11	Dry			
SO2-MW6s	6/12/2015	9:14	Dry			
SO2-MW6s	7/22/2015	7:48	Dry			
SO2-MW6s	8/19/2015	12:59	Dry			
SO2-MW6s	9/16/2015	8:13	Dry			
SO2-MW6s	10/22/2015	10:50	Dry			
SO2-MW6s	11/19/2015	11:45	Dry			
SO2-MW6s	12/18/2015	8:43	Dry			
SO2-MW6s	1/13/2016	9:21	Dry			
SO2-MW6s	2/24/2016	16:01	Dry			
SO2-MW6s	3/18/2016	11:23	Dry			
SO2-MW6s	4/20/2016	7:49	Dry			
SO2-MW6s	5/5/2016	11:19	Dry			
SO2-MW6s	6/23/2016	15:38	Dry			
SO2-MW6s	7/20/2016	8:21	Dry			
SO2-MW6s	8/8/2016	11:22	Dry			
SO2-MW6s	9/29/2016	16:35	Dry			
SO2-MW6s	10/28/2016	8:10	Dry			
SO2-MW6s	11/9/2016	16:13	Dry			
SO2-MW6s	12/23/2016	9:30	Dry			
SO2-MW6s	1/5/2017	9:43	Dry			
SO2-MW6s	2/1/2017		N/M			
SO2-MW6s	3/22/2017	12:15	Dry			
SO2-MW6s	4/20/2017	12:17	Dry			
SO2-MW6s	5/10/2017	14:50	Dry			
SO2-MW6s	6/7/2017	11:37	Dry			
SO2-MW6s	7/14/2017	11:46	Dry			
SO2-MW6s	8/24/2017	7:10	Dry			
SO2-MW6s	9/12/2017	16:10	Dry			
SO2-MW6s	10/18/2017	10:02	Dry			
SO2-MW6s	11/22/2017	11:20	Dry			
SO2-MW6s	12/22/2017	12:52	Dry			
SO2-MW6s	1/11/2018	9:47	Dry			
SO2-MW6s	2/8/2018	7:35	Dry			
SO2-MW6s	3/22/2018	10:35	Dry			
SO2-MW6s	4/24/2018	12:00	Dry			
SO2-MW6s	5/10/2018	16:05	Dry			
SO2-MW6s	6/14/2018	9:06	Dry			
SO2-MW6s	7/19/2018	14:26	Dry			
SO2-MW6s	8/8/2018	13:41	Dry			
SO2-MW6s	9/27/2018	8:03	Dry			
SO2-MW6s	10/30/2018	10:44	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SO2-MW6s	11/29/2018	7:59	Dry			
SO2-MW6s	12/27/2018	15:33	Dry			
SO2-MW6s	1/11/2019	7:49	Dry			
SO2-MW6s	2/15/2019	9:51	Dry			
SO2-MW6s	3/22/2019	11:13	Dry			
SO2-MW6s	4/19/2019	9:00	Dry			
SO2-MW6s	5/16/2019	12:35	Dry			
SO2-MW6s	6/13/2019	10:55	Dry			
SO2-MW6s	7/18/2019	10:56	Dry			
SO2-MW6s	8/15/2019	11:26	Dry			
SO2-MW6s	9/14/2019	16:13	Dry			
SO2-MW6s	10/29/2019	15:55	Dry			
SO2-MW6s	11/21/2019	14:59	Dry			
SO2-MW6s	12/12/2019	14:29	Dry			
SO2-MW6d	1/22/2013	13:24	62.25	204.83		
SO2-MW6d	2/12/2013	13:09	63.51	203.57		
SO2-MW6d	3/19/2013	12:34	64.49	202.59		
SO2-MW6d	4/23/2013	12:23	68.81	198.27		
SO2-MW6d	5/14/2013	13:28	67.00	200.08		
SO2-MW6d	6/19/2013	12:08	69.82	197.26		
SO2-MW6d	7/17/2013	12:14	73.24	193.84		
SO2-MW6d	8/16/2013	8:18	74.95	192.13		
SO2-MW6d	9/13/2013	7:44	75.06	192.02		
SO2-MW6d	10/23/2013	16:14	74.62	192.46		
SO2-MW6d	11/19/2013	10:20	74.98	192.10		
SO2-MW6d	12/26/2013	13:18	73.87	193.21		
SO2-MW6d	1/16/2014	9:30	73.98	193.10		
SO2-MW6d	2/21/2014	8:31	74.04	193.04		
SO2-MW6d	3/20/2014	9:06	75.00	192.08		
SO2-MW6d	4/16/2014	8:48	76.08	191.00		
SO2-MW6d	5/22/2014	12:53	78.06	189.02		
SO2-MW6d	6/13/2014	7:50	79.48	187.60		
SO2-MW6d	7/9/2014	17:06	81.85	185.23		
SO2-MW6d	8/21/2014	11:32	85.66	181.42		
SO2-MW6d	9/25/2014	14:53	84.62	182.46		
SO2-MW6d	10/23/2014	7:58	84.93	182.15		
SO2-MW6d	11/13/2014	9:26	85.18	181.90		
SO2-MW6d	12/17/2014	15:17	85.04	182.04		
SO2-MW6d	1/9/2015	10:21	84.66	182.42		
SO2-MW6d	2/25/2015	7:58	85.22	181.86		
SO2-MW6d	3/13/2015	7:25	85.64	181.44		
SO2-MW6d	4/22/2015	7:32	86.86	180.22		
SO2-MW6d	5/14/2015	15:08	87.73	179.35		
SO2-MW6d	6/12/2015	9:17	88.71	178.37		
SO2-MW6d	7/22/2015	7:52	92.28	174.80		
SO2-MW6d	8/19/2015	13:02	93.63	173.45		
SO2-MW6d	9/16/2015	8:16	93.78	173.30		
SO2-MW6d	10/22/2015	10:55	93.83	173.25		
SO2-MW6d	11/19/2015	11:48	93.95	173.13		
SO2-MW6d	12/18/2015	8:46	93.59	173.49		
SO2-MW6d	1/13/2016	9:24	92.65	174.43		
SO2-MW6d	2/24/2016	16:04	92.13	174.95		
SO2-MW6d	3/18/2016	11:26	92.53	174.55		
SO2-MW6d	4/20/2016	7:52	92.86	174.22		
SO2-MW6d	5/5/2016	11:21	Dry			
SO2-MW6d	6/23/2016	15:42	Dry			
SO2-MW6d	7/20/2016	8:24	Dry			
SO2-MW6d	8/8/2016	11:25	Dry			
SO2-MW6d	9/29/2016	16:41	91.89	175.19		
SO2-MW6d	10/28/2016	8:12	94.71	172.37		
SO2-MW6d	11/9/2016	16:14	Dry			
SO2-MW6d	12/23/2016	9:31	Dry			
SO2-MW6d	1/5/2017	9:46	Dry			
SO2-MW6d	2/1/2017		N/M			
SO2-MW6d	3/22/2017	12:18	Dry			
SO2-MW6d	4/20/2017	12:20	Dry			
SO2-MW6d	5/10/2017	14:47	Dry			
SO2-MW6d	6/7/2017	11:39	Dry			
SO2-MW6d	7/14/2017	11:48	Dry			
SO2-MW6d	8/24/2017	7:14	Dry			
SO2-MW6d	9/12/2017	16:12	Dry			
SO2-MW6d	10/18/2017	10:06	Dry			
SO2-MW6d	11/22/2017	11:19	Dry			
SO2-MW6d	12/22/2017	12:50	Dry			
SO2-MW6d	1/11/2018	9:49	Dry			
SO2-MW6d	2/8/2018	7:37	Dry			
SO2-MW6d	3/22/2018	10:40	95.20	171.88		
SO2-MW6d	4/24/2018	12:02	Dry			
SO2-MW6d	5/10/2018	16:07	Dry			
SO2-MW6d	6/14/2018	9:08	Dry			
SO2-MW6d	7/19/2018	14:28	Dry			
SO2-MW6d	8/8/2018	13:43	Dry			
SO2-MW6d	9/27/2018	8:05	Dry			
SO2-MW6d	10/30/2018	10:45	Dry			
SO2-MW6d	11/29/2018	7:58	95.81	171.27		
SO2-MW6d	12/27/2018	15:34	Dry			
SO2-MW6d	1/11/2019	7:50	Dry			
SO2-MW6d	2/15/2019	9:52	Dry			
SO2-MW6d	3/22/2019	11:17	Dry			
SO2-MW6d	4/19/2019	9:01	Dry			
SO2-MW6d	5/16/2019	12:36	Dry			
SO2-MW6d	6/13/2019	10:56	Dry			
SO2-MW6d	7/18/2019	10:59	Dry			
SO2-MW6d	8/15/2019	11:28	93.70	173.38		
SO2-MW6d	9/14/2019	16:15	Dry			
SO2-MW6d	10/29/2019	15:56	Dry			
SO2-MW6d	11/21/2019	15:00	Dry			
SO2-MW6d	12/12/2019	14:31	Dry			
SO2-MW7s	1/22/2013	14:00	60.52	208.12	-0.06	-0.00
SO2-MW7s	2/12/2013	13:32	61.78	206.86	0.53	0.04
SO2-MW7s	3/19/2013	13:20	62.45	206.19	<|0.05|	0
SO2-MW7s	4/23/2013	12:10	63.83	204.81	0.15	0.01
SO2-MW7s	5/14/2013	13:35	64.79	203.85	<|0.05|	0
SO2-MW7s	6/19/2013	12:40	68.37	200.27	0.25	0.02
SO2-MW7s	7/17/2013	12:00	72.32	196.32	0.13	0.01
SO2-MW7s	8/16/2013	8:48	73.29	195.35	<|0.05|	0
SO2-MW7s	9/13/2013	7:51	73.61	195.03	<|0.05|	0
SO2-MW7s	10/23/2013	16:19	72.79	195.85	<|0.05|	0
SO2-MW7s	11/19/2013	10:30	73.55	195.09	0.06	0.00
SO2-MW7s	12/26/2013	13:36	72.34	196.30	<|0.05|	0
SO2-MW7s	1/16/2014	9:36	72.23	196.41	0.11	0.01
SO2-MW7s	2/21/2014	8:22	72.21	196.43	0.12	0.01
SO2-MW7s	3/20/2014	9:12	Dry			
SO2-MW7s	4/16/2014	8:56	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SO2-MW7s	5/22/2014	12:55	Dry			
SO2-MW7s	6/13/2014	7:54	Dry			
SO2-MW7s	7/9/2014	17:11	Dry			
SO2-MW7s	8/21/2014	11:20	Dry			
SO2-MW7s	9/25/2014	15:00	Dry			
SO2-MW7s	10/23/2014	8:05	Dry			
SO2-MW7s	11/13/2014	9:31	Dry			
SO2-MW7s	12/17/2014	15:22	Dry			
SO2-MW7s	1/9/2015	10:28	Dry			
SO2-MW7s	2/25/2015	8:07	Dry			
SO2-MW7s	3/13/2015	6:48	Dry			
SO2-MW7s	4/22/2015	7:18	Dry			
SO2-MW7s	5/14/2015	15:00	Dry			
SO2-MW7s	6/12/2015	9:25	Dry			
SO2-MW7s	7/22/2015	8:01	Dry			
SO2-MW7s	8/19/2015	13:11	Dry			
SO2-MW7s	9/16/2015	7:56	Dry			
SO2-MW7s	10/22/2015	10:40	Dry			
SO2-MW7s	11/19/2015	11:36	Dry			
SO2-MW7s	12/18/2015	8:52	Dry			
SO2-MW7s	1/13/2016	9:29	Dry			
SO2-MW7s	2/24/2016	16:09	Dry			
SO2-MW7s	3/18/2016	11:38	Dry			
SO2-MW7s	4/20/2016	8:02	Dry			
SO2-MW7s	5/5/2016	11:25	Dry			
SO2-MW7s	6/23/2016	15:53	Dry			
SO2-MW7s	7/20/2016	8:31	Dry			
SO2-MW7s	8/8/2016	11:33	Dry			
SO2-MW7s	9/29/2016	16:50	Dry			
SO2-MW7s	10/28/2016	8:15	Dry			
SO2-MW7s	11/9/2016	16:30	Dry			
SO2-MW7s	12/23/2016	9:40	Dry			
SO2-MW7s	1/5/2017	9:30	Dry			
SO2-MW7s	2/1/2017		N/M			
SO2-MW7s	3/22/2017	11:52	Dry			
SO2-MW7s	4/20/2017	12:28	Dry			
SO2-MW7s	5/10/2017	14:57	Dry			
SO2-MW7s	6/7/2017	11:31	Dry			
SO2-MW7s	7/14/2017	11:54	Dry			
SO2-MW7s	8/24/2017	7:18	Dry			
SO2-MW7s	9/12/2017	16:16	Dry			
SO2-MW7s	10/18/2017	10:14	Dry			
SO2-MW7s	11/22/2017	11:13	Dry			
SO2-MW7s	12/22/2017	13:15	Dry			
SO2-MW7s	1/11/2018	9:36	Dry			
SO2-MW7s	2/8/2018	7:52	Dry			
SO2-MW7s	3/22/2018	11:35	Dry			
SO2-MW7s	4/24/2018	11:50	Dry			
SO2-MW7s	5/10/2018	16:18	Dry			
SO2-MW7s	6/14/2018	9:35	Dry			
SO2-MW7s	7/19/2018	14:34	Dry			
SO2-MW7s	8/8/2018	13:48	Dry			
SO2-MW7s	9/27/2018	8:12	Dry			
SO2-MW7s	10/30/2018	10:35	Dry			
SO2-MW7s	11/29/2018	8:05	Dry			
SO2-MW7s	12/27/2018	15:28	Dry			
SO2-MW7s	1/11/2019	8:08	Dry			
SO2-MW7s	2/15/2019	10:00	Dry			
SO2-MW7s	3/22/2019	11:54	Dry			
SO2-MW7s	4/19/2019	9:26	Dry			
SO2-MW7s	5/16/2019	12:27	Dry			
SO2-MW7s	6/13/2019	10:31	Dry			
SO2-MW7s	7/18/2019	11:06	Dry			
SO2-MW7s	8/15/2019	11:40	Dry			
SO2-MW7s	9/14/2019	16:21	Dry			
SO2-MW7s	10/29/2019	16:06	Dry			
SO2-MW7s	11/21/2019	15:22	Dry			
SO2-MW7s	12/12/2019	14:34	Dry			
SO2-MW7d	1/22/2013	14:05	60.36	208.18		
SO2-MW7d	2/12/2013	13:40	62.21	206.33		
SO2-MW7d	3/19/2013	13:22	62.36	206.18		
SO2-MW7d	4/23/2013	12:13	63.88	204.66		
SO2-MW7d	5/14/2013	13:37	64.68	203.86		
SO2-MW7d	6/19/2013	12:43	68.52	200.02		
SO2-MW7d	7/17/2013	12:04	72.35	196.19		
SO2-MW7d	8/16/2013	8:50	73.23	195.31		
SO2-MW7d	9/13/2013	7:55	73.55	194.99		
SO2-MW7d	10/23/2013	16:25	72.74	195.80		
SO2-MW7d	11/19/2013	10:35	73.51	195.03		
SO2-MW7d	12/26/2013	13:40	72.20	196.34		
SO2-MW7d	1/16/2014	9:40	72.24	196.30		
SO2-MW7d	2/21/2014	8:25	72.23	196.31		
SO2-MW7d	3/20/2014	9:15	73.84	194.70		
SO2-MW7d	4/16/2014	8:59	74.60	193.94		
SO2-MW7d	5/22/2014	12:57	77.03	191.51		
SO2-MW7d	6/13/2014	7:59	78.41	190.13		
SO2-MW7d	7/9/2014	17:15	81.63	186.91		
SO2-MW7d	8/21/2014	11:23	83.16	185.38		
SO2-MW7d	9/25/2014	15:03	83.30	185.24		
SO2-MW7d	10/23/2014	8:08	83.29	185.25		
SO2-MW7d	11/13/2014	9:33	84.41	184.13		
SO2-MW7d	12/17/2014	15:24	84.29	184.25		
SO2-MW7d	1/9/2015	10:31	83.82	184.72		
SO2-MW7d	2/25/2015	8:10	84.05	184.49		
SO2-MW7d	3/13/2015	6:50	84.69	183.85		
SO2-MW7d	4/22/2015	7:20	85.71	182.83		
SO2-MW7d	5/14/2015	15:03	86.53	182.01		
SO2-MW7d	6/12/2015	9:29	87.51	181.03		
SO2-MW7d	7/22/2015	8:05	Dry			
SO2-MW7d	8/19/2015	13:14	Dry			
SO2-MW7d	9/16/2015	7:59	Dry			
SO2-MW7d	10/22/2015	10:45	Dry			
SO2-MW7d	11/19/2015	11:38	Dry			
SO2-MW7d	12/18/2015	8:55	Dry			
SO2-MW7d	1/13/2016	9:32	Dry			
SO2-MW7d	2/24/2016	16:12	Dry			
SO2-MW7d	3/18/2016	11:40	Dry			
SO2-MW7d	4/20/2016	8:05	Dry			
SO2-MW7d	5/5/2016	11:27	Dry			
SO2-MW7d	6/23/2016	15:58	Dry			
SO2-MW7d	7/20/2016	8:34	Dry			
SO2-MW7d	8/8/2016	11:36	Dry			
SO2-MW7d	9/29/2016	16:54	Dry			
SO2-MW7d	10/28/2016	8:20	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SO2-MW7d	11/9/2016	16:31	Dry			
SO2-MW7d	12/23/2016	9:42	Dry			
SO2-MW7d	1/5/2017	9:35	Dry			
SO2-MW7d	2/1/2017		N/M			
SO2-MW7d	3/22/2017	11:54	Dry			
SO2-MW7d	4/20/2017	12:31	Dry			
SO2-MW7d	5/10/2017	15:00	Dry			
SO2-MW7d	6/7/2017	11:32	Dry			
SO2-MW7d	7/14/2017	11:56	Dry			
SO2-MW7d	8/24/2017	7:22	Dry			
SO2-MW7d	9/12/2017	16:18	Dry			
SO2-MW7d	10/18/2017	10:17	Dry			
SO2-MW7d	11/22/2017	11:11	Dry			
SO2-MW7d	12/22/2017	13:17	Dry			
SO2-MW7d	1/11/2018	9:38	Dry			
SO2-MW7d	2/8/2018	7:50	Dry			
SO2-MW7d	3/22/2018	11:40	Dry			
SO2-MW7d	4/24/2018	11:47	Dry			
SO2-MW7d	5/10/2018	16:15	Dry			
SO2-MW7d	6/14/2018	9:37	Dry			
SO2-MW7d	7/19/2018	14:36	Dry			
SO2-MW7d	8/8/2018	13:50	Dry			
SO2-MW7d	9/27/2018	8:15	Dry			
SO2-MW7d	10/30/2018	10:36	Dry			
SO2-MW7d	11/29/2018	8:06	Dry			
SO2-MW7d	12/27/2018	15:29	Dry			
SO2-MW7d	1/11/2019	8:09	Dry			
SO2-MW7d	2/15/2019	10:01	Dry			
SO2-MW7d	3/22/2019	11:50	Dry			
SO2-MW7d	4/19/2019	9:27	Dry			
SO2-MW7d	5/16/2019	12:28	Dry			
SO2-MW7d	6/13/2019	10:32	Dry			
SO2-MW7d	7/18/2019	11:10	Dry			
SO2-MW7d	8/15/2019	11:43	Dry			
SO2-MW7d	9/14/2019	16:24	Dry			
SO2-MW7d	10/29/2019	16:05	Dry			
SO2-MW7d	11/21/2019	15:21	Dry			
SO2-MW7d	12/12/2019	14:36	Dry			
SO2-MW8s	1/22/2013	13:38	Dry			
SO2-MW8s	2/12/2013	13:17	Dry			
SO2-MW8s	3/19/2013	13:38	Dry			
SO2-MW8s	4/23/2013	12:30	Dry			
SO2-MW8s	5/14/2013	13:01	Dry			
SO2-MW8s	6/19/2013	12:20	Dry			
SO2-MW8s	7/17/2013	12:40	Dry			
SO2-MW8s	8/16/2013	8:27	Dry			
SO2-MW8s	9/13/2013	7:08	Dry			
SO2-MW8s	10/23/2013	16:31	Dry			
SO2-MW8s	11/19/2013	10:40	Dry			
SO2-MW8s	12/26/2013	12:44	Dry			
SO2-MW8s	1/16/2014	9:05	Dry			
SO2-MW8s	2/21/2014	9:00	Dry			
SO2-MW8s	3/20/2014	8:49	Dry			
SO2-MW8s	4/16/2014	8:29	Dry			
SO2-MW8s	5/22/2014	12:40	Dry			
SO2-MW8s	6/13/2014	7:31	Dry			
SO2-MW8s	7/9/2014	17:30	Dry			
SO2-MW8s	8/21/2014	11:08	Dry			
SO2-MW8s	9/25/2014	15:35	Dry			
SO2-MW8s	10/23/2014	7:35	Dry			
SO2-MW8s	11/13/2014	9:20	Dry			
SO2-MW8s	12/17/2014	15:38	Dry			
SO2-MW8s	1/9/2015	10:03	Dry			
SO2-MW8s	2/25/2015	7:35	Dry			
SO2-MW8s	3/13/2015	7:08	Dry			
SO2-MW8s	4/22/2015	6:53	Dry			
SO2-MW8s	5/14/2015	14:39	Dry			
SO2-MW8s	6/12/2015	9:02	Dry			
SO2-MW8s	7/22/2015	7:15	Dry			
SO2-MW8s	8/19/2015	12:34	Dry			
SO2-MW8s	9/16/2015	7:26	Dry			
SO2-MW8s	10/22/2015	11:20	Dry			
SO2-MW8s	11/19/2015	11:38	Dry			
SO2-MW8s	12/18/2015	8:15	Dry			
SO2-MW8s	1/13/2016	9:00	Dry			
SO2-MW8s	2/24/2016	15:40	Dry			
SO2-MW8s	3/18/2016	11:08	Dry			
SO2-MW8s	4/20/2016	7:17	Dry			
SO2-MW8s	5/5/2016	11:37	Dry			
SO2-MW8s	6/23/2016	14:47	Dry			
SO2-MW8s	7/20/2016	7:50	Dry			
SO2-MW8s	8/8/2016	11:13	Dry			
SO2-MW8s	9/29/2016	17:00	Dry			
SO2-MW8s	10/28/2016	8:05	Dry			
SO2-MW8s	11/9/2016	16:20	Dry			
SO2-MW8s	12/23/2016	8:56	Dry			
SO2-MW8s	1/5/2017	9:50	Dry			
SO2-MW8s	2/1/2017		N/M			
SO2-MW8s	3/22/2017	11:39	Dry			
SO2-MW8s	4/20/2017	12:45	Dry			
SO2-MW8s	5/10/2017	14:45	Dry			
SO2-MW8s	6/7/2017	11:08	Dry			
SO2-MW8s	7/14/2017	11:31	Dry			
SO2-MW8s	8/24/2017	7:31	Dry			
SO2-MW8s	9/12/2017	15:45	Dry			
SO2-MW8s	10/18/2017	9:19	Dry			
SO2-MW8s	11/22/2017	10:57	Dry			
SO2-MW8s	12/22/2017	12:42	Dry			
SO2-MW8s	1/11/2018	9:18	Dry			
SO2-MW8s	2/8/2018	7:24	Dry			
SO2-MW8s	3/22/2018	10:10	Dry			
SO2-MW8s	4/24/2018	11:37	Dry			
SO2-MW8s	5/10/2018	16:20	Dry			
SO2-MW8s	6/14/2018	9:18	Dry			
SO2-MW8s	7/19/2018	13:50	Dry			
SO2-MW8s	8/8/2018	13:58	Dry			
SO2-MW8s	9/27/2018	8:22	Dry			
SO2-MW8s	10/30/2018	11:02	Dry			
SO2-MW8s	11/29/2018	7:39	Dry			
SO2-MW8s	12/27/2018	15:20	Dry			
SO2-MW8s	1/11/2019	7:26	Dry			
SO2-MW8s	2/15/2019	9:25	Dry			
SO2-MW8s	3/22/2019	11:29	Dry			
SO2-MW8s	4/19/2019	9:11	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SO2-MW8s	5/16/2019	12:15	Dry			
SO2-MW8s	6/13/2019	10:24	Dry			
SO2-MW8s	7/18/2019	10:26	Dry			
SO2-MW8s	8/15/2019	11:13	Dry			
SO2-MW8s	9/14/2019	15:30	Dry			
SO2-MW8s	10/29/2019	15:43	Dry			
SO2-MW8s	11/21/2019	15:09	Dry			
SO2-MW8s	12/12/2019	14:06	Dry			
SO2-MW8d	1/22/2013	13:42	65.51	206.89		
SO2-MW8d	2/12/2013	13:20	67.11	205.29		
SO2-MW8d	3/19/2013	13:42	68.41	203.99		
SO2-MW8d	4/23/2013	12:33	66.55	205.85		
SO2-MW8d	5/14/2013	13:04	70.81	201.59		
SO2-MW8d	6/19/2013	12:23	74.64	197.76		
SO2-MW8d	7/17/2013	12:44	79.06	193.34		
SO2-MW8d	8/16/2013	8:29	80.36	192.04		
SO2-MW8d	9/13/2013	7:12	79.74	192.66		
SO2-MW8d	10/23/2013	16:35	78.79	193.61		
SO2-MW8d	11/19/2013	10:45	79.32	193.08		
SO2-MW8d	12/26/2013	12:48	77.51	194.89		
SO2-MW8d	1/16/2014	9:08	77.45	194.95		
SO2-MW8d	2/21/2014	9:03	77.59	194.81		
SO2-MW8d	3/20/2014	8:52	78.58	193.82		
SO2-MW8d	4/16/2014	8:32	79.80	192.60		
SO2-MW8d	5/22/2014	12:42	81.95	190.45		
SO2-MW8d	6/13/2014	7:34	83.29	189.11		
SO2-MW8d	7/9/2014	17:34	86.53	185.87		
SO2-MW8d	8/21/2014	11:11	Dry			
SO2-MW8d	9/25/2014	15:38	Dry			
SO2-MW8d	10/23/2014	7:38	Dry			
SO2-MW8d	11/13/2014	9:22	Dry			
SO2-MW8d	12/17/2014	15:40	88.26	184.14		
SO2-MW8d	1/9/2015	10:06	88.13	184.27		
SO2-MW8d	2/25/2015	7:38	Dry			
SO2-MW8d	3/13/2015	7:10	Dry			
SO2-MW8d	4/22/2015	6:55	Dry			
SO2-MW8d	5/14/2015	14:43	Dry			
SO2-MW8d	6/12/2015	9:05	Dry			
SO2-MW8d	7/22/2015	7:18	Dry			
SO2-MW8d	8/19/2015	12:37	Dry			
SO2-MW8d	9/16/2015	7:28	Dry			
SO2-MW8d	10/22/2015	11:25	Dry			
SO2-MW8d	11/19/2015	11:40	Dry			
SO2-MW8d	12/18/2015	8:18	Dry			
SO2-MW8d	1/13/2016	9:03	Dry			
SO2-MW8d	2/24/2016	15:43	Dry			
SO2-MW8d	3/18/2016	11:10	Dry			
SO2-MW8d	4/20/2016	7:20	Dry			
SO2-MW8d	5/5/2016	11:39	Dry			
SO2-MW8d	6/23/2016	14:50	Dry			
SO2-MW8d	7/20/2016	7:53	Dry			
SO2-MW8d	8/8/2016	11:15	Dry			
SO2-MW8d	9/29/2016	17:06	Dry			
SO2-MW8d	10/28/2016	8:07	Dry			
SO2-MW8d	11/9/2016	16:22	Dry			
SO2-MW8d	12/23/2016	8:58	Dry			
SO2-MW8d	1/5/2017	9:55	Dry			
SO2-MW8d	2/1/2017		N/M			
SO2-MW8d	3/22/2017	11:36	Dry			
SO2-MW8d	4/20/2017	12:49	Dry			
SO2-MW8d	5/10/2017	14:48	Dry			
SO2-MW8d	6/7/2017	11:09	Dry			
SO2-MW8d	7/14/2017	11:33	Dry			
SO2-MW8d	8/24/2017	7:35	Dry			
SO2-MW8d	9/12/2017	15:47	Dry			
SO2-MW8d	10/18/2017	9:21	Dry			
SO2-MW8d	11/22/2017	10:59	Dry			
SO2-MW8d	12/22/2017	12:44	Dry			
SO2-MW8d	1/11/2018	9:20	Dry			
SO2-MW8d	2/8/2018	7:26	Dry			
SO2-MW8d	3/22/2018	10:15	Dry			
SO2-MW8d	4/24/2018	11:35	Dry			
SO2-MW8d	5/10/2018	16:22	Dry			
SO2-MW8d	6/14/2018	9:20	Dry			
SO2-MW8d	7/19/2018	13:52	Dry			
SO2-MW8d	8/8/2018	14:00	Dry			
SO2-MW8d	9/27/2018	8:25	Dry			
SO2-MW8d	10/30/2018	11:03	Dry			
SO2-MW8d	11/29/2018	7:41	Dry			
SO2-MW8d	12/27/2018	15:19	Dry			
SO2-MW8d	1/11/2019	7:27	Dry			
SO2-MW8d	2/15/2019	9:26	Dry			
SO2-MW8d	3/22/2019	11:30	Dry			
SO2-MW8d	4/19/2019	9:12	Dry			
SO2-MW8d	5/16/2019	12:16	Dry			
SO2-MW8d	6/13/2019	10:25	Dry			
SO2-MW8d	7/18/2019	10:24	Dry			
SO2-MW8d	8/15/2019	11:15	Dry			
SO2-MW8d	9/14/2019	15:33	Dry			
SO2-MW8d	10/29/2019	15:44	Dry			
SO2-MW8d	11/21/2019	15:11	Dry			
SO2-MW8d	12/12/2019	14:08	Dry			
SOJ-MW1	1/22/2013	12:23	Dry			
SOJ-MW1	2/12/2013	11:43	Dry			
SOJ-MW1	3/19/2013	11:10	Dry			
SOJ-MW1	4/23/2013	10:45	Dry			
SOJ-MW1	5/14/2013	10:40	Dry			
SOJ-MW1	6/19/2013	11:30	Dry			
SOJ-MW1	7/17/2013	11:17	Dry			
SOJ-MW1	8/16/2013	10:56	Dry			
SOJ-MW1	9/12/2013	9:16	Dry			
SOJ-MW1	10/23/2013	15:32	Dry			
SOJ-MW1	11/19/2013	9:50	Dry			
SOJ-MW1	12/26/2013	11:27	Dry			
SOJ-MW1	1/16/2014	9:58	Dry			
SOJ-MW1	2/20/2014	15:30	Dry			
SOJ-MW1	3/20/2014	12:28	Dry			
SOJ-MW1	4/16/2014	11:23	Dry			
SOJ-MW1	5/22/2014	11:03	Dry			
SOJ-MW1	6/13/2014	10:00	Dry			
SOJ-MW1	7/9/2014	16:07	Dry			
SOJ-MW1	8/21/2014	14:34	Dry			
SOJ-MW1	9/25/2014	16:15	Dry			
SOJ-MW1	10/22/2014	15:35	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SOJ-MW1	11/13/2014	11:14	Dry			
SOJ-MW1	12/17/2014	14:22	Dry			
SOJ-MW1	1/12/2015	12:38	Dry			
SOJ-MW1	2/24/2015	16:37	Dry			
SOJ-MW1	3/13/2015	9:32	Dry			
SOJ-MW1	4/22/2015	9:52	Dry			
SOJ-MW1	5/14/2015	17:22	Dry			
SOJ-MW1	6/12/2015	9:56	Dry			
SOJ-MW1	7/22/2015	10:57	Dry			
SOJ-MW1	8/19/2015	11:04	Dry			
SOJ-MW1	9/16/2015	10:30	Dry			
SOJ-MW1	10/22/2015	12:20	Dry			
SOJ-MW1	11/18/2015	14:30	Dry			
SOJ-MW1	12/18/2015	9:20	Dry			
SOJ-MW1	1/13/2016	9:53	Dry			
SOJ-MW1	2/24/2016	14:45	Dry			
SOJ-MW1	3/18/2016	10:25	Dry			
SOJ-MW1	4/20/2016	10:20	Dry			
SOJ-MW1	5/5/2016	12:58	Dry			
SOJ-MW1	6/24/2016	6:48	Dry			
SOJ-MW1	7/21/2016	10:09	Dry			
SOJ-MW1	8/8/2016	9:58	Dry			
SOJ-MW1	9/30/2016	7:25	Dry			
SOJ-MW1	10/28/2016	9:56	Dry			
SOJ-MW1	11/9/2016	15:40	Dry			
SOJ-MW1	12/23/2016	11:50	Dry			
SOJ-MW1	1/4/2017	11:38	Dry			
SOJ-MW1	2/1/2017		N/M			
SOJ-MW1	3/22/2017	13:21	Dry			
SOJ-MW1	4/20/2017	15:26	Dry			
SOJ-MW1	5/10/2017	13:42	Dry			
SOJ-MW1	6/7/2017	11:52	Dry			
SOJ-MW1	7/14/2017	12:23	Dry			
SOJ-MW1	8/24/2017	6:20	Dry			
SOJ-MW1	9/12/2017	17:03	Dry			
SOJ-MW1	10/18/2017	11:14	Dry			
SOJ-MW1	11/22/2017	12:17	Dry			
SOJ-MW1	12/23/2017	13:51	Dry			
SOJ-MW1	1/11/2018	10:14	Dry			
SOJ-MW1	2/8/2018	8:31	Dry			
SOJ-MW1	3/22/2018	8:30	Dry			
SOJ-MW1	4/25/2018	16:57	Dry			
SOJ-MW1	5/10/2018	13:45	Dry			
SOJ-MW1	6/14/2018	9:57	Dry			
SOJ-MW1	7/19/2018	14:50	Dry			
SOJ-MW1	8/9/2018	14:39	Dry			
SOJ-MW1	9/27/2018	9:53	Dry			
SOJ-MW1	10/31/2018	12:48	Dry			
SOJ-MW1	11/29/2018	8:18	Dry			
SOJ-MW1	12/27/2018	14:33	Dry			
SOJ-MW1	1/10/2019	14:05	Dry			
SOJ-MW1	2/15/2019	9:25	Dry			
SOJ-MW1	3/22/2019	12:20	Dry			
SOJ-MW1	4/19/2019	9:56	Dry			
SOJ-MW1	5/16/2019	10:33	Dry			
SOJ-MW1	6/13/2019	11:12	Dry			
SOJ-MW1	7/18/2019	11:30	Dry			
SOJ-MW1	8/15/2019	12:24	Dry			
SOJ-MW1	9/14/2019	16:45	Dry			
SOJ-MW1	10/29/2019	16:31	Dry			
SOJ-MW1	11/21/2019	14:00	Dry			
SOJ-MW1	12/12/2019	14:52	Dry			
SOJ-MW2	1/22/2013	12:36	Dry			
SOJ-MW2	2/12/2013	11:58	Dry			
SOJ-MW2	3/19/2013	11:21	Dry			
SOJ-MW2	4/23/2013	10:57	Dry			
SOJ-MW2	5/14/2013	10:49	Dry			
SOJ-MW2	6/19/2013	11:25	Dry			
SOJ-MW2	7/17/2013	11:00	Dry			
SOJ-MW2	8/16/2013	10:50	Dry			
SOJ-MW2	9/12/2013	9:59	Dry			
SOJ-MW2	10/23/2013	15:14	Dry			
SOJ-MW2	11/19/2013	10:05	Dry			
SOJ-MW2	12/26/2013	11:51	Dry			
SOJ-MW2	1/16/2014	10:18	Dry			
SOJ-MW2	2/20/2014	15:45	Dry			
SOJ-MW2	3/20/2014	12:06	Dry			
SOJ-MW2	4/16/2014	11:49	Dry			
SOJ-MW2	5/22/2014	10:31	Dry			
SOJ-MW2	6/13/2014	10:12	Dry			
SOJ-MW2	7/9/2014	16:20	Dry			
SOJ-MW2	8/21/2014	14:56	Dry			
SOJ-MW2	9/25/2014	16:35	Dry			
SOJ-MW2	10/22/2014	15:50	Dry			
SOJ-MW2	11/13/2014	11:24	Dry			
SOJ-MW2	12/17/2014	14:34	Dry			
SOJ-MW2	1/12/2015	12:52	Dry			
SOJ-MW2	2/24/2015	16:24	Dry			
SOJ-MW2	3/13/2015	9:44	Dry			
SOJ-MW2	4/22/2015	10:08	Dry			
SOJ-MW2	5/14/2015	17:36	Dry			
SOJ-MW2	6/12/2015	10:09	Dry			
SOJ-MW2	7/22/2015	10:26	Dry			
SOJ-MW2	8/19/2015	11:28	Dry			
SOJ-MW2	9/16/2015	10:44	Dry			
SOJ-MW2	10/22/2015	11:55	Dry			
SOJ-MW2	11/18/2015	14:35	Dry			
SOJ-MW2	12/18/2015	9:35	Dry			
SOJ-MW2	1/13/2016	10:06	Dry			
SOJ-MW2	2/24/2016	14:55	Dry			
SOJ-MW2	3/18/2016	10:37	Dry			
SOJ-MW2	4/20/2016	10:40	Dry			
SOJ-MW2	5/5/2016	13:10	Dry			
SOJ-MW2	6/24/2016	7:09	Dry			
SOJ-MW2	7/21/2016	9:46	Dry			
SOJ-MW2	8/8/2016	10:15	Dry			
SOJ-MW2	9/30/2016	7:31	Dry			
SOJ-MW2	10/28/2016	10:12	Dry			
SOJ-MW2	11/9/2016	15:51	Dry			
SOJ-MW2	12/23/2016	12:06	Dry			
SOJ-MW2	1/4/2017	12:10	Dry			
SOJ-MW2	2/1/2017		N/M			
SOJ-MW2	3/22/2017	13:43	Dry			
SOJ-MW2	4/20/2017	15:41	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SOJ-MW2	5/10/2017	13:56	Dry			
SOJ-MW2	6/7/2017	12:04	Dry			
SOJ-MW2	7/14/2017	12:32	Dry			
SOJ-MW2	8/24/2017	6:32	Dry			
SOJ-MW2	9/12/2017	16:47	Dry			
SOJ-MW2	10/18/2017	11:00	Dry			
SOJ-MW2	11/22/2017	11:57	Dry			
SOJ-MW2	12/23/2017	13:36	Dry			
SOJ-MW2	1/11/2018	10:28	Dry			
SOJ-MW2	2/8/2018	8:21	Dry			
SOJ-MW2	3/22/2018	9:10	Dry			
SOJ-MW2	4/25/2018	16:36	Dry			
SOJ-MW2	5/10/2018	13:30	Dry			
SOJ-MW2	6/14/2018	10:20	Dry			
SOJ-MW2	7/19/2018	14:53	Dry			
SOJ-MW2	8/9/2018	14:26	Dry			
SOJ-MW2	9/27/2018	10:00	Dry			
SOJ-MW2	10/31/2018	13:07	Dry			
SOJ-MW2	11/29/2018	8:24	Dry			
SOJ-MW2	12/27/2018	14:40	Dry			
SOJ-MW2	1/10/2019	14:10	Dry			
SOJ-MW2	2/15/2019	9:56	Dry			
SOJ-MW2	3/22/2019	12:34	Dry			
SOJ-MW2	4/19/2019	9:46	Dry			
SOJ-MW2	5/16/2019	10:40	Dry			
SOJ-MW2	6/13/2019	11:00	Dry			
SOJ-MW2	7/18/2019	11:45	Dry			
SOJ-MW2	8/15/2019	12:14	Dry			
SOJ-MW2	9/14/2019	17:13	Dry			
SOJ-MW2	10/29/2019	16:23	Dry			
SOJ-MW2	11/21/2019	14:08	Dry			
SOJ-MW2	12/12/2019	15:11	Dry			
SOJ-MW3	1/22/2013	12:26	Dry			
SOJ-MW3	2/12/2013	11:50	Dry			
SOJ-MW3	3/19/2013	11:15	Dry			
SOJ-MW3	4/23/2013	10:49	Dry			
SOJ-MW3	5/14/2013	10:58	Dry			
SOJ-MW3	6/19/2013	10:55	Dry			
SOJ-MW3	7/17/2013	11:12	Dry			
SOJ-MW3	8/16/2013	10:54	Dry			
SOJ-MW3	9/12/2013	9:21	Dry			
SOJ-MW3	10/23/2013	15:25	Dry			
SOJ-MW3	11/19/2013	9:54	Dry			
SOJ-MW3	12/26/2013	12:09	Dry			
SOJ-MW3	1/16/2014	10:04	Dry			
SOJ-MW3	2/20/2014	15:35	Dry			
SOJ-MW3	3/20/2014	11:50	Dry			
SOJ-MW3	4/16/2014	11:30	Dry			
SOJ-MW3	5/22/2014	10:23	Dry			
SOJ-MW3	6/13/2014	10:05	Dry			
SOJ-MW3	7/9/2014	16:12	Dry			
SOJ-MW3	8/21/2014	14:39	Dry			
SOJ-MW3	9/25/2014	16:20	Dry			
SOJ-MW3	10/22/2014	15:40	Dry			
SOJ-MW3	11/13/2014	11:20	Dry			
SOJ-MW3	12/17/2014	14:25	Dry			
SOJ-MW3	1/12/2015	12:43	Dry			
SOJ-MW3	2/24/2015	16:14	Dry			
SOJ-MW3	3/13/2015	9:35	Dry			
SOJ-MW3	4/22/2015	9:56	Dry			
SOJ-MW3	5/14/2015	17:28	Dry			
SOJ-MW3	6/12/2015	10:01	Dry			
SOJ-MW3	7/22/2015	10:20	Dry			
SOJ-MW3	8/19/2015	11:11	Dry			
SOJ-MW3	9/16/2015	10:35	Dry			
SOJ-MW3	10/22/2015	12:15	Dry			
SOJ-MW3	11/18/2015	14:40	Dry			
SOJ-MW3	12/18/2015	9:25	Dry			
SOJ-MW3	1/13/2016	10:24	Dry			
SOJ-MW3	2/24/2016	14:50	Dry			
SOJ-MW3	3/18/2016	10:30	Dry			
SOJ-MW3	4/20/2016	10:26	Dry			
SOJ-MW3	5/5/2016	13:01	Dry			
SOJ-MW3	6/24/2016	6:56	Dry			
SOJ-MW3	7/21/2016	10:04	Dry			
SOJ-MW3	8/8/2016	10:07	Dry			
SOJ-MW3	9/30/2016	7:42	Dry			
SOJ-MW3	10/28/2016	9:51	Dry			
SOJ-MW3	11/9/2016	15:44	Dry			
SOJ-MW3	12/23/2016	11:54	Dry			
SOJ-MW3	1/4/2017	11:40	Dry			
SOJ-MW3	2/1/2017		N/M			
SOJ-MW3	3/22/2017	13:31	Dry			
SOJ-MW3	4/20/2017	15:31	Dry			
SOJ-MW3	5/10/2017	13:46	Dry			
SOJ-MW3	6/7/2017	12:15	Dry			
SOJ-MW3	7/14/2017	12:26	Dry			
SOJ-MW3	8/24/2017	6:24	Dry			
SOJ-MW3	9/12/2017	16:39	Dry			
SOJ-MW3	10/18/2017	10:35	Dry			
SOJ-MW3	11/22/2017	12:14	Dry			
SOJ-MW3	12/23/2017	13:59	Dry			
SOJ-MW3	1/11/2018	10:20	N/M			
SOJ-MW3	2/8/2018		N/M			
SOJ-MW3	3/22/2018		N/M			
SOJ-MW3	4/25/2018	17:00	N/M			
SOJ-MW3	5/10/2018		N/M			
SOJ-MW3	6/14/2018		N/M			
SOJ-MW3	7/19/2018		N/M			
SOJ-MW3	8/9/2018		N/M			
SOJ-MW3	9/27/2018		N/M			
SOJ-MW3	10/31/2018		N/M			
SOJ-MW3	11/29/2018		N/M			
SOJ-MW3	12/27/2018		N/M			
SOJ-MW3	1/10/2019		N/M			
SOJ-MW3	2/15/2019	10:06	N/M			
SOJ-MW3	3/22/2019	12:55	N/M			
SOJ-MW3	4/19/2019		N/M			
SOJ-MW3	5/16/2019		Dry			
SOJ-MW3	6/13/2019		N/M			
SOJ-MW3	7/18/2019		N/M			
SOJ-MW3	8/15/2019		N/M			
SOJ-MW3	9/14/2019		N/M			
SOJ-MW3	10/29/2019		N/M			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SOJ-MW3	11/21/2019		N/M			
SOJ-MW3	12/12/2019		N/M			
SOJ-MW4	1/22/2013	12:31	Dry			
SOJ-MW4	2/12/2013	11:55	Dry			
SOJ-MW4	3/19/2013	11:05	Dry			
SOJ-MW4	4/23/2013	10:54	Dry			
SOJ-MW4	5/14/2013	11:07	Dry			
SOJ-MW4	6/19/2013	11:00	Dry			
SOJ-MW4	7/17/2013	11:06	Dry			
SOJ-MW4	8/16/2013	10:52	Dry			
SOJ-MW4	9/12/2013	9:29	Dry			
SOJ-MW4	10/23/2013	15:19	Dry			
SOJ-MW4	11/19/2013	9:59	Dry			
SOJ-MW4	12/26/2013	11:48	Dry			
SOJ-MW4	1/16/2014	10:10	Dry			
SOJ-MW4	2/20/2014	15:40	Dry			
SOJ-MW4	3/20/2014	11:56	Dry			
SOJ-MW4	4/16/2014	11:36	Dry			
SOJ-MW4	5/22/2014	10:42	Dry			
SOJ-MW4	6/13/2014	10:10	Dry			
SOJ-MW4	7/9/2014	16:18	Dry			
SOJ-MW4	8/21/2014	14:46	Dry			
SOJ-MW4	9/25/2014	16:30	Dry			
SOJ-MW4	10/22/2014	15:45	Dry			
SOJ-MW4	11/13/2014	11:28	Dry			
SOJ-MW4	12/17/2014	14:30	Dry			
SOJ-MW4	1/12/2015	12:48	Dry			
SOJ-MW4	2/24/2015	16:19	Dry			
SOJ-MW4	3/13/2015	9:40	Dry			
SOJ-MW4	4/22/2015	10:03	Dry			
SOJ-MW4	5/14/2015	17:32	Dry			
SOJ-MW4	6/12/2015	10:05	Dry			
SOJ-MW4	7/22/2015	10:50	Dry			
SOJ-MW4	8/19/2015	11:17	Dry			
SOJ-MW4	9/16/2015	10:39	Dry			
SOJ-MW4	10/22/2015	12:10	Dry			
SOJ-MW4	11/18/2015	14:45	Dry			
SOJ-MW4	12/18/2015	9:30	Dry			
SOJ-MW4	1/13/2016	10:19	Dry			
SOJ-MW4	2/24/2016	15:16	Dry			
SOJ-MW4	3/18/2016	10:34	Dry			
SOJ-MW4	4/20/2016	10:34	Dry			
SOJ-MW4	5/5/2016	13:07	Dry			
SOJ-MW4	6/24/2016	7:02	Dry			
SOJ-MW4	7/21/2016	9:59	Dry			
SOJ-MW4	8/8/2016	10:13	Dry			
SOJ-MW4	9/30/2016	7:48	Dry			
SOJ-MW4	10/28/2016	10:16	Dry			
SOJ-MW4	11/9/2016	15:48	Dry			
SOJ-MW4	12/23/2016	11:59	Dry			
SOJ-MW4	1/4/2017	12:20	Dry			
SOJ-MW4	2/1/2017		N/M			
SOJ-MW4	3/22/2017	13:39	Dry			
SOJ-MW4	4/20/2017	15:36	Dry			
SOJ-MW4	5/10/2017	13:52	Dry			
SOJ-MW4	6/7/2017	12:12	Dry			
SOJ-MW4	7/14/2017		N/M			
SOJ-MW4	8/24/2017	6:28	Dry			
SOJ-MW4	9/12/2017		N/M			
SOJ-MW4	10/18/2017	10:45				
SOJ-MW4	11/22/2017		N/M			
SOJ-MW4	12/23/2017		N/M			
SOJ-MW4	1/11/2018	10:25	N/M			
SOJ-MW4	2/8/2018		N/M			
SOJ-MW4	3/22/2018		N/M			
SOJ-MW4	4/25/2018	16:40	N/M			
SOJ-MW4	5/10/2018		N/M			
SOJ-MW4	6/14/2018		N/M			
SOJ-MW4	7/19/2018		N/M			
SOJ-MW4	8/9/2018		N/M			
SOJ-MW4	9/27/2018		N/M			
SOJ-MW4	10/31/2018		N/M			
SOJ-MW4	11/29/2018		N/M			
SOJ-MW4	12/27/2018		N/M			
SOJ-MW4	1/10/2019		N/M			
SOJ-MW4	2/15/2019	10:01	N/M			
SOJ-MW4	3/22/2019	13:05	N/M			
SOJ-MW4	4/19/2019		N/M			
SOJ-MW4	5/16/2019		N/M			
SOJ-MW4	6/13/2019		N/M			
SOJ-MW4	7/18/2019		N/M			
SOJ-MW4	8/15/2019		N/M			
SOJ-MW4	9/14/2019		N/M			
SOJ-MW4	10/29/2019		N/M			
SOJ-MW4	11/21/2019		N/M			
SOJ-MW4	12/12/2019		N/M			
SOJ-MW5s	1/22/2013	12:41	77.46	205.05	<|0.05|	0
SOJ-MW5s	2/12/2013	12:08	77.54	204.97	<|0.05|	0
SOJ-MW5s	3/19/2013	11:30	80.02	202.49	<|0.05|	0
SOJ-MW5s	4/23/2013	11:01	82.02	200.49	0.05	0.00
SOJ-MW5s	5/14/2013	11:18	83.82	198.69	<|0.05|	0
SOJ-MW5s	6/19/2013	11:10	87.30	195.21	<|0.05|	0
SOJ-MW5s	7/17/2013	10:50	Dry			
SOJ-MW5s	8/16/2013	11:00	Dry			
SOJ-MW5s	9/12/2013	9:35	Dry			
SOJ-MW5s	10/23/2013	14:55	Dry			
SOJ-MW5s	11/19/2013	10:10	Dry			
SOJ-MW5s	12/26/2013	11:57	Dry			
SOJ-MW5s	1/16/2014	10:20	Dry			
SOJ-MW5s	2/20/2014	15:49	Dry			
SOJ-MW5s	3/20/2014	12:10	Dry			
SOJ-MW5s	4/16/2014	11:42	Dry			
SOJ-MW5s	5/22/2014	10:46	Dry			
SOJ-MW5s	6/13/2014	10:14	Dry			
SOJ-MW5s	7/9/2014	16:22	Dry			
SOJ-MW5s	8/21/2014	15:03	Dry			
SOJ-MW5s	9/25/2014	16:43	Dry			
SOJ-MW5s	10/22/2014	15:55	Dry			
SOJ-MW5s	11/13/2014	11:28	Dry			
SOJ-MW5s	12/17/2014	14:38	Dry			
SOJ-MW5s	1/12/2015	12:55	Dry			
SOJ-MW5s	2/24/2015	16:28	Dry			
SOJ-MW5s	3/13/2015	9:47	Dry			
SOJ-MW5s	4/22/2015	10:11	Dry			

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SOJ-MW5s	5/14/2015	17:40	Dry			
SOJ-MW5s	6/12/2015	10:12	Dry			
SOJ-MW5s	7/22/2015	10:32	Dry			
SOJ-MW5s	8/19/2015	11:35	Dry			
SOJ-MW5s	9/16/2015	10:48	Dry			
SOJ-MW5s	10/22/2015	12:00	Dry			
SOJ-MW5s	11/18/2015	14:50	Dry			
SOJ-MW5s	12/18/2015	9:40	Dry			
SOJ-MW5s	1/13/2016	10:11	Dry			
SOJ-MW5s	2/24/2016	15:00	Dry			
SOJ-MW5s	3/18/2016	10:39	Dry			
SOJ-MW5s	4/20/2016	10:45	Dry			
SOJ-MW5s	5/5/2016	13:15	Dry			
SOJ-MW5s	6/24/2016	7:12	Dry			
SOJ-MW5s	7/21/2016	9:40	Dry			
SOJ-MW5s	8/8/2016	10:16	Dry			
SOJ-MW5s	9/30/2016	7:54	Dry			
SOJ-MW5s	10/28/2016	10:09	Dry			
SOJ-MW5s	11/9/2016	15:51	Dry			
SOJ-MW5s	12/23/2016	12:12	Dry			
SOJ-MW5s	1/4/2017	12:00	Dry			
SOJ-MW5s	2/1/2017		N/M			
SOJ-MW5s	3/22/2017	13:44	Dry			
SOJ-MW5s	4/20/2017	15:46	Dry			
SOJ-MW5s	5/10/2017	13:59	Dry			
SOJ-MW5s	6/7/2017	12:07	Dry			
SOJ-MW5s	7/14/2017	12:35	Dry			
SOJ-MW5s	8/24/2017	6:34	Dry			
SOJ-MW5s	9/12/2017	16:49	Dry			
SOJ-MW5s	10/18/2017	11:02	Dry			
SOJ-MW5s	11/22/2017	11:53	Dry			
SOJ-MW5s	12/23/2017	13:31	Dry			
SOJ-MW5s	1/11/2018	10:30	Dry			
SOJ-MW5s	2/8/2018	8:18	Dry			
SOJ-MW5s	3/22/2018	8:55	Dry			
SOJ-MW5s	4/25/2018	16:34	Dry			
SOJ-MW5s	5/10/2018	13:40	Dry			
SOJ-MW5s	6/14/2018	10:24	Dry			
SOJ-MW5s	7/19/2018	15:00	Dry			
SOJ-MW5s	8/9/2018	14:19	Dry			
SOJ-MW5s	9/27/2018	10:04	Dry			
SOJ-MW5s	10/31/2018	13:00	Dry			
SOJ-MW5s	11/29/2018	8:31	Dry			
SOJ-MW5s	12/27/2018	14:44	Dry			
SOJ-MW5s	1/10/2019	14:12	Dry			
SOJ-MW5s	2/15/2019	9:49	Dry			
SOJ-MW5s	3/22/2019	12:30	Dry			
SOJ-MW5s	4/19/2019	9:42	Dry			
SOJ-MW5s	5/16/2019	10:43	N/M			
SOJ-MW5s	6/13/2019	11:02	Dry			
SOJ-MW5s	7/18/2019	11:40	Dry			
SOJ-MW5s	8/15/2019	12:08	Dry			
SOJ-MW5s	9/14/2019	17:07	Dry			
SOJ-MW5s	10/29/2019	16:20	Dry			
SOJ-MW5s	11/21/2019	14:13	Dry			
SOJ-MW5s	12/12/2019	15:06	Dry			
SOJ-MW5d	1/22/2013	12:45	77.44	205.06		
SOJ-MW5d	2/12/2013	12:11	77.52	204.98		
SOJ-MW5d	3/19/2013	11:33	80.01	202.49		
SOJ-MW5d	4/23/2013	11:04	82.06	200.44		
SOJ-MW5d	5/14/2013	11:24	83.81	198.69		
SOJ-MW5d	6/19/2013	11:05	87.31	195.19		
SOJ-MW5d	7/17/2013	10:54	92.09	190.41		
SOJ-MW5d	8/16/2013	11:02	93.02	189.48		
SOJ-MW5d	9/12/2013	9:39	94.65	187.85		
SOJ-MW5d	10/23/2013	14:59	91.69	190.81		
SOJ-MW5d	11/19/2013	10:14	91.83	190.67		
SOJ-MW5d	12/26/2013	12:01	91.75	190.75		
SOJ-MW5d	1/16/2014	10:24	90.46	192.04		
SOJ-MW5d	2/20/2014	15:52	92.82	189.68		
SOJ-MW5d	3/20/2014	12:14	92.19	190.31		
SOJ-MW5d	4/16/2014	11:45	96.53	185.97		
SOJ-MW5d	5/22/2014	10:49	99.71	182.79		
SOJ-MW5d	6/13/2014	10:17	103.40	179.10		
SOJ-MW5d	7/9/2014	16:24	105.53	176.97		
SOJ-MW5d	8/21/2014	15:06	105.59	176.91		
SOJ-MW5d	9/25/2014	16:40	105.66	176.84		
SOJ-MW5d	10/22/2014	15:58	105.57	176.93		
SOJ-MW5d	11/13/2014	11:30	100.90	181.60		
SOJ-MW5d	12/17/2014	14:40	99.74	182.76		
SOJ-MW5d	1/12/2015	12:58	98.93	183.57		
SOJ-MW5d	2/24/2015	16:30	99.14	183.36		
SOJ-MW5d	3/13/2015	9:50	99.71	182.79		
SOJ-MW5d	4/22/2015	10:13	102.00	180.50		
SOJ-MW5d	5/14/2015	17:44	103.70	178.80		
SOJ-MW5d	6/12/2015	10:15	106.36	176.14		
SOJ-MW5d	7/22/2015	10:36	Dry			
SOJ-MW5d	8/19/2015	11:39	108.15	174.35		
SOJ-MW5d	9/16/2015	10:50	Dry			
SOJ-MW5d	10/22/2015	12:05	Dry			
SOJ-MW5d	11/18/2015	14:55	Dry			
SOJ-MW5d	12/18/2015	9:43	Dry			
SOJ-MW5d	1/13/2016	10:14	Dry			
SOJ-MW5d	2/24/2016	15:03	Dry			
SOJ-MW5d	3/18/2016	10:41	Dry			
SOJ-MW5d	4/20/2016	10:48	Dry			
SOJ-MW5d	5/5/2016	13:20	Dry			
SOJ-MW5d	6/24/2016	7:15	Dry			
SOJ-MW5d	7/21/2016	9:43	Dry			
SOJ-MW5d	8/8/2016	10:18	Dry			
SOJ-MW5d	9/30/2016	7:57	Dry			
SOJ-MW5d	10/28/2016	10:07	Dry			
SOJ-MW5d	11/9/2016	15:53	Dry			
SOJ-MW5d	12/23/2016	12:14	Dry			
SOJ-MW5d	1/4/2017	11:55	Dry			
SOJ-MW5d	2/1/2017		N/M			
SOJ-MW5d	3/22/2017	13:50	Dry			
SOJ-MW5d	4/20/2017	15:49	Dry			
SOJ-MW5d	5/10/2017	14:02	Dry			
SOJ-MW5d	6/7/2017	12:08	Dry			
SOJ-MW5d	7/14/2017	12:37	Dry			
SOJ-MW5d	8/24/2017	6:38	Dry			
SOJ-MW5d	9/12/2017	16:51	Dry			
SOJ-MW5d	10/18/2017	11:04	102.51	179.99		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SOJ-MW5d	11/22/2017	11:51	104.58	177.92		
SOJ-MW5d	12/23/2017	13:32	99.18	183.32		
SOJ-MW5d	1/11/2018	10:32	99.24	183.26		
SOJ-MW5d	2/8/2018	8:16	102.66	179.84		
SOJ-MW5d	3/22/2018	9:00	98.65	183.85		
SOJ-MW5d	4/25/2018	16:32	98.00	184.50		
SOJ-MW5d	5/10/2018	13:43	99.66	182.84		
SOJ-MW5d	6/14/2018	10:26	101.10	181.40		
SOJ-MW5d	7/19/2018	15:02	101.26	181.24		
SOJ-MW5d	8/9/2018	14:21	103.36	179.14		
SOJ-MW5d	9/27/2018	10:07	101.00	181.50		
SOJ-MW5d	10/31/2018	13:02	100.09	182.41		
SOJ-MW5d	11/29/2018	8:30	108.39	174.11		
SOJ-MW5d	12/27/2018	14:45	100.07	182.43		
SOJ-MW5d	1/10/2019	14:13	99.80	182.70		
SOJ-MW5d	2/15/2019	9:50	Dry			
SOJ-MW5d	3/22/2019	12:32	Dry			
SOJ-MW5d	4/19/2019	9:43	102.11	180.39		
SOJ-MW5d	5/16/2019	10:45	Dry			
SOJ-MW5d	6/13/2019	11:03	94.41	188.09		
SOJ-MW5d	7/18/2019	11:42	104.05	178.45		
SOJ-MW5d	8/15/2019	12:10	102.39	180.11		
SOJ-MW5d	9/14/2019	17:10	101.50	181.00		
SOJ-MW5d	10/29/2019	16:21	99.12	183.38		
SOJ-MW5d	11/21/2019	14:14	100.36	182.14		
SOJ-MW5d	12/12/2019	15:08	97.52	184.98		
SOJ-MW6s	1/22/2013	12:50	76.11	205.71	0.18	0.01
SOJ-MW6s	2/12/2013	12:16	76.13	205.69	0.17	0.01
SOJ-MW6s	3/19/2013	12:21	78.72	203.10	0.07	0.00
SOJ-MW6s	4/23/2013	11:08	80.85	200.97	0.17	0.01
SOJ-MW6s	5/14/2013	11:33	82.39	199.43	0.29	0.01
SOJ-MW6s	6/19/2013	11:19	86.13	195.69	0.20	0.01
SOJ-MW6s	7/17/2013	10:44	Dry			
SOJ-MW6s	8/16/2013	11:05	Dry			
SOJ-MW6s	9/12/2013	9:46	Dry			
SOJ-MW6s	10/23/2013	15:04	Dry			
SOJ-MW6s	11/19/2013	10:20	Dry			
SOJ-MW6s	12/26/2013	11:32	Dry			
SOJ-MW6s	1/16/2014	10:28	Dry			
SOJ-MW6s	2/20/2014	15:58	Dry			
SOJ-MW6s	3/20/2014	12:19	Dry			
SOJ-MW6s	4/16/2014	11:56	Dry			
SOJ-MW6s	5/22/2014	10:54	Dry			
SOJ-MW6s	6/13/2014	10:22	Dry			
SOJ-MW6s	7/9/2014	16:27	Dry			
SOJ-MW6s	8/21/2014	15:11	Dry			
SOJ-MW6s	9/25/2014	16:55	Dry			
SOJ-MW6s	10/22/2014	16:05	Dry			
SOJ-MW6s	11/13/2014	11:15	Dry			
SOJ-MW6s	12/17/2014	14:45	Dry			
SOJ-MW6s	1/12/2015	13:03	Dry			
SOJ-MW6s	2/24/2015	16:46	Dry			
SOJ-MW6s	3/13/2015	9:53	Dry			
SOJ-MW6s	4/22/2015	10:19	Dry			
SOJ-MW6s	5/14/2015	17:48	Dry			
SOJ-MW6s	6/12/2015	10:20	Dry			
SOJ-MW6s	7/22/2015	10:41	Dry			
SOJ-MW6s	8/19/2015	11:44	Dry			
SOJ-MW6s	9/16/2015	10:54	Dry			
SOJ-MW6s	10/22/2015	11:45	Dry			
SOJ-MW6s	11/18/2015	15:00	Dry			
SOJ-MW6s	12/18/2015	9:48	Dry			
SOJ-MW6s	1/13/2016	9:58	Dry			
SOJ-MW6s	2/24/2016	15:08	Dry			
SOJ-MW6s	3/18/2016	10:45	Dry			
SOJ-MW6s	4/20/2016	10:54	Dry			
SOJ-MW6s	5/5/2016	13:24	Dry			
SOJ-MW6s	6/24/2016	7:22	Dry			
SOJ-MW6s	7/21/2016	9:50	Dry			
SOJ-MW6s	8/8/2016	10:22	Dry			
SOJ-MW6s	9/30/2016	8:10	Dry			
SOJ-MW6s	10/28/2016	10:10	Dry			
SOJ-MW6s	11/9/2016	15:56	Dry			
SOJ-MW6s	12/23/2016	12:19	Dry			
SOJ-MW6s	1/4/2017	11:45	Dry			
SOJ-MW6s	2/1/2017		N/M			
SOJ-MW6s	3/22/2017	13:54	Dry			
SOJ-MW6s	4/20/2017	15:55	Dry			
SOJ-MW6s	5/10/2017	13:56	Dry			
SOJ-MW6s	6/7/2017	12:01	Dry			
SOJ-MW6s	7/14/2017	12:37	Dry			
SOJ-MW6s	8/24/2017	6:42	Dry			
SOJ-MW6s	9/12/2017	16:54	Dry			
SOJ-MW6s	10/18/2017	11:09	Dry			
SOJ-MW6s	11/22/2017	12:02	Dry			
SOJ-MW6s	12/23/2017	13:42	Dry			
SOJ-MW6s	1/11/2018	10:37	Dry			
SOJ-MW6s	2/8/2018	8:25	Dry			
SOJ-MW6s	3/22/2018	8:40	Dry			
SOJ-MW6s	4/25/2018	16:54	Dry			
SOJ-MW6s	5/10/2018	13:50	Dry			
SOJ-MW6s	6/14/2018	10:33	Dry			
SOJ-MW6s	7/19/2018	15:08	Dry			
SOJ-MW6s	8/9/2018	14:31	Dry			
SOJ-MW6s	9/27/2018		Dry			
SOJ-MW6s	10/31/2018	12:55	Dry			
SOJ-MW6s	11/29/2018	8:37	Dry			
SOJ-MW6s	12/27/2018	14:51	Dry			
SOJ-MW6s	1/10/2019	14:17	Dry			
SOJ-MW6s	2/15/2019	9:43	Dry			
SOJ-MW6s	3/22/2019	12:40	Dry			
SOJ-MW6s	4/19/2019	9:51	Dry			
SOJ-MW6s	5/16/2019	10:50	Dry			
SOJ-MW6s	6/13/2019	11:08	Dry			
SOJ-MW6s	7/18/2019	11:33	Dry			
SOJ-MW6s	8/15/2019	12:19	Dry			
SOJ-MW6s	9/14/2019	16:56	Dry			
SOJ-MW6s	10/29/2019	16:26	Dry			
SOJ-MW6s	11/21/2019	14:18	Dry			
SOJ-MW6s	12/12/2019	14:58	Dry			
SOJ-MW6d	1/22/2013	12:53	76.13	205.53		
SOJ-MW6d	2/12/2013	12:20	76.14	205.52		
SOJ-MW6d	3/19/2013	12:19	78.63	203.03		
SOJ-MW6d	4/23/2013	11:11	80.86	200.80		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V
SOJ-MW6d	5/14/2013	11:42	82.52	199.14		
SOJ-MW6d	6/19/2013	11:16	86.17	195.49		
SOJ-MW6d	7/17/2013	10:41	89.23	192.43		
SOJ-MW6d	8/16/2013	11:08	90.43	191.23		
SOJ-MW6d	9/12/2013	9:50	91.23	190.43		
SOJ-MW6d	10/23/2013	15:08	90.38	191.28		
SOJ-MW6d	11/19/2013	10:25	90.75	190.91		
SOJ-MW6d	12/26/2013	11:39	90.06	191.60		
SOJ-MW6d	1/16/2014	10:31	90.37	191.29		
SOJ-MW6d	2/20/2014	16:00	90.78	190.88		
SOJ-MW6d	3/20/2014	12:22	91.04	190.62		
SOJ-MW6d	4/16/2014	11:59	93.39	188.27		
SOJ-MW6d	5/22/2014	10:57	96.28	185.38		
SOJ-MW6d	6/13/2014	10:25	100.19	181.47		
SOJ-MW6d	7/9/2014	16:30	102.30	179.36		
SOJ-MW6d	8/21/2014	15:15	102.78	178.88		
SOJ-MW6d	9/25/2014	16:50	102.90	178.76		
SOJ-MW6d	10/22/2014	16:08	103.31	178.35		
SOJ-MW6d	11/13/2014	11:18	99.17	182.49		
SOJ-MW6d	12/17/2014	14:47	98.54	183.12		
SOJ-MW6d	1/12/2015	13:06	97.83	183.83		
SOJ-MW6d	2/24/2015	16:49	98.08	183.58		
SOJ-MW6d	3/13/2015	9:56	98.58	183.08		
SOJ-MW6d	4/22/2015	10:21	100.89	180.77		
SOJ-MW6d	5/14/2015	17:52	102.45	179.21		
SOJ-MW6d	6/12/2015	10:23	104.52	177.14		
SOJ-MW6d	7/22/2015	10:44	107.57	174.09		
SOJ-MW6d	8/19/2015	11:47	107.22	174.44		
SOJ-MW6d	9/16/2015	10:57	Dry			
SOJ-MW6d	10/22/2015	11:50	Dry			
SOJ-MW6d	11/18/2015	15:05	Dry			
SOJ-MW6d	12/18/2015	9:51	Dry			
SOJ-MW6d	1/13/2016	10:01	Dry			
SOJ-MW6d	2/24/2016	15:11	Dry			
SOJ-MW6d	3/18/2016	10:48	Dry			
SOJ-MW6d	4/20/2016	10:57	Dry			
SOJ-MW6d	5/5/2016	13:26	Dry			
SOJ-MW6d	6/24/2016	7:25	Dry			
SOJ-MW6d	7/21/2016	9:53	Dry			
SOJ-MW6d	8/8/2016	10:25	Dry			
SOJ-MW6d	9/30/2016	8:14	Dry			
SOJ-MW6d	10/28/2016	10:13	Dry			
SOJ-MW6d	11/9/2016	15:57	Dry			
SOJ-MW6d	12/23/2016	12:21	Dry			
SOJ-MW6d	1/4/2017	11:49	Dry			
SOJ-MW6d	2/1/2017		N/M			
SOJ-MW6d	3/22/2017	13:59	Dry			
SOJ-MW6d	4/20/2017	15:59	Dry			
SOJ-MW6d	5/10/2017	13:59	Dry			
SOJ-MW6d	6/7/2017	11:59	Dry			
SOJ-MW6d	7/14/2017	12:40	Dry			
SOJ-MW6d	8/24/2017	6:46	Dry			
SOJ-MW6d	9/12/2017	16:57	Dry			
SOJ-MW6d	10/18/2017	11:11	100.85	180.81		
SOJ-MW6d	11/22/2017	12:03	103.89	177.77		
SOJ-MW6d	12/23/2017	13:43	98.57	183.09		
SOJ-MW6d	1/11/2018	10:39	97.70	183.96		
SOJ-MW6d	2/8/2018	8:26	101.32	180.34		
SOJ-MW6d	3/22/2018	8:45	96.20	185.46		
SOJ-MW6d	4/25/2018	16:53	95.95	185.71		
SOJ-MW6d	5/10/2018	13:53	96.81	184.85		
SOJ-MW6d	6/14/2018	10:31	99.02	182.64		
SOJ-MW6d	7/19/2018	15:06	99.13	182.53		
SOJ-MW6d	8/9/2018	14:23	104.19	177.47		
SOJ-MW6d	9/27/2018		99.19	182.47		
SOJ-MW6d	10/31/2018	12:56	99.07	182.59		
SOJ-MW6d	11/29/2018	8:38	107.67	173.99		
SOJ-MW6d	12/27/2018	14:52	98.70	182.96		
SOJ-MW6d	1/10/2019	14:18	92.56	189.10		
SOJ-MW6d	2/15/2019	9:42	Dry			
SOJ-MW6d	3/22/2019	12:42	Dry			
SOJ-MW6d	4/19/2019	9:52	103.64	178.02		
SOJ-MW6d	5/16/2019	10:51	Dry			
SOJ-MW6d	6/13/2019	11:09	99.60	182.06		
SOJ-MW6d	7/18/2019	11:35	Dry			
SOJ-MW6d	8/15/2019	12:22	99.90	181.76		
SOJ-MW6d	9/14/2019	16:59	Dry			
SOJ-MW6d	10/29/2019	16:27	106.31	175.35		
SOJ-MW6d	11/21/2019	14:19	100.02	181.64		
SOJ-MW6d	12/12/2019	15:01	95.94	185.72		

Table 4-3
Depth-to-Water Measurements (in feet below the top of PVC casing), Calculated Groundwater Elevations (NAVD88), Hydraulic Head Differences (dh), and Vertical Gradients (i_V, positive downward)

Well ID	Date	Time	DTW	GWE	dh	i_V	Well ID	Date	Time	DTW	GWE	dh	i_V

Depth-to-water (DTW) is measured to the nearest hundredth (0.01) of a foot (ft). Field experience suggests a precision (i.e., repeatability) of +/-0.02 ft. Therefore, if the dh ranges between postive and negative 0.04, it is too small to determine whether any gradient exists. In that case, dh is expressed as <|0.05| and assigned a zero value to compute i_V. Consequently, $i_V = 0$. In cases where i_V is nearer to zero than can be expressed with two decimals, the table shows 0.00 and -0.00 for positive and negative values, respectively.

The vertical gradient is calculated based on the hydraulic head difference and the distance between the midpoints of the shallow and deep well screens.

DTW Notes: Dry = Well was dry; N/M = No measurement made; Obs = Obstruction; Q/M = Questionable measurement

Table 4-4
Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v	Well ID	DTW	GWE	dh	i_v
MEN-MW1s					MEN-MW4s				
Max	11.46	55.58	0.22	0.02	Max	11.39	54.35	0.06	0.00
Min	5.23	49.35	-0.11	-0.01	Min	6.09	49.05	-0.33	-0.03
Rng	6.23	6.23	0.33	0.03	Rng	5.30	5.30	0.39	0.03
Med	8.78	52.03	0	0	Med	8.79	51.65	0	0
Mean	8.76	52.05	0.00	0.00	Mean	8.79	51.65	-0.01	-0.00
StDev	1.38	1.38	0.03	0.00	StDev	1.29	1.29	0.04	0.00
CV	0.16	0.03	17.60	17.60	CV	0.15	0.02	-5.10	-5.10
Count	93	93	93	93	Count	94	94	94	94
MEN-MW1d					MEN-MW4d				
Max	11.36	55.56			Max	11.29	54.33		
Min	5.16	49.36			Min	6.00	49.04		
Rng	6.20	6.20			Rng	5.29	5.29		
Med	8.83	51.90			Med	8.67	51.67		
Mean	8.69	52.03			Mean	8.67	51.66		
StDev	1.37	1.37			StDev	1.28	1.28		
CV	0.16	0.03			CV	0.15	0.02		
Count	94	94			Count	94	94		
MEN-MW2s					MEN-MW5s				
Max	11.40	55.67	0.36	0.03	Max	14.89	53.68	0.20	0.02
Min	5.20	49.47	-0.34	-0.03	Min	7.42	46.21	-0.10	-0.01
Rng	6.20	6.20	0.70	0.05	Rng	7.47	7.47	0.30	0.02
Med	8.74	52.14	0	0	Med	10.34	50.76	0	0
Mean	8.69	52.18	0.03	0.00	Mean	10.65	50.45	0.00	0.00
StDev	1.36	1.36	0.09	0.01	StDev	1.49	1.49	0.03	0.00
CV	0.16	0.03	2.72	2.72	CV	0.14	0.03	6.67	6.67
Count	94	94	94	94	Count	94	94	94	94
MEN-MW2d					MEN-MW5d				
Max	11.37	55.53			Max	14.75	53.69		
Min	5.28	49.44			Min	7.31	46.25		
Rng	6.09	6.09			Rng	7.44	7.44		
Med	8.67	52.15			Med	10.26	50.75		
Mean	8.67	52.14			Mean	10.56	50.44		
StDev	1.34	1.34			StDev	1.50	1.50		
CV	0.15	0.03			CV	0.14	0.03		
Count	94	94			Count	94	94		
MEN-MW3s					MEN-MW6s				
Max	12.19	54.24	0.81	0.06	Max	10.73	54.51	0.61	0.03
Min	6.53	48.58	-0.72	-0.06	Min	4.51	48.29	-0.99	-0.06
Rng	5.66	5.66	1.53	0.12	Rng	6.22	6.22	1.60	0.09
Med	9.27	51.51	-0.12	-0.01	Med	7.54	51.48	0	0
Mean	9.32	51.45	-0.14	-0.01	Mean	7.50	51.52	-0.00	-0.00
StDev	1.32	1.32	0.15	0.01	StDev	1.35	1.35	0.12	0.01
CV	0.14	0.03	-1.13	-1.13	CV	0.18	0.03	-33.49	-33.49
Count	94	94	94	94	Count	94	94	94	94
MEN-MW3d					MEN-MW6d				
Max	11.94	54.30			Max	10.67	54.53		
Min	6.37	48.73			Min	4.42	48.28		
Rng	5.57	5.57			Rng	6.25	6.25		
Med	9.04	51.64			Med	7.46	51.49		
Mean	9.09	51.58			Mean	7.42	51.53		
StDev	1.30	1.30			StDev	1.37	1.37		
CV	0.14	0.03			CV	0.18	0.03		
Count	94	94			Count	94	94		

Table 4-4
Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v
MEN-MW7s				
Max	8.87	56.39	1.24	0.07
Min	3.09	50.61	-0.97	-0.05
Rng	5.78	5.78	2.21	0.12
Med	6.24	53.25	0	0
Mean	6.08	53.40	0.00	0.00
StDev	1.26	1.26	0.16	0.01
CV	0.21	0.02	35.13	35.13
Count	94	94	94	94
MEN-MW7d				
Max	8.65	56.41		
Min	2.96	50.72		
Rng	5.69	5.69		
Med	6.11	53.27		
Mean	5.96	53.41		
StDev	1.26	1.26		
CV	0.21	0.02		
Count	94	94		
MEN-MW8s				
Max	13.62	53.80	0.45	0.03
Min	7.34	47.52	-1.04	-0.08
Rng	6.28	6.28	1.49	0.11
Med	10.26	50.88	0	0
Mean	10.39	50.75	-0.04	-0.00
StDev	1.40	1.40	0.18	0.01
CV	0.13	0.03	-4.10	-4.10
Count	60	60	60	60
MEN-MW8d				
Max	13.76	53.90		
Min	7.36	47.50		
Rng	6.40	6.40		
Med	10.39	50.88		
Mean	10.47	50.79		
StDev	1.42	1.42		
CV	0.14	0.03		
Count	60	60		
ANC-MW1				
Max	18.66	65.57		
Min	7.25	54.16		
Rng	11.41	11.41		
Med	13.83	59.00		
Mean	13.74	59.08		
StDev	2.29	2.29		
CV	0.17	0.04		
Count	94	94		
ANC-MW2				
Max	25.42	65.83		
Min	14.47	54.88		
Rng	10.95	10.95		
Med	20.98	59.32		
Mean	20.92	59.38		
StDev	2.22	2.22		
CV	0.11	0.04		
Count	93	93		

Well ID	DTW	GWE	dh	i_v
ANC-MW3				
Max	16.21	65.59		
Min	5.16	54.54		
Rng	11.05	11.05		
Med	11.27	59.49		
Mean	11.35	59.40		
StDev	2.28	2.28		
CV	0.20	0.04		
Count	94	94		
ANC-MW4				
Max	27.04	65.33		
Min	15.94	54.23		
Rng	11.10	11.10		
Med	21.86	59.41		
Mean	21.99	59.28		
StDev	2.32	2.32		
CV	0.11	0.04		
Count	94	94		
ANC-MW5s				
Max	23.20	64.99	1.14	0.06
Min	11.92	53.71	-0.25	-0.01
Rng	11.28	11.28	1.39	0.08
Med	16.92	59.99	0.10	0.01
Mean	17.26	59.65	0.17	0.01
StDev	2.45	2.45	0.23	0.01
CV	0.14	0.04	1.35	1.35
Count	94	94	94	94
ANC-MW5d				
Max	23.71	65.14		
Min	11.68	53.11		
Rng	12.03	12.03		
Med	17.01	59.81		
Mean	17.34	59.48		
StDev	2.51	2.51		
CV	0.14	0.04		
Count	94	94		
ANC-MW6s				
Max	19.65	65.87	0.59	0.03
Min	9.27	55.49	-0.08	-0.00
Rng	10.38	10.38	0.67	0.04
Med	15.10	60.05	0	0
Mean	15.13	60.01	0.02	0.00
StDev	2.20	2.20	0.07	0.00
CV	0.15	0.04	4.48	4.48
Count	94	94	94	94
ANC-MW6d				
Max	19.57	65.85		
Min	9.18	55.46		
Rng	10.39	10.39		
Med	15.02	60.02		
Mean	15.05	59.98		
StDev	2.20	2.20		
CV	0.15	0.04		
Count	94	94		

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Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v	Well ID	DTW	GWE	dh	i_v
ANC-MW7s					BET-MW3s				
Max	19.64	66.37	0.26	0.01	Max	17.69	96.81	0	0
Min	9.35	56.08	0	0	Min	7.73	86.85	-0.15	-0.01
Rng	10.29	10.29	0.26	0.01	Rng	9.96	9.96	0.15	0.01
Med	14.96	60.77	0	0	Med	12.03	92.51	0	0
Mean	15.05	60.67	0.01	0.00	Mean	12.42	92.12	-0.00	-0.00
StDev	2.29	2.29	0.04	0.00	StDev	2.82	2.82	0.02	0.00
CV	0.15	0.04	3.71	3.71	CV	0.23	0.03	-8.54	-8.54
Count	94	94	94	94	Count	73	73	73	73
ANC-MW7d					BET-MW3d				
Max	19.55	66.32			Max	20.18	96.83		
Min	9.30	56.07			Min	7.52	84.17		
Rng	10.25	10.25			Rng	12.66	12.66		
Med	14.87	60.75			Med	13.18	91.18		
Mean	14.96	60.66			Mean	13.63	90.72		
StDev	2.30	2.30			StDev	3.63	3.63		
CV	0.15	0.04			CV	0.27	0.04		
Count	94	94			Count	94	94		
BET-MW1s					BET-MW4s				
Max	21.85	95.65	0	0	Max	22.30	97.40	1.54	0.09
Min	8.50	82.30	-0.27	-0.02	Min	6.18	81.28	-0.60	-0.03
Rng	13.35	13.35	0.27	0.02	Rng	16.12	16.12	2.14	0.12
Med	14.10	90.06	0	0	Med	13.70	89.88	0	0
Mean	14.67	89.48	-0.01	-0.00	Mean	12.97	90.61	0.31	0.02
StDev	3.95	3.95	0.03	0.00	StDev	4.06	4.06	0.55	0.03
CV	0.27	0.04	-5.52	-5.52	CV	0.31	0.04	1.76	1.76
Count	88	88	87	87	Count	93	93	93	93
BET-MW1d					BET-MW4d				
Max	23.93	95.65			Max	23.48	97.65		
Min	8.00	79.72			Min	5.33	79.50		
Rng	15.93	15.93			Rng	18.15	18.15		
Med	14.48	89.17			Med	13.78	89.20		
Mean	14.69	88.96			Mean	12.80	90.18		
StDev	4.40	4.40			StDev	4.40	4.40		
CV	0.30	0.05			CV	0.34	0.05		
Count	93	93			Count	94	94		
BET-MW2s					BET-MW5s				
Max	16.90	96.90	0.98	0.07	Max	20.45	102.03	0.27	0.01
Min	8.85	88.85	-0.15	-0.01	Min	8.06	89.64	-0.08	-0.00
Rng	8.05	8.05	1.13	0.08	Rng	12.39	12.39	0.35	0.02
Med	12.60	93.15	0	0	Med	13.10	97.00	0	0
Mean	12.57	93.18	0.01	0.00	Mean	13.63	96.46	0.00	0.00
StDev	2.06	2.06	0.13	0.01	StDev	3.29	3.29	0.03	0.00
CV	0.16	0.02	10.10	10.10	CV	0.24	0.03	9.18	9.18
Count	57	57	57	57	Count	94	94	94	94
BET-MW2d					BET-MW5d				
Max	21.93	96.95			Max	20.28	102.03		
Min	8.50	83.52			Min	7.86	89.61		
Rng	13.43	13.43			Rng	12.42	12.42		
Med	14.52	90.94			Med	12.94	96.95		
Mean	14.92	90.53			Mean	13.44	96.45		
StDev	3.74	3.74			StDev	3.29	3.29		
CV	0.25	0.04			CV	0.25	0.03		
Count	94	94			Count	94	94		

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Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v
BET-MW6s				
Max	20.70	102.25	0.89	0.04
Min	7.45	89.00	-2.00	-0.10
Rng	13.25	13.25	2.89	0.14
Med	13.38	96.33	0	0
Mean	13.88	95.82	-0.01	-0.00
StDev	3.46	3.46	0.23	0.01
CV	0.25	0.04	-38.28	-38.28
Count	94	94	94	94
BET-MW6d				
Max	20.49	102.24		
Min	7.23	88.98		
Rng	13.26	13.26		
Med	13.15	96.32		
Mean	13.65	95.82		
StDev	3.44	3.44		
CV	0.25	0.04		
Count	94	94		
BET-MW7s				
Max	21.94	103.42	0.21	0.01
Min	8.29	89.77	-0.57	-0.03
Rng	13.65	13.65	0.78	0.04
Med	15.14	96.57	0	0
Mean	15.35	96.36	-0.01	-0.00
StDev	3.33	3.33	0.07	0.00
CV	0.22	0.03	-9.59	-9.59
Count	94	94	94	94
BET-MW7d				
Max	21.70	103.43		
Min	8.07	89.80		
Rng	13.63	13.63		
Med	14.93	96.58		
Mean	15.14	96.36		
StDev	3.33	3.33		
CV	0.22	0.03		
Count	94	94		
BET-MW8s				
Max	27.79	103.28	0.23	0.01
Min	7.94	83.43	0	0
Rng	19.85	19.85	0.23	0.01
Med	15.57	95.66	0.08	0.00
Mean	15.83	95.39	0.08	0.00
StDev	3.70	3.70	0.04	0.00
CV	0.23	0.04	0.54	0.54
Count	94	94	94	94
BET-MW8d				
Max	27.69	103.17		
Min	7.80	83.28		
Rng	19.89	19.89		
Med	15.40	95.57		
Mean	15.66	95.31		
StDev	3.71	3.71		
CV	0.24	0.04		
Count	94	94		

Well ID	DTW	GWE	dh	i_v
DIE-MW1				
Max	109.38	90.94		
Min	85.84	67.40		
Rng	23.54	23.54		
Med	87.75	89.03		
Mean	93.48	83.30		
StDev	8.68	8.68		
CV	0.09	0.10		
Count	82	82		
DIE-MW2				
Max	126.63	72.59		
Min	100.92	46.88		
Rng	25.71	25.71		
Med	116.98	56.53		
Mean	116.44	57.07		
StDev	6.74	6.74		
CV	0.06	0.12		
Count	62	62		
DIE-MW3				
Max	120.45	76.56		
Min	97.38	53.49		
Rng	23.07	23.07		
Med	109.93	64.01		
Mean	110.57	63.37		
StDev	5.67	5.67		
CV	0.05	0.09		
Count	67	67		
DIE-MW4				
Max	102.70	90.60		
Min	87.73	75.63		
Rng	14.97	14.97		
Med	99.35	78.98		
Mean	98.58	79.75		
StDev	2.91	2.91		
CV	0.03	0.04		
Count	76	76		
DUR-MW1				
Max	17.34	36.10		
Min	11.50	30.26		
Rng	5.84	5.84		
Med	14.16	33.45		
Mean	14.31	33.29		
StDev	1.43	1.43		
CV	0.10	0.04		
Count	82	82		
DUR-MW2				
Max	21.30	36.27		
Min	12.70	27.67		
Rng	8.60	8.60		
Med	16.43	32.54		
Mean	16.34	32.63		
StDev	1.91	1.91		
CV	0.12	0.06		
Count	80	80		

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Well ID	DTW	GWE	dh	i_v
DUR-MW3				
Max	17.54	36.26		
Min	10.76	29.48		
Rng	6.78	6.78		
Med	13.43	33.59		
Mean	13.82	33.20		
StDev	1.58	1.58		
CV	0.11	0.05		
Count	82	82		
DUR-MW4				
Max	15.82	35.94		
Min	10.35	30.47		
Rng	5.47	5.47		
Med	12.99	33.30		
Mean	13.15	33.14		
StDev	1.40	1.40		
CV	0.11	0.04		
Count	82	82		
DUR-MW6				
Max	18.12	36.72		
Min	8.20	26.80		
Rng	9.92	9.92		
Med	9.95	34.98		
Mean	10.48	34.44		
StDev	1.54	1.54		
CV	0.15	0.04		
Count	82	82		
DUR-MW7				
Max	18.12	38.43		
Min	10.59	30.90		
Rng	7.53	7.53		
Med	14.45	34.57		
Mean	14.78	34.24		
StDev	1.64	1.64		
CV	0.11	0.05		
Count	82	82		
DUR-MW8				
Max	16.77	38.00		
Min	8.98	30.21		
Rng	7.79	7.79		
Med	13.16	33.83		
Mean	13.39	33.59		
StDev	1.62	1.62		
CV	0.12	0.05		
Count	82	82		
DUR-MW9				
Max	14.64	41.46		
Min	7.01	33.83		
Rng	7.63	7.63		
Med	11.36	37.11		
Mean	11.30	37.17		
StDev	1.73	1.73		
CV	0.15	0.05		
Count	82	82		
DUR-MW10s				
Max	17.70	36.42	1.28	0.06
Min	11.40	30.12	-1.25	-0.06
Rng	6.30	6.30	2.53	0.11
Med	14.09	33.73	0	0
Mean	14.30	33.52	0.05	0.00
StDev	1.53	1.53	0.28	0.01
CV	0.11	0.05	5.56	5.56
Count	82	82	82	82
DUR-MW10d				
Max	18.00	37.08		
Min	10.80	29.88		
Rng	7.20	7.20		
Med	14.25	33.63		
Mean	14.41	33.47		
StDev	1.50	1.50		
CV	0.10	0.04		
Count	82	82		
FG1-MW1s				
Max	18.04	68.55	2.00	0.15
Min	8.50	59.01	-0.14	-0.01
Rng	9.54	9.54	2.14	0.16
Med	16.44	60.61	0	0
Mean	15.74	61.31	0.03	0.00
StDev	2.21	2.21	0.25	0.02
CV	0.14	0.04	9.41	9.41
Count	63	63	63	63
FG1-MW1d				
Max	20.20	68.53		
Min	8.22	56.55		
Rng	11.98	11.98		
Med	16.86	59.89		
Mean	16.43	60.32		
StDev	2.33	2.33		
CV	0.14	0.04		
Count	94	94		
FG1-MW2s				
Max	16.78	70.74	0	0
Min	9.53	63.49	0	0
Rng	7.25	7.25	0	0
Med	14.60	65.67	0	0
Mean	14.04	66.23	0	0
StDev	2.32	2.32	0	0
CV	0.17	0.04	N/A	N/A
Count	13	13	13	13
FG1-MW2d				
Max	23.00	70.74		
Min	9.25	56.99		
Rng	13.75	13.75		
Med	20.05	59.94		
Mean	19.38	60.61		
StDev	2.64	2.64		
CV	0.14	0.04		
Count	94	94		

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Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v	Well ID	DTW	GWE	dh	i_v
FG1-MW3s					FG1-MW6s				
Max	17.14	69.35	0	0	Max	22.39	72.74	0.13	0.01
Min	8.98	61.19	0	0	Min	7.33	57.68	-0.25	-0.01
Rng	8.16	8.16	0	0	Rng	15.06	15.06	0.38	0.02
Med	15.49	62.85	0	0	Med	19.30	60.77	0	0
Mean	14.41	63.92	0	0	Mean	18.41	61.66	0.01	0.00
StDev	2.56	2.56	0	0	StDev	2.77	2.77	0.04	0.00
CV	0.18	0.04	N/A	N/A	CV	0.15	0.04	6.30	6.30
Count	22	22	22	22	Count	93	93	93	93
FG1-MW3d					FG1-MW6d				
Max	21.21	69.39			Max	22.18	72.72		
Min	8.68	56.86			Min	7.14	57.68		
Rng	12.53	12.53			Rng	15.04	15.04		
Med	18.30	59.77			Med	19.10	60.76		
Mean	17.66	60.41			Mean	18.21	61.65		
StDev	2.45	2.45			StDev	2.76	2.76		
CV	0.14	0.04			CV	0.15	0.04		
Count	94	94			Count	93	93		
FG1-MW4s					FG1-MW7s				
Max	19.49	71.51	1.99	0.11	Max	22.00	72.04	0.28	0.01
Min	5.21	57.23	-0.48	-0.03	Min	7.60	57.64	-0.14	-0.01
Rng	14.28	14.28	2.47	0.14	Rng	14.40	14.40	0.42	0.02
Med	16.30	60.42	0	0	Med	18.61	61.03	0	0
Mean	15.45	61.27	0.04	0.00	Mean	17.86	61.78	0.01	0.00
StDev	2.66	2.66	0.26	0.01	StDev	2.59	2.59	0.05	0.00
CV	0.17	0.04	6.14	6.14	CV	0.15	0.04	4.85	4.85
Count	94	94	94	94	Count	94	94	94	94
FG1-MW4d					FG1-MW7d				
Max	19.12	71.55			Max	21.70	72.04		
Min	4.83	57.26			Min	7.32	57.66		
Rng	14.29	14.29			Rng	14.38	14.38		
Med	15.94	60.44			Med	18.35	61.02		
Mean	15.15	61.23			Mean	17.59	61.77		
StDev	2.68	2.68			StDev	2.59	2.59		
CV	0.18	0.04			CV	0.15	0.04		
Count	94	94			Count	94	94		
FG1-MW5s					FG1-MW8s				
Max	18.49	71.66	0.18	0.01	Max	20.86	74.71	0.43	0.02
Min	4.16	57.33	-0.05	-0.00	Min	4.11	57.96	0	0
Rng	14.33	14.33	0.23	0.01	Rng	16.75	16.75	0.43	0.02
Med	16.14	59.68	0	0	Med	18.27	60.56	0	0
Mean	15.21	60.61	0.01	0.00	Mean	17.24	61.58	0.01	0.00
StDev	3.15	3.15	0.03	0.00	StDev	3.23	3.23	0.06	0.00
CV	0.21	0.05	3.76	3.76	CV	0.19	0.05	5.46	5.46
Count	92	92	92	92	Count	94	94	94	94
FG1-MW5d					FG1-MW8d				
Max	18.28	71.63			Max	20.60	74.72		
Min	4.00	57.35			Min	3.83	57.95		
Rng	14.28	14.28			Rng	16.77	16.77		
Med	15.98	59.66			Med	18.02	60.54		
Mean	15.04	60.59			Mean	16.99	61.56		
StDev	3.14	3.14			StDev	3.23	3.23		
CV	0.21	0.05			CV	0.19	0.05		
Count	92	92			Count	94	94		

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Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v	Well ID	DTW	GWE	dh	i_v
FG1-MW9s					BEA-MW2d				
Max	19.12	74.81	1.69	0.09	Max	38.74	79.26		
Min	3.72	59.41	-1.65	-0.09	Min	19.64	60.16		
Rng	15.40	15.40	3.34	0.19	Rng	19.10	19.10		
Med	16.95	61.58	0.22	0.01	Med	34.39	64.52		
Mean	15.64	62.89	0.28	0.02	Mean	32.26	66.64		
StDev	3.20	3.20	0.55	0.03	StDev	5.93	5.93		
CV	0.20	0.05	1.94	1.94	CV	0.18	0.09		
Count	63	63	62	62	Count	36	36		
FG1-MW9d					BEA-MW2dd				
Max	20.40	73.88			Max	48.88	63.33		
Min	4.51	57.99			Min	35.63	50.08		
Rng	15.89	15.89			Rng	13.25	13.25		
Med	17.36	61.03			Med	40.67	58.30		
Mean	16.66	61.73			Mean	41.63	57.33		
StDev	2.95	2.95			StDev	3.60	3.60		
CV	0.18	0.05			CV	0.09	0.06		
Count	93	93			Count	60	60		
BEA-MW1s					BEA-MW3s				
Max	24.03	77.85	0.30	0.02	Max	25.90	77.93	0.22	0.01
Min	21.85	75.67	-0.08	-0.01	Min	17.30	69.33	-0.18	-0.01
Rng	2.18	2.18	0.38	0.02	Rng	8.60	8.60	0.40	0.03
Med	21.91	77.79	0.15	0.01	Med	19.02	76.21	0.08	0.01
Mean	22.37	77.33	0.14	0.01	Mean	20.54	74.69	0.04	0.00
StDev	0.94	0.94	0.14	0.01	StDev	3.23	3.23	0.13	0.01
CV	0.04	0.01	1.01	1.01	CV	0.16	0.04	3.12	3.12
Count	5	5	5	5	Count	7	7	7	7
BEA-MW1d					BEA-MW3d				
Max	40.00	77.93			Max	40.24	77.71		
Min	21.53	59.46			Min	17.43	54.90		
Rng	18.47	18.47			Rng	22.81	22.81		
Med	36.42	63.04			Med	35.33	59.82		
Mean	34.67	64.79			Mean	33.64	61.50		
StDev	5.23	5.23			StDev	5.79	5.79		
CV	0.15	0.08			CV	0.17	0.09		
Count	47	47			Count	60	60		
BEA-MW1dd					BEA-MW4s				
Max	49.64	64.42			Max	37.65	78.74	0.17	0.01
Min	35.01	49.79			Min	20.73	61.82	-0.12	-0.01
Rng	14.63	14.63			Rng	16.92	16.92	0.29	0.02
Med	41.20	58.23			Med	30.69	68.79	0	0
Mean	41.72	57.71			Mean	30.49	68.98	0.02	0.00
StDev	4.30	4.30			StDev	4.88	4.88	0.08	0.00
CV	0.10	0.07			CV	0.16	0.07	4.21	4.21
Count	60	60			Count	18	18	18	18
BEA-MW2s					BEA-MW4d				
Max	27.71	79.53	1.61	0.10	Max	51.57	78.75		
Min	19.59	71.41	0	0	Min	20.55	47.73		
Rng	8.12	8.12	1.61	0.10	Rng	31.02	31.02		
Med	21.79	77.33	0.30	0.02	Med	42.64	56.67		
Mean	23.02	76.10	0.47	0.03	Mean	41.70	57.60		
StDev	3.44	3.44	0.54	0.03	StDev	6.70	6.70		
CV	0.15	0.05	1.16	1.16	CV	0.16	0.12		
Count	8	8	8	8	Count	94	94		

Table 4-4
Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v
COT-MW1				
Max	33.16	84.72		
Min	29.75	82.45		
Rng	3.41	2.27		
Med	31.70	83.49		
Mean	31.74	83.42		
StDev	1.24	0.80		
CV	0.04	0.01		
Count	18	18		
COT-MW1d				
Max	51.78	76.38		
Min	37.57	62.17		
Rng	14.21	14.21		
Med	47.57	66.38		
Mean	46.74	67.21		
StDev	3.52	3.52		
CV	0.08	0.05		
Count	53	53		
COT-MW2				
Max	35.31	91.06		
Min	24.31	81.79		
Rng	11.00	9.27		
Med	31.18	85.92		
Mean	30.70	85.83		
StDev	3.89	3.18		
CV	0.13	0.04		
Count	27	27		
COT-MW3				
Max	27.93	95.42		
Min	17.36	86.94		
Rng	10.57	8.48		
Med	21.81	92.72		
Mean	21.94	92.06		
StDev	3.55	2.73		
CV	0.16	0.03		
Count	24	24		
COT-MW4				
Max	28.93	91.77		
Min	20.71	85.56		
Rng	8.22	6.21		
Med	26.48	88.01		
Mean	25.65	88.19		
StDev	3.03	2.22		
CV	0.12	0.03		
Count	31	31		
COT-MW5				
Max	26.44	94.47		
Min	15.20	85.83		
Rng	11.24	8.64		
Med	19.57	92.26		
Mean	20.33	90.98		
StDev	3.81	2.85		
CV	0.19	0.03		
Count	27	27		

Well ID	DTW	GWE	dh	i_v
COT-MW6				
Max	25.29	94.69		
Min	15.18	86.04		
Rng	10.11	8.65		
Med	18.19	92.02		
Mean	19.55	91.00		
StDev	3.32	2.65		
CV	0.17	0.03		
Count	27	27		
COT-MW7				
Max	24.97	99.10		
Min	9.75	85.32		
Rng	15.22	13.78		
Med	19.58	90.66		
Mean	19.05	90.98		
StDev	3.92	3.73		
CV	0.21	0.04		
Count	74	74		
COT-MW8				
Max	23.11	99.15		
Min	9.00	85.66		
Rng	14.11	13.49		
Med	15.38	92.13		
Mean	15.93	92.53		
StDev	3.59	3.31		
CV	0.23	0.04		
Count	43	43		
COT-MW9				
Max	26.17	100.08		
Min	8.56	83.40		
Rng	17.61	16.68		
Med	17.74	91.83		
Mean	17.49	91.90		
StDev	4.01	3.79		
CV	0.23	0.04		
Count	94	94		
COT-MW10				
Max	22.18	98.03		
Min	5.14	82.62		
Rng	17.04	15.41		
Med	13.06	91.74		
Mean	13.03	91.59		
StDev	3.52	3.29		
CV	0.27	0.04		
Count	92	92		
COT-MW11s				
Max	27.95	93.65	1.65	0.13
Min	18.64	84.34	0	0
Rng	9.31	9.31	1.65	0.13
Med	24.18	88.11	0.12	0.01
Mean	23.53	88.76	0.25	0.02
StDev	2.89	2.89	0.37	0.03
CV	0.12	0.03	1.51	1.51
Count	20	20	20	20

Table 4-4
Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v
COT-MW11d				
Max	37.50	93.49		
Min	18.59	74.58		
Rng	18.91	18.91		
Med	33.12	78.96		
Mean	31.13	80.95		
StDev	5.01	5.01		
CV	0.16	0.06		
Count	94	94		
COT-MW12s				
Max	32.25	94.41	0.41	0.02
Min	18.24	80.40	-0.14	-0.01
Rng	14.01	14.01	0.55	0.03
Med	27.57	85.08	0.08	0.00
Mean	26.57	86.08	0.10	0.00
StDev	3.78	3.78	0.14	0.01
CV	0.14	0.04	1.41	1.41
Count	36	36	36	36
COT-MW12d				
Max	37.90	94.31		
Min	18.16	74.57		
Rng	19.74	19.74		
Med	32.97	79.50		
Mean	31.56	80.91		
StDev	4.82	4.82		
CV	0.15	0.06		
Count	94	94		
COT-MW13s				
Max	32.96	94.35	1.34	0.07
Min	20.68	82.07	0.38	0.02
Rng	12.28	12.28	0.96	0.05
Med	27.49	87.54	0.47	0.02
Mean	27.33	87.70	0.52	0.03
StDev	3.40	3.40	0.17	0.01
CV	0.12	0.04	0.33	0.33
Count	31	31	31	31
COT-MW13d				
Max	38.66	93.92		
Min	20.52	75.78		
Rng	18.14	18.14		
Med	34.27	80.18		
Mean	32.87	81.57		
StDev	4.65	4.65		
CV	0.14	0.06		
Count	94	94		
COT-MW14s				
Max	32.00	93.29	0.12	0.01
Min	22.26	83.55	-1.02	-0.05
Rng	9.74	9.74	1.14	0.06
Med	27.60	87.95	0	0
Mean	27.81	87.74	-0.02	-0.00
StDev	3.12	3.12	0.19	0.01
CV	0.11	0.04	-9.11	-9.11
Count	29	29	29	29

Well ID	DTW	GWE	dh	i_v
COT-MW14d				
Max	39.42	93.31		
Min	21.95	75.84		
Rng	17.47	17.47		
Med	35.15	80.12		
Mean	33.53	81.73		
StDev	4.68	4.68		
CV	0.14	0.06		
Count	94	94		
SAN-MW1s				
Max	25.00	93.87	0.85	0.04
Min	22.36	91.23	-0.06	-0.00
Rng	2.64	2.64	0.91	0.05
Med	23.70	92.53	0.21	0.01
Mean	23.98	92.25	0.39	0.02
StDev	1.00	1.00	0.41	0.02
CV	0.04	0.01	1.04	1.04
Count	7	7	7	7
SAN-MW1d				
Max	44.37	93.93		
Min	22.10	71.66		
Rng	22.27	22.27		
Med	37.53	78.51		
Mean	35.65	80.38		
StDev	5.52	5.52		
CV	0.15	0.07		
Count	90	90		
SAN-MW2d				
Max	44.08	89.65		
Min	29.26	74.83		
Rng	14.82	14.82		
Med	39.36	79.55		
Mean	38.16	80.75		
StDev	4.78	4.78		
CV	0.13	0.06		
Count	37	37		
SAN-MW3d				
Max	45.62	88.63		
Min	29.87	72.88		
Rng	15.75	15.75		
Med	41.13	77.38		
Mean	39.29	79.21		
StDev	4.72	4.72		
CV	0.12	0.06		
Count	40	40		
SAN-MW4s				
Max	31.56	88.72	0.06	0.00
Min	30.11	87.27	0	0
Rng	1.45	1.45	0.06	0.00
Med	30.48	88.35	0	0
Mean	30.63	88.20	0.01	0.00
StDev	0.60	0.60	0.03	0.00
CV	0.02	0.01	2.24	2.24
Count	5	5	5	5

Table 4-4
Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v	Well ID	DTW	GWE	dh	i_v
SAN-MW4d					SAN-MW7d				
Max	51.76	88.72			Max	38.36	96.34		
Min	29.72	66.68			Min	14.26	72.24		
Rng	22.04	22.04			Rng	24.10	24.10		
Med	43.23	75.21			Med	27.20	83.41		
Mean	42.23	76.21			Mean	26.55	84.05		
StDev	4.90	4.90			StDev	4.98	4.98		
CV	0.12	0.06			CV	0.19	0.06		
Count	90	90			Count	94	94		
SAN-MW5s					SAN-MW8s				
Max	28.62	89.53	0.11	0.00	Max	25.29	96.34	1.15	0.06
Min	25.53	86.44	0	0	Min	16.12	87.17	-0.10	-0.01
Rng	3.09	3.09	0.11	0.00	Rng	9.17	9.17	1.25	0.07
Med	27.00	88.06	0	0	Med	22.12	90.34	0	0
Mean	27.16	87.90	0.02	0.00	Mean	21.57	90.89	0.07	0.00
StDev	0.95	0.95	0.04	0.00	StDev	2.57	2.57	0.23	0.01
CV	0.03	0.01	1.74	1.74	CV	0.12	0.03	3.28	3.28
Count	11	11	11	11	Count	28	28	28	28
SAN-MW5d					SAN-MW8d				
Max	53.70	89.51			Max	38.13	96.44		
Min	25.40	61.21			Min	15.83	74.14		
Rng	28.30	28.30			Rng	22.30	22.30		
Med	45.69	69.22			Med	29.07	83.20		
Mean	42.26	72.65			Mean	27.62	84.65		
StDev	8.27	8.27			StDev	4.91	4.91		
CV	0.20	0.11			CV	0.18	0.06		
Count	85	85			Count	94	94		
SAN-MW6s					GEN-MW1				
Max	26.29	97.11	0.21	0.01	Max	22.00	46.60		
Min	13.20	84.02	-1.69	-0.09	Min	9.62	34.22		
Rng	13.09	13.09	1.90	0.11	Rng	12.38	12.38		
Med	20.08	90.23	0	0	Med	14.97	41.25		
Mean	19.86	90.45	-0.00	-0.00	Mean	15.23	40.99		
StDev	3.66	3.66	0.20	0.01	StDev	2.72	2.72		
CV	0.18	0.04	-75.62	-75.62	CV	0.18	0.07		
Count	74	74	74	74	Count	81	81		
SAN-MW6d					GEN-MW2				
Max	29.96	97.09			Max	18.50	47.02		
Min	13.04	80.17			Min	7.20	35.72		
Rng	16.92	16.92			Rng	11.30	11.30		
Med	21.37	88.76			Med	13.02	41.21		
Mean	21.34	88.79			Mean	13.10	41.12		
StDev	4.57	4.57			StDev	2.96	2.96		
CV	0.21	0.05			CV	0.23	0.07		
Count	94	94			Count	82	82		
SAN-MW7s					GEN-MW3				
Max	29.87	96.77	0.45	0.02	Max	22.77	46.78		
Min	13.90	80.80	-0.09	-0.00	Min	8.78	35.93		
Rng	15.97	15.97	0.54	0.02	Rng	13.99	10.85		
Med	25.74	84.93	0	0	Med	17.39	41.32		
Mean	24.80	85.87	0.02	0.00	Mean	17.23	41.21		
StDev	4.05	4.05	0.07	0.00	StDev	3.25	2.77		
CV	0.16	0.05	4.01	4.01	CV	0.19	0.07		
Count	73	73	73	73	Count	82	82		

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Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v
GEN-MW5				
Max	22.33	48.17		
Min	10.20	36.04		
Rng	12.13	12.13		
Med	17.10	41.27		
Mean	17.11	41.26		
StDev	3.09	3.09		
CV	0.18	0.07		
Count	81	81		
GEN-MW6				
Max	23.24	49.07		
Min	10.57	36.40		
Rng	12.67	12.67		
Med	18.20	41.45		
Mean	17.93	41.71		
StDev	3.26	3.26		
CV	0.18	0.08		
Count	82	82		
GEN-MW7				
Max	23.36	49.48		
Min	10.02	36.14		
Rng	13.34	13.34		
Med	18.25	41.25		
Mean	18.20	41.30		
StDev	3.16	3.16		
CV	0.17	0.08		
Count	81	81		
GEN-MW8				
Max	20.96	46.88		
Min	10.03	35.95		
Rng	10.93	10.93		
Med	15.77	41.14		
Mean	15.88	41.03		
StDev	2.84	2.84		
CV	0.18	0.07		
Count	81	81		
GEN-MW9				
Max	21.26	46.26		
Min	10.62	35.62		
Rng	10.64	10.64		
Med	15.83	41.05		
Mean	15.84	41.04		
StDev	2.68	2.68		
CV	0.17	0.07		
Count	81	81		
GEN-MW10				
Max	22.70	46.70		
Min	11.81	35.81		
Rng	10.89	10.89		
Med	17.46	41.06		
Mean	17.52	40.99		
StDev	2.85	2.85		
CV	0.16	0.07		
Count	82	82		

Well ID	DTW	GWE	dh	i_v
GEN-MW11s				
Max	25.85	45.71	0.19	0.01
Min	11.90	31.76	-0.13	-0.01
Rng	13.95	13.95	0.32	0.02
Med	16.74	40.87	0	0
Mean	17.08	40.53	0.03	0.00
StDev	2.98	2.98	0.05	0.00
CV	0.17	0.07	1.69	1.69
Count	82	82	82	82
GEN-MW11d				
Max	25.89	45.64		
Min	11.99	31.74		
Rng	13.90	13.90		
Med	16.79	40.84		
Mean	17.14	40.49		
StDev	2.99	2.99		
CV	0.17	0.07		
Count	82	82		
GEN-MW12s				
Max	23.56	47.68	0.07	0.00
Min	12.69	36.81	0	0
Rng	10.87	10.87	0.07	0.00
Med	19.08	41.29	0	0
Mean	18.56	41.81	0.00	0.00
StDev	2.70	2.70	0.01	0.00
CV	0.15	0.06	6.00	6.00
Count	71	71	71	71
GEN-MW12d				
Max	24.82	47.65		
Min	12.70	35.53		
Rng	12.12	12.12		
Med	19.46	40.89		
Mean	19.28	41.07		
StDev	3.12	3.12		
CV	0.16	0.08		
Count	82	82		
TRO-MW1				
Max	90.77	108.03		
Min	73.25	90.51		
Rng	17.52	17.52		
Med	81.74	99.54		
Mean	82.95	98.33		
StDev	4.32	4.32		
CV	0.05	0.04		
Count	55	55		
TRO-MW2				
Max	108.29	93.21		
Min	85.83	70.75		
Rng	22.46	22.46		
Med	99.23	79.82		
Mean	99.14	79.90		
StDev	5.50	5.50		
CV	0.06	0.07		
Count	82	82		

Table 4-4
Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v
TRO-MW3				
Max	97.93	100.49		
Min	75.65	78.21		
Rng	22.28	22.28		
Med	90.03	86.12		
Mean	89.75	86.39		
StDev	5.20	5.20		
CV	0.06	0.06		
Count	82	82		
PLS-MW1s				
Max	17.06	84.57	0.50	0.04
Min	7.75	75.26	0	0
Rng	9.31	9.31	0.50	0.04
Med	12.24	80.08	0	0
Mean	12.59	79.73	0.01	0.00
StDev	2.63	2.63	0.08	0.01
CV	0.21	0.03	5.15	5.15
Count	85	85	85	85
PLS-MW1d				
Max	17.50	84.48		
Min	7.60	74.58		
Rng	9.90	9.90		
Med	12.51	79.57		
Mean	12.81	79.27		
StDev	2.87	2.87		
CV	0.22	0.04		
Count	94	94		
PLS-MW2s				
Max	16.42	84.08	0.11	0.01
Min	6.74	74.40	-0.47	-0.04
Rng	9.68	9.68	0.58	0.04
Med	11.22	79.61	0	0
Mean	11.52	79.30	-0.00	-0.00
StDev	2.74	2.74	0.06	0.00
CV	0.24	0.03	-32.45	-32.45
Count	88	88	88	88
PLS-MW2d				
Max	16.34	84.11		
Min	6.52	74.29		
Rng	9.82	9.82		
Med	11.31	79.32		
Mean	11.62	79.01		
StDev	2.87	2.87		
CV	0.25	0.04		
Count	94	94		
PLS-MW3s				
Max	15.49	85.80	0.45	0.03
Min	5.43	75.74	-0.29	-0.02
Rng	10.06	10.06	0.74	0.06
Med	10.36	80.87	0	0
Mean	10.59	80.64	0.01	0.00
StDev	2.71	2.71	0.08	0.01
CV	0.26	0.03	6.72	6.72
Count	86	86	86	86

Well ID	DTW	GWE	dh	i_v
PLS-MW3d				
Max	15.63	85.76		
Min	5.32	75.45		
Rng	10.31	10.31		
Med	10.70	80.38		
Mean	10.82	80.26		
StDev	2.90	2.90		
CV	0.27	0.04		
Count	93	93		
PLS-MW4s				
Max	17.01	85.19	0.90	0.06
Min	7.07	75.25	-0.19	-0.01
Rng	9.94	9.94	1.09	0.07
Med	12.23	80.03	0	0
Mean	12.48	79.78	0.02	0.00
StDev	2.85	2.85	0.11	0.01
CV	0.23	0.04	5.79	5.79
Count	94	94	94	94
PLS-MW4d				
Max	16.60	85.19		
Min	6.66	75.25		
Rng	9.94	9.94		
Med	11.82	80.03		
Mean	12.09	79.76		
StDev	2.86	2.86		
CV	0.24	0.04		
Count	94	94		
PLS-MW5s				
Max	15.32	85.23	0.08	0.01
Min	5.50	75.41	-1.02	-0.08
Rng	9.82	9.82	1.10	0.08
Med	10.19	80.54	0	0
Mean	10.72	80.01	-0.02	-0.00
StDev	2.68	2.68	0.12	0.01
CV	0.25	0.03	-6.58	-6.58
Count	82	82	82	82
PLS-MW5d				
Max	16.03	85.25		
Min	5.37	74.59		
Rng	10.66	10.66		
Med	10.93	79.69		
Mean	11.16	79.46		
StDev	2.98	2.98		
CV	0.27	0.04		
Count	93	93		
PLS-MW6s				
Max	13.94	86.06	2.30	0.11
Min	4.03	76.15	0	0
Rng	9.91	9.91	2.30	0.11
Med	9.12	80.98	1.18	0.06
Mean	9.36	80.73	1.16	0.06
StDev	2.66	2.66	0.53	0.03
CV	0.28	0.03	0.46	0.46
Count	94	94	94	94

Table 4-4
Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v
PLS-MW6d				
Max	14.69	84.56		
Min	5.23	75.10		
Rng	9.46	9.46		
Med	9.91	79.89		
Mean	10.22	79.57		
StDev	2.80	2.80		
CV	0.27	0.04		
Count	94	94		
PLS-MW7s				
Max	15.56	85.02	1.45	0.08
Min	6.16	75.62	-0.34	-0.02
Rng	9.40	9.40	1.79	0.10
Med	11.08	80.10	0.28	0.02
Mean	11.29	79.89	0.38	0.02
StDev	2.73	2.73	0.36	0.02
CV	0.24	0.03	0.94	0.94
Count	94	94	94	94
PLS-MW7d				
Max	16.10	84.83		
Min	6.04	74.77		
Rng	10.06	10.06		
Med	11.24	79.63		
Mean	11.36	79.51		
StDev	2.82	2.82		
CV	0.25	0.04		
Count	94	94		
CAE-MW1s				
Max	16.89	97.37	0	0
Min	11.40	91.88	-0.06	-0.00
Rng	5.49	5.49	0.06	0.00
Med	14.55	94.22	0	0
Mean	14.27	94.50	-0.00	-0.00
StDev	1.49	1.49	0.01	0.00
CV	0.10	0.02	-7.14	-7.14
Count	51	51	51	51
CAE-MW1d				
Max	25.05	97.38		
Min	10.96	83.29		
Rng	14.09	14.09		
Med	15.86	92.49		
Mean	16.92	91.42		
StDev	3.91	3.91		
CV	0.23	0.04		
Count	94	94		
CAE-MW2s				
Max	17.17	96.58	0	0
Min	11.52	90.93	0	0
Rng	5.65	5.65	0	0
Med	14.13	93.97	0	0
Mean	13.99	94.11	0	0
StDev	1.39	1.39	0	0
CV	0.10	0.01	N/A	N/A
Count	53	53	53	53

Well ID	DTW	GWE	dh	i_v
CAE-MW2d				
Max	24.01	96.60		
Min	11.30	83.89		
Rng	12.71	12.71		
Med	15.44	92.46		
Mean	16.72	91.18		
StDev	3.74	3.74		
CV	0.22	0.04		
Count	94	94		
CAE-MW3s				
Max	16.05	96.68	0.98	0.08
Min	10.68	91.31	0	0
Rng	5.37	5.37	0.98	0.08
Med	13.61	93.75	0	0
Mean	13.56	93.80	0.02	0.00
StDev	1.48	1.48	0.14	0.01
CV	0.11	0.02	6.73	6.73
Count	51	51	51	51
CAE-MW3d				
Max	25.03	96.71		
Min	10.55	82.23		
Rng	14.48	14.48		
Med	15.64	91.62		
Mean	16.80	90.46		
StDev	4.11	4.11		
CV	0.24	0.05		
Count	94	94		
CAE-MW4s				
Max	22.79	97.29	0.23	0.01
Min	12.12	86.62	-0.08	-0.00
Rng	10.67	10.67	0.31	0.02
Med	15.88	93.54	0	0
Mean	16.70	92.71	0.00	0.00
StDev	3.00	3.00	0.03	0.00
CV	0.18	0.03	11.94	11.94
Count	82	82	82	82
CAE-MW4d				
Max	24.66	97.29		
Min	11.90	84.53		
Rng	12.76	12.76		
Med	16.35	92.85		
Mean	17.35	91.84		
StDev	3.62	3.62		
CV	0.21	0.04		
Count	94	94		
CAE-MW5s				
Max	19.78	100.30	0.82	0.05
Min	8.20	88.72	-0.58	-0.03
Rng	11.58	11.58	1.40	0.08
Med	13.70	94.81	0	0
Mean	13.86	94.64	0.01	0.00
StDev	3.35	3.35	0.11	0.01
CV	0.24	0.04	8.62	8.62
Count	94	94	94	94

Table 4-4
Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v	Well ID	DTW	GWE	dh	i_v
CAE-MW5d					ROB-MW2d				
Max	19.40	100.82			Max	29.45	64.45		
Min	7.27	88.69			Min	9.55	44.55		
Rng	12.13	12.13			Rng	19.90	19.90		
Med	13.35	94.74			Med	18.28	55.72		
Mean	13.48	94.61			Mean	18.33	55.67		
StDev	3.36	3.36			StDev	5.54	5.54		
CV	0.25	0.04			CV	0.30	0.10		
Count	94	94			Count	86	86		
CAE-MW6s					ROB-MW3s				
Max	22.36	101.72	0.23	0.01	Max	18.64	63.91	1.62	0.12
Min	9.83	89.19	0	0	Min	9.51	54.78	-0.29	-0.02
Rng	12.53	12.53	0.23	0.01	Rng	9.13	9.13	1.91	0.15
Med	16.40	95.15	0	0	Med	13.00	60.43	0	0
Mean	16.06	95.49	0.01	0.00	Mean	13.33	60.09	0.03	0.00
StDev	3.24	3.24	0.03	0.00	StDev	2.57	2.57	0.23	0.02
CV	0.20	0.03	4.84	4.84	CV	0.19	0.04	8.78	8.78
Count	89	89	89	89	Count	50	50	50	50
CAE-MW6d					ROB-MW3d				
Max	22.30	101.69			Max	29.06	63.92		
Min	9.73	89.12			Min	9.38	44.24		
Rng	12.57	12.57			Rng	19.68	19.68		
Med	16.46	94.97			Med	17.42	55.88		
Mean	16.27	95.15			Mean	17.75	55.55		
StDev	3.45	3.45			StDev	5.67	5.67		
CV	0.21	0.04			CV	0.32	0.10		
Count	94	94			Count	94	94		
ROB-MW1s					ROB-MW4s				
Max	18.20	64.77	0.71	0.05	Max	17.59	65.25	0.74	0.06
Min	9.12	55.69	-0.20	-0.02	Min	7.58	55.24	-0.70	-0.05
Rng	9.08	9.08	0.91	0.07	Rng	10.01	10.01	1.44	0.11
Med	13.17	60.73	0	0	Med	12.24	60.59	0	0
Mean	13.32	60.57	0.02	0.00	Mean	12.48	60.35	0.01	0.00
StDev	2.17	2.17	0.12	0.01	StDev	2.62	2.62	0.17	0.01
CV	0.16	0.04	7.23	7.23	CV	0.21	0.04	23.42	23.42
Count	42	42	42	42	Count	50	50	50	50
ROB-MW1d					ROB-MW4d				
Max	28.13	64.75			Max	27.33	65.27		
Min	8.84	45.46			Min	7.37	45.31		
Rng	19.29	19.29			Rng	19.96	19.96		
Med	17.89	55.70			Med	16.67	55.97		
Mean	18.03	55.56			Mean	16.76	55.88		
StDev	5.71	5.71			StDev	5.59	5.59		
CV	0.32	0.10			CV	0.33	0.10		
Count	83	83			Count	94	94		
ROB-MW2s					ROB-MW5s				
Max	17.70	64.44	0.52	0.04	Max	14.58	64.26	0	0
Min	9.72	56.46	-0.16	-0.01	Min	9.78	59.46	-1.00	-0.08
Rng	7.98	7.98	0.68	0.05	Rng	4.80	4.80	1.00	0.08
Med	13.57	60.59	0	0	Med	12.42	61.62	0	0
Mean	13.50	60.66	0.02	0.00	Mean	12.25	61.79	-0.03	-0.00
StDev	1.79	1.79	0.09	0.01	StDev	1.46	1.46	0.17	0.01
CV	0.13	0.03	4.70	4.70	CV	0.12	0.02	-5.11	-5.11
Count	42	42	42	42	Count	36	36	36	36

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Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v
ROB-MW5d				
Max	27.39	64.27		
Min	9.66	46.54		
Rng	17.73	17.73		
Med	16.84	57.09		
Mean	17.03	56.90		
StDev	4.99	4.99		
CV	0.29	0.09		
Count	87	87		
ROB-MW6s				
Max	27.13	63.09	0.87	0.04
Min	10.02	45.98	-0.58	-0.03
Rng	17.11	17.11	1.45	0.07
Med	16.83	56.29	0	0
Mean	18.08	55.03	0.04	0.00
StDev	4.76	4.76	0.13	0.01
CV	0.26	0.09	3.04	3.04
Count	90	90	90	90
ROB-MW6d				
Max	28.10	63.07		
Min	9.87	44.84		
Rng	18.23	18.23		
Med	17.06	55.89		
Mean	18.35	54.59		
StDev	5.02	5.02		
CV	0.27	0.09		
Count	94	94		
ROB-MW7s				
Max	27.83	63.09	2.73	0.13
Min	9.08	44.34	-0.63	-0.03
Rng	18.75	18.75	3.36	0.16
Med	17.09	55.08	0.39	0.02
Mean	17.12	55.05	0.62	0.03
StDev	5.17	5.17	0.83	0.04
CV	0.30	0.09	1.34	1.34
Count	91	91	91	91
ROB-MW7d				
Max	30.40	62.99		
Min	8.90	41.49		
Rng	21.50	21.50		
Med	17.47	54.43		
Mean	17.84	54.05		
StDev	5.62	5.62		
CV	0.32	0.10		
Count	94	94		
ROB-MW8s				
Max	27.70	63.31	4.27	0.21
Min	9.08	44.69	-0.57	-0.03
Rng	18.62	18.62	4.84	0.24
Med	17.05	55.34	0	0
Mean	17.30	55.09	0.13	0.01
StDev	5.30	5.30	0.57	0.03
CV	0.31	0.10	4.28	4.28
Count	87	87	87	87

Well ID	DTW	GWE	dh	i_v
ROB-MW8d				
Max	33.58	63.40		
Min	8.92	38.74		
Rng	24.66	24.66		
Med	17.96	54.37		
Mean	18.34	53.98		
StDev	6.29	6.29		
CV	0.34	0.12		
Count	94	94		
WOO-MW1				
Max	50.58	-10.11		
Min	37.38	-23.31		
Rng	13.20	13.20		
Med	45.11	-17.84		
Mean	44.37	-17.10		
StDev	3.86	3.86		
CV	0.09	-0.23		
Count	82	82		
WOO-MW2				
Max	48.14	-11.44		
Min	34.95	-24.63		
Rng	13.19	13.19		
Med	43.06	-19.55		
Mean	42.24	-18.73		
StDev	3.78	3.78		
CV	0.09	-0.20		
Count	82	82		
WOO-MW3				
Max	49.78	-9.65		
Min	35.64	-23.79		
Rng	14.14	14.14		
Med	43.60	-17.61		
Mean	43.04	-17.05		
StDev	3.89	3.89		
CV	0.09	-0.23		
Count	82	82		
ANT-MW1s				
Max	20.84	76.54	0.05	0.00
Min	13.35	69.05	-0.09	-0.01
Rng	7.49	7.49	0.14	0.01
Med	17.86	72.03	0	0
Mean	17.76	72.13	-0.00	-0.00
StDev	2.63	2.63	0.03	0.00
CV	0.15	0.04	-10.58	-10.58
Count	16	16	16	16
ANT-MW1d				
Max	34.59	76.58		
Min	13.20	55.19		
Rng	21.39	21.39		
Med	25.59	64.20		
Mean	25.31	64.47		
StDev	5.32	5.32		
CV	0.21	0.08		
Count	74	74		

Table 4-4
Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v	Well ID	DTW	GWE	dh	i_v
ANT-MW2s					ANT-MW5s				
Max	33.15	70.24	7.00	0.39	Max	33.63	79.68	2.90	0.13
Min	18.85	55.94	-0.88	-0.05	Min	13.25	59.30	-0.96	-0.04
Rng	14.30	14.30	7.88	0.44	Rng	20.38	20.38	3.86	0.17
Med	26.95	62.14	0	0	Med	27.41	65.52	0.05	0.00
Mean	26.39	62.70	0.16	0.01	Mean	26.78	66.15	0.19	0.01
StDev	3.47	3.47	0.93	0.05	StDev	4.40	4.40	0.56	0.02
CV	0.13	0.06	5.64	5.64	CV	0.16	0.07	3.03	3.03
Count	61	61	61	61	Count	70	70	70	70
ANT-MW2d					ANT-MW5d				
Max	41.10	70.21			Max	44.14	79.55		
Min	18.48	47.59			Min	13.19	48.60		
Rng	22.62	22.62			Rng	30.95	30.95		
Med	28.43	60.26			Med	28.93	63.81		
Mean	29.88	58.81			Mean	28.97	63.77		
StDev	6.03	6.03			StDev	5.64	5.64		
CV	0.20	0.10			CV	0.19	0.09		
Count	94	94			Count	91	91		
ANT-MW3s					ANT-MW6s				
Max	32.53	75.31	1.25	0.07	Max	32.90	79.26	3.68	0.16
Min	15.01	57.79	-0.98	-0.05	Min	8.81	55.17	-0.28	-0.01
Rng	17.52	17.52	2.23	0.12	Rng	24.09	24.09	3.96	0.17
Med	26.42	63.90	0	0	Med	22.98	65.09	1.18	0.05
Mean	25.60	64.72	0.17	0.01	Mean	22.42	65.65	1.33	0.06
StDev	4.49	4.49	0.34	0.02	StDev	4.77	4.77	0.82	0.04
CV	0.18	0.07	2.04	2.04	CV	0.21	0.07	0.61	0.61
Count	65	65	65	65	Count	86	86	86	86
ANT-MW3d					ANT-MW6d				
Max	41.48	74.10			Max	37.54	76.69		
Min	16.00	48.62			Min	11.00	50.15		
Rng	25.48	25.48			Rng	26.54	26.54		
Med	28.33	61.77			Med	24.31	63.38		
Mean	28.91	61.19			Mean	24.41	63.29		
StDev	6.35	6.35			StDev	5.77	5.77		
CV	0.22	0.10			CV	0.24	0.09		
Count	94	94			Count	94	94		
ANT-MW4s					COR-MW1s				
Max	33.72	71.04	0.20	0.01	Max	12.79	104.65	0	0
Min	18.37	55.69	-1.08	-0.06	Min	5.01	96.87	-0.09	-0.01
Rng	15.35	15.35	1.28	0.07	Rng	7.78	7.78	0.09	0.01
Med	27.14	62.28	0	0	Med	7.86	101.81	0	0
Mean	26.58	62.83	-0.02	-0.00	Mean	8.27	101.39	-0.00	-0.00
StDev	3.86	3.86	0.19	0.01	StDev	1.75	1.75	0.01	0.00
CV	0.15	0.06	-7.46	-7.46	CV	0.21	0.02	-9.70	-9.70
Count	64	64	64	64	Count	94	94	94	94
ANT-MW4d					COR-MW1d				
Max	41.46	70.84			Max	12.68	104.66		
Min	18.44	47.82			Min	4.88	96.86		
Rng	23.02	23.02			Rng	7.80	7.80		
Med	28.63	60.65			Med	7.74	101.80		
Mean	29.75	59.53			Mean	8.15	101.39		
StDev	6.02	6.02			StDev	1.75	1.75		
CV	0.20	0.10			CV	0.22	0.02		
Count	93	93			Count	94	94		

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Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v	Well ID	DTW	GWE	dh	i_v
COR-MW2s					COR-MW5s				
Max	12.92	107.65	0.21	0.02	Max	12.81	106.97	0.20	0.02
Min	4.27	99.00	-0.18	-0.01	Min	4.86	99.02	-0.06	-0.00
Rng	8.65	8.65	0.39	0.03	Rng	7.95	7.95	0.26	0.02
Med	7.39	104.53	0	0	Med	7.52	104.31	0	0
Mean	7.83	104.09	0.01	0.00	Mean	8.03	103.80	0.00	0.00
StDev	2.03	2.03	0.04	0.00	StDev	1.89	1.89	0.03	0.00
CV	0.26	0.02	6.10	6.10	CV	0.24	0.02	79.11	79.11
Count	93	93	93	93	Count	94	94	94	94
COR-MW2d					COR-MW5d				
Max	12.73	107.66			Max	12.68	106.99		
Min	4.03	98.96			Min	4.70	99.01		
Rng	8.70	8.70			Rng	7.98	7.98		
Med	7.16	104.53			Med	7.40	104.30		
Mean	7.62	104.07			Mean	7.89	103.80		
StDev	2.03	2.03			StDev	1.89	1.89		
CV	0.27	0.02			CV	0.24	0.02		
Count	93	93			Count	94	94		
COR-MW3s					FG2-MW1s				
Max	13.77	107.66	0.32	0.02	Max	12.48	77.12	0.41	0.03
Min	5.40	99.29	-0.07	-0.01	Min	4.39	69.03	-1.13	-0.07
Rng	8.37	8.37	0.39	0.03	Rng	8.09	8.09	1.54	0.10
Med	8.21	104.86	0	0	Med	10.49	71.02	-0.40	-0.03
Mean	8.73	104.33	0.01	0.00	Mean	8.90	72.61	-0.38	-0.02
StDev	1.97	1.97	0.04	0.00	StDev	2.78	2.78	0.43	0.03
CV	0.23	0.02	7.37	7.37	CV	0.31	0.04	-1.12	-1.12
Count	94	94	94	94	Count	94	94	94	94
COR-MW3d					FG2-MW1d				
Max	13.63	107.67			Max	12.01	77.14		
Min	5.23	99.27			Min	4.18	69.31		
Rng	8.40	8.40			Rng	7.83	7.83		
Med	8.05	104.86			Med	9.45	71.88		
Mean	8.58	104.32			Mean	8.33	72.99		
StDev	1.98	1.98			StDev	2.49	2.49		
CV	0.23	0.02			CV	0.30	0.03		
Count	94	94			Count	94	94		
COR-MW4s					FG2-MW2s				
Max	12.74	107.01	0.22	0.02	Max	10.08	80.11	1.45	0.08
Min	4.55	98.82	-0.06	-0.00	Min	5.33	75.36	0	0
Rng	8.19	8.19	0.28	0.02	Rng	4.75	4.75	1.45	0.08
Med	7.36	104.20	0	0	Med	8.68	76.76	0	0
Mean	7.84	103.72	0.01	0.00	Mean	8.52	76.92	0.04	0.00
StDev	1.93	1.93	0.04	0.00	StDev	1.08	1.08	0.20	0.01
CV	0.25	0.02	4.91	4.91	CV	0.13	0.01	5.47	5.47
Count	94	94	94	94	Count	94	94	94	94
COR-MW4d					FG2-MW2d				
Max	12.62	106.99			Max	9.98	80.11		
Min	4.44	98.81			Min	5.20	75.33		
Rng	8.18	8.18			Rng	4.78	4.78		
Med	7.29	104.14			Med	8.64	76.68		
Mean	7.72	103.71			Mean	8.44	76.87		
StDev	1.93	1.93			StDev	1.07	1.07		
CV	0.25	0.02			CV	0.13	0.01		
Count	94	94			Count	94	94		

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Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v	Well ID	DTW	GWE	dh	i_v
FG2-MW3s					GOD-MW1s				
Max	12.53	77.26	0.86	0.05	Max	12.65	93.55	0.98	0.06
Min	8.52	73.25	-0.99	-0.06	Min	4.62	85.52	-0.23	-0.01
Rng	4.01	4.01	1.85	0.10	Rng	8.03	8.03	1.21	0.08
Med	10.77	75.01	0	0	Med	8.90	89.27	0	0
Mean	10.64	75.14	-0.01	-0.00	Mean	8.88	89.29	0.02	0.00
StDev	0.95	0.95	0.20	0.01	StDev	1.79	1.79	0.11	0.01
CV	0.09	0.01	-35.79	-35.79	CV	0.20	0.02	6.76	6.76
Count	94	94	94	94	Count	94	94	94	94
FG2-MW3d					GOD-MW1d				
Max	12.12	77.26			Max	12.59	93.55		
Min	8.08	73.22			Min	4.53	85.49		
Rng	4.04	4.04			Rng	8.06	8.06		
Med	10.39	74.95			Med	8.83	89.26		
Mean	10.20	75.14			Mean	8.81	89.27		
StDev	0.98	0.98			StDev	1.78	1.78		
CV	0.10	0.01			CV	0.20	0.02		
Count	94	94			Count	94	94		
FG2-MW4s					GOD-MW2s				
Max	13.02	80.39	0.99	0.06	Max	17.01	93.82	0.10	0.01
Min	6.97	74.34	-0.54	-0.03	Min	8.58	85.39	-0.11	-0.01
Rng	6.05	6.05	1.53	0.08	Rng	8.43	8.43	0.21	0.01
Med	10.64	76.72	0	0	Med	12.61	89.80	0	0
Mean	10.53	76.83	0.02	0.00	Mean	12.77	89.63	-0.00	-0.00
StDev	1.40	1.40	0.16	0.01	StDev	1.91	1.91	0.02	0.00
CV	0.13	0.02	7.15	7.15	CV	0.15	0.02	-145	-145
Count	94	94	94	94	Count	94	94	94	94
FG2-MW4d					GOD-MW2d				
Max	12.58	80.37			Max	16.92	93.80		
Min	6.54	74.33			Min	8.50	85.38		
Rng	6.04	6.04			Rng	8.42	8.42		
Med	10.21	76.70			Med	12.49	89.81		
Mean	10.11	76.80			Mean	12.67	89.63		
StDev	1.39	1.39			StDev	1.91	1.91		
CV	0.14	0.02			CV	0.15	0.02		
Count	94	94			Count	94	94		
FG2-MW5s					GOD-MW3s				
Max	11.11	82.18	0.13	0.01	Max	19.79	91.96	0.30	0.02
Min	1.38	72.45	-0.23	-0.01	Min	9.43	81.60	-0.21	-0.01
Rng	9.73	9.73	0.36	0.02	Rng	10.36	10.36	0.51	0.03
Med	5.92	77.64	0	0	Med	13.86	87.53	0	0
Mean	5.65	77.91	0.00	0.00	Mean	14.40	86.99	0.02	0.00
StDev	1.46	1.46	0.04	0.00	StDev	2.54	2.54	0.05	0.00
CV	0.26	0.02	171	171	CV	0.18	0.03	2.62	2.62
Count	93	93	93	93	Count	93	93	93	93
FG2-MW5d					GOD-MW3d				
Max	11.03	82.17			Max	19.66	91.88		
Min	1.18	72.32			Min	9.38	81.60		
Rng	9.85	9.85			Rng	10.28	10.28		
Med	5.72	77.63			Med	13.78	87.48		
Mean	5.45	77.90			Mean	14.31	86.95		
StDev	1.45	1.45			StDev	2.55	2.55		
CV	0.27	0.02			CV	0.18	0.03		
Count	93	93			Count	93	93		

Table 4-4
Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v	Well ID	DTW	GWE	dh	i_v
GOD-MW4s					GOD-MW7s				
Max	18.07	91.33	0.72	0.05	Max	11.23	96.92	0.24	0.01
Min	10.32	83.58	-2.06	-0.13	Min	3.51	89.20	-0.18	-0.01
Rng	7.75	7.75	2.78	0.18	Rng	7.72	7.72	0.42	0.02
Med	13.60	88.05	0	0	Med	8.76	91.68	0	0
Mean	13.75	87.90	-0.01	-0.00	Mean	8.35	92.08	0.00	0.00
StDev	1.98	1.98	0.24	0.02	StDev	1.77	1.77	0.05	0.00
CV	0.14	0.02	-22.74	-22.74	CV	0.21	0.02	20.75	20.75
Count	93	93	93	93	Count	94	94	94	94
GOD-MW4d					GOD-MW7d				
Max	17.72	91.28			Max	11.19	96.68		
Min	10.02	83.58			Min	3.67	89.16		
Rng	7.70	7.70			Rng	7.52	7.52		
Med	13.25	88.05			Med	8.67	91.69		
Mean	13.38	87.92			Mean	8.28	92.07		
StDev	1.99	1.99			StDev	1.77	1.77		
CV	0.15	0.02			CV	0.21	0.02		
Count	93	93			Count	94	94		
GOD-MW5s					MAC-MW1s				
Max	10.48	98.03	0.15	0.01	Max	9.63	96.70	0.80	0.06
Min	4.39	91.94	-0.19	-0.01	Min	3.73	90.80	-0.14	-0.01
Rng	6.09	6.09	0.34	0.02	Rng	5.90	5.90	0.94	0.07
Med	8.62	93.81	0	0	Med	7.16	93.27	0	0
Mean	8.43	93.99	-0.01	-0.00	Mean	7.08	93.35	0.00	0.00
StDev	1.25	1.25	0.04	0.00	StDev	1.27	1.27	0.09	0.01
CV	0.15	0.01	-3.88	-3.88	CV	0.18	0.01	36.69	36.69
Count	94	94	94	94	Count	92	92	92	92
GOD-MW5d					MAC-MW1d				
Max	10.23	98.05			Max	9.53	96.36		
Min	4.11	91.93			Min	3.98	90.81		
Rng	6.12	6.12			Rng	5.55	5.55		
Med	8.33	93.84			Med	7.07	93.28		
Mean	8.15	94.01			Mean	6.99	93.35		
StDev	1.24	1.24			StDev	1.26	1.26		
CV	0.15	0.01			CV	0.18	0.01		
Count	94	94			Count	92	92		
GOD-MW6s					MAC-MW2s				
Max	12.67	96.15	0.07	0.00	Max	8.82	96.03	0.33	0.03
Min	4.53	88.01	-0.25	-0.01	Min	3.39	90.60	-0.06	-0.00
Rng	8.14	8.14	0.32	0.02	Rng	5.43	5.43	0.39	0.03
Med	9.21	91.47	0	0	Med	6.29	93.14	0	0
Mean	8.82	91.86	-0.01	-0.00	Mean	6.13	93.29	0.02	0.00
StDev	1.76	1.76	0.03	0.00	StDev	1.35	1.35	0.05	0.00
CV	0.20	0.02	-4.61	-4.61	CV	0.22	0.01	2.40	2.40
Count	94	94	94	94	Count	94	94	94	94
GOD-MW6d					MAC-MW2d				
Max	12.67	96.18			Max	8.62	96.02		
Min	4.43	87.94			Min	3.14	90.54		
Rng	8.24	8.24			Rng	5.48	5.48		
Med	9.13	91.48			Med	6.04	93.12		
Mean	8.73	91.88			Mean	5.90	93.26		
StDev	1.76	1.76			StDev	1.35	1.35		
CV	0.20	0.02			CV	0.23	0.01		
Count	94	94			Count	94	94		

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Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v	Well ID	DTW	GWE	dh	i_v
MAC-MW3s					NUN-MW1s				
Max	7.52	94.77	0.20	0.01	Max	8.00	91.60	0.31	0.02
Min	3.29	90.54	-0.99	-0.05	Min	3.63	87.23	-0.32	-0.02
Rng	4.23	4.23	1.19	0.06	Rng	4.37	4.37	0.63	0.05
Med	5.65	92.41	0	0	Med	6.39	88.84	0	0
Mean	5.66	92.40	-0.03	-0.00	Mean	6.31	88.92	0.01	0.00
StDev	0.79	0.79	0.12	0.01	StDev	0.84	0.84	0.06	0.00
CV	0.14	0.01	-3.47	-3.47	CV	0.13	0.01	5.22	5.22
Count	94	94	94	94	Count	94	94	94	94
MAC-MW3d					NUN-MW1d				
Max	7.30	94.70			Max	7.72	91.62		
Min	3.18	90.58			Min	3.34	87.24		
Rng	4.12	4.12			Rng	4.38	4.38		
Med	5.39	92.49			Med	6.12	88.84		
Mean	5.45	92.43			Mean	6.05	88.91		
StDev	0.79	0.79			StDev	0.85	0.85		
CV	0.14	0.01			CV	0.14	0.01		
Count	94	94			Count	94	94		
MAC-MW4s					NUN-MW2s				
Max	7.90	95.63	0.36	0.02	Max	8.26	93.62	0.23	0.01
Min	2.88	90.61	0	0	Min	3.46	88.82	-0.12	-0.01
Rng	5.02	5.02	0.36	0.02	Rng	4.80	4.80	0.35	0.02
Med	5.95	92.57	0.19	0.01	Med	7.39	89.69	0	0
Mean	5.90	92.61	0.19	0.01	Mean	7.08	90.00	0.00	0.00
StDev	1.04	1.04	0.04	0.00	StDev	0.95	0.95	0.04	0.00
CV	0.18	0.01	0.19	0.19	CV	0.13	0.01	8.47	8.47
Count	94	94	94	94	Count	94	94	94	94
MAC-MW4d					NUN-MW2d				
Max	7.83	95.43			Max	8.14	93.61		
Min	2.82	90.42			Min	3.28	88.75		
Rng	5.01	5.01			Rng	4.86	4.86		
Med	5.88	92.38			Med	7.22	89.67		
Mean	5.83	92.42			Mean	6.90	89.99		
StDev	1.04	1.04			StDev	0.95	0.95		
CV	0.18	0.01			CV	0.14	0.01		
Count	94	94			Count	94	94		
MAC-MW5s					NUN-MW3s				
Max	7.48	95.83	0.29	0.01	Max	6.38	92.35	1.01	0.08
Min	2.40	90.75	-0.07	-0.00	Min	1.57	87.54	-0.13	-0.01
Rng	5.08	5.08	0.36	0.02	Rng	4.81	4.81	1.14	0.09
Med	5.36	92.88	0	0	Med	4.70	89.22	0	0
Mean	5.34	92.89	0.01	0.00	Mean	4.60	89.32	0.01	0.00
StDev	1.08	1.08	0.04	0.00	StDev	0.94	0.94	0.11	0.01
CV	0.20	0.01	5.86	5.86	CV	0.20	0.01	13.18	13.18
Count	94	94	94	94	Count	93	93	92	92
MAC-MW5d					NUN-MW3d				
Max	7.34	95.84			Max	6.22	92.33		
Min	2.22	90.72			Min	1.53	87.64		
Rng	5.12	5.12			Rng	4.69	4.69		
Med	5.19	92.88			Med	4.65	89.22		
Mean	5.17	92.89			Mean	4.55	89.31		
StDev	1.08	1.08			StDev	0.92	0.92		
CV	0.21	0.01			CV	0.20	0.01		
Count	94	94			Count	92	92		

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Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v	Well ID	DTW	GWE	dh	i_v
NUN-MW4s					MOO-MW3				
Max	7.39	92.38	0.31	0.02	Max	19.43	67.01		
Min	3.23	88.22	-0.96	-0.07	Min	9.88	57.46		
Rng	4.16	4.16	1.27	0.10	Rng	9.55	9.55		
Med	6.22	89.40	0	0	Med	13.96	62.93		
Mean	6.01	89.60	-0.01	-0.00	Mean	14.13	62.76		
StDev	0.89	0.89	0.12	0.01	StDev	2.09	2.09		
CV	0.15	0.01	-9.10	-9.10	CV	0.15	0.03		
Count	92	92	92	92	Count	94	94		
NUN-MW4d					MOO-MW4				
Max	7.30	92.41			Max	20.13	69.20		
Min	3.13	88.24			Min	9.00	58.07		
Rng	4.17	4.17			Rng	11.13	11.13		
Med	6.08	89.46			Med	14.36	63.84		
Mean	5.93	89.61			Mean	14.53	63.67		
StDev	0.89	0.89			StDev	2.29	2.29		
CV	0.15	0.01			CV	0.16	0.04		
Count	92	92			Count	94	94		
NUN-MW5s					MOO-MW5s				
Max	8.09	91.66	2.97	0.23	Max	19.83	66.44	9.31	0.45
Min	4.78	88.35	-0.91	-0.07	Min	10.60	57.21	-0.07	-0.00
Rng	3.31	3.31	3.88	0.30	Rng	9.23	9.23	9.38	0.46
Med	7.43	89.02	0	0	Med	14.37	62.67	3.42	0.17
Mean	7.06	89.38	0.01	0.00	Mean	14.48	62.56	3.63	0.18
StDev	0.89	0.89	0.42	0.03	StDev	1.96	1.96	2.13	0.10
CV	0.13	0.01	64.06	64.06	CV	0.14	0.03	0.59	0.59
Count	60	60	60	60	Count	94	94	94	94
NUN-MW5d					MOO-MW5d				
Max	9.97	91.67			Max	23.85	64.24		
Min	4.88	86.58			Min	12.79	53.18		
Rng	5.09	5.09			Rng	11.06	11.06		
Med	7.56	88.99			Med	17.22	59.82		
Mean	7.19	89.36			Mean	18.10	58.93		
StDev	0.98	0.98			StDev	2.78	2.78		
CV	0.14	0.01			CV	0.15	0.05		
Count	60	60			Count	94	94		
MOO-MW1					MOO-MW6s				
Max	19.29	62.82			Max	25.58	59.79	13.58	0.66
Min	11.14	54.67			Min	11.73	45.94	-2.50	-0.12
Rng	8.15	8.15			Rng	13.85	13.85	16.08	0.78
Med	14.80	59.17			Med	21.28	50.25	2.94	0.14
Mean	15.00	58.96			Mean	20.96	50.56	3.82	0.19
StDev	1.82	1.82			StDev	2.93	2.93	3.22	0.16
CV	0.12	0.03			CV	0.14	0.06	0.84	0.84
Count	94	94			Count	94	94	94	94
MOO-MW2					MOO-MW6d				
Max	24.42	61.46			Max	32.48	58.82		
Min	14.12	51.16			Min	12.60	38.94		
Rng	10.30	10.30			Rng	19.88	19.88		
Med	20.40	55.18			Med	24.72	46.70		
Mean	20.27	55.31			Mean	24.68	46.74		
StDev	2.45	2.45			StDev	3.84	3.84		
CV	0.12	0.04			CV	0.16	0.08		
Count	93	93			Count	94	94		

Table 4-4
Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v	Well ID	DTW	GWE	dh	i_v
MOO-MW7s					TON-MW2s				
Max	23.63	56.63	3.06	0.20	Max	13.89	96.89	0.51	0.03
Min	12.62	45.62	-0.11	-0.01	Min	4.66	87.66	-0.23	-0.01
Rng	11.01	11.01	3.17	0.20	Rng	9.23	9.23	0.74	0.05
Med	19.93	49.33	0.06	0.00	Med	7.68	93.87	0	0
Mean	19.70	49.55	0.09	0.01	Mean	7.92	93.63	0.02	0.00
StDev	2.52	2.52	0.32	0.02	StDev	1.81	1.81	0.08	0.01
CV	0.13	0.05	3.47	3.47	CV	0.23	0.02	5.33	5.33
Count	94	94	94	94	Count	94	94	94	94
MOO-MW7d					TON-MW2d				
Max	24.03	56.59			Max	13.70	96.88		
Min	12.57	45.13			Min	4.50	87.68		
Rng	11.46	11.46			Rng	9.20	9.20		
Med	19.91	49.26			Med	7.57	93.82		
Mean	19.71	49.45			Mean	7.77	93.61		
StDev	2.57	2.57			StDev	1.82	1.82		
CV	0.13	0.05			CV	0.23	0.02		
Count	94	94			Count	94	94		
MOO-MW8s					TON-MW3s				
Max	23.85	59.98	0.34	0.02	Max	22.88	102.18	2.27	0.13
Min	9.22	45.35	-0.23	-0.01	Min	8.10	87.40	-0.50	-0.03
Rng	14.63	14.63	0.57	0.04	Rng	14.78	14.78	2.77	0.15
Med	20.28	48.92	-0.03	-0.00	Med	15.47	94.81	0	0
Mean	20.15	49.05	-0.04	-0.00	Mean	15.41	94.87	0.06	0.00
StDev	2.66	2.66	0.09	0.01	StDev	4.11	4.11	0.35	0.02
CV	0.13	0.05	-2.53	-2.53	CV	0.27	0.04	6.25	6.25
Count	94	94	94	94	Count	81	81	81	81
MOO-MW8d					TON-MW3d				
Max	23.75	59.64			Max	34.37	102.19		
Min	9.48	45.37			Min	7.99	75.81		
Rng	14.27	14.27			Rng	26.38	26.38		
Med	20.22	48.91			Med	15.76	94.42		
Mean	20.03	49.09			Mean	17.25	92.93		
StDev	2.66	2.66			StDev	6.29	6.29		
CV	0.13	0.05			CV	0.36	0.07		
Count	94	94			Count	94	94		
TON-MW1s					TON-MW4s				
Max	22.45	99.27	2.02	0.13	Max	21.92	100.55	1.93	0.11
Min	5.50	82.32	-0.21	-0.01	Min	6.99	85.62	-0.09	-0.00
Rng	16.95	16.95	2.23	0.14	Rng	14.93	14.93	2.02	0.11
Med	11.77	93.01	0	0	Med	15.03	92.51	0	0
Mean	12.28	92.49	0.02	0.00	Mean	14.80	92.74	0.05	0.00
StDev	4.28	4.28	0.21	0.01	StDev	3.90	3.90	0.25	0.01
CV	0.35	0.05	10.06	10.06	CV	0.26	0.04	5.52	5.52
Count	92	92	92	92	Count	77	77	77	77
TON-MW1d					TON-MW4d				
Max	23.90	99.27			Max	33.90	100.53		
Min	5.37	80.74			Min	6.72	73.35		
Rng	18.53	18.53			Rng	27.18	27.18		
Med	11.72	92.92			Med	16.49	90.76		
Mean	12.41	92.23			Mean	17.03	90.22		
StDev	4.60	4.60			StDev	6.60	6.60		
CV	0.37	0.05			CV	0.39	0.07		
Count	94	94			Count	94	94		

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Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v	Well ID	DTW	GWE	dh	i_v
TON-MW5s					TON-MW8s				
Max	21.65	100.50	0	0	Max	10.71	88.06	0.32	0.02
Min	7.36	86.21	-0.99	-0.06	Min	5.95	83.30	-0.34	-0.02
Rng	14.29	14.29	0.99	0.06	Rng	4.76	4.76	0.66	0.03
Med	13.61	94.25	0	0	Med	9.74	84.27	0	0
Mean	13.94	93.92	-0.02	-0.00	Mean	9.49	84.52	-0.04	-0.00
StDev	3.60	3.60	0.11	0.01	StDev	0.88	0.88	0.11	0.01
CV	0.26	0.04	-5.81	-5.81	CV	0.09	0.01	-3.10	-3.10
Count	84	84	84	84	Count	94	94	94	94
TON-MW5d					TON-MW8d				
Max	29.55	100.52			Max	10.37	87.74		
Min	7.26	78.23			Min	5.88	83.25		
Rng	22.29	22.29			Rng	4.49	4.49		
Med	14.52	93.27			Med	9.29	84.34		
Mean	15.13	92.65			Mean	9.07	84.55		
StDev	5.17	5.17			StDev	0.85	0.85		
CV	0.34	0.06			CV	0.09	0.01		
Count	94	94			Count	94	94		
TON-MW6s					BRE-MW1s				
Max	13.31	93.23	2.19	0.11	Max	33.30	205.09		
Min	5.43	85.35	-0.34	-0.02	Min	11.20	182.99		
Rng	7.88	7.88	2.53	0.12	Rng	22.10	22.10		
Med	9.80	88.86	0.14	0.01	Med	19.54	196.75		
Mean	9.88	88.78	0.22	0.01	Mean	20.45	195.84		
StDev	1.58	1.58	0.46	0.02	StDev	5.03	5.03		
CV	0.16	0.02	2.10	2.10	CV	0.25	0.03		
Count	94	94	93	93	Count	75	75		
TON-MW6d					BRE-MW1d				
Max	13.51	92.46			Max	85.35	168.86		
Min	5.91	84.86			Min	47.44	130.95		
Rng	7.60	7.60			Rng	37.91	37.91		
Med	9.88	88.49			Med	68.60	147.70		
Mean	9.80	88.57			Mean	68.75	147.55		
StDev	1.60	1.60			StDev	9.83	9.83		
CV	0.16	0.02			CV	0.14	0.07		
Count	93	93			Count	77	77		
TON-MW7s					BRE-MW2s				
Max	10.40	95.77	0.14	0.01	Max	99.60	168.96	1.08	0.05
Min	4.84	90.21	-0.66	-0.03	Min	58.18	127.54	-5.99	-0.29
Rng	5.56	5.56	0.80	0.04	Rng	41.42	41.42	7.07	0.34
Med	8.44	92.18	0	0	Med	79.42	147.72	0	0
Mean	8.19	92.42	-0.01	-0.00	Mean	80.25	146.89	-0.06	-0.00
StDev	1.22	1.22	0.07	0.00	StDev	10.78	10.78	0.68	0.03
CV	0.15	0.01	-13.27	-13.27	CV	0.13	0.07	-12.39	-12.39
Count	94	94	94	94	Count	83	83	82	82
TON-MW7d					BRE-MW2d				
Max	10.13	95.77			Max	99.47	168.98		
Min	4.52	90.16			Min	57.99	127.50		
Rng	5.61	5.61			Rng	41.48	41.48		
Med	8.11	92.19			Med	79.48	147.49		
Mean	7.87	92.42			Mean	80.12	146.85		
StDev	1.22	1.22			StDev	10.72	10.72		
CV	0.16	0.01			CV	0.13	0.07		
Count	94	94			Count	82	82		

Table 4-4
Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v
BRE-MW3s				
Max	85.40	167.20	2.59	0.21
Min	45.78	127.58	-12.86	-1.03
Rng	39.62	39.62	15.45	1.24
Med	67.43	145.55	0	0
Mean	67.50	145.48	-0.30	-0.02
StDev	10.34	10.34	1.81	0.14
CV	0.15	0.07	-6.00	-6.00
Count	82	82	82	82
BRE-MW3d				
Max	85.43	167.25		
Min	45.74	127.56		
Rng	39.69	39.69		
Med	66.51	146.48		
Mean	67.21	145.78		
StDev	10.41	10.41		
CV	0.15	0.07		
Count	82	82		
CRE-MW1s				
Max	7.07	218.35		
Min	0.07	211.35		
Rng	7.00	7.00		
Med	3.52	214.90		
Mean	3.62	214.80		
StDev	1.41	1.41		
CV	0.39	0.01		
Count	83	83		
CRE-MW1d				
Max	116.70	142.94		
Min	75.47	101.71		
Rng	41.23	41.23		
Med	106.78	111.63		
Mean	104.30	114.11		
StDev	9.22	9.22		
CV	0.09	0.08		
Count	82	82		
CRE-MW2s				
Max	8.04	214.80	2.02	0.12
Min	2.42	209.18	-1.54	-0.09
Rng	5.62	5.62	3.56	0.21
Med	4.79	212.43	0.54	0.03
Mean	4.92	212.30	0.50	0.03
StDev	1.23	1.23	0.44	0.03
CV	0.25	0.01	0.88	0.88
Count	83	83	83	83
CRE-MW2d				
Max	8.97	214.26		
Min	2.98	208.27		
Rng	5.99	5.99		
Med	5.29	211.95		
Mean	5.45	211.79		
StDev	1.24	1.24		
CV	0.23	0.01		
Count	83	83		

Well ID	DTW	GWE	dh	i_v
CRE-MW3s				
Max	9.17	211.84		
Min	1.94	204.61		
Rng	7.23	7.23		
Med	4.22	209.56		
Mean	4.47	209.31		
StDev	1.40	1.40		
CV	0.31	0.01		
Count	81	81		
CRE-MW3d				
Max	52.90	178.59		
Min	35.19	160.88		
Rng	17.71	17.71		
Med	46.35	167.43		
Mean	45.35	168.43		
StDev	4.50	4.50		
CV	0.10	0.03		
Count	80	80		
MTS-MW1				
Max	80.71	133.70		
Min	52.94	105.93		
Rng	27.77	27.77		
Med	64.10	122.54		
Mean	65.49	121.15		
StDev	7.46	7.46		
CV	0.11	0.06		
Count	83	83		
MTS-MW2s				
Max	25.43	158.56		
Min	22.30	155.43		
Rng	3.13	3.13		
Med	24.25	156.62		
Mean	23.92	156.94		
StDev	1.01	1.01		
CV	0.04	0.01		
Count	10	10		
MTS-MW2d				
Max	65.30	142.30		
Min	38.64	115.64		
Rng	26.66	26.66		
Med	56.12	124.82		
Mean	55.92	125.02		
StDev	5.88	5.88		
CV	0.11	0.05		
Count	57	57		
MTS-MW3s				
Max	24.98	157.16		
Min	21.08	153.26		
Rng	3.90	3.90		
Med	24.05	154.20		
Mean	23.58	154.66		
StDev	1.52	1.52		
CV	0.06	0.01		
Count	8	8		

Table 4-4
Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v
MTS-MW3d				
Max	69.89	132.60		
Min	45.66	108.37		
Rng	24.23	24.23		
Med	56.45	121.81		
Mean	57.51	120.75		
StDev	6.25	6.25		
CV	0.11	0.05		
Count	76	76		
AUK-MW1				
Max	84.31	185.91		
Min	55.15	156.75		
Rng	29.16	29.16		
Med	69.44	171.62		
Mean	71.14	169.92		
StDev	7.92	7.92		
CV	0.11	0.05		
Count	82	82		
AUK-MW2				
Max	92.98	189.26		
Min	51.00	147.28		
Rng	41.98	41.98		
Med	73.70	166.56		
Mean	74.60	165.66		
StDev	8.58	8.58		
CV	0.11	0.05		
Count	83	83		
AUK-MW3				
Max	89.68	178.64		
Min	59.54	148.50		
Rng	30.14	30.14		
Med	71.70	166.48		
Mean	73.10	165.08		
StDev	7.69	7.69		
CV	0.11	0.05		
Count	83	83		
DLF-MW1				
Max	116.22	213.14		
Min	108.59	205.51		
Rng	7.63	7.63		
Med	112.61	209.12		
Mean	112.89	208.84		
StDev	2.94	2.94		
CV	0.03	0.01		
Count	23	23		
DLF-MW2				
Max	120.82	216.27		
Min	93.34	188.79		
Rng	27.48	27.48		
Med	96.52	213.09		
Mean	103.28	206.33		
StDev	12.89	12.89		
CV	0.12	0.06		
Count	6	6		

Well ID	DTW	GWE	dh	i_v
DLF-MW4A				
Max	98.20	237.55		
Min	76.53	215.88		
Rng	21.67	21.67		
Med	81.88	232.20		
Mean	86.39	227.69		
StDev	8.99	8.99		
CV	0.10	0.04		
Count	7	7		
DLF-MW4B				
Max	139.68	192.36		
Min	116.10	168.78		
Rng	23.58	23.58		
Med	118.42	190.05		
Mean	123.50	184.96		
StDev	9.13	9.13		
CV	0.07	0.05		
Count	8	8		
DLF-MW4C				
Max	179.69	173.93		
Min	134.51	128.75		
Rng	45.18	45.18		
Med	170.73	137.71		
Mean	166.20	142.24		
StDev	12.39	12.39		
CV	0.07	0.09		
Count	45	45		
DLF-MW5A				
Max	121.80	260.74		
Min	55.44	194.38		
Rng	66.36	66.36		
Med	117.69	198.50		
Mean	102.06	214.12		
StDev	22.66	22.66		
CV	0.22	0.11		
Count	20	20		
DLF-MW5B				
Max	152.51	209.55		
Min	106.59	163.63		
Rng	45.92	45.92		
Med	127.66	188.48		
Mean	129.36	186.78		
StDev	17.02	17.02		
CV	0.13	0.09		
Count	13	13		
DLF-MW5C				
Max	165.03	209.75		
Min	106.54	151.26		
Rng	58.49	58.49		
Med	156.78	159.51		
Mean	146.51	169.78		
StDev	19.58	19.58		
CV	0.13	0.12		
Count	27	27		

Table 4-4
Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v
DLF-MW6A				
Max	100.70	220.78		
Min	81.81	201.89		
Rng	18.89	18.89		
Med	93.10	209.49		
Mean	91.57	211.02		
StDev	5.85	5.85		
CV	0.06	0.03		
Count	23	23		
DLF-MW6B				
Max	114.67	207.04		
Min	95.73	188.10		
Rng	18.94	18.94		
Med	107.24	195.53		
Mean	106.41	196.36		
StDev	4.51	4.51		
CV	0.04	0.02		
Count	79	79		
DLF-MW6C				
Max	128.61	201.24		
Min	101.20	173.83		
Rng	27.41	27.41		
Med	112.12	190.32		
Mean	111.47	190.97		
StDev	4.57	4.57		
CV	0.04	0.02		
Count	81	81		
DLF-MW6D				
Max	129.36	200.70		
Min	101.64	172.98		
Rng	27.72	27.72		
Med	112.39	189.96		
Mean	112.01	190.33		
StDev	4.80	4.80		
CV	0.04	0.03		
Count	82	82		
ELK-MW1				
Max	80.20	264.56		
Min	42.43	231.63		
Rng	37.77	32.93		
Med	76.19	235.64		
Mean	71.41	239.15		
StDev	10.79	8.95		
CV	0.15	0.04		
Count	23	23		
ELK-MW2B				
Max	76.84	266.89		
Min	41.43	231.48		
Rng	35.41	35.41		
Med	67.88	240.45		
Mean	65.75	242.57		
StDev	9.11	9.11		
CV	0.14	0.04		
Count	18	18		
ELK-MW3B				
Max	63.36	275.08		
Min	36.00	250.69		
Rng	27.36	24.39		
Med	58.79	255.26		
Mean	54.22	258.64		
StDev	9.31	8.01		
CV	0.17	0.03		
Count	15	15		
ELK-MW4				
Max	32.31	288.85		
Min	25.83	282.37		
Rng	6.48	6.48		
Med	29.07	285.61		
Mean	29.07	285.61		
StDev	4.58	4.58		
CV	0.16	0.02		
Count	2	2		
ZZI-MW1A				
Max	44.61	206.68		
Min	41.66	203.73		
Rng	2.95	2.95		
Med	43.29	205.05		
Mean	43.29	205.05		
StDev	0.50	0.50		
CV	0.01	0.00		
Count	46	46		
ZZI-MW1B				
Max	105.77	149.07		
Min	99.41	142.71		
Rng	6.36	6.36		
Med	103.53	144.96		
Mean	103.35	145.13		
StDev	2.34	2.34		
CV	0.02	0.02		
Count	8	8		
ZZI-MW1C				
Max	125.94	149.15		
Min	99.35	122.56		
Rng	26.59	26.59		
Med	112.78	135.72		
Mean	113.25	135.25		
StDev	7.46	7.46		
CV	0.07	0.06		
Count	71	71		
ZZI-MW1D				
Max	127.12	149.09		
Min	99.39	121.36		
Rng	27.73	27.73		
Med	112.71	135.77		
Mean	113.49	134.99		
StDev	7.85	7.85		
CV	0.07	0.06		
Count	73	73		

Table 4-4
Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v
ZZI-MW2A				
Max	46.81	209.67		
Min	36.95	199.81		
Rng	9.86	9.86		
Med	40.39	206.23		
Mean	40.68	205.94		
StDev	1.37	1.37		
CV	0.03	0.01		
Count	70	70		
ZZI-MW2C				
Max	125.55	149.30		
Min	97.58	121.33		
Rng	27.97	27.97		
Med	109.79	137.10		
Mean	111.50	135.38		
StDev	7.82	7.82		
CV	0.07	0.06		
Count	80	80		
ZZI-MW2D				
Max	131.50	149.42		
Min	97.45	115.37		
Rng	34.05	34.05		
Med	110.60	136.28		
Mean	111.96	134.91		
StDev	8.10	8.10		
CV	0.07	0.06		
Count	82	82		
ZZI-MW3A				
Max	26.34	227.57		
Min	21.56	222.79		
Rng	4.78	4.78		
Med	24.69	224.44		
Mean	24.69	224.44		
StDev	0.78	0.78		
CV	0.03	0.00		
Count	61	61		
ZZI-MW3AA				
Max	25.00	223.84		
Min	25.00	223.84		
Rng	0.00	0.00		
Med	25.00	223.84		
Mean	25.00	223.84		
StDev	N/A	N/A		
CV	N/A	N/A		
Count	1	1		
ZZI-MW3B				
Max	129.50	147.27		
Min	101.66	119.43		
Rng	27.84	27.84		
Med	114.37	134.57		
Mean	116.06	132.87		
StDev	7.38	7.38		
CV	0.06	0.06		
Count	80	80		
ZZI-MW5A				
Max	70.10	176.60		
Min	70.10	176.60		
Rng	0.00	0.00		
Med	70.10	176.60		
Mean	70.10	176.60		
StDev	N/A	N/A		
CV	N/A	N/A		
Count	1	1		
ZZI-MW5C				
Max	119.88	142.79		
Min	104.64	127.55		
Rng	15.24	15.24		
Med	115.10	132.33		
Mean	114.63	132.80		
StDev	3.68	3.68		
CV	0.03	0.03		
Count	41	41		
ZZI-MW5D				
Max	129.30	142.36		
Min	104.85	117.91		
Rng	24.45	24.45		
Med	121.04	126.18		
Mean	120.10	127.11		
StDev	6.09	6.09		
CV	0.05	0.05		
Count	80	80		
ZZI-MW6B				
Max	90.01	158.69		
Min	90.01	158.69		
Rng	0.00	0.00		
Med	90.01	158.69		
Mean	90.01	158.69		
StDev	N/A	N/A		
CV	N/A	N/A		
Count	1	1		
ZZI-MW6C				
Max	109.93	143.34		
Min	105.34	138.75		
Rng	4.59	4.59		
Med	107.13	141.55		
Mean	107.47	141.21		
StDev	1.21	1.21		
CV	0.01	0.01		
Count	22	22		
ZZI-MW6D				
Max	135.34	141.72		
Min	106.98	113.36		
Rng	28.36	28.36		
Med	121.57	127.13		
Mean	122.57	126.13		
StDev	6.71	6.71		
CV	0.05	0.05		
Count	78	78		

Table 4-4
Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v
ZZI-MW7B				
Max	111.86	145.17		
Min	101.30	134.61		
Rng	10.56	10.56		
Med	109.41	137.06		
Mean	108.48	137.99		
StDev	3.01	3.01		
CV	0.03	0.02		
Count	27	27		
ZZI-MW7C				
Max	127.23	145.12		
Min	101.38	119.27		
Rng	25.85	25.85		
Med	114.43	132.07		
Mean	115.41	131.09		
StDev	6.26	6.26		
CV	0.05	0.05		
Count	74	74		
ZZI-MW7D				
Max	134.91	145.11		
Min	101.41	111.61		
Rng	33.50	33.50		
Med	116.84	129.68		
Mean	116.70	129.82		
StDev	7.34	7.34		
CV	0.06	0.06		
Count	81	81		
ZZI-MW9C				
Max	113.75	151.61		
Min	94.51	132.37		
Rng	19.24	19.24		
Med	104.41	141.71		
Mean	104.24	141.88		
StDev	5.53	5.53		
CV	0.05	0.04		
Count	57	57		
ZZI-MW9D				
Max	129.55	151.88		
Min	94.10	116.43		
Rng	35.45	35.45		
Med	107.90	138.09		
Mean	109.24	136.74		
StDev	8.53	8.53		
CV	0.08	0.06		
Count	82	82		
HOL-MW1				
Max	137.54	99.43		
Min	116.43	78.32		
Rng	21.11	21.11		
Med	132.07	83.79		
Mean	129.97	85.89		
StDev	6.26	6.26		
CV	0.05	0.07		
Count	45	45		

Well ID	DTW	GWE	dh	i_v
HOL-MW2				
Max	136.74	98.98		
Min	115.71	77.95		
Rng	21.03	21.03		
Med	130.44	84.25		
Mean	128.85	85.84		
StDev	6.28	6.28		
CV	0.05	0.07		
Count	41	41		
HOL-MW3				
Max	135.81	98.41		
Min	115.28	77.88		
Rng	20.53	20.53		
Med	127.39	86.31		
Mean	125.78	87.91		
StDev	6.09	6.09		
CV	0.05	0.07		
Count	20	20		
HYN-MW3				
Max	136.68	146.95		
Min	129.80	140.07		
Rng	6.88	6.88		
Med	132.75	144.01		
Mean	133.10	143.65		
StDev	2.66	2.66		
CV	0.02	0.02		
Count	6	6		
HYN-MW4				
Max	136.04	150.63		
Min	129.20	143.79		
Rng	6.84	6.84		
Med	131.99	147.85		
Mean	132.52	147.31		
StDev	2.80	2.80		
CV	0.02	0.02		
Count	6	6		
HYN-MW5				
Max	135.89	154.67		
Min	127.69	146.47		
Rng	8.20	8.20		
Med	131.42	150.94		
Mean	131.25	151.11		
StDev	3.13	3.13		
CV	0.02	0.02		
Count	7	7		
JAD-MW1				
Max	65.24	217.00		
Min	52.78	204.54		
Rng	12.46	12.46		
Med	60.12	209.67		
Mean	59.82	209.96		
StDev	4.35	4.35		
CV	0.07	0.02		
Count	12	12		

Table 4-4
Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v
JAD-MW2				
Max	72.58	212.44		
Min	60.73	200.59		
Rng	11.85	11.85		
Med	64.55	208.62		
Mean	65.81	207.36		
StDev	4.27	4.27		
CV	0.06	0.02		
Count	9	9		
JAD-MW3				
Max	70.52	223.75		
Min	45.01	198.24		
Rng	25.51	25.51		
Med	63.56	205.20		
Mean	61.24	207.52		
StDev	7.31	7.31		
CV	0.12	0.04		
Count	45	45		
JAD-MW4s				
Max	62.48	210.21	0.13	0.01
Min	53.31	201.04	-0.08	-0.01
Rng	9.17	9.17	0.21	0.01
Med	59.01	204.51	0	0
Mean	57.83	205.69	0.03	0.00
StDev	3.35	3.35	0.06	0.00
CV	0.06	0.02	2.15	2.15
Count	13	13	13	13
JAD-MW4d				
Max	77.52	210.27		
Min	53.11	185.86		
Rng	24.41	24.41		
Med	68.43	194.95		
Mean	67.52	195.86		
StDev	6.37	6.37		
CV	0.09	0.03		
Count	59	59		
JAD-MW5s				
Max	82.31	207.68		
Min	60.00	185.37		
Rng	22.31	22.31		
Med	71.32	196.36		
Mean	71.97	195.71		
StDev	5.30	5.30		
CV	0.07	0.03		
Count	57	57		
JAD-MW6s				
Max	72.05	210.45	2.09	0.09
Min	60.49	198.89	-0.06	-0.00
Rng	11.56	11.56	2.15	0.09
Med	67.29	203.65	0.95	0.04
Mean	66.95	203.99	0.85	0.04
StDev	3.79	3.79	0.54	0.02
CV	0.06	0.02	0.64	0.64
Count	19	19	19	19

Well ID	DTW	GWE	dh	i_v
JAD-MW6d				
Max	95.89	209.93		
Min	60.95	174.99		
Rng	34.94	34.94		
Med	78.85	192.03		
Mean	79.14	191.74		
StDev	9.06	9.06		
CV	0.11	0.05		
Count	77	77		
JAD-MW7s				
Max	67.11	210.99	0.49	0.03
Min	61.73	205.61	0.33	0.02
Rng	5.38	5.38	0.16	0.01
Med	64.14	208.58	0.40	0.02
Mean	64.25	208.47	0.40	0.02
StDev	2.22	2.22	0.06	0.00
CV	0.03	0.01	0.15	0.15
Count	5	5	5	5
JAD-MW7d				
Max	82.13	210.50		
Min	62.01	190.38		
Rng	20.12	20.12		
Med	75.07	197.44		
Mean	74.04	198.47		
StDev	5.54	5.54		
CV	0.07	0.03		
Count	34	34		
LON-MW1B				
Max	113.30	124.92		
Min	94.62	106.24		
Rng	18.68	18.68		
Med	108.07	111.47		
Mean	106.11	113.43		
StDev	5.47	5.47		
CV	0.05	0.05		
Count	41	41		
LON-MW1C				
Max	122.16	124.52		
Min	94.84	97.20		
Rng	27.32	27.32		
Med	112.10	107.26		
Mean	111.04	108.32		
StDev	6.90	6.90		
CV	0.06	0.06		
Count	81	81		
LON-MW2A				
Max	85.40	133.40		
Min	85.40	133.40		
Rng	0.00	0.00		
Med	85.40	133.40		
Mean	85.40	133.40		
StDev	N/A	N/A		
CV	N/A	N/A		
Count	1	1		

Table 4-4
Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v
LON-MW2B				
Max	106.36	124.29		
Min	94.61	112.54		
Rng	11.75	11.75		
Med	102.43	116.48		
Mean	101.49	117.41		
StDev	3.68	3.68		
CV	0.04	0.03		
Count	22	22		
LON-MW2C				
Max	122.96	124.02		
Min	94.71	95.77		
Rng	28.25	28.25		
Med	111.45	107.28		
Mean	110.72	108.01		
StDev	6.71	6.71		
CV	0.06	0.06		
Count	83	83		
LON-MW3B				
Max	122.93	123.52		
Min	95.44	96.03		
Rng	27.49	27.49		
Med	112.19	106.77		
Mean	111.46	107.50		
StDev	6.75	6.75		
CV	0.06	0.06		
Count	79	79		
LON-MW3C				
Max	121.88	123.47		
Min	95.18	96.77		
Rng	26.70	26.70		
Med	111.90	106.75		
Mean	111.07	107.58		
StDev	6.63	6.63		
CV	0.06	0.06		
Count	82	82		
LON-MW4A				
Max	87.51	133.50		
Min	87.44	133.43		
Rng	0.07	0.07		
Med	87.48	133.47		
Mean	87.48	133.47		
StDev	0.05	0.05		
CV	0.00	0.00		
Count	2	2		
LON-MW4B				
Max	108.98	126.27		
Min	95.30	112.59		
Rng	13.68	13.68		
Med	103.75	117.83		
Mean	102.68	118.89		
StDev	4.28	4.28		
CV	0.04	0.04		
Count	20	20		

Well ID	DTW	GWE	dh	i_v
LON-MW4C				
Max	123.34	125.74		
Min	95.66	98.06		
Rng	27.68	27.68		
Med	115.07	106.34		
Mean	112.87	108.53		
StDev	6.86	6.86		
CV	0.06	0.06		
Count	80	80		
LON-MW4D				
Max	126.91	125.53		
Min	95.66	94.28		
Rng	31.25	31.25		
Med	115.04	106.15		
Mean	112.97	108.22		
StDev	7.08	7.08		
CV	0.06	0.07		
Count	81	81		
LON-MW5A				
Max	93.76	128.88		
Min	93.76	128.88		
Rng	0.00	0.00		
Med	93.76	128.88		
Mean	93.76	128.88		
StDev	N/A	N/A		
CV	N/A	N/A		
Count	1	1		
LON-MW5B				
Max	108.15	121.70		
Min	100.66	114.21		
Rng	7.49	7.49		
Med	103.63	118.73		
Mean	103.97	118.39		
StDev	2.77	2.77		
CV	0.03	0.02		
Count	7	7		
LON-MW5C				
Max	127.37	121.24		
Min	100.84	94.71		
Rng	26.53	26.53		
Med	121.17	100.91		
Mean	118.84	103.24		
StDev	6.59	6.59		
CV	0.06	0.06		
Count	81	81		
LON-MW6B				
Max	108.96	119.75		
Min	103.91	114.70		
Rng	5.05	5.05		
Med	106.05	117.61		
Mean	106.40	117.26		
StDev	1.99	1.99		
CV	0.02	0.02		
Count	5	5		

Table 4-4
Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v
LON-MW6C				
Max	129.66	119.77		
Min	103.71	93.82		
Rng	25.95	25.95		
Med	123.70	99.78		
Mean	121.58	101.90		
StDev	6.17	6.17		
CV	0.05	0.06		
Count	78	78		
LON-MW7A				
Max	51.71	178.24		
Min	42.29	168.82		
Rng	9.42	9.42		
Med	47.71	172.82		
Mean	47.79	172.74		
StDev	2.00	2.00		
CV	0.04	0.01		
Count	21	21		
LON-MW7B				
Max	78.48	144.29		
Min	76.41	142.22		
Rng	2.07	2.07		
Med	77.56	143.14		
Mean	77.50	143.20		
StDev	0.95	0.95		
CV	0.01	0.01		
Count	5	5		
LON-MW7C				
Max	96.86	133.84		
Min	86.69	123.67		
Rng	10.17	10.17		
Med	94.27	126.26		
Mean	93.91	126.62		
StDev	1.85	1.85		
CV	0.02	0.01		
Count	33	33		
LON-MW7D				
Max	121.24	124.58		
Min	95.71	99.05		
Rng	25.53	25.53		
Med	112.90	107.39		
Mean	111.49	108.80		
StDev	6.50	6.50		
CV	0.06	0.06		
Count	79	79		
ADO-MW1s				
Max	92.62	176.93	0.22	0.01
Min	77.01	161.32	0	0
Rng	15.61	15.61	0.22	0.01
Med	88.15	165.79	0	0
Mean	85.96	167.98	0.03	0.00
StDev	4.88	4.88	0.06	0.00
CV	0.06	0.03	1.89	1.89
Count	19	19	19	19

Well ID	DTW	GWE	dh	i_v
ADO-MW1d				
Max	103.72	176.91		
Min	77.00	150.19		
Rng	26.72	26.72		
Med	95.66	158.26		
Mean	94.10	159.81		
StDev	6.21	6.21		
CV	0.07	0.04		
Count	70	70		
ADO-MW2s				
Max	90.95	176.54	1.55	0.08
Min	77.45	163.04	-0.14	-0.01
Rng	13.50	13.50	1.69	0.09
Med	88.36	165.63	0	0
Mean	85.44	168.55	0.09	0.00
StDev	4.83	4.83	0.39	0.02
CV	0.06	0.03	4.25	4.25
Count	16	16	16	16
ADO-MW2d				
Max	104.00	176.68		
Min	77.34	150.02		
Rng	26.66	26.66		
Med	96.18	157.85		
Mean	94.95	159.07		
StDev	6.13	6.13		
CV	0.06	0.04		
Count	74	74		
MAL-MW1				
Max	18.59	193.33		
Min	12.19	186.93		
Rng	6.40	6.40		
Med	15.85	189.67		
Mean	15.63	189.89		
StDev	1.83	1.83		
CV	0.12	0.01		
Count	83	83		
MAL-MW2				
Max	13.20	195.26		
Min	8.33	190.39		
Rng	4.87	4.87		
Med	11.89	191.70		
Mean	11.50	192.09		
StDev	1.20	1.20		
CV	0.10	0.01		
Count	83	83		
MAL-MW3				
Max	13.34	194.92		
Min	8.00	189.58		
Rng	5.34	5.34		
Med	10.15	192.77		
Mean	10.14	192.78		
StDev	0.99	0.99		
CV	0.10	0.01		
Count	77	77		

Table 4-4
Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v
MAL-MW4				
Max	13.93	194.80		
Min	8.87	189.74		
Rng	5.06	5.06		
Med	12.47	191.20		
Mean	12.05	191.62		
StDev	1.21	1.21		
CV	0.10	0.01		
Count	80	80		
MAL-MW5				
Max	11.41	195.47		
Min	7.00	191.06		
Rng	4.41	4.41		
Med	10.31	192.16		
Mean	10.01	192.46		
StDev	0.91	0.91		
CV	0.09	0.00		
Count	83	83		
MAL-MW6				
Max	9.23	198.28		
Min	2.86	191.91		
Rng	6.37	6.37		
Med	7.81	193.33		
Mean	7.59	193.55		
StDev	1.10	1.10		
CV	0.14	0.01		
Count	83	83		
MAL-MW7				
Max	9.99	195.82		
Min	4.11	189.94		
Rng	5.88	5.88		
Med	6.90	193.03		
Mean	6.71	193.22		
StDev	1.13	1.13		
CV	0.17	0.01		
Count	82	82		
MAL-MW8				
Max	14.12	197.92		
Min	1.98	185.78		
Rng	12.14	12.14		
Med	5.12	194.78		
Mean	5.19	194.71		
StDev	1.50	1.50		
CV	0.29	0.01		
Count	83	83		
MAP-MW8				
Max	99.15	148.71		
Min	93.92	143.48		
Rng	5.23	5.23		
Med	94.11	148.52		
Mean	95.22	147.41		
StDev	1.82	1.82		
CV	0.02	0.01		
Count	9	9		
MAP-MW10				
Max	99.39	157.43		
Min	87.22	145.26		
Rng	12.17	12.17		
Med	93.51	151.14		
Mean	93.10	151.55		
StDev	2.48	2.48		
CV	0.03	0.02		
Count	77	77		
ZON-MW1A				
Max	14.10	237.51		
Min	6.00	229.41		
Rng	8.10	8.10		
Med	10.26	233.25		
Mean	10.50	233.01		
StDev	1.79	1.79		
CV	0.17	0.01		
Count	77	77		
ZON-MW1C				
Max	106.67	142.34		
Min	101.27	136.94		
Rng	5.40	5.40		
Med	103.79	139.82		
Mean	103.75	139.86		
StDev	0.85	0.85		
CV	0.01	0.01		
Count	23	23		
ZON-MW2A				
Max	98.50	151.79		
Min	92.78	146.07		
Rng	5.72	5.72		
Med	94.07	150.51		
Mean	94.61	149.96		
StDev	1.70	1.70		
CV	0.02	0.01		
Count	16	16		
ZON-MW2B				
Max	127.42	143.95		
Min	100.45	116.98		
Rng	26.97	26.97		
Med	117.50	126.91		
Mean	117.08	127.32		
StDev	6.06	6.06		
CV	0.05	0.05		
Count	54	54		
ZON-MW3A				
Max	97.36	148.96		
Min	96.63	148.23		
Rng	0.73	0.73		
Med	97.28	148.31		
Mean	97.09	148.50		
StDev	0.40	0.40		
CV	0.00	0.00		
Count	3	3		

Table 4-4
Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v
ZON-MW3B				
Max	127.40	142.84		
Min	102.64	118.08		
Rng	24.76	24.76		
Med	121.08	124.40		
Mean	119.83	125.65		
StDev	5.18	5.18		
CV	0.04	0.04		
Count	77	77		
ZON-MW4B				
Max	137.48	135.59		
Min	109.41	107.52		
Rng	28.07	28.07		
Med	131.80	113.20		
Mean	129.71	115.29		
StDev	5.94	5.94		
CV	0.05	0.05		
Count	61	61		
ZON-MW5A				
Max	102.07	148.93		
Min	96.71	143.57		
Rng	5.36	5.36		
Med	98.37	147.28		
Mean	98.71	146.93		
StDev	2.07	2.07		
CV	0.02	0.01		
Count	6	6		
ZON-MW5B				
Max	137.61	145.07		
Min	100.39	107.85		
Rng	37.22	37.22		
Med	130.76	114.70		
Mean	128.61	116.85		
StDev	7.98	7.98		
CV	0.06	0.07		
Count	68	68		
RIC-MW1				
Max	16.91	307.10		
Min	12.00	302.19		
Rng	4.91	4.91		
Med	14.85	304.25		
Mean	14.69	304.41		
StDev	1.24	1.24		
CV	0.08	0.00		
Count	82	82		
RIC-MW2				
Max	11.81	308.08		
Min	9.11	305.38		
Rng	2.70	2.70		
Med	10.80	306.39		
Mean	10.73	306.46		
StDev	0.67	0.67		
CV	0.06	0.00		
Count	17	17		
RIC-MW3				
Max	13.12	304.68		
Min	6.77	298.33		
Rng	6.35	6.35		
Med	9.81	301.65		
Mean	10.02	301.43		
StDev	1.79	1.79		
CV	0.18	0.01		
Count	82	82		
RIC-MW4				
Max	14.66	306.07		
Min	5.13	296.54		
Rng	9.53	9.53		
Med	8.43	302.77		
Mean	8.65	302.55		
StDev	1.95	1.95		
CV	0.23	0.01		
Count	70	70		
RIC-MW5				
Max	18.80	307.78		
Min	10.98	299.96		
Rng	7.82	7.82		
Med	15.18	303.58		
Mean	15.25	303.51		
StDev	2.29	2.29		
CV	0.15	0.01		
Count	81	81		
RIC-MW6				
Max	17.22	310.38		
Min	8.64	301.80		
Rng	8.58	8.58		
Med	13.46	305.56		
Mean	13.33	305.69		
StDev	2.41	2.41		
CV	0.18	0.01		
Count	68	68		
RIC-MW7s				
Max	15.76	309.07	1.19	0.06
Min	10.61	303.92	-0.34	-0.02
Rng	5.15	5.15	1.53	0.08
Med	13.49	306.20	0.06	0.00
Mean	13.53	306.15	0.09	0.00
StDev	1.09	1.09	0.19	0.01
CV	0.08	0.00	2.14	2.14
Count	82	82	82	82
RIC-MW7d				
Max	15.78	308.26		
Min	11.32	303.80		
Rng	4.46	4.46		
Med	13.43	306.15		
Mean	13.53	306.05		
StDev	1.04	1.04		
CV	0.08	0.00		
Count	82	82		

Table 4-4
Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v	Well ID	DTW	GWE	dh	i_v
RIC-MW8s					SIE-MW3				
Max	16.57	302.35	0.49	0.03	Max	123.07	209.18		
Min	12.68	298.46	-0.56	-0.03	Min	87.42	173.53		
Rng	3.89	3.89	1.05	0.06	Rng	35.65	35.65		
Med	14.51	300.53	0	0	Med	103.96	192.65		
Mean	14.63	300.40	0.03	0.00	Mean	103.85	192.75		
StDev	0.88	0.88	0.12	0.01	StDev	9.97	9.97		
CV	0.06	0.00	4.06	4.06	CV	0.10	0.05		
Count	82	82	81	81	Count	68	68		
RIC-MW8d					SIE-MW4				
Max	16.44	302.28			Max	126.47	192.11		
Min	12.63	298.47			Min	108.51	174.15		
Rng	3.81	3.81			Rng	17.96	17.96		
Med	14.40	300.51			Med	110.24	190.38		
Mean	14.53	300.38			Mean	115.98	184.64		
StDev	0.84	0.84			StDev	8.93	8.93		
CV	0.06	0.00			CV	0.08	0.05		
Count	81	81			Count	5	5		
RIC-MW9s					SO2-MW1				
Max	14.71	303.94	2.63	0.13	Max	70.62	208.96		
Min	7.74	296.97	0	0	Min	65.51	203.85		
Rng	6.97	6.97	2.63	0.13	Rng	5.11	5.11		
Med	11.06	300.62	1.27	0.06	Med	67.92	206.55		
Mean	10.94	300.74	1.27	0.06	Mean	68.17	206.30		
StDev	1.61	1.61	0.58	0.03	StDev	2.12	2.12		
CV	0.15	0.01	0.46	0.46	CV	0.03	0.01		
Count	82	82	82	82	Count	5	5		
RIC-MW9d					SO2-MW2				
Max	15.13	301.97			Max	72.50	210.37		
Min	9.68	296.52			Min	62.11	199.98		
Rng	5.45	5.45			Rng	10.39	10.39		
Med	12.20	299.45			Med	69.72	202.76		
Mean	12.19	299.46			Mean	68.51	203.97		
StDev	1.37	1.37			StDev	3.89	3.89		
CV	0.11	0.00			CV	0.06	0.02		
Count	82	82			Count	14	14		
SIE-MW1					SO2-MW3				
Max	122.83	215.97			Max	68.21	207.28		
Min	78.04	171.18			Min	66.81	205.88		
Rng	44.79	44.79			Rng	1.40	1.40		
Med	87.15	206.86			Med	67.51	206.58		
Mean	88.77	205.24			Mean	67.51	206.58		
StDev	8.99	8.99			StDev	0.99	0.99		
CV	0.10	0.04			CV	0.01	0.00		
Count	78	78			Count	2	2		
SIE-MW2					SO2-MW4				
Max	105.36	194.87			Max	73.42	204.86		
Min	100.37	189.88			Min	67.81	199.25		
Rng	4.99	4.99			Rng	5.61	5.61		
Med	103.28	191.96			Med	70.84	201.84		
Mean	103.05	192.19			Mean	70.73	201.95		
StDev	1.83	1.83			StDev	2.39	2.39		
CV	0.02	0.01			CV	0.03	0.01		
Count	10	10			Count	4	4		

Table 4-4
Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v
SO2-MW5s				
Max	90.14	205.61	2.10	0.12
Min	63.45	178.92	-0.32	-0.02
Rng	26.69	26.69	2.42	0.14
Med	77.82	191.24	0.03	0.00
Mean	79.23	189.83	0.14	0.01
StDev	7.64	7.64	0.40	0.02
CV	0.10	0.04	2.79	2.79
Count	30	30	30	30
SO2-MW5d				
Max	101.90	205.43		
Min	63.38	166.91		
Rng	38.52	38.52		
Med	86.19	182.62		
Mean	84.02	184.79		
StDev	9.85	9.85		
CV	0.12	0.05		
Count	43	43		
SO2-MW6s				
Max	85.41	204.95	1.52	0.09
Min	62.26	181.80	-0.06	-0.00
Rng	23.15	23.15	1.58	0.09
Med	74.68	192.53	0.10	0.01
Mean	73.84	193.37	0.19	0.01
StDev	6.30	6.30	0.32	0.02
CV	0.09	0.03	1.71	1.71
Count	21	21	21	21
SO2-MW6d				
Max	95.81	204.83		
Min	62.25	171.27		
Rng	33.56	33.56		
Med	85.04	182.04		
Mean	82.84	184.24		
StDev	9.90	9.90		
CV	0.12	0.05		
Count	45	45		
SO2-MW7s				
Max	73.61	208.12	0.53	0.04
Min	60.52	195.03	-0.06	-0.00
Rng	13.09	13.09	0.59	0.04
Med	72.22	196.42	0.03	0.00
Mean	68.86	199.78	0.09	0.01
StDev	5.03	5.03	0.15	0.01
CV	0.07	0.03	1.64	1.64
Count	14	14	14	14
SO2-MW7d				
Max	87.51	208.18		
Min	60.36	181.03		
Rng	27.15	27.15		
Med	74.22	194.32		
Mean	76.01	192.53		
StDev	8.14	8.14		
CV	0.11	0.04		
Count	30	30		
SO2-MW8d				
Max	88.26	206.89		
Min	65.51	184.14		
Rng	22.75	22.75		
Med	78.79	193.61		
Mean	77.59	194.81		
StDev	6.70	6.70		
CV	0.09	0.03		
Count	21	21		
SOJ-MW5s				
Max	87.30	205.05	0.05	0.00
Min	77.46	195.21	0	0
Rng	9.84	9.84	0.05	0.00
Med	81.02	201.49	0	0
Mean	81.36	201.15	0.01	0.00
StDev	3.83	3.83	0.02	0.00
CV	0.05	0.02	2.45	2.45
Count	6	6	6	6
SOJ-MW5d				
Max	108.39	205.06		
Min	77.44	174.11		
Rng	30.95	30.95		
Med	99.71	182.79		
Mean	97.82	184.68		
StDev	7.35	7.35		
CV	0.08	0.04		
Count	55	55		
SOJ-MW6s				
Max	86.13	205.71	0.29	0.01
Min	76.11	195.69	0.07	0.00
Rng	10.02	10.02	0.22	0.01
Med	79.79	202.04	0.18	0.01
Mean	80.06	201.77	0.18	0.01
StDev	3.89	3.89	0.07	0.00
CV	0.05	0.02	0.39	0.39
Count	6	6	6	6
SOJ-MW6d				
Max	107.67	205.53		
Min	76.13	173.99		
Rng	31.54	31.54		
Med	98.58	183.09		
Mean	96.43	185.24		
StDev	7.65	7.65		
CV	0.08	0.04		
Count	54	54		

Table 4-4
Summary Statistics of Depth-to-Water Data and Derived Information through 2019

Well ID	DTW	GWE	dh	i_v	Well ID	DTW	GWE	dh	i_v

Summary statistics are based on data in Table 5-4.
DTW = Depth to water in feet below the top of casing
GWE = Groundwater level elevations in NAVD88
dh = Hydraulic Head Differences in feet
i_V = Vertical gradient; calculated based on the hydraulic head difference and the distance between the midpoints of the shallow and deep well screens.
Max = Maximum value over period of record
Min = Minimum value over period of record
Rng = Range of values over period of record
Med = Median of values over period of record
Mean = Mean of values over period of record
StDev = Standard Deviation of values over period of record
CV = Coefficient of Variation of values over period of record
Count = Count of values over period of record
N/A = Not Applicable

Data sets of dh, that contain assigned zero-values in recognition of the precision of DTW measurements (see Table 5-4), may exhibit a "0" for any of the summary statistics except the coefficient of variation. In these cases, i_v = 0, too. Summary statistics that can be computed with confidence but are too near to zero to be expressed with two decimals, are expressed as 0.00 or -0.00.

Table 4-5
Summary Statistics of Apparent Horizontal Gradient through 2019

		-----2019-----							-----Through 2018-----						
Well Pair	Up/Down Gradient Wells	Count*	Min	Max	Std Dev	Mean	Median	CV	Count*	Min	Max	Std Dev	Mean	Median	CV
MEN1	MEN-MW7 MEN-MW6	10	2.0E-04	6.7E-04	1.2E-04	3.9E-04	3.8E-04	0.31	66	2.6E-04	1.3E-03	2.3E-04	6.0E-04	5.9E-04	0.38
MEN2	MEN-MW7 MEN-MW5	11	1.1E-03	2.5E-03	4.2E-04	1.7E-03	1.5E-03	0.26	77	2.9E-04	4.1E-03	8.4E-04	1.8E-03	1.7E-03	0.46
ANC1	ANC-MW7 ANC-MW3	10	3.6E-04	1.1E-03	2.3E-04	6.1E-04	5.7E-04	0.37	75	2.1E-04	1.9E-03	3.7E-04	9.3E-04	8.9E-04	0.40
BET1	BET-MW5 BET-MW4	11	2.6E-04	3.8E-03	1.5E-03	1.8E-03	1.0E-03	0.85	81	1.4E-04	6.4E-03	1.4E-03	2.3E-03	2.0E-03	0.61
BET2	BET-MW5 BET-MW8	12	4.5E-04	1.1E-03	2.1E-04	8.8E-04	9.1E-04	0.23	30	5.4E-04	3.6E-03	5.3E-04	1.0E-03	9.3E-04	0.52
DIE1	DIE-MW4 DIE-MW2								27	1.9E-03	5.0E-03	8.8E-04	3.7E-03	4.0E-03	0.24
DIE2	DIE-MW1 DIE-MW3	12	5.3E-03	8.8E-03	1.2E-03	7.4E-03	7.4E-03	0.16	28	4.8E-03	1.4E-02	2.3E-03	1.0E-02	1.1E-02	0.22
DIE3	DIE-MW1 DIE-MW2	12	4.8E-03	8.4E-03	1.3E-03	6.6E-03	6.5E-03	0.19	32	1.1E-03	1.1E-02	2.4E-03	7.8E-03	7.9E-03	0.31
DUR1	DUR-MW9 DUR-MW2	12	7.5E-04	2.9E-03	8.8E-04	1.7E-03	1.7E-03	0.51	62	6.2E-04	3.9E-03	8.5E-04	1.9E-03	2.0E-03	0.44
FG11	FG1-MW6 FG1-MW5	7	2.8E-04	1.4E-03	4.7E-04	7.5E-04	4.6E-04	0.62	59	2.2E-04	4.5E-03	8.6E-04	1.1E-03	7.1E-04	0.80
FG12	FG1-MW6 FG1-MW3	6	4.5E-04	1.3E-03	3.0E-04	8.1E-04	7.7E-04	0.37	59	2.6E-04	2.8E-03	4.6E-04	7.4E-04	6.1E-04	0.61
BEA1	BEA-MW2 BEA-MW4	4	1.6E-03	3.4E-03	8.5E-04	2.2E-03	1.8E-03	0.40	45	1.0E-03	4.1E-03	1.1E-03	2.6E-03	2.4E-03	0.41
BEA2	BEA-MW1 BEA-MW4	9	1.4E-03	3.2E-03	6.8E-04	2.2E-03	2.1E-03	0.31	35	9.2E-04	4.3E-03	7.8E-04	2.5E-03	2.4E-03	0.31
COT1	COT-MW9 COT-MW1								19	1.0E-03	2.8E-03	5.0E-04	2.1E-03	2.2E-03	0.23
COT2	COT-MW6 COT-MW1								8	8.3E-04	1.8E-03	4.4E-04	1.4E-03	1.4E-03	0.33
COT3	COT-MW13 COT-MW1	9	2.6E-03	3.6E-03	3.6E-04	3.0E-03	2.9E-03	0.12	52	2.5E-04	4.1E-03	1.0E-03	2.6E-03	2.6E-03	0.38
COT4	COT-MW3 SAN-MW5								24	1.7E-03	5.7E-03	1.2E-03	3.0E-03	2.6E-03	0.40
COT5	COT-MW7 SAN-MW5	2	2.1E-03	2.5E-03	2.8E-04	2.3E-03	2.3E-03	0.12	44	1.1E-03	3.8E-03	6.9E-04	2.3E-03	2.4E-03	0.30
SAN1	SAN-MW6 SAN-MW5	12	1.9E-03	2.8E-03	2.5E-04	2.4E-03	2.4E-03	0.11	52	1.0E-03	4.3E-03	1.0E-03	2.5E-03	2.7E-03	0.40
SAN2	SAN-MW6 SAN-MW7								54	8.1E-04	4.4E-03	8.3E-04	2.0E-03	1.7E-03	0.41
GEN1	GEN-MW6 GEN-MW11	4	3.3E-04	3.7E-04	1.6E-05	3.5E-04	3.5E-04	0.05	39	2.8E-04	2.7E-03	4.4E-04	8.1E-04	8.1E-04	0.54
GEN2	GEN-MW6 GEN-MW3	2	1.6E-04	2.1E-04	3.9E-05	1.9E-04	1.9E-04	0.21	21 (1)	-1.9E-05	9.7E-04	2.5E-04	5.3E-04	5.6E-04	0.47
GEN3	GEN-MW3 GEN-MW12	5	2.8E-04	8.8E-04	2.3E-04	5.4E-04	4.7E-04	0.43	16	2.8E-04	9.3E-04	2.1E-04	6.7E-04	7.3E-04	0.32
TRO1	TRO-MW1 TRO-MW2	12	3.5E-03	5.5E-03	6.6E-04	4.8E-03	5.0E-03	0.14	42	2.0E-03	6.6E-03	1.1E-03	4.5E-03	4.5E-03	0.25
PLS1	PLS-MW3 PLS-MW2	4	5.6E-04	1.3E-03	3.4E-04	1.1E-03	1.2E-03	0.32	52	4.9E-04	1.5E-03	2.5E-04	9.8E-04	9.2E-04	0.26

Table 4-5
Summary Statistics of Apparent Horizontal Gradient through 2019

		-----2019-----							-----Through 2018-----						
Well Pair	Up/Down Gradient Wells	Count*	Min	Max	Std Dev	Mean	Median	CV	Count*	Min	Max	Std Dev	Mean	Median	CV
PLS2	PLS-MW6 PLS-MW2	12	3.6E-04	2.2E-03	5.7E-04	9.6E-04	9.2E-04	0.60	69	1.7E-04	1.7E-03	3.2E-04	1.0E-03	1.0E-03	0.31
CAE1	CAE-MW6 CAE-MW3	7	4.0E-04	9.3E-04	1.9E-04	7.7E-04	8.3E-04	0.25	81	4.1E-04	4.2E-03	1.1E-03	2.1E-03	2.0E-03	0.55
ROB1	ROB-MW1 ROB-MW4								3	6.2E-04	8.8E-04	1.3E-04	7.5E-04	7.5E-04	0.17
ROB2	ROB-MW4 ROB-MW6	8	4.0E-04	1.0E-03	2.1E-04	7.1E-04	7.1E-04	0.29	24	1.8E-04	1.6E-03	3.9E-04	8.5E-04	7.8E-04	0.46
ROB3	ROB-MW1 ROB-MW7	1	7.7E-04	7.7E-04		7.7E-04	7.7E-04		14	4.7E-04	1.1E-03	2.3E-04	7.9E-04	8.6E-04	0.29
ROB4	ROB-MW4 ROB-MW1								21	4.8E-04	4.7E-03	1.3E-03	2.5E-03	2.4E-03	0.50
WOO1	WOO-MW1 WOO-MW2	6	3.8E-04	7.4E-04	1.3E-04	5.6E-04	5.9E-04	0.24	21	2.2E-04	2.2E-03	5.3E-04	8.4E-04	7.3E-04	0.64
WOO2	WOO-MW3 WOO-MW2	11	3.3E-04	7.1E-04	1.1E-04	6.0E-04	6.1E-04	0.19	61	1.9E-04	1.3E-03	1.8E-04	6.7E-04	7.0E-04	0.27
ANT1	ANT-MW6 ANT-MW2	8	1.5E-03	2.5E-03	4.0E-04	2.0E-03	2.1E-03	0.20	75	8.6E-04	9.2E-03	1.8E-03	4.2E-03	3.9E-03	0.42
ANT2	ANT-MW1 ANT-MW2	12	1.5E-03	5.2E-03	1.2E-03	2.8E-03	2.5E-03	0.43	55	7.0E-04	1.2E-02	2.3E-03	4.3E-03	3.9E-03	0.53
COR1	COR-MW3 COR-MW1	12	9.3E-04	1.6E-03	2.1E-04	1.2E-03	1.2E-03	0.17	81	4.7E-04	1.8E-03	3.1E-04	1.1E-03	1.1E-03	0.27
FG21	FG2-MW5 FG2-MW3								27	5.3E-04	3.1E-03	7.4E-04	1.4E-03	1.1E-03	0.55
FG22	FG2-MW5 FG2-MW1	11	2.2E-03	3.9E-03	5.0E-04	3.0E-03	2.9E-03	0.17	66	4.7E-04	4.1E-03	9.7E-04	2.3E-03	2.4E-03	0.42
GOD1	GOD-MW5 GOD-MW3	7	1.3E-03	2.2E-03	3.1E-04	1.7E-03	1.7E-03	0.19	81	1.1E-03	4.2E-03	6.8E-04	2.2E-03	2.0E-03	0.31
GOD2	GOD-MW1 GOD-MW3	8	6.8E-04	2.1E-03	5.5E-04	1.2E-03	1.1E-03	0.45	58	2.8E-04	4.2E-03	1.0E-03	1.9E-03	1.8E-03	0.54
MAC1	MAC-MW2 NUN-MW1	3	2.2E-03	2.6E-03	2.0E-04	2.3E-03	2.3E-03	0.08	52	6.8E-04	3.1E-03	5.4E-04	2.0E-03	1.9E-03	0.27
MAC2	MAC-MW3 NUN-MW1	11	1.7E-03	2.4E-03	2.0E-04	1.9E-03	1.8E-03	0.11	65	9.3E-04	3.2E-03	4.4E-04	1.7E-03	1.7E-03	0.26
MOO1	MOO-MW3 MOO-MW2	12	3.0E-03	4.8E-03	6.4E-04	4.1E-03	4.2E-03	0.16	79	8.7E-04	6.9E-03	1.2E-03	4.5E-03	4.7E-03	0.28
MOO2	MOO-MW3 MOO-MW8	6	2.7E-03	2.9E-03	9.4E-05	2.8E-03	2.8E-03	0.03	74	6.9E-04	3.3E-03	4.2E-04	2.5E-03	2.6E-03	0.17
TON1	TON-MW3 TON-MW8	8	1.6E-03	2.5E-03	3.6E-04	2.0E-03	2.0E-03	0.18	28	1.5E-03	2.7E-03	3.1E-04	2.2E-03	2.1E-03	0.14
TON2	TON-MW2 TON-MW8	11	1.8E-03	2.9E-03	3.7E-04	2.4E-03	2.4E-03	0.15	80	8.3E-04	3.1E-03	4.6E-04	2.2E-03	2.3E-03	0.21
TON3	TON-MW2 TON-MW4	4	2.4E-04	4.1E-03	1.6E-03	2.0E-03	1.7E-03	0.82	50 (1)	-1.4E-03	9.9E-03	2.6E-03	3.5E-03	2.7E-03	0.74
BRE1	BRE-MW1 BRE-MW3	4	6.7E-04	4.2E-03	1.7E-03	2.3E-03	2.3E-03	0.71	53	2.8E-05	5.8E-03	8.8E-04	8.6E-04	6.6E-04	1.03
CRE1	CRE-MW1 CRE-MW3	12	2.1E-03	3.3E-03	3.1E-04	2.6E-03	2.6E-03	0.12	68	1.8E-03	3.7E-03	4.8E-04	2.8E-03	2.8E-03	0.17
MTS1	MTS-MW1 MTS-MW3	7	5.2E-04	3.6E-03	1.1E-03	1.1E-03	8.3E-04	0.94	27	3.2E-05	7.3E-03	1.8E-03	1.1E-03	5.8E-04	1.68

Table 4-5
Summary Statistics of Apparent Horizontal Gradient through 2019

		-----2019-----							-----Through 2018-----						
Well Pair	Up/Down Gradient Wells	Count*	Min	Max	Std Dev	Mean	Median	CV	Count*	Min	Max	Std Dev	Mean	Median	CV
AUK1	AUK-MW1 AUK-MW2	2	2.0E-03	2.1E-03	8.2E-05	2.0E-03	2.0E-03	0.04	47	5.5E-04	2.8E-03	5.3E-04	1.5E-03	1.4E-03	0.35
AUK2	AUK-MW3 AUK-MW1								6	5.0E-04	2.6E-03	7.6E-04	1.1E-03	8.2E-04	0.68
AUK3	AUK-MW1 AUK-MW3	12	1.1E-03	2.7E-03	5.9E-04	1.9E-03	2.2E-03	0.31	39	4.5E-04	2.5E-03	5.6E-04	1.7E-03	1.8E-03	0.33
DLF1	DLF-MW6D DLF-MW4C	7	4.2E-03	9.4E-03	2.0E-03	5.9E-03	4.8E-03	0.34	27	6.3E-03	1.2E-02	1.4E-03	9.1E-03	9.0E-03	0.15
DLF2	DLF-MW1 DLF-MW4C								7	2.5E-02	2.8E-02	7.6E-04	2.7E-02	2.7E-02	0.03
ELK1	ELK-MW3B ELK-MW2B	3	7.6E-03	7.9E-03	1.4E-04	7.8E-03	7.8E-03	0.02	11	5.0E-03	1.2E-02	2.1E-03	9.4E-03	1.0E-02	0.22
ZZI1	ZZI-MW9D ZZI-MW6D	8	5.8E-03	7.3E-03	5.4E-04	6.7E-03	6.7E-03	0.08	57	2.9E-03	9.1E-03	1.4E-03	4.2E-03	3.7E-03	0.35
ZZI2	ZZI-MW9D ZZI-MW5D	4	5.5E-03	9.0E-03	1.5E-03	7.0E-03	6.7E-03	0.21	17	2.9E-03	1.0E-02	2.9E-03	6.2E-03	6.5E-03	0.46
HOL1	HOL-MW1 HOL-MW3	1	5.0E-04	5.0E-04		5.0E-04	5.0E-04		8	1.6E-04	8.0E-04	3.0E-04	4.8E-04	4.9E-04	0.62
HOL2	HOL-MW2 HOL-MW3	1	3.3E-04	3.3E-04		3.3E-04	3.3E-04		7	1.9E-04	1.2E-03	4.4E-04	7.9E-04	9.0E-04	0.55
HYN1	HYN-MW5 HYN-MW3								5	1.3E-03	1.7E-03	1.6E-04	1.5E-03	1.5E-03	0.11
JAD1	JAD-MW3 JAD-MW6	9	6.3E-04	3.3E-03	8.4E-04	1.8E-03	1.6E-03	0.47	35	1.4E-03	3.1E-03	4.2E-04	2.4E-03	2.5E-03	0.18
LON1	LON-MW4 LON-MW6C	11	1.4E-03	2.4E-03	3.1E-04	1.7E-03	1.7E-03	0.18	61	7.1E-04	3.2E-03	4.1E-04	1.7E-03	1.6E-03	0.25
LON2	LON-MW7D LON-MW3C	7	1.1E-03	3.2E-03	7.0E-04	1.6E-03	1.4E-03	0.42	54	2.6E-04	8.1E-03	1.0E-03	1.9E-03	1.8E-03	0.54
MAL1	MAL-MW8 MAL-MW1	4	1.5E-04	1.2E-03	4.9E-04	7.3E-04	7.9E-04	0.68	66	6.1E-04	2.1E-03	4.4E-04	1.4E-03	1.4E-03	0.32
MAP1	MAP-MW10 ZON-MW5B	9	6.7E-03	9.1E-03	6.8E-04	8.1E-03	8.1E-03	0.08	53	2.5E-03	8.6E-03	1.4E-03	6.8E-03	7.1E-03	0.21
MAP2	MAP-MW10 ZON-MW3B	7	6.4E-03	7.9E-03	5.5E-04	7.1E-03	6.9E-03	0.08	65	3.2E-03	7.6E-03	9.8E-04	6.0E-03	6.2E-03	0.16
RIC1	RIC-MW6 RIC-MW9	8	6.0E-04	1.8E-03	4.7E-04	1.2E-03	1.3E-03	0.39	47	2.6E-04	3.2E-03	6.4E-04	1.6E-03	1.6E-03	0.41
RIC2	RIC-MW7 RIC-MW8	9	1.5E-03	2.9E-03	4.1E-04	1.9E-03	1.9E-03	0.21	69	1.5E-03	2.8E-03	3.1E-04	2.1E-03	2.1E-03	0.15
SIE1	SIE-MW1 SIE-MW2	2	9.8E-03	1.0E-02	2.0E-04	9.9E-03	9.9E-03	0.02	7	6.6E-03	1.4E-02	2.4E-03	1.0E-02	1.1E-02	0.24
SO21	SO2-MW1 SO2-MW4								4	1.5E-03	2.1E-03	2.4E-04	1.9E-03	1.9E-03	0.13
SO22	SO2-MW7 SO2-MW6								28	1.3E-03	5.2E-03	6.7E-04	2.3E-03	2.3E-03	0.28

Min - Minimum gradient value
Max - Maximum gradient value
Std Dev - Standard Deviation
CV - Coefficient of Variation
*Number in parenthesis indicates count of negative gradients within total count.

Table 4-6
Groundwater Quality

Well	Date	-------Field Measurements------- T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	----Alkalinity as CaCO3---- HCO3	CO3	OH	Total	CAB %	HI	Q
Central Area-East Side																											
MEN-MW1s	2/7/2012	18.5	6.93	1.4		151	480	5,339	3,600	58		0.29														9	
MEN-MW1s	5/8/2012	19.5	6.88	2.1		156	882	5,221	3,100	41	<0.05*	0.40	1.6*	760	16	87	210	860	250	3.7*	980*	<8.2*	<8.2*	980	-0.9	4	H
MEN-MW1s	8/14/2012	20.7	6.65	1.5		239	504	6,146	3,800	22	0.082	6.8	10	770	68	150	340	970	190	0.61	1,500	<8.2	<8.2	1,500	1.7	6	
MEN-MW1s	12/6/2012	20.4	6.55	1.1		98	225	4,729	3,000	38		0.59														7	
MEN-MW1s	3/18/2013	20.0	6.66	0.5	5	172	13	6,631	3,800	15		46														6	
MEN-MW1s	5/28/2013	19.8	6.87	0.4	5	193	3.0	5,301	3,300	30		16														8	
MEN-MW1s	8/22/2013	22.4	6.89	0.4	5	165	17	6,048	3,500	25	0.079	42	47	820	130	130	270	950	280	0.31J	1,500	<8.2	<8.2	1,500	1.3	6	
MEN-MW1s	11/13/2013	22.4	7.14	0.5	6	207	7.0	5,726	3,200	23		26														7	
MEN-MW1s	2/18/2014	20.0	6.38	3.2	36	256	1.0	6,705	3,600	9.2		100														7	
MEN-MW1s	5/20/2014	20.1	7.05	1.1	12	160	6.0	5,665	3,300	25		41														6	
MEN-MW1s	8/20/2014	23.2	5.96	0.2	3	177	4.0	7,064	3,400	11	0.026J	140	140	710	240	160	300	960	150	<0.75	2,100	<8.2	<8.2	2,100	1.5	7	
MEN-MW1s	11/6/2014	22.1	6.90	0.4	5	106	11	6,471	3,800	13		66														6	
MEN-MW1s	2/5/2015	19.3	6.83	0.7	8	12	4.0	6,504	4,000	16	0.085	99	100	740	230	180	320	980	170	<0.75	2,000	<8.2	<8.2	2,000	2.4	8	
MEN-MW1s	5/12/2015	20.0	7.04	1.3	14	99	7.0	7,139	4,100	60		81														7	
MEN-MW1s	8/21/2015	24.3	7.27	5.3	65	114	7.0	6,850	4,100	48		86														6	
MEN-MW1s	11/12/2015	21.6	7.44	0.6	7	134	30	6,738	3,700	50		48														5	
MEN-MW1s	2/18/2016	19.1	6.96	0.7	8	92	61	7,043	4,300	37	0.036J	2.4	48	760	210	200	370	1,200	280	0.62J	1,900	<8.2	<8.2	1,900	-4.4	6	
MEN-MW1s	5/17/2016	21.5	7.04	2.8	32	107	4.0	5,633	3,500	37		25														7	
MEN-MW1s	8/16/2016	22.2	7.03	0.8	10	180	8.0	7,568	4,800	120		29														7	
MEN-MW1s	11/29/2016	21.5	7.00	1.4	15	210	3.0	6,997	4,300	51		20														7	
MEN-MW1s	3/14/2017	19.1	6.91	0.4	5	103	2.7	7,235	5,000	92	0.012J	16	16	830	240	250	480	1,300	410	2.3	1,800	<8.2	<8.2	1,800	0	9	
MEN-MW1s	5/17/2017	19.2	6.63	1.0	12	89	4.1	6,854	4,200	98		11														10	
MEN-MW1s	8/25/2017	21.2	6.92	0.7	8	111	7.0	5,274	3,100	56		4.5														8	
MEN-MW1s	11/20/2017	20.7	7.10	0.7	9	162	21.0	5,832	3,300	53		7.3														7	
MEN-MW1s	2/20/2018	19.6	6.91	0.7	8	156	5.5	6,573	3,500	25	0.019J	30	40	730	160	180	370	1,000	180	0.32J	1,900	<8.2	<8.2	1,900	-0.3	7	
MEN-MW1s	5/9/2018	19.5	6.68	3.7	41	120	15	6,282	4,100	33		12														8	
MEN-MW1s	8/20/2018	22.1	7.39	2.0	26	79	4.0	7,614	5,400	49		9.6														9	
MEN-MW1s	11/12/2018	21.7	6.73	1.0	11	173	2.0	6,629	4,200	30		7.5														7	
MEN-MW1s	2/20/2019	19.3	6.77	0.7	7	141	2.0	5,455	3,500	71	<0.050	2.4	4.3	560	210	160	290	880	360	1.3	1,000	<8.2	<8.2	1,000	0.1	11	
MEN-MW1s	5/22/2019	18.0	7.06	2.4	36	51	3.0	5,409	3,300	45		2.0														10	
MEN-MW1s	8/14/2019	21.6	6.87	2.5	29	31	2.0	6,332	4,000	84		2.4														9	
MEN-MW1s	11/12/2019	21.7	6.80	0.6	6	120	7.0	5,942	3,800	71		2.5														8	
MEN-MW2s	2/7/2012	17.7	7.16	1.7		149	225	4,320	2,900	4.4		0.24														10	
MEN-MW2s	5/8/2012	20.1	7.05	5.8		188	654	4,620	2,700	3.0	<0.05*	0.23	1.5*	740	21	56	170	780	290	5.2*	870*	<8.2*	<8.2*	870	0	5	H
MEN-MW2s	8/14/2012	21.5	6.98	1.0		177	735	4,460	2,700	4.0	0.11	0.13	2.1	680	25	60	200	730	270	0.37	920	<8.2	<8.2	920	0.3	6	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
MEN-MW2s	12/6/2012	21.0	7.10	0.9		71	254	4,297	2,600	14		<0.050														7	
MEN-MW2s	3/18/2013	19.3	7.00	1.0	11	156	497	4,619	2,700	2.1		2.0														5	
MEN-MW2s	5/28/2013	20.6	6.92	0.5	5	187	11	4,059	2,600	3.6		0.32														8	
MEN-MW2s	8/22/2013	23.7	7.06	0.5	5	168	13	4,039	2,400	4.1	<0.050	1.7	3.6	590	59	73	230	670	210	0.47	1,000	<8.2	<8.2	1,000	1.4	7	
MEN-MW2s	11/13/2013	22.5	7.46	0.6	8	207	46	3,937	2,400	2.3		0.40														7	
MEN-MW2s	2/18/2014	19.1	6.53	2.6	28	242	3.0	4,318	2,600	<0.50		3.6														7	
MEN-MW2s	5/20/2014	20.1	7.10	1.0	11	147	7.0	4,308	2,500	5.3		1.7														7	
MEN-MW2s	8/20/2014	25.4	6.22	0.4	5	178	4.0	4,084	2,100	20	0.24	1.1	2.6	440	90	84	250	610	190	0.24	950	<8.2	<8.2	950	-0.9	8	
MEN-MW2s	11/6/2014	22.9	7.26	0.5	6	122	31	3,997	2,400	1.9		1.2														7	
MEN-MW2s	2/5/2015	19.4	7.11	0.6	7	24	10	4,699	2,800	<0.5	<0.05	2.2	4.8	550	140	110	320	820	250	0.37J	1,100	<8.2	<8.2	1,100	2.3	8	
MEN-MW2s	5/12/2015	20.2	7.16	1.4	16	81	9.0	4,565	2,600	0.51		3.4														7	
MEN-MW2s	8/21/2015	25.8	7.44	6.0	72	123	13	4,708	3,100	48		3.2														7	
MEN-MW2s	11/12/2015	21.7	7.88	0.7	8	142	103	3,949	2,100	18		0.98														5	
MEN-MW2s	2/18/2016	18.5	7.20	0.5	7	95	242	4,302	3,000	8.8	0.080	1.4	3.8	450	120	99	300	750	230	1.1	1,100	<8.2	<8.2	1,100	-2.9	7	
MEN-MW2s	5/17/2016	21.4	7.16	2.6	28	113	6.0	4,480	2,800	54		3.4														8	
MEN-MW2s	8/16/2016	23.6	7.24	0.7	8	181	11	5,937	4,100	52		5.6														7	
MEN-MW2s	11/29/2016	21.6	7.18	0.7	8	203	11	6,054	3,700	69		4.9														7	
MEN-MW2s	3/14/2017	18.6	7.16	0.7	8	107	13.5	4,790	3,200	44	0.046J	3.7	4.7	480	200	150	390	920	280	0.77	920	<8.2	<8.2	920	4.2	7	
MEN-MW2s	5/17/2017	19.5	6.81	0.8	9	85	4.5	5,413	3,200	63		2.7														10	
MEN-MW2s	8/25/2017	22.0	6.98	0.6	8	96	32	5,122	3,400	33		1.8														9	
MEN-MW2s	11/20/2017	21.7	6.95	0.7	8	211	17.4	5,705	3,000	4.6		0.54														7	
MEN-MW2s	2/20/2018	18.7	7.12	0.8	9	148	10.2	4,872	3,100	56	0.19	1.5	3.2	450	170	120	340	840	310	0.25	940	<8.2	<8.2	940	-2	7	
MEN-MW2s	5/9/2018	19.3	6.94	3.5	38	119	13	4,852	3,300	59		1.8														8	
MEN-MW2s	8/20/2018	23.5	7.59	1.4	21	96	4.0	5,032	3,500	61		2.4														9	
MEN-MW2s	11/12/2018	22.5	6.93	1.0	12	147	6.0	4,906	3,000	54		2.5														8	
MEN-MW2s	2/20/2019	18.1	6.91	0.9	10	107	6.0	4,291	2,700	34	0.17	1.7	3.3	390	170	110	300	750	260	0.44	820	<8.2	<8.2	820	0	11	
MEN-MW2s	5/22/2019	18.4	7.23	2.2	34	75	3.0	4,731	2,800	40		1.6														10	
MEN-MW2s	8/14/2019	22.4	6.94	2.6	30	40	5.0	5,182	3,100	25		2.5														9	
MEN-MW2s	11/12/2019	23.2	6.92	0.7	4	73	3.0	5,696	3,700	40		1.7														8	
MEN-MW3s	2/7/2012	17.2	6.95	1.7		177	85	2,845	2,000	75		0.070														10	
MEN-MW3s	5/8/2012	17.8	6.87	1.8		214	48	3,061	2,100	70	<0.05*	0.091	2.7*	290	5.9	77	230	340	91	18*	690*	<8.2*	<8.2*	690	-0.4	7	H
MEN-MW3s	8/14/2012	21.3	6.76	0.7		222	29	2,976	1,900	68	1.0	0.044J	2.5	280	5.9	73	220	320	100	18	700	<8.2	<8.2	700	-2.1	7	
MEN-MW3s	12/6/2012	20.2	7.25	0.6		69	34	2,741	1,800	67		0.027J														7	
MEN-MW3s	3/18/2013	18.0	6.83	0.7	8	180	17.2	3,057	2,000	66		0.11														5	
MEN-MW3s	5/28/2013	18.4	6.81	0.4	4	178	3.0	2,772	1,900	64		0.11														7	
MEN-MW3s	8/22/2013	20.1	6.97	0.4	4	168	7.0	2,613	1,900	59	0.93	0.071	2.5	270	11	71	210	270	84	15	740	<8.2	<8.2	740	-1	6	
MEN-MW3s	11/13/2013	20.8	7.20	0.7	7	224	6.0	2,637	1,900	60		0.020J														7	
MEN-MW3s	2/18/2014	18.5	6.41	0.9	9	252	3.0	2,720	1,800	66		<0.050														6	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
MEN-MW3s	5/20/2014	19.1	6.95	1.6	17	153	4.0	2,843	2,000	73		0.063J														6	
MEN-MW3s	8/20/2014	22.6	6.07	0.5	5	185	3.0	2,949	1,900	77	0.71	0.099J	2.3	270	14	81	240	280	89	21	720	<8.2	<8.2	720	0.6	7	
MEN-MW3s	11/6/2014	21.1	7.07	0.4	5	139	3.0	2,871	2,000	98		0.068J														6	
MEN-MW3s	2/5/2015	18.7	7.03	0.6	6	87	2.0	2,929	1,900	97	0.47	0.16	3	280	17	87	250	310	99	23	650	<8.2	<8.2	650	1.2	8	
MEN-MW3s	5/12/2015	18.8	7.15	0.9	10	105	4.0	2,551	1,600	82		0.041J														6	
MEN-MW3s	8/21/2015	23.2	7.13	3.4	41	128	16	2,802	1,900	81		0.38														5	
MEN-MW3s	11/12/2015	20.0	7.56	0.7	9	163	9.0	3,763	2,300	140		0.093J														5	
MEN-MW3s	2/18/2016	18.1	7.00	0.5	5	147	7.0	3,379	2,400	110	0.89	0.065J	2.7	290	19	100	290	400	100	23	730	<8.2	<8.2	730	-1.1	6	
MEN-MW3s	5/17/2016	19.6	6.92	1.2	13	140	4.0	2,929	1,900	86		0.15														8	
MEN-MW3s	8/17/2016	21.0	6.95	1.0	12	217	2.0	3,445	2,300	87		0.047J														7	
MEN-MW3s	11/30/2016	20.6	6.76	0.6	8	174	8.0	3,597	2,400	90		0.075J														7	
MEN-MW3s	3/14/2017	19.2	7.11	0.5	7	22	1.3	3,143	2,300	81	0.56	0.063J	1.9	310	37	110	310	460	120	18	740	<8.2	<8.2	740	3	9	
MEN-MW3s	5/17/2017	19.5	6.09	0.7	8	-17	4.9	3,365	2,100	90		0.15														10	
MEN-MW3s	8/25/2017	21.2	6.93	0.5	7	113	5.0	3,887	2,800	130		0.092J														8	
MEN-MW3s	11/20/2017	21.2	6.99	0.9	1	253	8.2	3,970	2,800	150		0.080J														7	
MEN-MW3s	2/20/2018	19.2	7.03	0.7	8	161	5.1	3,776	2,600	130	0.64	0.055J	<0.20	360	52	94	300	460	190	24	730	<8.2	<8.2	730	-2.4	6	
MEN-MW3s	5/9/2018	19.8	6.84	1.0	11	175	6.0	3,872	2,700	130		0.16														8	
MEN-MW3s	8/22/2018	21.4	6.88	1.1	20	153	5.0	3,795	2,700	110		0.15														9	
MEN-MW3s	11/12/2018	21.7	6.83	0.8	9	191	2.0	3,574	2,500	100		0.28														7	
MEN-MW3s	2/20/2019	18.4	6.83	0.8	9	187	3.0	3,453	2,300	98	0.41	0.25	1.9	340	59	91	270	420	230	18	640	<8.2	<8.2	640	0.3	10	
MEN-MW3s	5/22/2019	18.9	7.05	2.3	34	131	3.0	3,538	2,400	99		0.25														10	
MEN-MW3s	8/14/2019	22.6	6.95	2.4	30	96	1.0	3,487	2,400	96		0.22														8	
MEN-MW3s	11/12/2019	22.3	6.89	0.8	13	144	2.0	3,216	2,300	120		0.29														8	
MEN-MW4s	2/7/2012	16.6	6.97	2.2		190	>1,000	2,407	1,600	77		0.064														11	
MEN-MW4s	5/8/2012	18.2	7.03	1.6		231	56	2,302	1,600	69	<0.05*	0.076	2.0*	220	6.5	48	180	220	75	7.9*	440*	16*	<8.2*	456	1.4	7	H
MEN-MW4s	8/14/2012	21.2	6.86	0.7		220	32	2,272	1,400	63	0.66	<0.05	1.9	220	6.8	46	170	230	83	8.6	490	<8.2	<8.2	490	-1.8	7	
MEN-MW4s	12/6/2012	20.6	7.31	1.2		76	7.0	1,984	1,300	57		<0.050														8	
MEN-MW4s	3/18/2013	19.0	6.89	0.3	4	172	3.0	2,161	1,300	57		0.062														6	
MEN-MW4s	5/28/2013	18.4	6.95	0.6	6	166	4.0	2,012	1,400	58		0.076														8	
MEN-MW4s	8/22/2013	23.0	7.03	0.4	5	159	2.0	2,032	1,400	54	0.96	0.059	2.1	220	7.3	46	170	190	68	10	530	<8.2	<8.2	530	1	7	
MEN-MW4s	11/13/2013	21.3	7.28	0.7	8	222	5.0	2,083	1,500	57		0.022J														8	
MEN-MW4s	2/18/2014	19.1	6.52	1.3	15	248	1.0	2,147	1,300	59		<0.050														7	
MEN-MW4s	5/20/2014	19.0	7.24	1.0	11	152	2.0	2,211	1,400	63		0.059J														7	
MEN-MW4s	8/20/2014	24.3	6.16	0.4	5	184	4.0	2,375	1,600	66	0.48	<0.10	1.8	220	7.9	54	190	210	72	9.2	540	<8.2	<8.2	540	0.9	8	
MEN-MW4s	11/6/2014	22.2	7.08	0.4	5	133	1.0	2,282	1,500	69		0.046J														7	
MEN-MW4s	2/5/2015	19.3	7.19	0.6	7	78	2.0	2,336	1,500	76	0.45	<0.1	1.8	240	7.4	58	200	240	71	8	530	<8.2	<8.2	530	1.7	8	
MEN-MW4s	5/12/2015	19.2	7.12	0.8	9	105	2.0	2,332	1,500	77		0.19														7	
MEN-MW4s	8/21/2015	23.9	7.01	1.5	18	110	5.0	2,422	1,700	73		0.14														6	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
MEN-MW4s	11/12/2015	20.6	7.55	0.8	9	156	63	2,596	1,600	77		<0.10														6	
MEN-MW4s	2/18/2016	17.6	7.04	0.7	8	153	43	2,628	1,800	77	0.42	0.026J	1.7	220	8.3	67	220	310	80	11	580	<8.2	<8.2	580	-3	7	
MEN-MW4s	5/17/2016	19.0	7.04	1.3	14	134	4.0	2,561	1,700	80		0.10														9	
MEN-MW4s	8/17/2016	21.8	6.93	0.9	11	215	1.0	2,933	2,000	88		0.036J														7	
MEN-MW4s	11/29/2016	20.9	7.26	0.7	9	198	1.0	3,043	2,000	100		0.043J														7	
MEN-MW4s	3/14/2017	18.7	7.04	0.4	5	42	0.8	3,349	2,500	120	0.36	0.067J	1.4	310	12	100	340	490	130	10	560	<8.2	<8.2	560	3.1	10	
MEN-MW4s	5/17/2017	19.3	6.64	0.7	8	22	3.4	3,861	3,000	140		0.14														10	
MEN-MW4s	8/25/2017	21.6	6.92	0.5	7	116	1.0	3,319	2,400	110		0.059J														9	
MEN-MW4s	11/20/2017	21.1	7.01	0.9	9	254	14.03	3,256	2,400	120		0.056J														8	
MEN-MW4s	2/20/2018	18.7	7.10	0.8	9	166	4.3	3,372	2,300	120	0.37	0.044J	<0.20	300	11	81	300	450	180	12	550	<8.2	<8.2	550	-2	7	
MEN-MW4s	5/9/2018	19.6	6.87	1.2	13	207	5.0	3,498	2,500	120		0.12														9	
MEN-MW4s	8/22/2018	21.5	6.85	1.4	23	129	4.0	3,570	2,600	110		0.084J														9	
MEN-MW4s	11/12/2018	21.6	6.83	0.9	9	201	2.0	3,296	2,300	110		0.22														7	
MEN-MW4s	2/20/2019	18.8	6.78	0.9	10	177	1.0	3,644	2,400	120	0.38	0.18J	1.4	320	15	94	330	460	200	12	590	<8.2	<8.2	590	0.8	11	
MEN-MW4s	5/22/2019	18.2	7.12	2.1	33	123	3.0	3,617	2,400	120		0.18J														10	
MEN-MW4s	8/14/2019	21.7	6.90	2.1	28	101	1.0	3,495	2,400	120		0.16J														9	
MEN-MW4s	11/12/2019	21.7	6.80	0.8	15	151	2.0	3,216	2,300	120		0.21														8	
MEN-MW5s	2/7/2012	17.9	7.05	1.8		192	33	1,791	1,100	40		0.038J														9	
MEN-MW5s	5/8/2012	19.5	6.97	2.6		208	9.0	1,962	1,200	52	0.019J*	0.051	0.74*	140	18	36	170	220	60	0.19*	370*	<8.2*	<8.2*	370	-1.6	6	H
MEN-MW5s	8/14/2012	21.6	6.88	0.6		207	2.0	1,908	1,200	54	0.10	<0.05	0.87	140	20	34	170	210	64	0.26	380	<8.2	<8.2	380	-2.3	6	
MEN-MW5s	12/6/2012	21.0	7.42	1.1		72	9.0	1,701	1,000	50		<0.050														6	
MEN-MW5s	3/18/2013	19.0	6.87	0.4	4	171	2.0	2,045	1,200	56		0.046J														4	
MEN-MW5s	5/28/2013	18.7	6.96	5.8	65	196	3.0	1,797	1,200	51		0.045J														6	
MEN-MW5s	8/22/2013	23.0	7.37	0.5	6	159	5.0	1,753	1,100	51	0.10	0.052	0.98	150	15	34	170	160	59	2.6	400	<8.2	<8.2	400	2	3	
MEN-MW5s	11/13/2013	21.8	7.36	0.7	8	218	6.0	1,733	1,100	52		<0.050														6	
MEN-MW5s	2/18/2014	20.2	6.56	2.0	23	251	3.0	1,807	1,100	50		<0.050														4	
MEN-MW5s	5/20/2014	18.9	7.10	0.9	9	150	3.0	1,825	1,100	52		0.041J														5	
MEN-MW5s	8/20/2014	23.3	6.24	0.5	6	183	7.0	1,834	1,100	50	0.13	<0.10	0.96	140	12	37	170	160	56	0.36	410	<8.2	<8.2	410	1.3	5	
MEN-MW5s	11/6/2014	21.0	7.08	0.3	4	123	4.0	1,972	1,100	52		<0.10														5	
MEN-MW5s	2/5/2015	20.8	7.27	0.9	10	99	2.0	2,455	1,600	74	0.12	<0.10	1.3	180	84	51	220	310	77	0.46	430	<8.2	<8.2	430	1.8	6	
MEN-MW5s	5/12/2015	20.2	7.19	0.7	8	113	4.0	2,044	1,200	58		<0.10														4	
MEN-MW5s	8/21/2015	24.3	7.37	5.9	71	123	16	1,609	1,000	44		<0.10														2	
MEN-MW5s	11/12/2015	20.1	7.62	0.7	8	162	153	1,669	920	44		<0.10														4	
MEN-MW5s	2/18/2016	19.3	7.10	0.6	8	141	4.0	2,568	1,800	68	0.023J	<0.10	0.76	170	89	52	200	360	87	0.43	410	<8.2	<8.2	410	-2.3	4	
MEN-MW5s	5/17/2016	20.3	6.92	1.0	10	138	3.0	2,444	1,700	68		0.094J														5	
MEN-MW5s	8/17/2016	21.4	6.82	1.3	15	221	7.0	2,918	2,200	76		<0.10														5	
MEN-MW5s	11/30/2016	20.7	6.77	0.7	8	173	22	3,028	2,100	81		0.061J														7	
MEN-MW5s	3/14/2017	19.2	7.00	0.6	8	69	0.6	3,493	2,700	84	0.20	0.057J	2.8	270	130	78	370	610	160	0.63	510	<8.2	<8.2	510	4.2	8	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
MEN-MW5s	5/17/2017	19.6	6.80	0.9	10	64	10.0	3,965	3,000	85		0.20														8	
MEN-MW5s	8/25/2017	21.3	7.15	0.5	6	105	3.0	2,602	1,900	59		0.052J														7	
MEN-MW5s	11/20/2017	21.5	7.15	0.5	6..0	262	17.29	2,380	1,500	56		0.034J														6	
MEN-MW5s	2/20/2018	20.1	7.19	0.9	10	156	5.6	2,293	1,400	51	0.054	0.020J	1.1	180	70	40	200	330	76	0.68	430	<8.2	<8.2	430	-0.6	4	
MEN-MW5s	5/9/2018	20.0	6.86	1.0	12	152	6.0	2,017	1,300	44		0.10														6	
MEN-MW5s	8/22/2018	21.9	6.89	1.2	20	166	7.0	2,161	1,400	45		0.041J														6	
MEN-MW5s	11/12/2018	22.8	6.81	0.9	11	214	3.0	2,047	1,300	46		0.16														5	
MEN-MW5s	2/20/2019	19.6	6.89	0.7	8	172	1.0	1,995	1,300	46	0.047J	0.10J	0.88	160	35	39	190	250	61	0.63	420	<8.2	<8.2	420	1.3	7	
MEN-MW5s	5/22/2019	19.8	6.98	2.1	31	133	5.0	2,473	1,300	53		0.14J														7	
MEN-MW5s	8/14/2019	21.8	6.89	2.1	26	86	1.0	2,209	1,300	55		0.11J														7	
MEN-MW5s	11/12/2019	22.9	6.80	0.7	13	152	2.0	2,122	1,500	63		0.11J														6	
MEN-MW6s	2/7/2012	17.1	7.00	1.6		179	12	3,057	2,000	32		0.052														16	
MEN-MW6s	5/8/2012	17.9	6.91	1.7		183	17	3,224	1,800	33	<0.05*	0.058	1.2*	390	4.7	59	200	430	140	0.088J*	690*	<8.2*	<8.2*	690	1.1	11	H
MEN-MW6s	8/14/2012	18.8	6.83	1.0		205	2.0	3,138	1,900	34	0.45	<0.05	1.3	380	4.7	56	210	410	140	0.13J	740	<8.2	<8.2	740	0	13	
MEN-MW6s	12/6/2012	19.0	7.53	0.7		76	5.0	2,889	1,800	37		<0.050														13	
MEN-MW6s	3/18/2013	18.0	6.98	0.7	7	181	2.5	3,266	1,900	32		0.038J														12	
MEN-MW6s	5/28/2013	18.4	6.89	1.2	13	189	2.0	2,730	1,800	31		0.050														14	
MEN-MW6s	8/22/2013	20.5	7.06	0.3	4	173	1.0	2,747	1,600	30	0.52	0.037J	1.2	360	4.3	54	210	370	160	0.23	720	<8.2	<8.2	720	0.6	15	
MEN-MW6s	11/13/2013	19.7	7.31	0.6	6	208	1.0	2,906	1,800	32		<0.050														13	
MEN-MW6s	2/18/2014	18.7	6.54	1.6	17	240	2.0	2,904	1,100	37		<0.050														13	
MEN-MW6s	5/20/2014	17.9	7.18	1.1	12	142	2.0	2,490	1,300	30		0.042J														15	
MEN-MW6s	8/20/2014	21.0	6.21	0.3	4	181	2.0	2,783	1,600	32	0.50	0.044J	1.1	340	6.2	47	190	340	130	0.20	650	<8.2	<8.2	650	1.2	16	
MEN-MW6s	11/6/2014	20.2	7.08	0.9	9	114	2.0	2,710	1,500	35		0.047J														12	
MEN-MW6s	2/5/2015	19.4	6.99	0.6	7	65	2.0	3,078	1,800	39	0.45	<0.10	1.3	400	5.1	60	230	430	170	0.33	700	<8.2	<8.2	700	2.2	14	
MEN-MW6s	5/12/2015	19.0	7.11	0.7	8	79	2.0	2,476	1,500	33		<0.10														13	
MEN-MW6s	8/21/2015	22.0	7.42	6.4	70	125	4.0	2,312	1,600	29		0.057J														14	
MEN-MW6s	11/12/2015	19.1	7.98	1.2	13	152	7.0	2,613	1,400	39		<0.10														12	
MEN-MW6s	2/18/2016	18.0	7.15	0.7	8	115	2.0	2,726	1,800	37	0.45	<0.10	1.1	340	4.7	53	200	360	160	0.34	670	<8.2	<8.2	670	-0.5	15	
MEN-MW6s	5/17/2016	21.6	7.28	3.5	40	98	4.0	2,372	1,600	38		0.065J														14	
MEN-MW6s	8/16/2016	22.5	7.47	0.8	9	168	4.0	2,243	1,500	31		0.28														14	
MEN-MW6s	11/29/2016	19.8	7.38	1.0	11	198	10	2,262	1,400	29		0.027J														13	
MEN-MW6s	3/14/2017	19.0	7.19	0.5	6	95	0.2	2,471	1,600	33	0.47	0.029J	1.2	340	5.1	53	200	310	190	0.54	610	<8.2	<8.2	610	3.5	16	
MEN-MW6s	5/17/2017	18.4	6.91	1.0	11	74	3.2	2,424	1,400	34		0.13														16	
MEN-MW6s	8/25/2017	19.6	7.57	0.7	8	96	1.0	1,858	1,200	26		0.062J														16	
MEN-MW6s	11/20/2017	19.6	7.57	0.7	7	222	12.41	2,310	1,300	30		0.042J														13	
MEN-MW6s	2/20/2018	18.3	7.43	0.8	9	150	5.5	2,547	1,500	29	0.43	<0.10	1.3	320	5.9	48	210	330	190	0.50	620	<8.2	<8.2	620	1.3	13	
MEN-MW6s	5/9/2018	18.3	6.93	2.3	26	134	7.0	2,211	1,400	33		0.10														15	
MEN-MW6s	8/20/2018	21.6	7.58	2.1	31	7	4.0	1,184	830	20		0.34														16	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
MEN-MW6s	11/12/2018	19.5	6.91	0.9	11	46	45	2,463	1,500	9.7		9.4														14	
MEN-MW6s	2/20/2019	17.7	6.84	0.6	7	30	10	2,725	1,700	17	0.49	2.3	4.3	290	35	55	220	370	180	7.1	690	<8.2	<8.2	690	-0.5	17	
MEN-MW6s	5/22/2019	17.6	7.06	2.4	37	-62	3.0	3,129	1,900	13		0.78														16	
MEN-MW6s	8/14/2019	19.9	6.99	2.5	32	-98	3.0	2,393	1,400	8.2		0.69														15	
MEN-MW6s	11/12/2019	20.4	6.89	0.7	9	-111	25	3,060	1,800	11		11														14	
MEN-MW7s	2/7/2012	17.6	7.15	1.5		159	22	2,521	1,600	75		0.052														17	
MEN-MW7s	5/8/2012	18.6	7.07	1.6		196	63	2,696	1,600	62	<0.05*	0.063	1.3*	310	3.3	57	150	270	140	0.10J*	510*	<8.2*	<8.2*	510	1.2	16	H
MEN-MW7s	8/14/2012	19.6	7.14	1.0		204	10	2,804	1,800	68	0.55	<0.05	1.5	350	3.3	52	150	310	150	0.22	560	<8.2	<8.2	560	-1.6	16	
MEN-MW7s	12/6/2012	19.4	7.32	0.9		67	3.0	2,501	1,600	61		<0.050														15	
MEN-MW7s	3/18/2013	19.0	7.03	0.9	9	159	5.8	2,605	1,600	56		0.042J														13	
MEN-MW7s	5/28/2013	19.1	7.11	0.3	3	186	2.0	2,426	1,600	66		0.082														15	
MEN-MW7s	8/22/2013	21.4	7.07	0.7	1	172	1.0	2,245	1,400	42	0.77	0.064	2.2	230	3.0	62	190	230	150	0.28	580	<8.2	<8.2	580	0.8	16	
MEN-MW7s	11/13/2013	20.8	7.37	0.7	7	196	1.0	2,280	1,500	61		0.021J														15	
MEN-MW7s	2/18/2014	18.6	6.57	1.5	16	243	1.0	2,269	1,000	51		<0.050														14	
MEN-MW7s	5/20/2014	18.7	7.14	1.1	11	149	2.0	2,275	1,300	53		0.059J														16	
MEN-MW7s	8/20/2014	20.7	6.24	0.3	4	182	3.0	2,280	1,400	53	0.77	0.060J	2.5	220	3.0	59	170	200	130	0.16	510	<8.2	<8.2	510	1.3	15	
MEN-MW7s	11/6/2014	20.9	7.14	0.4	5	94	1.0	2,264	1,400	57		0.041J														14	
MEN-MW7s	2/5/2015	19.5	7.09	0.6	7	49	2.0	2,199	1,400	58	0.56	<0.10	2.0	240	3.1	61	170	210	130	0.13J	510	<8.2	<8.2	510	2.1	15	
MEN-MW7s	5/12/2015	19.6	7.06	0.8	8	91	2.0	2,174	1,200	49		0.052J														15	
MEN-MW7s	8/21/2015	22.5	7.30	6.2	72	119	9.0	2,102	1,400	44		0.14														15	
MEN-MW7s	11/12/2015	19.7	7.84	0.9	10	144	9.0	2,202	1,300	58		<0.10														14	
MEN-MW7s	2/18/2016	18.7	7.12	0.7	8	141	3.0	2,331	1,600	67	0.59	<0.10	1.8	220	2.8	61	180	230	120	0.20	510	<8.2	<8.2	510	-0.8	15	
MEN-MW7s	5/17/2016	20.5	7.10	1.4	15	120	4.0	2,093	1,400	62		0.12														17	
MEN-MW7s	8/16/2016	21.0	7.38	0.7	8	172	1.0	2,261	1,600	65		0.052J														15	
MEN-MW7s	11/29/2016	19.7	7.47	0.6	7	186	1.0	2,301	1,500	70		0.059J														15	
MEN-MW7s	3/14/2017	19.8	7.34	0.7	8	63	0.5	1,967	1,300	60	0.92	0.050J	1.6	240	2.9	56	150	190	94	0.21	470	<8.2	<8.2	470	3.5	16	
MEN-MW7s	5/17/2017	19.6	7.00	0.9	10	47	3.2	2,072	1,300	62		0.12														18	
MEN-MW7s	8/25/2017	19.4	7.52	0.6	7	86	2.0	2,025	1,400	62		0.056J														16	
MEN-MW7s	11/20/2017	19.6	7.50	0.6	7	210	23.07	2,082	1,200	66		0.072J														15	
MEN-MW7s	2/20/2018	18.5	7.22	0.9	10	152	5.1	2,880	1,700	87	0.31	0.24	2.2	260	7.5	73	240	340	160	0.85	570	<8.2	<8.2	570	-1.8	15	
MEN-MW7s	5/9/2018	18.9	7.03	1.3	16	163	6.0	2,312	1,600	75		0.12														16	
MEN-MW7s	8/22/2018	19.9	6.97	1.4	26	117	3.0	2,263	1,500	70		0.11														17	
MEN-MW7s	11/12/2018	20.0	6.96	0.9	10	215	2.0	2,288	1,600	76		0.25														15	
MEN-MW7s	2/20/2019	18.9	6.91	0.9	9	159	1.0	2,397	1,500	75	0.97	0.21	2.0	240	4.2	66	190	230	110	0.36	490	<8.2	<8.2	490	3	18	
MEN-MW7s	5/22/2019	18.2	7.45	2.3	36	125	2.0	2,882	1,400	79		0.22														17	
MEN-MW7s	8/14/2019	22.5	7.13	3.2	40	63	2.0	2,372	1,400	74		0.19J														16	
MEN-MW7s	11/12/2019	19.7	7.02	1.2	23	133	3.0	2,217	1,600	82		0.20														15	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
MEN-MW8s	11/6/2014	21.1	7.51	2.4	29	154	598	3,211	2,000	19		0.28														6	
MEN-MW8s	2/5/2015	20.4	7.28	0.7	9	90	164	3,584	2,300	110	0.027J	<0.10	2.0	490	71	89	150	460	170	2.9	610	<8.2	<8.2	610	1.7	7	
MEN-MW8s	5/12/2015	20.5	7.37	1.1	13	109	518	3,206	1,900	58		0.037J														5	
MEN-MW8s	8/21/2015	27.7	7.75	5.7	69	115	475	3,016	1,900	26		<0.10														3	
MEN-MW8s	11/12/2015	19.9	7.87	3.5	40	173	763	3,040	1,800	20		0.050J														4	
MEN-MW8s	2/18/2016	19.5	7.27	0.6	8	111	700	2,934	2,000	38	0.032J	0.031J	1.4	460	34	53	93	390	120	2.6	740	<8.2	<8.2	740	-2	5	
MEN-MW8s	5/17/2016	21.0	7.29	1.0	12	125	5.0	2,802	1,900	27		0.064J														6	
MEN-MW8s	8/16/2016	23.7	7.59	0.8	10	159	30	2,930	1,900	28		0.048J														6	
MEN-MW8s	11/30/2016	21.0	7.07	1.6	18	136	349	3,034	2,100	19		0.043J														7	D
MEN-MW8s	3/14/2017	19.0	7.29	0.9	11	-60	347	1,525	1,100	20	0.041J	0.037J	1.9	190	87	33	73	140	57	10	540	<8.2	<8.2	540	-2.4	8	D
MEN-MW8s	5/17/2017	19.5	6.87	1.0	11	-64	14.19	1,562	1,100	11		0.16														9	D
MEN-MW8s	8/25/2017	22.1	7.37	1.5	18	105	41	2,577	1,300	11		0.038J														7	D
MEN-MW8s	11/20/2017	21.5	7.58	1.0	13	250	10.29	2,895	1,700	16		0.037J														7	
MEN-MW8d	2/20/2018	20.2	7.35	0.7	8	163	5.1	3,324	2,000	23	0.22	<0.10	1.1	620	5.2	32	100	520	120	0.26	860	<8.2	<8.2	860	-1.8	18	
MEN-MW8s	5/9/2018	21.6	7.08	1.4	16	125	9.0	2,483	1,600	13		0.087J														6	
MEN-MW8s	8/22/2018	22.1	7.04	1.2	21	155	98	3,738	2,300	20		0.084J														7	D
MEN-MW8d	11/12/2018	20.7	7.02	0.9	10	180	3.0	3,680	2,300	24		0.18														19	
MEN-MW8d	2/20/2019	20.2	6.96	0.8	9	189	1.0	3,896	2,300	23	0.19	0.099J	1.2	640	6.0	41	130	600	110	0.31	1,000	<8.2	<8.2	1,000	-3.8	21	
MEN-MW8s	5/22/2019	19.6	7.10	2.4	35	137	39	3,675	2,200	24		0.15J														8	
MEN-MW8s	8/14/2019	23.5	7.01	2.5	29	81	7.0	3,507	1,800	22		<0.2														7	
MEN-MW8s	11/12/2019	23.0	7.29	4.9	52	151	119	4,108	2,400	21		0.24														7	
ANC-MW1	2/12/2012	19.0	7.00	1.7		164	12	1,518	990	6.6		<0.05														13	
ANC-MW1	5/11/2012	20.7	6.63	0.9		201	4.0	1,792	1,100	6.8	0.22*	<0.05	0.39*	250	3.7	39	88	210	100	0.41*	520*	<8.2*	<8.2*	520	-0.9	11	H
ANC-MW1	8/16/2012	20.9	6.82	0.4		213	11	1,975	1,300	8.0	0.43	0.026J	0.54	270	4.2	47	100	260	130	0.31	570	<8.2	<8.2	570	-3.1	12	
ANC-MW1	12/6/2012	20.6	7.52	1.0		49	3.0	1,986	1,200	8.7		<0.050														11	
ANC-MW1	3/21/2013	19.4	7.41	5.3	58	108	2.0	2,016	1,400	8.8		0.042J														10	
ANC-MW1	5/30/2013	21.7	7.24	5.2	58	144	1.0	1,999	1,300	9.4		0.034J														11	
ANC-MW1	8/27/2013	22.2	7.07	0.4	5	156	2.0	1,594	1,000	6.3	0.22	0.071	0.41	240	3.5	37	76	200	130	0.44	420	<8.2	<8.2	420	0.4	11	
ANC-MW1	11/14/2013	20.3	6.82	0.4	5	149	6.0	1,661	1,000	4.2		0.026J														11	
ANC-MW1	2/20/2014	20.5	6.39	1.0	11	252	3.0	1,878	1,100	5.3		0.030J														10	
ANC-MW1	5/22/2014	20.9	6.96	0.6	7	135	7.0	1,748	1,200	7.4		<0.10														10	
ANC-MW1	8/22/2014	23.0	7.27	0.6	7	153	4.0	1,800	1,000	8.6	0.15	<0.10	0.36	230	3.4	43	86	210	130	0.34	450	<8.2	<8.2	450	-0.9	9	
ANC-MW1	11/7/2014	21.8	7.17	3.5	41	88	2.0	1,842	1,100	14		<0.10														9	
ANC-MW1	2/6/2015	19.9	6.97	3.2	35	-30	4.0	2,197	1,400	8.2	0.27	<0.10	0.83	310	4.6	67	140	260	120	0.41	680	<8.2	<8.2	680	4.1	10	
ANC-MW1	5/13/2015	20.2	7.00	1.5	16	102	3.0	2,279	1,300	8.5		<0.10														9	
ANC-MW1	8/19/2015	23.3	6.99	0.5	6	76	41	2,775	1,500	4.6*		0.049J														6	H

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ANC-MW1	11/17/2015	20.4	6.23	0.7	8	153	6.0	2,257	1,300	3.5		0.069J														8	
ANC-MW1	2/23/2016	21.3	6.90	0.4	5	117	3.0	2,325	1,400	0.56	0.080	0.066J	0.99	300	4.6	64	140	270	110	0.52	760	<8.2	<8.2	760	0.5	9	
ANC-MW1	5/19/2016	20.6	6.79	2.2	25	162	6.0	2,454	1,500	0.46		0.042J														10	
ANC-MW1	8/19/2016	21.1	6.74	1.0	12	181	11	2,511	1,400	0.50		0.034J														8	
ANC-MW1	11/22/2016	20.4	6.80	0.5	6	169	22	2,401	1,500	0.10J		0.034J														9	
ANC-MW1	3/15/2017	20.8	6.73	0.6	7	83	4.0	2,390	1,400	0.24	<0.050	0.36	0.30	340	13	70	190	270	96	<0.15	900	<8.2	<8.2	900	4.8	17	
ANC-MW1	5/18/2017	19.8	6.97	0.8	9	173	2.3	2,423	1,400	0.070J		0.87														17	
ANC-MW1	8/28/2017	20.7	6.87	0.6	8	108	1.0	2,286	1,200	<0.20		0.30														14	
ANC-MW1	11/22/2017	21.4	6.89	0.8	9	160	2.3	2,773	1,600	<0.1		0.088J														13	
ANC-MW1	2/21/2018	20.6	7.15	0.7	9	219	4.4	2,845	1,800	0.59	0.028J	0.058J	1.1	370	7.9	76	180	320	100	0.14J	1,100	<8.2	<8.2	1,100	-2.5	12	
ANC-MW1	5/11/2018	20.3	6.88	3.0	35	186	6.0	3,008	1,800	<0.10		0.048J														13	
ANC-MW1	8/23/2018	21.1	6.72	1.0	10	249	5.0	2,780	1,800	1.0		0.14														10	
ANC-MW1	11/13/2018	21.4	6.70	0.7	9	227	1.0	2,637	1,500	0.86		0.13														11	
ANC-MW1	2/25/2019	20.5	6.78	0.5	7	214	1.0	2,776	1,700	0.50	0.070	0.15J	1.1	350	8.5	74	160	300	120	0.33	1,000	<8.2	<8.2	1,000	-2.4	13	
ANC-MW1	5/22/2019	22.1	7.12	2.3	28	133	1.0	2,703	1,600	<0.2		0.12J														13	
ANC-MW1	8/16/2019	22.1	6.90	2.1	24	122	3.0	2,817	1,600	0.54		0.08J														12	
ANC-MW1	11/12/2019	21.3	6.77	1.0	16	115	2.0	2,335	1,400	1.7		0.13J														11	
ANC-MW2	2/12/2012	19.7	6.84	0.9		85	3.0	2,424	1,600	20		0.025J														17	
ANC-MW2	5/11/2012	22.4	6.64	0.5		157	86	2,490	1,600	23	0.048J*	0.033J	0.99*	330	5.9	50	150	380	220	0.55*	440*	<8.2*	<8.2*	440	0.7	14	H
ANC-MW2	8/16/2012	20.3	6.80	0.6		221	5.0	2,511	1,600	26	0.47	0.027J	0.92	330	6.2	51	150	410	240	0.56	450	<8.2	<8.2	450	-2.4	14	
ANC-MW2	12/6/2012	20.6	7.44	1.0		-17	3.0	2,381	1,400	20		<0.050														14	
ANC-MW2	3/21/2013	19.6	7.55	6.0	70	97	40	2,182	1,600	17		0.054														14	
ANC-MW2	5/30/2013	21.1	7.38	0.6	7	139	2.0	2,223	1,400	15		0.043J														14	
ANC-MW2	8/27/2013	22.0	6.86	0.5	6	158	2.0	2,421	1,500	25	0.64	0.054	1.1	350	7.1	50	150	340	180	1.9	550	<8.2	<8.2	550	1.5	13	
ANC-MW2	11/14/2013	20.5	6.47	0.3	3	128	4.0	2,429	1,600	27		0.045J														13	
ANC-MW2	2/20/2014	20.2	6.36	1.0	11	254	2.0	2,453	1,500	21		0.040J														13	
ANC-MW2	5/22/2014	20.9	6.93	0.3	4	133	4.0	2,451	1,600	21		0.045J														13	
ANC-MW2	8/22/2014	21.2	7.06	0.6	6	161	4.0	2,903	1,900	28	0.46	0.036J	1.6	390	7.7	59	160	330	180	3.8	750	<8.2	<8.2	750	-0.3	12	
ANC-MW2	11/7/2014	23.7	7.14	3.9	44	43	64	2,697	1,700	17		0.058J														12	
ANC-MW2	2/6/2015	20.7	7.17	4.6	55	-17	2.0	2,444	1,600	20	0.73	0.047J	1.6	430	9.0	45	130	300	150	5.5	670	<8.2	<8.2	670	4.5	13	
ANC-MW2	5/13/2015	21.5	7.22	1.0	11	87	8.0	2,511	1,500	22		0.034J														12	
ANC-MW2	8/19/2015	22.6	7.18	1.4	16	102	21	2,366	1,600	24*		0.064J														9	H
ANC-MW2	11/17/2015	18.4	6.52	2.3	26	155	20	2,425	1,600	25		0.13														10	
ANC-MW2	2/23/2016	22.3	7.02	0.4	5	129	2.0	2,418	1,600	29	0.98	0.074J	1.5	330	9.1	44	120	290	120	3.5	630	<8.2	<8.2	630	-2.7	12	
ANC-MW2	5/19/2016	21.9	7.00	2.2	24	169	6.0	2,534	1,600	29		0.13														12	
ANC-MW2	8/19/2016	20.5	6.89	2.0	22	172	7.0	2,698	1,700	40		0.050J														11	
ANC-MW2	11/22/2016	21.0	6.84	0.5	5	169	2.0	2,567	1,800	48		0.055J														12	
ANC-MW2	3/15/2017	22.4	6.84	0.5	5	99	4.0	2,621	1,700	45	0.95	0.092J	1.2	340	11	68	200	390	190	2.1	490	<8.2	<8.2	490	4.3	20	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ANC-MW2	5/18/2017	21.9	6.91	0.7	8	130	2.5	2,663	1,900	43		0.12														20	
ANC-MW2	8/28/2017	21.5	6.84	0.6	8	107	1.0	2,514	1,900	49		0.073J														18	
ANC-MW2	11/22/2017	21.3	6.92	0.6	7	150	1.1	2,769	1,700	42		0.050J														15	
ANC-MW2	2/21/2018	20.9	7.09	0.6	7	220	4.2	2,780	1,900	47	0.89	0.055J	1.4	340	9.4	57	160	390	210	2.7	550	<8.2	<8.2	550	-3.8	15	
ANC-MW2	5/11/2018	21.6	6.85	1.4	16	158	7.0	2,838	2,000	50		0.070J														15	
ANC-MW2	8/22/2018	21.9	6.79	1.3	19	153	2.0	2,933	2,100	51		0.13														13	
ANC-MW2	11/13/2018	20.9	6.67	0.8	9	236	1.0	3,016	1,900	51		0.23														13	
ANC-MW2	2/25/2019	21.3	6.74	0.7	8	229	1.0	3,146	2,100	42	0.64	0.18J	1.7	380	11	65	190	360	250	3.3	780	<8.2	<8.2	780	-3.7	16	
ANC-MW2	5/22/2019	21.7	7.34	2.6	37	95	2.0	3,011	2,000	46		0.17J														16	
ANC-MW2	8/16/2019	22.5	6.95	1.9	21	121	3.0	3,093	2,100	49		0.16J														14	
ANC-MW2	11/12/2019	21.4	6.63	0.9	14	98	2.0	2,946	2,100	40		0.32														14	
ANC-MW3	2/12/2012	20.1	7.24	0.4		35	2.0	1,789	1,200	47		<0.05														14	
ANC-MW3	5/11/2012	21.0	6.97	0.8		146	3.0	1,850	1,200	48	0.036J*	<0.05	0.092J*	230	6.4	31	130	210	130	0.45*	400*	<8.2*	<8.2*	400	-2.2	13	H
ANC-MW3	8/16/2012	21.7	6.98	0.2		213	4.0	1,963	1,300	55	0.031J	<0.05	0.24	260	6.9	31	130	230	150	0.43	380	<8.2	<8.2	380	-1.5	14	
ANC-MW3	12/6/2012	21.6	7.55	0.7		57	4.0	2,112	1,300	59		<0.050														14	
ANC-MW3	3/21/2013	19.8	7.56	5.5	53	71	2.0	1,860	1,300	58		0.035J														13	
ANC-MW3	5/30/2013	21.6	7.56	0.7	8	142	1.0	1,950	1,300	54		0.021J														13	
ANC-MW3	8/27/2013	24.2	7.27	0.7	9	150	2.0	1,950	1,200	48	0.032J	0.022J	0.23	250	6.8	38	150	240	140	0.55	380	<8.2	<8.2	380	2.2	13	
ANC-MW3	11/14/2013	21.3	7.10	0.7	8	138	5.0	2,025	1,300	57		0.026J														13	
ANC-MW3	2/20/2014	20.6	6.57	0.6	7	257	2.0	2,070	1,300	55		0.028J														12	
ANC-MW3	5/22/2014	20.7	7.23	1.0	12	127	2.0	1,947	1,400	51		0.039J														12	
ANC-MW3	8/21/2014	23.6	7.20	0.4	4	133	3.0	1,780	1,100	42	0.027J	0.034J	<0.20	210	5.8	33	120	170	110	0.57	350	<8.2	<8.2	350	2.5	11	
ANC-MW3	11/7/2014	22.3	7.33	2.9	34	119	2.0	1,899	1,200	43		0.038J														11	
ANC-MW3	2/6/2015	21.3	7.31	4.1	43	36	1.0	1,911	1,300	48	0.039J	<0.10	0.49	250	6.7	41	150	230	130	0.35	360	<8.2	<8.2	360	5	12	
ANC-MW3	5/13/2015	21.2	7.20	0.8	9	102	19	1,891	1,200	56		0.63														11	
ANC-MW3	8/19/2015	24.4	7.40	2.6	33	74	4.0	1,978	1,300	67*		<0.10														8	H
ANC-MW3	11/17/2015	20.7	7.13	0.8	10	147	7.0	1,701	1,100	25		0.11														9	
ANC-MW3	2/23/2016	21.5	7.28	0.4	5	0	4.0	1,760	1,100	34	0.029J	0.36	0.95	220	6.4	33	120	220	140	1.9	360	<8.2	<8.2	360	-0.9	11	
ANC-MW3	5/19/2016	21.2	7.11	1.7	20	165	5.0	2,060	1,300	44		0.15														11	
ANC-MW3	8/19/2016	22.3	7.22	0.7	9	171	1.0	2,136	1,500	50		0.037J														10	
ANC-MW3	11/22/2016	21.1	7.16	0.5	6	150	3.0	1,846	1,200	35		<0.10														10	
ANC-MW3	3/15/2017	21.2	7.23	0.6	7	50	4.0	1,964	1,300	40	0.12	0.056J	0.44	270	6.6	43	160	230	150	0.56	420	<8.2	<8.2	420	5.8	19	
ANC-MW3	5/18/2017	20.1	7.18	0.9	11	89	6.1	2,001	1,300	50		0.14														19	
ANC-MW3	8/28/2017	21.7	7.16	0.5	6	107	3.0	1,811	1,300	39		0.040J														17	
ANC-MW3	11/22/2017	22.2	7.22	0.9	11	210	3.4	1,745	1,200	45		0.020J														15	
ANC-MW3	2/21/2018	20.8	7.50	1.4	16	222	5.1	1,427	1,000	36	0.014J	<0.10	<0.20	190	5.1	23	95	130	88	0.24	320	<8.2	<8.2	320	1.9	14	
ANC-MW3	5/11/2018	20.2	7.31	3.6	41	98	6.0	1,266	1,100	30		0.042J														15	
ANC-MW3	8/22/2018	21.9	7.19	2.1	31	100	8.0	1,138	760	28		0.049J														12	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ANC-MW3	11/13/2018	21.8	7.05	1.5	16	204	1.0	1,160	720	27		0.10														13	
ANC-MW3	2/25/2019	20.7	7.28	0.7	9	206	3.0	1,137	700	15	<0.050	0.071J	0.24	130	4.0	19	68	110	90	0.37	280	<8.2	<8.2	280	-4.2	15	
ANC-MW3	5/22/2019	21.1	7.57	2.0	31	84	4.0	1,279	770	22		<0.2														16	
ANC-MW3	8/16/2019	21.8	7.33	2.2	30	86	3.0	1,452	760	28		<0.2														14	
ANC-MW3	11/12/2019	22.1	7.10	1.4	22	94	3.0	1,000	550	24		0.14J														13	
ANC-MW4	2/12/2012	19.5	6.74	1.2		130	15	1,669	1,100	8.0		<0.05														14	
ANC-MW4	5/11/2012	20.6	6.44	1.1		220	16	1,560	1,000	33	<0.05*	<0.05	0.15J*	120	8.6	48	130	140	110	1.5*	360*	<8.2*	<8.2*	360	0.1	14	H
ANC-MW4	8/16/2012	21.0	6.93	0.4		217	62	1,266	820	36	<0.05	<0.05	0.15J	140	6.5	33	90	150	110	1.1	230	<8.2	<8.2	230	-1	14	
ANC-MW4	12/6/2012	20.4	7.98	1.7		52	92	890	550	29		<0.050														13	
ANC-MW4	3/21/2013	18.0	7.82	5.5	60	101	35	681	520	23		0.027J														13	
ANC-MW4	5/30/2013	21.0	7.60	1.4	15	134	2.0	781	500	26		0.020J														13	
ANC-MW4	8/27/2013	21.1	7.12	1.2	13	166	1.0	1,121	800	39	0.0041J	0.022J	0.099J	140	5.7	26	71	98	75	1.3	200	<8.2	<8.2	200	3.3	13	
ANC-MW4	11/14/2013	20.6	6.78	1.5	17	148	7.0	1,644	1,100	50		0.024J														13	
ANC-MW4	2/20/2014	19.9	6.48	1.2	14	252	3.0	1,201	710	43		0.027J														12	
ANC-MW4	5/22/2014	20.2	7.25	1.2	13	130	4.0	976	670	36		<0.10														12	
ANC-MW4	8/22/2014	22.4	7.36	1.6	17	150	4.0	1,301	900	41	<0.050	<0.10	<0.20	140	5.6	30	77	130	85	1.1	200	<8.2	<8.2	200	0.6	11	
ANC-MW4	11/7/2014	21.4	7.25	4.2	45	112	2.0	1,017	610	32		<0.10														11	
ANC-MW4	2/6/2015	19.6	7.35	4.3	50	-81	8.0	782	560	32	<0.050	<0.10	0.18J	88	5.2	22	57	40	37	1.1	180	<4.1	<4.1	180	4.9	12	
ANC-MW4	5/13/2015	20.8	7.00	2.1	24	96	3.0	903	550	31		<0.10														11	
ANC-MW4	8/19/2015	22.2	7.48	3.5	40	93	195	1,133	840	47*		<0.10														8	H
ANC-MW4	11/17/2015	18.7	6.66	2.3	26	162	94	1,404	920	54		0.045J														9	
ANC-MW4	2/23/2016	21.1	7.12	0.6	7	97	6.0	1,227	800	36	<0.050	0.038J	<0.20	140	5.6	28	72	110	65	3.0	250	<8.2	<8.2	250	0.1	11	
ANC-MW4	5/19/2016	20.4	6.83	2.4	26	181	10	1,011	650	30		0.032J														11	
ANC-MW4	8/19/2016	19.6	6.80	3.6	39	191	225	1,538	1,100	61		0.030J														9	
ANC-MW4	11/22/2016	20.0	6.99	1.0	11	172	5.0	1,503	1,000	57		0.035J														10	
ANC-MW4	3/15/2017	21.7	6.87	0.4	5	70	4.0	1,571	1,000	28	<0.050	0.060J	0.31	190	7.4	42	110	160	93	1.4	410	<8.2	<8.2	410	2.1	18	
ANC-MW4	5/18/2017	20.7	7.02	0.9	10	125	2.5	1,440	980	30		0.066J														19	
ANC-MW4	8/28/2017	20.8	6.84	0.7	9	122	1.0	1,869	1,300	71		0.13														17	
ANC-MW4	11/22/2017	21.2	6.95	0.6	8	179	1.7	1,619	1,000	44		<0.1														14	
ANC-MW4	2/21/2018	20.6	7.20	0.7	9	225	5.0	1,380	960	33	<0.050	0.021J	<0.20	150	6.8	35	99	130	86	1.0	330	<8.2	<8.2	330	0.3	14	
ANC-MW4	5/11/2018	20.7	6.88	3.4	39	197	6.0	1,350	960	36		0.066J														14	
ANC-MW4	8/23/2018	20.5	6.77	1.0	10	244	3.0	840	610	28		0.084J														12	
ANC-MW4	11/13/2018	21.3	6.51	1.6	19	215	1.0	823	570	34		0.12														12	
ANC-MW4	2/25/2019	20.9	6.73	1.2	14	203	1.0	1,293	940	57	<0.050	0.059J	<0.20	130	5.6	29	82	68	96	1.1	220	<8.2	<8.2	220	-0.6	14	
ANC-MW4	5/22/2019	21.4	7.67	2.4	31	150	2.0	1,354	740	47		<0.2														15	
ANC-MW4	8/16/2019	21.4	6.93	2.2	29	121	3.0	1,453	980	28		<0.2														14	
ANC-MW4	11/12/2019	21.6	6.59	1.5	24	142	2.0	1,027	700	23		0.16J														13	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ANC-MW5s	2/12/2012	19.5	7.92	1.5		178	>1,000	3,330	2,100	18		0.029J														12	
ANC-MW5s	5/11/2012	19.9	7.52	0.6		181	328	3,590	2,300	16	<0.05*	0.029J	0.74*	770	3.8	16	28	450	270	1.8*	920*	<8.2*	<8.2*	920	-2.2	7	H
ANC-MW5s	8/16/2012	20.5	7.29	0.7		232	129	3,550	2,200	11	0.53	0.026J	0.79	840	3.5	15	24	450	300	1.3	980	<8.2	<8.2	980	-0.4	9	
ANC-MW5s	12/6/2012	20.1	8.10	1.1		52	91	3,618	2,200	11		<0.050														11	
ANC-MW5s	3/21/2013	19.0	8.24	6.5	63	73	15	3,334	2,400	13		0.050														9	
ANC-MW5s	5/30/2013	21.8	7.92	3.0	34	130	95	3,316	2,200	11		0.045J														10	
ANC-MW5s	8/27/2013	21.2	7.71	0.5	6	147	112	3,278	2,200	9.5	0.42	0.042J	0.68	760	2.9	14	22	410	220	2.8	950	<8.2	<8.2	950	-0.8	10	
ANC-MW5s	11/14/2013	20.5	7.50	1.1	14	127	59	3,415	2,300	11		0.040J														10	
ANC-MW5s	2/20/2014	18.5	7.05	1.4	14	238	65	3,486	2,100	11		0.033J														9	
ANC-MW5s	5/22/2014	19.7	8.00	0.8	9	123	30	3,362	2,200	8.8		<0.10														9	
ANC-MW5s	8/22/2014	21.5	8.06	0.3	4	139	29	3,428	2,200	8.7	0.18	<0.10	0.58	730	2.5	15	21	390	210	2.1	930	<8.2	<8.2	930	-0.8	7	
ANC-MW5s	11/7/2014	20.5	7.76	4.2	47	99	50	3,555	LE	9.4		LE														8	
ANC-MW5s	2/6/2015	19.6	8.03	3.3	39	50	70	3,465	2,200	15	0.062	<0.10	1.0	830	3.3	19	32	400	250	1.9	980	<8.2	<8.2	980	2.8	9	
ANC-MW5s	5/13/2015	20.8	7.72	1.5	16	79	20	3,476	2,200	9.3		<0.10														8	
ANC-MW5s	8/19/2015	26.6	7.80	4.1	53	66	24	3,340	2,600	9.6*		0.050J														5	H
ANC-MW5s	11/17/2015	20.0	7.08	2.6	29	152	80	3,531	2,200	9.2		0.059J														6	
ANC-MW5s	2/23/2016	20.7	7.82	0.6	7	75	28	3,349	2,100	11	0.039J	0.044J	0.90	710	2.5	16	26	390	220	2.0	950	<8.2	<8.2	950	-2.7	7	
ANC-MW5s	5/19/2016	20.4	7.77	4.6	53	199	13	3,629	2,600	8.8		0.051J														8	
ANC-MW5s	8/19/2016	22.0	7.62	1.1	11	181	87	3,642	2,400	7.1		0.036J														5	
ANC-MW5s	11/22/2016	18.2	7.78	0.7	8	152	9.0	3,492	2,300	7.0		0.035J														6	
ANC-MW5s	3/15/2017	22.2	7.41	1.0	12	77	45	3,037	1,900	10	0.12	0.062J	0.59	670	2.4	16	31	320	220	2.0	830	<8.2	<8.2	830	1.7	14	
ANC-MW5s	5/18/2017	21.1	7.37	1.1	13	118	28.7	2,947	2,100	13		0.076J														15	
ANC-MW5s	8/28/2017	21.5	7.16	1.0	12	114	31	3,264	2,200	17		0.050J														14	
ANC-MW5s	11/22/2017	20.8	7.28	1.1	12	201	15.23	3,611	2,400	14		0.021J														12	
ANC-MW5s	2/21/2018	20.5	7.70	1.1	12	229	12.27	3,632	2,400	17	0.013J	0.022J	0.65	760	2.5	22	51	460	260	0.79	1,000	<8.2	<8.2	1,000	-2.8	12	
ANC-MW5d	5/11/2018	20.4	7.73	3.3	38	163	7.0	1,946	1,300	11		0.058J														29	
ANC-MW5d	8/23/2018	20.4	7.74	0.7	7	213	5.0	2,479	1,700	5.5		0.13														26	
ANC-MW5d	11/13/2018	20.0	7.53	0.6	7	214	1.0	1,824	1,200	4.5		0.15														28	
ANC-MW5d	2/25/2019	20.0	7.66	0.8	8	208	1.0	1,836	1,200	5.7	0.13	0.053J	0.24	300	3.4	23	44	220	190	0.71	410	<8.2	<8.2	410	-4.4	29	
ANC-MW5s	5/22/2019	21.1	7.68	2.2	33	130	12	3,618	2,300	13		0.10J														13	
ANC-MW5s	8/16/2019	22.7	7.47	1.8	21	78	8.0	3,636	2,200	12		<0.2														11	
ANC-MW5s	11/12/2019	22.0	7.45	1.3	22	99	11	3,470	2,300	8.9		0.18J														10	
ANC-MW6s	2/12/2012	20.0	6.89	2.0		189	4.0	2,047	1,400	33		0.035J														13	
ANC-MW6s	5/11/2012	21.0	6.64	1.0		183	4.0	1,984	1,300	38	0.080*	0.046J	1.2*	260	11	36	100	250	140	22*	350*	<8.2*	<8.2*	350	-2.1	12	H
ANC-MW6s	8/16/2012	22.0	6.80	0.5		217	2.0	1,950	1,300	38	0.74	0.052	1.3	280	11	36	100	270	130	25	410	<8.2	<8.2	410	-3.9	12	
ANC-MW6s	12/6/2012	23.2	7.43	0.8		63	3.0	1,782	1,100	28		<0.050														12	
ANC-MW6s	3/21/2013	20.4	7.24	5.9	61	90	2.0	1,923	1,400	51		0.072														12	
ANC-MW6s	5/30/2013	22.8	7.30	2.7	33	140	2.0	1,714	1,200	32		0.049J														12	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ANC-MW6s	8/27/2013	24.7	7.08	0.4	5	161	2.0	1,378	970	20	0.83	0.048J	1.4	190	7.8	25	72	150	85	28	340	<8.2	<8.2	340	-3.6	12	
ANC-MW6s	11/14/2013	23.4	6.83	0.7	8	146	6.0	1,337	940	20		0.043J														11	
ANC-MW6s	2/20/2014	22.6	6.50	0.8	10	256	2.0	1,332	860	19		0.042J														11	
ANC-MW6s	5/22/2014	22.8	7.06	0.6	7	127	2.0	1,229	860	19		0.035J														11	
ANC-MW6s	8/21/2014	26.0	7.11	0.2	3	137	3.0	1,247	800	20	0.67	0.054J	0.49	170	6.3	21	60	120	74	22	240	<8.2	<8.2	240	1.6	10	
ANC-MW6s	11/7/2014	25.9	6.87	2.8	34	116	2.0	1,486	940	25		0.036J														10	
ANC-MW6s	2/6/2015	22.8	7.09	3.9	47	51	1.0	1,606	1,100	30	0.45	<0.10	1.1	200	8.4	39	110	210	120	16	310	<8.2	<8.2	310	0.9	10	
ANC-MW6s	5/13/2015	23.6	6.89	0.7	9	125	2.0	1,850	1,200	32		<0.10														10	
ANC-MW6s	8/19/2015	27.6	6.93	1.5	19	86	3.0	1,911	1,400	34*		0.10														7	H
ANC-MW6s	11/17/2015	25.4	6.27	0.6	8	162	5.0	2,278	1,400	65		0.069J														8	
ANC-MW6s	2/23/2016	25.1	6.91	0.5	7	93	2.0	2,571	1,700	84	0.19	0.073J	1.6	290	14	56	170	330	170	14	370	<8.2	<8.2	370	-1.2	9	
ANC-MW6s	5/19/2016	24.6	6.77	1.6	20	175	6.0	3,211	2,000	120		0.073J														10	
ANC-MW6s	8/19/2016	26.0	6.73	0.5	7	172	1.0	2,489	1,800	78		0.048J														8	
ANC-MW6s	11/22/2016	25.0	6.78	0.5	6	186	3.0	2,769	2,000	84		0.043J														9	
ANC-MW6s	3/15/2017	25.8	6.65	0.4	5	106	3.0	2,338	1,600	51	0.61	0.38	1.5	280	20	52	160	320	170	14	400	<8.2	<8.2	400	0.6	16	
ANC-MW6s	5/18/2017	23.8	6.77	0.7	10	114	2.1	2,466	1,800	62		0.094J														17	
ANC-MW6s	8/28/2017	25.4	6.55	0.5	7	116	1.0	2,299	1,700	43		1.2														16	
ANC-MW6s	11/22/2017	25.7	6.86	0.7	8	163	2.0	2,373	1,600	47		<0.1														13	
ANC-MW6s	2/21/2018	23.9	6.95	0.6	7	226	4.9	2,681	1,800	78	0.040J	0.046J	0.90	340	22	51	150	360	200	13	400	<8.2	<8.2	400	-2.3	12	
ANC-MW6s	5/11/2018	23.7	6.64	1.1	15	149	6.0	2,729	2,000	78		0.046J														13	
ANC-MW6s	8/22/2018	24.6	6.72	1.5	21	184	3.0	2,498	1,700	53		0.074J														10	
ANC-MW6s	11/13/2018	24.7	6.64	0.7	8	224	1.0	2,209	1,500	33		0.19														11	
ANC-MW6s	2/25/2019	24.1	6.79	0.8	9	205	1.0	2,122	1,400	29	0.68	0.13J	1.2	240	19	38	120	300	180	12	360	<8.2	<8.2	360	-4.4	13	
ANC-MW6s	5/22/2019	23.2	7.15	2.1	29	126	2.0	2,243	1,400	37		0.14J														14	
ANC-MW6s	8/16/2019	24.0	6.80	2.1	27	127	2.0	2,475	940	56		0.083J														12	
ANC-MW6s	11/12/2019	25.1	6.80	1.0	12	115	2.0	2,606	1,600	66		0.21														11	
ANC-MW7s	2/12/2012	19.5	7.24	1.6		164	9.0	1,381	920	36		<0.05														13	
ANC-MW7s	5/11/2012	21.4	7.05	1.8		151	6.0	1,364	870	44	<0.05*	<0.05	<0.2*	140	2.8	28	100	130	67	0.47*	260*	<8.2*	<8.2*	260	0.1	11	H
ANC-MW7s	8/16/2012	21.2	7.02	1.5		204	9.0	1,288	820	37	<0.05	<0.05	0.070J	140	2.7	27	95	170	68	0.50	260	<8.2	<8.2	260	-3.5	14	
ANC-MW7s	12/6/2012	21.1	7.90	1.9		67	18	1,287	780	27		<0.050														12	
ANC-MW7s	3/21/2013	18.8	7.83	5.4	60	65	10	1,122	800	19		0.026J														12	
ANC-MW7s	5/30/2013	20.8	7.78	5.4	63	133	3.0	1,482	980	37		<0.050														12	
ANC-MW7s	8/27/2013	22.9	7.49	1.8	22	151	2.0	1,563	960	34	0.0059J	0.025J	0.17J	160	2.6	35	120	200	85	0.78	300	<8.2	<8.2	300	0.1	13	
ANC-MW7s	11/14/2013	20.9	6.99	1.2	14	151	5.0	1,447	940	22		0.023J														12	
ANC-MW7s	2/20/2014	20.8	6.80	1.0	11	257	3.0	1,307	760	19		<0.050														11	
ANC-MW7s	5/22/2014	20.7	7.24	1.3	14	129	3.0	1,276	780	18		<0.10														12	
ANC-MW7s	8/21/2014	22.9	7.70	1.3	15	135	3.0	1,396	810	32	<0.050	0.045J	<0.20	150	2.2	29	100	160	59	0.58	240	<8.2	<8.2	240	4.2	9	
ANC-MW7s	11/7/2014	21.8	7.36	3.9	42	119	4.0	1,367	820	18		<0.10														10	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ANC-MW7s	2/6/2015	20.9	7.31	4.8	55	53	1.0	1,227	780	15	<0.050	<0.10	0.086J	150	2.6	28	84	170	64	0.52	260	<8.2	<8.2	260	2.6	11	
ANC-MW7s	5/13/2015	21.2	7.45	1.5	17	114	12	1,341	900	25		<0.10														10	
ANC-MW7s	8/19/2015	23.2	7.41	2.2	26	90	3.0	1,412	940	29*		<0.10														7	H
ANC-MW7s	11/17/2015	21.0	6.60	1.1	13	167	5.0	1,537	960	30		0.043J														8	
ANC-MW7s	2/23/2016	22.1	7.20	0.8	9	92	2.0	1,541	840	26*	0.067	0.031J	0.43	180	2.8	33	100	190	85	0.72	350	<8.2	<8.2	350	-1.3	9	H
ANC-MW7s	5/19/2016	21.5	7.19	1.3	16	163	6.0	1,615	1,000	27		0.036J														10	
ANC-MW7s	8/19/2016	21.7	7.15	1.2	14	170	2.0	1,652	1,100	29		0.027J														9	
ANC-MW7s	11/22/2016	20.6	7.21	0.9	11	168	3.0	1,635	1,100	34		<0.10														9	
ANC-MW7s	3/15/2017	21.3	7.29	0.9	10	111	3.0	1,595	1,000	25	<0.050	0.091J	0.28	210	2.4	33	110	220	95	0.65	340	<8.2	<8.2	340	1.8	15	
ANC-MW7s	5/18/2017	20.7	7.27	1.1	13	126	3.0	1,415	950	24		0.066J														17	
ANC-MW7s	8/28/2017	21.3	7.24	0.8	9	106	1.0	1,301	860	26		0.036J														16	
ANC-MW7s	11/22/2017	21.6	7.65	1.0	12	144	2.3	1,338	820	17		0.020J														13	
ANC-MW7s	2/21/2018	20.6	7.59	0.8	10	222	4.2	1,280	840	20	<0.050	0.023J	0.49	180	2.5	20	66	170	69	0.74	270	<8.2	<8.2	270	-1	12	
ANC-MW7s	5/11/2018	21.3	7.31	1.4	16	108	7.0	1,146	750	16		0.028J														14	
ANC-MW7s	8/22/2018	21.8	7.30	1.2	21	164	4.0	1,124	700	14		0.045J														9	
ANC-MW7s	11/13/2018	21.5	6.99	0.8	9	221	2.0	1,163	720	15		0.11														11	
ANC-MW7s	2/25/2019	20.8	7.11	0.8	9	203	3.0	1,484	900	24	<0.050	0.060J	0.32	170	2.2	24	77	190	90	0.55	280	<8.2	<8.2	280	-4.6	13	
ANC-MW7s	5/22/2019	20.7	7.49	2.0	29	137	3.0	1,576	1,000	24		<0.2														14	
ANC-MW7s	8/16/2019	21.2	6.82	1.8	27	164	2.0	1,459	940	24		<0.2														11	
ANC-MW7s	11/12/2019	21.6	7.05	1.0	19	90	2.0	1,609	1,100	29		0.23														10	
BET-MW1s	2/8/2012	19.0	6.21	2.9		309	20	610	490	36		0.055														12	
BET-MW1s	5/10/2012	19.4	6.15	1.5		183	30	760	690	57	<0.05*	0.055	0.29*	30	22	21	64	30	22	3.1*	53*	<4.1*	<4.1*	53	2	8	H
BET-MW1s	8/14/2012	19.7	6.72	1.2		64	8.0	522	410	31	0.014J	<0.05	0.66	23	12	14	43	30	18	3.3	52	<4.1	<4.1	52	0.3	6	
BET-MW1s	12/7/2012	21.3	6.12	1.1		97	4.0	501	370	23		0.038J														9	
BET-MW1s	3/21/2013	19.7	6.96	2.1	22	179	2.6	386	350	21		0.032J														8	
BET-MW1s	5/30/2013	22.3	6.32	1.7	18	177	2.0	457	370	28		0.047J														7	
BET-MW1s	8/26/2013	22.6	6.73	2.4	26	192	2.0	663	530	37	<0.050	0.044J	0.71	39	6.8	18	55	49	23	5.0	69	<4.1	<4.1	69	0.5	4	
BET-MW1s	11/15/2013	21.4	6.19	1.2	13	288	1.0	577	400	26		0.043J														5	
BET-MW1s	2/24/2014	21.2	7.38	1.4	15	183	2.0	625	410	24		0.046J														4	
BET-MW1d	5/23/2014	19.9	6.61	0.9	10	165	3.0	566	440	25		0.12														12	
BET-MW1d	8/25/2014	21.5	6.80	1.3	14	136	4.0	554	410	27	<0.050	0.047J	0.69	29	6.5	13	47	42	21	1.5	59	<4.1	<4.1	59	0.7	11	
BET-MW1d	11/11/2014	20.7	6.73	4.7	53	148	1.0	553	480	27		0.059J														16	
BET-MW1s	2/10/2015	21.7	7.04	1.0	11	132	1.0	678	540	39	<0.050	<0.10	0.53	35	7.4	22	67	39	21	2.9	78	<4.1	<4.1	78	7	3	
BET-MW1d	5/15/2015	22.0	6.82	1.6	18	134	2.0	591	500	30		0.092J														13	
BET-MW1d	8/18/2015	21.2	6.84	1.3	19	108	6.0	593	520	26		0.056J														13	
BET-MW1d	11/11/2015	19.8	7.31	2.7	30	156	26	589	480	29		<0.10														16	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
BET-MW1d	2/22/2016	20.7	6.72	0.5	6	131	3.0	567	450	28	<0.050	0.053J	0.47	30	5.6	17	58	44	20	1.5	91	<4.1	<4.1	91	2	16	
BET-MW1s	5/19/2016	21.9	6.30	1.3	20	121	4.0	676	510	39		<0.10														3	
BET-MW1s	8/19/2016	22.9	5.83	2.0	24	170	5.0	854	840	65		0.030J														2	
BET-MW1s	11/22/2016	21.4	6.85	0.5	6	186	20	614	490	30		0.028J														5	
BET-MW1s	3/15/2017	21.2	6.76	0.7	8	135	0.8	738	570	36	<0.050	<0.10	0.44	34	8.2	23	80	50	23	1.9	120	<4.1	<4.1	120	4.5	8	
BET-MW1s	5/18/2017	21.8	6.63	1.1	13	134	3.8	809	670	49		0.066J														10	
BET-MW1s	8/25/2017	22.1	6.53	2.3	27	113	3.0	758	690	55		0.021J														11	
BET-MW1s	11/27/2017	21.5	6.80	2.4	27	243	2.6	645	540	45		<0.1														11	
BET-MW1s	2/22/2018	20.5	6.78	2.2	25	262	5.0	753	710	56	<0.050	0.025J	<0.20	29	16	20	62	29	24	4.0	72	<4.1	<4.1	72	-3.5	10	
BET-MW1s	5/10/2018	21.1	6.24	2.9	34	213	6.0	946	810	64		0.072J														10	
BET-MW1s	8/24/2018	21.8	6.02	1.8	18	255	4.0	1,060	810	86		0.11														12	
BET-MW1s	11/13/2018	22.1	5.92	2.1	25	240	1.0	989	800	80		0.17														12	
BET-MW1s	2/21/2019	20.1	6.22	1.1	13	238	2.0	1,383	1,000	110	<0.050	0.079J	0.10J	49	21	37	120	71	44	3.0	100	<8.2	<8.2	100	-4.7	13	
BET-MW1s	5/17/2019	21.1	6.36	2.1	21	248	3.0	1,479	960	140		0.13J														11	
BET-MW1s	8/16/2019	22.7	6.14	1.0	15	230	3.0	1,476	1,400	140		<0.2														11	
BET-MW1s	11/11/2019	23.7	5.75	1.7	21	168	1.0	494	440	36		0.11J														9	
BET-MW2s	2/8/2012	18.2	6.25	2.6		305	15	820	700	44		<0.05														5	
BET-MW2s	5/10/2012	19.3	6.37	1.2		161	12	755	630	39	0.010J*	0.026J	0.35*	48	20	18	59	51	28	6.6*	100*	<4.1*	<4.1*	100	0.1	2	H
BET-MW2s	8/14/2012	21.0	6.74	1.1		50	12	610	480	29	<0.05	<0.05	0.54	35	5.3	16	52	35	18	6.5	110	<4.1	<4.1	110	-2.3	4	
BET-MW2s	12/7/2012	21.9	6.36	2.8		69	12	722	560	28		<0.050														2	
BET-MW2d	3/21/2013	20.0	6.93	2.4	25	186	2.2	548	480	30		0.028J														17	
BET-MW2d	5/30/2013	21.8	6.34	0.7	8	151	11	524	450	28		0.032J														15	
BET-MW2d	8/26/2013	21.7	6.54	1.4	15	196	1.0	508	450	23	<0.050	0.032J	0.74	30	3.9	13	52	43	22	1.8	76	<4.1	<4.1	76	1.8	15	
BET-MW2d	11/15/2013	20.2	5.86	1.8	19	305	1.0	653	560	37		0.022J														13	
BET-MW2d	2/24/2014	20.9	6.76	2.0	23	207	1.0	721	600	39		0.019J														12	
BET-MW2d	5/23/2014	19.9	6.49	1.2	14	170	2.0	593	450	28		<0.10														10	
BET-MW2d	8/25/2014	20.8	7.02	1.7	19	133	3.0	573	440	22	<0.050	<0.10	0.84	31	5.0	13	50	50	23	1.3	74	<4.1	<4.1	74	0.6	10	
BET-MW2d	11/11/2014	20.9	6.73	4.9	58	159	1.0	877	740	49		0.038J														11	
BET-MW2d	2/10/2015	21.6	6.91	2.0	23	132	1.0	761	600	39	<0.050	<0.10	0.95	48	7.2	19	74	64	31	1.4	75	<4.1	<4.1	75	5.2	12	
BET-MW2d	5/15/2015	20.4	6.74	2.6	31	187	3.0	662	580	33		0.30														9	
BET-MW2d	8/18/2015	24.1	6.92	1.1	17	107	5.0	724	660	36		<0.10														11	
BET-MW2d	11/11/2015	20.2	7.26	4.9	56	164	61	786	630	39		<0.10														11	
BET-MW2d	2/22/2016	20.7	6.62	1.6	19	141	4.0	717	570	38	<0.050	<0.10	0.52	47	5.8	19	70	59	29	1.7	95	<4.1	<4.1	95	2.2	11	
BET-MW2d	5/19/2016	22.6	6.43	0.8	13	125	1.0	749	570	39		0.034J														11	
BET-MW2d	8/19/2016	21.3	5.92	1.8	21	165	1.0	734	630	37		0.063J														12	
BET-MW2d	11/22/2016	21.5	6.90	1.5	17	189		691	550	34		0.037J														0	
BET-MW2d	3/15/2017	21.4	6.67	1.5	18	150	0.3	715	570	35	<0.050	0.026J	0.86	48	5.8	18	70	43	28	1.7	110	<4.1	<4.1	110	4.8	15	
BET-MW2s	5/18/2017	21.9	6.44	0.7	9	140	11.76	907	650	20		0.087J														2	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
BET-MW2s	8/25/2017	24.0	6.56	0.7	9	65	8.0	1,275	940	28		0.23														6	
BET-MW2s	11/27/2017	21.9	6.56	0.6	8	45	4.1	1,877	1,300	1.6		0.21														5	
BET-MW2s	2/22/2018	19.8	6.63	0.8	9	262	4.8	1,547	1,100	9.0	0.34	0.046J	1.5	63	50	44	140	270	70	1.3	330	<8.2	<8.2	330	-5.6	5	
BET-MW2s	5/10/2018	21.7	6.24	1.6	19	139	7.0	1,424	940	0.10		0.38														3	
BET-MW2s	8/24/2018	24.1	6.35	0.5	5	248	5.0	1,621	1,200	25		0.18														7	
BET-MW2s	11/13/2018	23.0	6.32	1.1	13	236	1.0	2,434	1,600	28		0.29														5	
BET-MW2s	2/21/2019	19.0	6.42	0.6	8	231	1.0	1,603	1,100	5.2	0.11	0.24	1.3	64	92	38	130	270	61	2.2	320	<8.2	<8.2	320	-3.2	6	
BET-MW2s	5/17/2019	20.9	6.18	2.7	28	244	2.0	1,929	1,700	0.45		0.27														7	
BET-MW2s	8/16/2019	24.5	6.57	0.8	12	209	4.0	1,651	1,100	29		0.19J														7	
BET-MW2s	11/11/2019	23.8	5.84	1.2	14	157	1.9	2,253	2,000	120		0.18J														3	
BET-MW3s	2/8/2012	18.7	6.12	2.5		308	14	1,022	710	82		<0.05														6	
BET-MW3s	5/10/2012	19.3	5.94	2.1		186	23	1,200	1,100	98	0.010J*	0.025J	0.45*	30	37	38	110	52	61	4.2*	56*	<8.2*	<8.2*	56	-0.5	4	H
BET-MW3s	8/14/2012	21.0	6.45	2.1		75	17	799	670	63*	<0.05	<0.05	0.62	24	24	22	67	24	33	4.9	68	<4.1	<4.1	68	-4	6	H
BET-MW3s	12/7/2012	21.8	6.31	1.8		75	6.0	807	640	53*		<0.050														4	H
BET-MW3s	3/21/2013	18.9	6.80	2.0	22	198	49.5	805	740	64		0.029J														4	
BET-MW3s	5/30/2013	23.1	6.07	1.4	17	167	3.0	884	720	63		0.022J														3	
BET-MW3s	8/26/2013	24.0	6.34	1.5	20	206	5.0	795	680	52	<0.050	0.040J	0.46	23	22	25	77	44	26	5.4	92	<4.1	<4.1	92	-0.3	3	
BET-MW3d	11/15/2013	19.0	5.94	0.5	6	304	1.0	561	460	23		0.025J														14	
BET-MW3d	2/24/2014	23.8	6.70	2.3	27	212	2.0	599	480	25		0.028J														13	
BET-MW3d	5/23/2014	20.0	6.39	1.1	13	162	2.0	663	480	28		<0.10														11	
BET-MW3d	8/25/2014	23.2	7.45	0.9	10	127	2.0	696	540	28	<0.050	<0.10	1.0	36	4.8	18	61	63	27	0.93	86	<4.1	<4.1	86	1	11	
BET-MW3d	11/11/2014	20.0	6.58	5.1	56	170	1.0	717	600	31		<0.10														12	
BET-MW3d	2/10/2015	20.2	6.78	0.6	7	138	1.0	703	550	33	<0.050	<0.10	0.81	44	5.6	19	64	68	23	1.1	72	<4.1	<4.1	72	4.5	13	
BET-MW3d	5/15/2015	20.4	6.76	2.0	24	202	5.0	685	620	33		0.044J														10	
BET-MW3d	8/18/2015	24.1	6.81	0.2	4	107	4.0	561	510	23		<0.10														11	
BET-MW3d	11/11/2015	22.3	7.77	6.8	79	156	15	653	520	30		<0.10														11	
BET-MW3d	2/22/2016	20.8	6.61	0.4	5	135	4.0	458	370	18	<0.050	0.037J	0.68	35	4.3	12	41	34	17	1.4	94	<4.1	<4.1	94	1.6	11	
BET-MW3d	5/19/2016	22.7	6.48	0.7	11	116	1.0	505	390	19		0.054J														11	
BET-MW3d	8/19/2016	21.7	5.83	1.1	13	172	2.0	739	670	33		0.029J														13	
BET-MW3d	11/22/2016	20.5	6.46	0.6	6	191	1.0	744	610	35		0.038J														14	
BET-MW3s	3/15/2017	22.8	6.55	0.8	9	151	9.5	854	640	34	0.040J	0.020J	0.31	46	16	25	95	52	24	4.2	200	<4.1	<4.1	200	3.8	3	
BET-MW3s	5/18/2017	22.0	6.49	0.7	8	146	8.4	804	610	24		0.080J														4	
BET-MW3s	8/25/2017	23.4	6.36	0.5	6	66	5.0	1,194	1,100	74		0.023J														9	
BET-MW3s	11/27/2017	23.4	6.57	0.4	6	131	3.3	1,357	1,000	55		<0.1														6	
BET-MW3s	2/22/2018	20.8	6.59	0.7	8	258	4.2	1,285	1,000	48	0.35	0.033J	0.10J	50	45	38	120	87	54	3.9	260	<8.2	<8.2	260	0.4	6	
BET-MW3s	5/10/2018	22.5	6.13	1.4	17	200	7.0	2,136	1,800	59		0.10														5	
BET-MW3s	8/24/2018	23.4	6.24	0.5	5	252	5.0	1,290	960	53		0.13														8	
BET-MW3s	11/13/2018	23.7	6.15	0.9	12	230	2.0	1,484	1,000	51		0.22														7	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
BET-MW3s	2/21/2019	20.6	6.39	0.6	7	222	1.0	901	640	34	0.21	0.084J	0.74	33	31	24	81	75	30	4.4	160	<4.1	<4.1	160	-1.6	7	
BET-MW3s	5/17/2019	21.0	6.27	1.9	20	255	13	1,284	1,000	42		0.16J														7	
BET-MW3s	8/16/2019	23.0	6.46	1.8	22	160	6.0	1,620	1,300	55		0.15J														8	
BET-MW3s	11/11/2019	23.3	5.53	1.5	18	162	2.0	2,307	2,200	130		0.25														4	
BET-MW4s	2/8/2012	19.3	6.64	2.6		311	209	1,572	820	31		<0.05														13	
BET-MW4s	5/10/2012	19.9	6.67	1.0		180	75	2,402	1,900	54	0.022J*	<0.05	1.1*	110	270	56	140	200	110	7.1*	580*	<8.2*	<8.2*	580	-0.7	8	H
BET-MW4s	8/14/2012	20.6	6.92	1.0		43	8.0	2,176	1,400	52	0.12	<0.05	1.4	100	270	41	100	200	110	6.6	500	<8.2	<8.2	500	-5.4	9	
BET-MW4s	12/7/2012	21.5	6.74	0.7		66	23	1,586	1,000	42		<0.050														12	
BET-MW4s	3/21/2013	19.2	7.08	0.9	10	190	33.4	2,252	1,500	51		0.053														8	
BET-MW4s	5/30/2013	20.7	6.56	0.8	9	194	7.0	1,807	1,200	49		0.027J														9	
BET-MW4s	8/26/2013	21.9	6.81	0.6	8	193	24	1,972	1,200	46	0.23	0.059	1.0	110	230	40	91	170	84	5.3	400	<8.2	<8.2	400	1.4	7	
BET-MW4s	11/15/2013	22.6	6.19	0.8	9	291	2.0	1,602	1,100	44		0.032J														9	
BET-MW4s	2/24/2014	21.7	6.85	2.0	24	216	2.0	1,404	920	38		0.030J														7	
BET-MW4d	5/23/2014	19.9	6.71	1.0	11	167	3.0	890	640	29		0.033J														18	
BET-MW4d	8/25/2014	22.0	6.59	0.4	4	140	2.0	1,221	1,100	28	0.099	<0.10	1.1	89	25	36	74	170	40	2.7	180	<8.2	<8.2	180	-0.7	17	
BET-MW4s	11/11/2014	21.6	6.81	4.3	50	153	7.0	1,147	850	32		<0.10														6	
BET-MW4s	2/10/2015	19.7	6.76	0.6	7	133	5.0	1,645	1,100	41	<0.050	<0.10	1.4	120	160	40	89	140	60	3.5	310	<8.2	<8.2	310	8.3	7	
BET-MW4s	5/15/2015	21.8	6.78	1.2	13	145	3.0	1,145	800	34		0.063J														4	
BET-MW4s	8/18/2015	23.6	6.85	0.3	5	111	4.0	1,504	1,100	34		<0.10														5	
BET-MW4s	11/11/2015	20.4	7.42	1.8	19	168	12	1,382	1,000	43		<0.10														6	
BET-MW4s	2/22/2016	20.0	6.85	0.7	8	128	5.0	1,350	990	38	<0.050	<0.10	0.92	82	180	28	66	120	57	3.5	300	<8.2	<8.2	300	1.4	5	
BET-MW4s	5/19/2016	22.3	6.68	0.4	7	103	2.0	1,723	960	37		0.038J														5	
BET-MW4s	8/19/2016	22.4	6.03	1.5	17	167	5.0	1,483	1,000	39		0.036J														7	
BET-MW4s	11/22/2016	21.7	6.85	0.4	5	190	2.0	1,465	1,000	38		0.027J														8	
BET-MW4s	3/15/2017	20.6	6.95	0.6	8	173	8.2	4,111	2,800	98	0.042J	0.048J	2.0	220	470	88	220	500	220	8.2	560	<8.2	<8.2	560	3.5	10	
BET-MW4s	5/18/2017	21.5	6.73	0.7	8	146	4.2	2,067	1,600	57		0.13														12	
BET-MW4s	8/25/2017	22.0	6.92	0.6	7	100	15	1,136	750	35		0.034J														15	
BET-MW4s	11/27/2017	22.6	6.85	0.4	6	222	2.5	2,211	1,400	44		0.030J														14	
BET-MW4s	2/22/2018	20.0	7.03	0.7	9	266	15.59	3,408	2,300	58	0.093	0.12	<0.20	170	440	56	130	440	180	9.3	590	<8.2	<8.2	590	-4.3	12	
BET-MW4s	5/10/2018	20.4	6.67	2.7	31	194	7.0	2,619	1,700	53		0.13														12	
BET-MW4s	8/24/2018	22.0	6.65	0.5	5	242	6.0	1,503	1,000	48		0.14														15	
BET-MW4s	11/13/2018	22.2	6.63	0.8	10	245	1.0	2,906	1,900	54		0.24														14	
BET-MW4s	2/21/2019	19.7	6.88	0.6	7	240	2.0	3,457	2,200	61	0.46	0.28	2.7	190	470	59	150	440	190	6.8	600	<8.2	<8.2	600	-0.5	15	
BET-MW4s	5/17/2019	19.9	6.71	1.6	16	280	2.0	2,882	2,000	60		0.19J														15	
BET-MW4s	8/16/2019	23.0	7.01	1.6	17	226	10	5,150	3,500	55		1.1														11	
BET-MW4s	11/11/2019	23.5	6.46	0.9	11	187	4.0	3,643	2,300	50		0.18J														8	
BET-MW5s	2/9/2012	21.0	6.84	1.3		162	26	838	700	51		<0.05														16	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
BET-MW5s	5/10/2012	18.8	6.57	2.1		155	16	890	790	58	0.013J*	<0.05	0.40*	31	3.2	34	88	43	44	0.48*	110*	<4.1*	<4.1*	110	0.8	15	H
BET-MW5s	8/14/2012	20.3	6.95	1.5		32	5.0	868	680	47	0.015J	<0.05	0.43	33	2.9	29	79	50	36	0.43	120	<4.1	<4.1	120	-0.6	19	
BET-MW5s	12/7/2012	21.3	6.79	1.0		71	28	996	840	67*		<0.050														15	H
BET-MW5s	3/21/2013	19.1	6.81	0.7	8	179	1.8	931.6	840	67		0.038J														15	
BET-MW5s	5/30/2013	21.7	6.45	0.6	7	144	2.0	930	740	62		0.021J														14	
BET-MW5s	8/26/2013	22.3	6.72	0.4	4	188	1.0	804	650	48	0.0047J	0.032J	0.49	34	3.1	31	84	57	34	0.63	120	<4.1	<4.1	120	0.9	19	
BET-MW5s	11/15/2013	20.7	6.10	0.7	9	299	1.0	941	780	62		0.018J														14	
BET-MW5s	2/24/2014	23.2	6.74	1.1	12	247	2.0	1,106	860	68*		0.019J														12	H
BET-MW5s	5/23/2014	20.8	6.80	1.1	12	161	4.0	1,158	660	60		<0.10														10	
BET-MW5s	8/25/2014	23.6	7.02	1.0	12	136	3.0	811	640	41	<0.050	<0.10	0.99	39	2.3	26	69	46	39	0.60	97	<4.1	<4.1	97	2.4	16	
BET-MW5s	11/11/2014	21.2	7.12	4.5	53	139	2.0	987	820	63		<0.10														12	
BET-MW5s	2/10/2015	21.5	7.11	1.6	19	138	2.0	888	700	52	<0.050	<0.10	0.50	43	2.5	35	87	50	44	0.63	91	<4.1	<4.1	91	7.5	11	
BET-MW5s	5/15/2015	21.4	7.16	1.8	20	146	4.0	747	600	35		0.046J														8	
BET-MW5s	8/18/2015	25.5	7.16	0.9	15	91	6.0	724	660	45		<0.10														12	
BET-MW5s	11/11/2015	20.7	7.66	6.8	78	176	11	908	640	21		<0.10														9	
BET-MW5s	2/22/2016	21.0	6.97	1.5	18	116	10	779	570	37	0.010J	<0.10	0.57	38	2.5	28	72	42	33	0.50	140	<4.1	<4.1	140	1.9	7	
BET-MW5s	5/19/2016	21.6	6.65	0.9	14	108	7.0	795	590	42		0.063J														7	
BET-MW5s	8/19/2016	21.7	6.14	2.0	24	172	4.0	806	730	48		0.034J														13	
BET-MW5s	11/22/2016	20.3	6.91	1.8	21	204	4.0	871	740	57		<0.10														10	
BET-MW5s	3/15/2017	21.2	6.98	2.3	27	153	3.3	988	920	76	<0.050	<0.10	0.16J	46	2.2	35	95	36	45	0.47	83	<4.1	<4.1	83	3.3	10	
BET-MW5s	5/18/2017	21.4	6.77	2.4	27	157	4.7	1,066	1,100	87		0.096J														11	
BET-MW5s	8/25/2017	21.0	6.88	1.9	23	96	1.0	758	680	50		<0.10														17	
BET-MW5s	11/27/2017	22.0	6.81	2.3	28	229	2.5	802	690	63		<0.1														15	
BET-MW5s	2/22/2018	20.7	6.79	2.5	30	270	4.0	958	900	74	<0.050	0.043J	<0.20	41	6.4	30	85	38	44	0.64	70	<4.1	<4.1	70	-0.2	14	
BET-MW5s	5/9/2018	21.1	6.68	2.4	27	197	6.0	1,032	980	86		0.086J														12	
BET-MW5s	8/24/2018	20.7	6.72	1.6	16	238	5.0	635	580	37		0.14														19	
BET-MW5s	11/13/2018	21.9	6.59	3.1	34	221	2.0	607	500	42		0.15														16	
BET-MW5s	2/21/2019	19.9	7.20	2.7	30	215	1.0	700	580	51	<0.050	0.076J	0.56	34	11	21	64	25	35	1.0	64	<4.1	<4.1	64	2.3	15	
BET-MW5s	5/17/2019	20.7	6.81	3.1	37	260	3.0	758	710	58		0.13J														14	
BET-MW5s	8/16/2019	21.3	6.95	2.4	31	201	4.0	667	530	41		0.068J														19	
BET-MW5s	11/11/2019	22.8	6.58	1.9	23	151	0.9	679	580	48		0.11J														16	
BET-MW6s	2/9/2012	20.1	6.40	1.1		152	17.5	510	410	18		<0.05														15	
BET-MW6s	5/10/2012	19.4	6.28	1.7		156	12	506	410	19	<0.05*	<0.05	0.45*	26	13	13	46	27	14	4.3*	110*	<4.1*	<4.1*	110	0.9	14	H
BET-MW6s	8/14/2012	20.6	7.30	1.4		64	8.0	496	370	21	0.010J	<0.05	1.0	26	22	11	39	24	17	6.0	98	<4.1	<4.1	98	-1.5	19	
BET-MW6s	12/7/2012	20.7	6.27	1.5		92	18	679	560	33		<0.050														14	
BET-MW6s	3/21/2013	19.2	7.05	0.7	7	176	3.9	583.2	510	33		0.023J														14	
BET-MW6s	5/30/2013	20.9	6.32	0.3	3	145	2.0	536	430	26		0.024J														14	
BET-MW6s	8/26/2013	22.6	6.58	1.7	19	200	1.0	570	480	37	<0.050	0.048J	1.2	33	22	13	43	27	25	11	61	<4.1	<4.1	61	-2.6	19	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																		----Alkalinity as CaCO3----						
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
BET-MW6s	11/15/2013	19.0	6.36	2.2	24	288	1.0	539	440	28		0.021J														14	
BET-MW6s	2/24/2014	20.9	6.60	2.1	20	212	1.0	591	450	27		0.026J														11	
BET-MW6s	5/23/2014	20.7	6.60	1.1	12	163	3.0	562	410	21		<0.10														9	
BET-MW6s	8/25/2014	21.2	6.68	2.0	22	148	5.0	505	390	24	<0.050	<0.10	1.0	28	15	11	39	30	16	4.9	67	<4.1	<4.1	67	0.7	15	
BET-MW6s	11/11/2014	20.7	6.96	5.4	62	151	1.0	534	450	28		<0.10														11	
BET-MW6s	2/10/2015	20.7	6.70	2.0	22	157	1.0	545	430	27	<0.050	<0.10	0.43	33	18	14	49	25	16	6.7	92	<4.1	<4.1	92	4.5	10	
BET-MW6s	5/15/2015	22.7	7.05	2.5	30	160	2.0	461	360	17		0.067J														8	
BET-MW6s	8/18/2015	24.3	6.91	1.7	26	101	6.0	615	570	37		<0.10														12	
BET-MW6s	11/11/2015	22.0	7.20	6.9	82	186	8.0	660	550	42		<0.10														8	
BET-MW6s	2/22/2016	20.7	6.90	2.5	29	131	4.0	554	440	24	<0.050	<0.10	0.59	27	11	13	55	32	14	7.2	100	<4.1	<4.1	100	1.3	7	
BET-MW6s	5/19/2016	21.8	6.73	1.3	21	100	6.0	524	400	24		0.026J														6	
BET-MW6s	8/19/2016	21.6	6.33	2.7	31	183	3.0	401	340	16		0.032J														12	
BET-MW6s	11/22/2016	21.3	6.75	1.9	22	200	1.0	543	480	35		<0.10														9	
BET-MW6s	3/15/2017	20.7	6.85	3.0	35	177	0.3	578	540	38	<0.050	0.023J	0.28	27	9.9	14	59	21	23	4.9	55	<4.1	<4.1	55	4.6	10	
BET-MW6s	5/18/2017	21.2	6.70	2.5	29	170	3.6	493	490	32		0.074J														10	
BET-MW6s	8/25/2017	20.9	6.61	2.6	29	114	1.0	454	430	27		0.023J														17	
BET-MW6s	11/27/2017	21.7	6.70	2.5	29	231	2.2	530	460	35		<0.1														14	
BET-MW6s	2/22/2018	20.6	6.79	2.8	32	279	3.7	559	530	37	<0.050	0.022J	<0.20	28	8.9	11	49	27	24	3.9	46	<4.1	<4.1	46	-1.5	14	
BET-MW6s	5/9/2018	21.7	6.41	2.4	29	197	6.0	637	610	49		0.080J														11	
BET-MW6s	8/24/2018	21.5	6.32	2.1	21	235	4.0	559	540	37		0.12														18	
BET-MW6s	11/12/2018	21.5	6.23	2.7	31	247	1.0	566	490	39		0.13														15	
BET-MW6s	2/21/2019	20.4	6.43	2.1	24	211	1.0	639	510	45	<0.050	0.076J	0.55	28	11	13	56	24	24	4.4	47	<4.1	<4.1	47	-0.9	13	
BET-MW6s	5/17/2019	21.5	6.29	2.7	28	221	6.0	593	590	45		0.087J														12	
BET-MW6s	8/16/2019	22.0	6.53	1.9	21	192	2.0	524	460	35		<0.2														18	
BET-MW6s	11/11/2019	23.2	5.94	2.0	24	176	0.9	591	530	44		0.12J														15	
BET-MW7s	2/8/2012	18.9	5.81	2.6		323	4.0	473	380	28		<0.05														15	
BET-MW7s	5/10/2012	19.6	5.67	1.9		210	8.0	437	450	25	<0.05*	<0.05	0.57*	30	4.9	9.4	36	28	22	2.9*	38*	<4.1*	<4.1*	38	1.5	14	H
BET-MW7s	8/14/2012	21.4	7.04	1.5		22	7.0	450	350	24	<0.05	<0.05	1.2	30	18	7.5	29	25	18	6.0	45	<4.1	<4.1	45	-0.7	19	
BET-MW7s	12/7/2012	20.9	6.17	1.3		85	20	593	520	35		<0.050														14	
BET-MW7s	3/21/2013	19.0	6.82	1.9	23	183	3.0	553.6	470	35		0.034J														14	
BET-MW7s	5/30/2013	21.5	5.68	0.4	4	162	4.0	411	350	27		0.028J														13	
BET-MW7s	8/26/2013	22.2	6.45	1.9	22	204	1.0	453	370	27	<0.050	0.039J	0.69	29	17	9.5	35	27	18	9.1	53	<4.1	<4.1	53	-2.1	18	
BET-MW7s	11/15/2013	19.8	5.85	1.1	12	303	2.0	590	490	39		<0.050														14	
BET-MW7s	2/24/2014	20.8	6.18	1.4	15	235	2.0	582	430	30		0.024J														11	
BET-MW7s	5/23/2014	20.1	6.28	1.5	16	169	3.0	348	300	18		<0.10														9	
BET-MW7s	8/25/2014	22.5	6.53	1.4	16	144	6.0	443	340	23	<0.050	<0.10	1.3	28	8.4	9.8	32	30	19	8.5	44	<4.1	<4.1	44	-2.5	14	
BET-MW7s	11/11/2014	20.8	6.47	4.9	55	160	4.0	538	470	29		<0.10														10	
BET-MW7s	2/10/2015	20.1	6.45	1.7	19	155	2.0	434	350	25	<0.050	<0.10	0.69	31	4.6	12	39	22	16	9.2	49	<4.1	<4.1	49	4.7	9	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
BET-MW7s	5/15/2015	21.2	6.53	1.8	21	152	2.0	343	290	18		0.040J														8	
BET-MW7s	8/18/2015	24.2	6.48	1.0	16	119	6.0	449	410	27		<0.10														11	
BET-MW7s	11/11/2015	21.3	7.10	6.9	77	158	7.0	414	330	22		<0.10														7	
BET-MW7s	2/22/2016	20.5	6.23	2.3	26	160	7.0	532	460	32	<0.050	0.045J	0.73	31	4.8	13	45	34	20	7.7	38	<4.1	<4.1	38	1.3	6	
BET-MW7s	5/19/2016	22.1	6.14	1.4	23	109	7.0	634	480	46		<0.10														5	
BET-MW7s	8/19/2016	21.1	5.80	2.6	29	189	6.0	559	560	39		0.036J														10	
BET-MW7s	11/22/2016	21.0	6.29	1.8	21	207	1.0	609	560	47		0.026J														8	
BET-MW7s	3/15/2017	20.3	6.37	2.6	30	184	1.1	531	480	31	<0.050	<0.10	0.42	30	5.1	14	51	35	19	8.8	51	<4.1	<4.1	51	2.4	8	
BET-MW7s	5/18/2017	20.6	6.25	2.7	31	177	3.9	916	930	79*		0.10														8	H
BET-MW7s	8/25/2017	20.6	6.50	2.3	26	113	1.0	539	500	29		<0.10														14	
BET-MW7s	11/27/2017	21.1	6.77	2.0	23	254	2.4	744	640	55		<0.1														12	
BET-MW7s	2/22/2018	19.6	7.30	3.3	36	285	4.0	657	620	44	<0.050	<0.10	<0.20	36	5.2	16	54	34	29	5.3	47	<4.1	<4.1	47	-0.9	12	
BET-MW7s	5/10/2018	20.2	6.07	2.5	28	219	6.0	685	620	48		0.081J														10	
BET-MW7s	8/24/2018	20.5	6.01	1.9	19	255	5.0	673	620	41		0.15														16	
BET-MW7s	11/13/2018	20.7	6.03	3.2	35	217	2.0	504	390	24		0.17														13	
BET-MW7s	2/21/2019	20.1	6.22	2.4	25	224	2.0	599	460	35	<0.050	0.078J	0.58	34	5.3	13	49	34	27	4.8	55	<4.1	<4.1	55	-1.3	12	
BET-MW7s	5/17/2019	20.1	6.25	3.3	34	240	2.0	602	580	39		0.074J														11	
BET-MW7s	8/16/2019	21.0	6.31	2.0	23	207	3.0	597	520	38		0.073J														16	
BET-MW7s	11/11/2019	21.9	5.80	2.3	27	184	0.9	593	520	37		0.12J														14	
BET-MW8s	2/9/2012	19.2	6.62	1.5		156	26	491	440	25		0.026J														14	
BET-MW8s	5/10/2012	18.7	6.37	1.5		155	12	500	470	27	<0.05*	<0.05	0.55*	26	3.5	12	51	27	18	6.0*	75*	<4.1*	<4.1*	75	0	13	H
BET-MW8s	8/14/2012	20.9	7.30	1.0		70	12	485	400	30	<0.05	<0.05	0.90	27	18	9.1	40	28	16	6.9	66	<4.1	<4.1	66	-4.6	19	
BET-MW8s	12/7/2012	21.2	6.53	2.5		84	17	584	480	30		<0.050														13	
BET-MW8s	3/21/2013	19.8	7.05	0.9	9	176	4.3	454.8	430	26		0.036J														13	
BET-MW8s	5/30/2013	21.0	6.25	0.7	7	146	3.0	519	470	28		0.024J														13	
BET-MW8s	8/26/2013	21.7	7.15	2.4	27	194	1.0	558	440	28	<0.050	0.046J	0.80	27	21	9.9	43	34	19	7.8	60	<4.1	<4.1	60	-1.3	18	
BET-MW8s	11/15/2013	18.6	6.62	2.5	26	270	5.0	629	530	33		0.018J														13	
BET-MW8s	2/24/2014	21.2	6.80	1.6	17	206	2.0	586	460	30		0.028J														10	
BET-MW8s	5/23/2014	19.9	6.57	0.9	11	162	12	462	390	22		<0.10														8	
BET-MW8s	8/25/2014	21.8	6.71	1.8	21	148	6.0	495	420	29	<0.050	<0.10	1.1	30	7.3	10	47	24	20	9.0	70	<4.1	<4.1	70	-2	14	
BET-MW8s	11/11/2014	21.4	6.78	5.4	59	155	3.0	535	460	31		0.048J														10	
BET-MW8s	2/10/2015	18.9	6.55	1.8	22	181	3.0	572	450	37	<0.050	0.041J	0.56	39	5.6	13	55	18	22	9.7	56	<4.1	<4.1	56	5.8	9	
BET-MW8s	5/15/2015	21.0	6.88	2.9	32	167	2.0	506	440	29		0.058J														7	
BET-MW8s	8/18/2015	25.3	6.84	1.2	20	108	5.0	473	430	25		0.025J														10	
BET-MW8s	11/11/2015	21.6	7.11	6.9	79	200	27	716	610	48		<0.10														7	
BET-MW8s	2/22/2016	20.7	6.87	2.3	26	128	314	349	310	15	<0.050	0.025J	1.2	20	3.7	7.9	32	8.6	11	15	66	<4.1	<4.1	66	-1.9	5	
BET-MW8s	5/19/2016	21.6	6.58	1.6	25	105	132	398	300	23		0.070J														4	
BET-MW8s	8/19/2016	21.0	6.03	3.2	37	204	4.0	406	350	17		0.040J														9	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
BET-MW8s	11/22/2016	21.3	6.72	2.2	26	198	1.0	452	380	24		0.026J														7	
BET-MW8s	3/15/2017	20.1	6.81	2.8	32	179	2.0	533	480	31	<0.050	0.028J	0.70	29	5.0	13	60	21	24	8.7	67	<4.1	<4.1	67	5.2	8	
BET-MW8s	5/18/2017	20.3	6.56	2.6	29	186	6.9	470	440	27		0.097J														8	
BET-MW8s	8/25/2017	20.8	6.64	2.5	28	118	6.0	421	390	21		<0.10														14	
BET-MW8s	11/27/2017	21.3	6.87	2.3	27	238	2.8	502	440	29		<0.1														12	
BET-MW8s	2/22/2018	19.9	6.70	3.1	33	290	5.6	449	420	29	<0.050	0.037J	<0.20	24	3.7	9.3	40	15	20	7.4	55	<4.1	<4.1	55	-4.2	11	
BET-MW8s	5/9/2018	20.8	6.73	2.5	29	164	7.0	413	380	26		0.072J														9	
BET-MW8s	8/24/2018	21.2	6.47	2.3	23	252	6.0	591	490	33		0.12														16	
BET-MW8s	11/12/2018	21.0	6.44	2.9	32	251	2.0	491	440	30		0.13														13	
BET-MW8s	2/21/2019	19.9	6.56	2.6	27	213	3.0	566	470	37	<0.050	0.087J	0.51	26	4.9	12	52	22	26	7.3	47	<4.1	<4.1	47	-1.3	11	
BET-MW8s	5/17/2019	20.5	6.49	3.2	32	238	6.0	529	510	37		0.11J														10	
BET-MW8s	8/16/2019	21.9	6.67	1.6	20	178	2.0	635	560	44		0.1J														16	
BET-MW8s	11/11/2019	22.5	6.17	2.3	27	169	1.7	514	460	34		0.13J														13	
DIE-MW1	12/12/2003									14.67																	
DIE-MW1	12/15/2004									17.60											374.0	<0.1					
DIE-MW1	12/28/2005									15.00											320.0	<1					
DIE-MW1	6/20/2006									14.67																	
DIE-MW1	6/28/2006								630	9.40	<0.1		<1	33.1	3.2	25.7	115	60.3	23.5		390.0	<1					
DIE-MW1	12/11/2006									18.96												<1.0					
DIE-MW1	6/25/2007									24.85		<1									380.0	<1.0					
DIE-MW1	3/19/2013	20.2	7.22	6.3	70	102	13	1,480	1,100	69		<0.050														17	
DIE-MW1	6/3/2013	*Well Dry*																									
DIE-MW1	8/20/2013	*Well Dry*																									
DIE-MW1	11/11/2013	*Well Dry*																									
DIE-MW1	2/24/2014	*Well Dry*																									
DIE-MW1	5/20/2014	*Well Dry*																									
DIE-MW1	8/24/2014	*Well Dry*																									
DIE-MW1	11/12/2014	*Well Dry*																									
DIE-MW1	2/12/2015	20.8	7.40	4.7	49	18	NM	1,582	1,000	74	<0.050	<0.10	0.48	100	5.1	71	140	93	63	<0.15	300	<8.2	<8.2	300	6.4	18	P
DIE-MW1	5/19/2015	22.6	7.37	1.0	20	140	4.0	1,866	960	81		0.077J														21	P
DIE-MW1	8/17/2015																									35	
DIE-MW1	8/18/2015	22.0	7.52	4.2	48	157	126	1,810	960	81		0.061J															PD
DIE-MW1	11/13/2015	18.5	8.11	4.9	52	158	74	1,803	1,100	82		0.062J														35	P
DIE-MW1	3/1/2016	18.8	7.18	5.0	52	207	61	1,837	990	83	<0.050	0.067J	<0.20	88	4.4	70	190	90	86	0.26	420	<8.2	<8.2	420	1.4	33	P
DIE-MW1	5/24/2016	18.8	6.85	7.9	79	202	33	1,904	960	78		<0.10														34	PD
DIE-MW1	8/24/2016	25.1	7.80	6.4	66	195	304	1,892	1,100	77		0.038J														35	PD

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
DIE-MW1	11/15/2016	20.4	7.36	7.2	64	198	312	1,918	1,200	83		0.038J														35	PD
DIE-MW1	3/23/2017	18.7	7.38	4.9	54	218	53	1,889	1,200	82	<0.050	0.022J	0.44	100	12	80	210	97	100	0.31	460	<8.2	<8.2	460	4.4	34	PD
DIE-MW1	5/15/2017	20.3	7.68	4.0	44	112	26	1,469	1,100	85		0.047J														33	PD
DIE-MW1	8/28/2017	24.3	7.44	5.4	55	158	30	1,929	1,200	93		0.024J														34	D
DIE-MW1	11/29/2017	17.1	7.11	5.7	70	220	107	1,690	1,100	98		0.043J														34	D
DIE-MW1	2/27/2018	15.9	7.16	5.3	56	298	90	2,063	1,200	99*	<0.050	0.022J	0.21	81	3.8	71	180	93	95	0.087J	440	<8.2	<8.2	440	-5.2	33	HPD
DIE-MW1	5/8/2018	20.6	7.18	5.3	64	269	10	2,000	1,200	100		0.047J														34	PD
DIE-MW1	8/20/2018	20.6	7.40	5.4	60	134	12	2,080	1,500	100		0.032J														35	D
DIE-MW1	11/12/2018	18.4	7.38	5.9	68	180	23	2,159	1,400	100		0.11														35	PD
DIE-MW1	2/22/2019	17.0	7.39	4.7	49	250	49	2,129	1,400	100	<0.050	0.13J	0.45	85	4.4	78	200	85	90	0.061J	490	<8.2	<8.2	490	-2.4	34	P
DIE-MW1	5/20/2019	19.7	7.05	4.0	48	230	30	1,863	1,200	100		0.079J														34	D
DIE-MW1	8/8/2019	20.1	7.26	4.5	52	269	25	1,987	1,300	100		0.086J														34	D
DIE-MW1	11/18/2019	18.9	7.31	4.0	43	207	33	1,994	1,300	97		0.10J														35	D
DIE-MW2	12/12/2003									8.44																	
DIE-MW2	12/15/2004									9.70											404.0	<0.1					
DIE-MW2	12/30/2005									11.00											340.0	<1					
DIE-MW2	6/20/2006									9.48																	
DIE-MW2	6/28/2006								1,120	44.00	<0.1		<1	55.9	5.1	42.3	202	136	56.7		395.0	<1					
DIE-MW2	12/11/2006									10.84												<1.0					
DIE-MW2	6/25/2007									9.49		<1.0									360.0	<1.0					
DIE-MW2	3/19/2013	21.7	7.66	6.7	73	94	48	968	680	13		<0.050														22	
DIE-MW2	6/3/2013	19.5	7.61	6.2	69	162	240	1,032	700	13		<0.050														12	
DIE-MW2	8/20/2013	*Well Dry*																									
DIE-MW2	11/11/2013	17.6	7.36	6.5	70	204	49	1,162	740	13		<0.050														14	
DIE-MW2	2/24/2014	19.9	7.53	6.0	67	22	11	1,078	620	13		<0.050														19	
DIE-MW2	5/20/2014	20.2	7.41	5.8	64	94	17	1,090	540	14		0.037J														10	
DIE-MW2	8/24/2014	*Well Dry*																									
DIE-MW2	11/12/2014	17.9	7.72	5.6	62	165	74	1,043	600	14		0.20														9	
DIE-MW2	2/12/2015	18.9	7.59	4.5	48	105	138	931	610	14	<0.050	<0.10	0.11J	87	4.3	28	84	99	29	0.53	250	<4.1	<4.1	250	4.9	13	
DIE-MW2	5/19/2015	*Well Dry*																									
DIE-MW2	8/17/2015	*Well Dry*																									
DIE-MW2	11/13/2015	*Well Dry*																									
DIE-MW2	3/1/2016	*Well Dry*																									
DIE-MW2	5/24/2016	*Well Dry*																									
DIE-MW2	8/24/2016	*Well Dry*																									
DIE-MW2	11/15/2016	*Well Dry*																									
DIE-MW2	3/23/2017	18.4	7.67	6.2	66	231	19.42	849	570	14	<0.050	0.023J	<0.20	75	4.1	26	81	85	27	0.45	240	<4.1	<4.1	240	4.2	8	
DIE-MW2	5/15/2017	*Well Dry*																									

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
DIE-MW2	8/28/2017	*Well Dry*																									
DIE-MW2	11/29/2017	17.7	7.53	6.0	72	165	23.6	904	510	15		0.045J														16	
DIE-MW2	2/27/2018	17.2	7.49	6.4	66	286	125	1,083	610	16	<0.050	0.033J	0.19J	120	4.0	29	90	66	30	0.46	410	<8.2	<8.2	410	1.5	19	
DIE-MW2	5/8/2018	19.1	7.36	5.4	67	269	12	1,084	580	16		0.025J														16	
DIE-MW2	8/20/2018	19.2	7.70	6.7	73	137	32	894	570	13		0.026J														12	
DIE-MW2	11/12/2018	18.5	7.55	8.0	87	162	48.5	951	580	14		0.098J														16	
DIE-MW2	2/22/2019	18.4	7.57	5.8	63	220	35	1,115	590	14	<0.050	0.051J	0.12J	130	3.8	26	83	70	22	0.11J	410	<4.1	<4.1	410	1.7	27	
DIE-MW2	5/20/2019	18.7	7.44	4.6	54	244	75	1,022	650	16		<0.2														21	
DIE-MW2	8/8/2019	18.9	7.46	5.7	62	268	26	1,073	600	18		<0.2														16	
DIE-MW2	11/18/2019	18.7	7.60	5.6	62	204	21	1,028	660	16		0.077J														26	
DIE-MW3	12/12/2003									11.22		<0.5															
DIE-MW3	12/15/2004									7.70							105				412.0	<0.1					
DIE-MW3	12/30/2005									9.90											370.0	<1					
DIE-MW3	6/20/2006									8.13																	
DIE-MW3	6/28/2006								628	16.90	<0.1		<1	35.3	4.9	19.4	97.4	104	16.0		220.0	<1					
DIE-MW3	12/11/2006									11.51												<1.0					
DIE-MW3	6/25/2007									10.84		<1.0									460.0	<1.0					
DIE-MW3	3/19/2013	19.9	7.40	4.4	48	109	311	1,286	920	20		<0.050														17	
DIE-MW3	6/3/2013	19.8	7.54	4.3	46	164	767	1,303	880	16		<0.050														11	
DIE-MW3	8/20/2013	22.5	6.60	3.9	46	168	104	1,319	760	16	0.0095J	0.022J	0.39	88	5.8	46	140	99	41	8.3	520	<8.2	<8.2	520	-2.3	8	
DIE-MW3	11/11/2013	18.1	7.34	4.7	51	190	227	1,443	900	23		<0.050														11	
DIE-MW3	2/24/2014	20.4	7.02	3.9	42	50	68	1,517	780	22		<0.050														15	
DIE-MW3	5/20/2014	19.4	7.10	3.8	42	80	44	1,449	810	16		<0.10														10	
DIE-MW3	8/24/2014	*Well Dry*																									
DIE-MW3	11/12/2014	18.3	7.15	4.6	51	150	315	1,502	690	23		0.080J														5	
DIE-MW3	2/12/2015	19.2	6.91	4.7	49	138	414	1,564	1,000	27	<0.050	<0.10	0.41	120	7.1	60	160	110	43	3.7	530	<8.2	<8.2	530	4.8	8	
DIE-MW3	5/19/2015	*Well Dry*																									
DIE-MW3	8/17/2015	*Well Dry*																									
DIE-MW3	11/13/2015	*Well Dry*																									
DIE-MW3	3/1/2016	*Well Dry*																									
DIE-MW3	5/24/2016	*Well Dry*																									
DIE-MW3	8/24/2016	*Well Dry*																									
DIE-MW3	11/15/2016	*Well Dry*																									
DIE-MW3	3/23/2017	*Well Dry*																									
DIE-MW3	5/15/2017	*Well Dry*																									
DIE-MW3	8/28/2017	*Well Dry*																									
DIE-MW3	11/29/2017	17.7	7.09	6.0	74	202	61.0	1,505	780	35		0.034J														12	
DIE-MW3	2/27/2018	17.4	7.14	5.7	59	284	92	1,501	800	27	<0.050	0.021J	0.42	110	6.2	49	140	100	42	1.5	540	<8.2	<8.2	540	-1.6	14	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
DIE-MW3	5/8/2018	19.4	7.00	4.7	60	253	16	1,510	880	24		0.026J														13	
DIE-MW3	8/20/2018	19.4	7.20	5.4	62	136	46	1,521	880	19		0.018J														9	
DIE-MW3	11/12/2018	18.4	7.07	6.2	69	164	57	1,728	1,100	37		0.098J														12	
DIE-MW3	2/22/2019	18.5	7.10	3.8	42	225	37	1,738	920	34	<0.050	0.11J	0.21	120	7.4	57	170	110	38	0.23	590	<8.2	<8.2	590	1.3	20	
DIE-MW3	5/20/2019	19.1	6.99	3.1	38	216	66	1,563	860	30		<0.2														16	
DIE-MW3	8/8/2019	19.0	7.06	3.3	36	261	33	1,607	840	30		<0.2														14	
DIE-MW3	11/18/2019	18.7	7.16	2.4	26	207	63	1,777	970	44		<0.20														20	
DIE-MW4	12/28/2005									6.10											260.0	<1					
DIE-MW4	6/20/2006									5.87												<1.0					
DIE-MW4	12/11/2006									5.64												<1.0					
DIE-MW4	6/25/2007									6.78		<1.0		58	3.3	33.0					400.0	<1.0					
DIE-MW4	3/19/2013	21.7	7.54	4.5	51	108	40	1,148	860	15		<0.050														21	
DIE-MW4	6/3/2013	*Well Dry*																									
DIE-MW4	8/20/2013	QM	6.59	6.0	56	174	156	1,234	720	14	0.012J	0.042J	0.83	69	3.6	41	150	93	72	11	450	<8.2	<8.2	450	-1.8	17	P
DIE-MW4	11/11/2013	*Well Dry*																									
DIE-MW4	2/24/2014	*Well Dry*																									
DIE-MW4	5/20/2014	*Well Dry*																									
DIE-MW4	8/24/2014	*Well Dry*																									
DIE-MW4	11/12/2014	*Well Dry*																									
DIE-MW4	2/12/2015	*Well Dry*																									
DIE-MW4	5/19/2015	23.2	6.90	1.8	31	143	59	1,574	720	20		0.092J														24	P
DIE-MW4	8/17/2015	*Well Not Accessible*																									
DIE-MW4	11/13/2015	16.7	8.87	7.5	80	144	NM	1,071	690	12		0.089J														23	PD
DIE-MW4	3/1/2016	*Well Dry*																									
DIE-MW4	5/24/2016	20.8	7.31	9.4	96	213	NM	1,509	780	42		0.062J														24	PD
DIE-MW4	8/24/2016	*Well Dry*																									
DIE-MW4	11/15/2016	20.8	7.29	1.8	12	201	NM	1,282	740	19		0.026J														21	PD
DIE-MW4	3/23/2017	18.3	7.48	7.0	75	240	96.3	1,244	810	16	<0.050	0.030J	0.46	74	3.9	47	160	79	80	2.3	430	<8.2	<8.2	430	5.1	19	PD
DIE-MW4	5/15/2017	20.2	7.60	4.1	44	165	NM	1,307	740	17		0.046J														20	PD
DIE-MW4	8/28/2017	*Well Dry*																									
DIE-MW4	11/29/2017	17.9	6.93	5.4	63	213	97	1,296	660	20		0.052J														26	
DIE-MW4	2/27/2018	11.3	7.07	7.6	78	308	247	1,445	700	22	<0.050	0.024J	0.44	78	3.7	45	160	86	81	1.0	410	<8.2	<8.2	410	4.3	20	PD
DIE-MW4	5/8/2018	21.4	7.24	6.2	75	254	20	1,337	690	20		0.035J														20	PD
DIE-MW4	8/20/2018	20.0	7.85	5.9	64	135	740	1,350	880	25		0.018J														20	PD
DIE-MW4	11/12/2018	17.8	7.21	6.0	69	169	640	1,312	800	26		0.10														24	PD
DIE-MW4	2/22/2019	16.3	7.50	6.1	64	233	287	1,502	770	27	<0.050	0.28	0.78	81	3.8	46	170	85	90	9.1	460	<8.2	<8.2	460	0.7	23	P
DIE-MW4	5/20/2019	19.1	7.05	3.7	45	231	172	1,354	820	45		<0.2														22	D
DIE-MW4	8/8/2019	19.9	7.24	3.9	42	275	260	1,548	880	54		0.072J														25	D

Table 4-6
Groundwater Quality

		-------Field Measurements-------																		----Alkalinity as CaCO3----						
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
DIE-MW4	11/18/2019	18.5	7.04	3.8	42	215	362	1,315	810	30		<0.20														31	
DUR-MW1	3/22/2013	18.9	7.53	1.2	12	181	25.1	2,290	1,300	110		0.030J														7	
DUR-MW1	5/31/2013	22.3	7.13	0.5	6	109	3.0	2,078	1,400	110		0.038J														8	
DUR-MW1	8/21/2013	21.5	7.19	1.1	12	69	1.0	2,414	1,600	110	0.011J	0.052	0.78	140	2.8	120	190	150	88	1.1	560	<8.2	<8.2	560	0.7	7	
DUR-MW1	11/11/2013	20.9	7.10	1.7	18	182	1.0	2,487	1,700	120		<0.050														8	
DUR-MW1	2/17/2014	20.0	6.58	1.9	21	189	1.0	2,680	2,000	120		0.021J														7	
DUR-MW1	5/28/2014	19.5	6.70	1.1	12	215	3.0	2,491	1,700	120		0.055J														7	
DUR-MW1	8/18/2014	24.5	7.75	0.7	8	51	3.0	2,062	1,400	82	<0.050	0.033J	0.22	140	2.7	100	150	110	88	4.1	490	<8.2	<8.2	490	2.7	7	
DUR-MW1	11/4/2014	22.2	7.46	0.6	7	75	2.0	2,505	1,400	85		<0.10														7	
DUR-MW1	2/4/2015	21.3	7.16	1.4	15	50	2.0	1,903	1,300	71	<0.050	0.039J	1.1	140	2.7	96	150	110	90	3.1	490	<8.2	<8.2	490	3.9	9	
DUR-MW1	5/11/2015	21.4	7.18	0.7	12	67	4.0	1,960	1,300	83		0.026J														7	
DUR-MW1	8/20/2015	23.5	7.24	3.6	42	68	6.0	1,889	1,400	84		0.050J														5	
DUR-MW1	11/20/2015	20.3	7.06	1.8	20	34	26	2,110	1,400	92		0.068J														6	
DUR-MW1	2/16/2016	22.2	7.11	0.5	7	45	5.0	2,047	1,600	90	0.010J	<0.10	0.83	130	2.8	92	150	110	99	2.6	500	<8.2	<8.2	500	-2.1	6	
DUR-MW1	5/16/2016	21.0	7.06	2.2	25	129	4.0	2,227	1,200	94		0.049J														6	
DUR-MW1	8/15/2016	22.0	7.17	1.4	16	184	1.0	2,163	1,600	99		<0.10														6	
DUR-MW1	11/18/2016	21.9	7.59	1.0	11	82	2.0	2,238	1,500	100		0.035J														7	
DUR-MW1	3/13/2017	20.4	7.18	1.3	19	82	0.3	2,210	1,500	110	<0.050	0.037J	0.80	140	2.9	110	190	100	93	3.0	580	<8.2	<8.2	580	0.8	9	
DUR-MW1	5/16/2017	19.7	7.02	1.6	19	126	0.7	2,058	1,400	100		0.044J														9	
DUR-MW1	8/24/2017	20.8	6.70	1.7	20	22	1.0	2,130	1,500	100		0.046J														9	
DUR-MW1	11/15/2017	21.0	7.07	1.0	11	144	2.7	2,194	1,500	100		0.051J														9	
DUR-MW1	2/15/2018	20.7	7.21	0.9	11	42	4.8	2,240	1,500	110	<0.050	0.021J	0.25	120	2.3	99	160	100	88	3.3	530	<8.2	<8.2	530	-4	9	
DUR-MW1	5/7/2018	20.8	6.98	4.5	52	197	4.0	2,380	1,600	130		<0.10														9	
DUR-MW1	8/27/2018	21.1	6.96	0.7	7	113	3.0	2,160	1,600	98		0.11														9	
DUR-MW1	11/12/2018	21.0	6.99	1.2	22	91	8.0	2,134	1,500	110		0.18														9	
DUR-MW1	2/19/2019	19.8	6.93	0.9	9	189	2.0	2,195	1,600	110	<0.050	<0.20	<0.20	130	3.2	110	180	100	95	2.8	530	<8.2	<8.2	530	0.9	10	
DUR-MW1	5/17/2019	19.6	6.98	0.8	13	123	1.0	2,341	1,600	130		0.090J														9	
DUR-MW1	8/23/2019	21.4	7.09	2.7	32	128	2.0	2,012	1,400	97		<0.2														9	
DUR-MW1	11/11/2019	21.1	7.21	1.2	21	80	3.0	2,543	1,500	100		0.13J														9	
DUR-MW2	3/22/2013	18.9	7.06	0.4	4	15	1.9	4,852	2,300	2.2		210														5	
DUR-MW2	5/31/2013	22.1	6.98	0.6	7	23	4.0	3,916	1,700	4.6		200														6	
DUR-MW2	8/21/2013	21.0	7.11	0.3	3	-85	2.0	4,943	2,200	1.6	0.048J	260	250	200	330	120	160	260	63	9.1	2,200	<8.2	<8.2	2,200	0.5	4	
DUR-MW2	11/11/2013	20.2	6.97	1.3	13	44	1.0	4,440	2,300	4.5		190														5	
DUR-MW2	2/17/2014	19.7	6.44	0.7	8	90	1.0	4,414	2,300	7.8		160														6	
DUR-MW2	5/28/2014	21.3	6.48	0.5	6	27	3.0	3,871	2,000	<0.20		130														7	
DUR-MW2	8/18/2014	21.9	7.46	0.5	6	6	2.0	5,117	2,200	5.9	0.020J	170	190	230	290	180	230	250	46	7.7	2,300	<8.2	<8.2	2,300	1.1	4	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
DUR-MW2	11/4/2014	22.5	6.95	0.3	3	-92	3.0	5,629	2,300	0.95		220														6	
DUR-MW2	2/4/2015	20.4	6.93	0.5	6	-18	2.0	4,829	2,800	23	0.057	130	140	240	250	190	250	240	39	2.2	2,200	<8.2	<8.2	2,200	0.9	6	
DUR-MW2	5/11/2015	20.4	6.94	0.4	6	-19	2.0	5,232	2,800	4.8		220														6	
DUR-MW2	8/20/2015	23.7	7.06	2.1	25	-50	14	5,215	2,700	0.62		350														1	
DUR-MW2	11/20/2015	20.4	7.07	2.5	27	-110	6.0	5,574	3,000	4.5		330														5	
DUR-MW2	2/16/2016	21.7	7.00	0.3	4	-73	6.0	5,259	2,400	8.9	0.011J	280	380	210	320	150	170	260	38	4.7	2,400	<8.2	<8.2	2,400	1.1	5	
DUR-MW2	5/16/2016	21.8	6.70	2.5	26	-54	5.0	4,392	2,700	6.3		210														4	
DUR-MW2	8/15/2016	21.5	7.03	0.6	7	37	1.0	5,729	2,400	4.0		280														3	
DUR-MW2	11/18/2016	21.1	7.18	0.6	6	50	2.0	5,571	2,400	4.0		320														5	
DUR-MW2	3/13/2017	19.7	7.09	0.9	12	-40	1.0	5,309	2,900	5.5	0.010J	220	260	230	340	150	170	290	53	7.4	2,500	<8.2	<8.2	2,500	-4	7	
DUR-MW2	5/16/2017	19.5	6.86	1.5	17	38	1.7	4,531	2,200	8.4		110														6	
DUR-MW2	8/24/2017	20.0	6.37	1.4	16	-49	2.0	4,625	2,500	1.2		140														6	
DUR-MW2	11/15/2017	20.6	6.80	0.5	6	-19	2.9	4,680	2,700	5.1		160														7	
DUR-MW2	2/15/2018	19.8	7.05	0.6	7	-45	5.2	4,788	2,300	0.13J	0.013J	170	170	250	270	160	210	320	90	7.4	2,100	<8.2	<8.2	2,100	0.4	7	
DUR-MW2	5/7/2018	21.0	6.89	4.1	50	-56	4.0	4,516	2,200	0.052J		200														7	
DUR-MW2	8/27/2018	20.4	6.94	0.7	7	-67	4.0	4,074	2,000	1.3		170														8	
DUR-MW2	11/12/2018	21.0	6.96	1.3	24	-10	3.0	3,199	1,900	11		71														7	
DUR-MW2	2/19/2019	19.3	6.95	1.0	10	115	2.0	3,419	1,800	18	0.018J	0.35	110	220	230	95	110	290	150	5.3	1,100	<8.2	<8.2	1,100	-9.4	9	
DUR-MW2	5/17/2019	19.4	6.83	1.0	18	113	1.0	3,180	1,900	17		32														6	
DUR-MW2	8/23/2019	21.4	6.92	1.9	25	138	2.0	2,804	1,700	14		27														6	
DUR-MW2	11/11/2019	20.9	7.11	1.2	19	88	2.0	2,937	1,500	23		50														8	
DUR-MW3	3/22/2013	18.6	7.25	1.1	1	180	0.7	3,750	2,300	100		2.9														8	
DUR-MW3	5/31/2013	21.1	6.99	0.5	5	241	2.0	3,245	2,000	97		0.21														9	
DUR-MW3	8/21/2013	21.3	7.18	0.5	6	91	1.0	2,905	2,000	82	0.045J	0.053	1.0	350	5.6	86	170	180	130	0.47	860	<8.2	<8.2	860	0.1	8	
DUR-MW3	11/11/2013	21.1	7.16	0.6	8	173	1.0	2,794	2,000	74		<0.050														9	
DUR-MW3	2/17/2014	20.3	6.55	0.7	8	179	2.0	2,941	2,200	81		0.17														8	
DUR-MW3	5/28/2014	20.3	6.89	1.1	12	180	2.0	3,175	2,500	94		0.71														8	
DUR-MW3	8/18/2014	24.6	7.77	0.5	7	44	3.0	3,207	1,900	96	0.25	0.20	0.095J	380	6.5	98	200	260	170	3.3	900	<8.2	<8.2	900	-1.5	7	
DUR-MW3	11/4/2014	21.4	7.11	0.5	6	39	2.0	2,728	1,600	76		0.28														8	
DUR-MW3	2/4/2015	20.8	7.08	0.7	8	47	3.0	3,431	2,000	84	0.60	0.058J	2.7	370	20	130	220	380	190	0.77	790	<8.2	<8.2	790	2.3	10	
DUR-MW3	5/11/2015	20.0	7.23	0.6	10	67	2.0	2,961	1,800	80		0.072J														8	
DUR-MW3	8/20/2015	21.5	7.55	0.4	5	34	7.0	3,011	1,900	88		0.090J														5	
DUR-MW3	11/20/2015	19.9	7.13	0.8	8	37	3.0	2,736	1,700	78		0.079J														7	
DUR-MW3	2/16/2016	20.6	6.95	0.5	6	91	3.0	4,466	3,000	160	0.41	0.065J	2.4	350	19	200	270	560	250	0.87	840	<8.2	<8.2	840	-3.8	7	
DUR-MW3	5/16/2016	21.3	6.94	2.2	25	126	4.0	3,694	2,200	93		0.23														7	
DUR-MW3	8/15/2016	21.4	7.18	1.0	11	187	1.0	3,328	2,000	110		0.64														6	
DUR-MW3	11/18/2016	22.2	7.50	1.0	11	62	2.0	3,067	2,000	86		0.15														7	
DUR-MW3	3/13/2017	18.7	7.02	1.1	12	93	1.8	3,179	2,200	120	0.52	0.22	2.5	260	71	200	230	250	160	2.7	900	<8.2	<8.2	900	5.1	9	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
DUR-MW3	5/16/2017	19.2	6.78	0.9	11	156	1.0	3,786	2,500	210		0.083J														9	
DUR-MW3	8/24/2017	20.8	6.47	0.7	9	57	1.0	3,182	2,300	130		0.23														9	
DUR-MW3	11/15/2017	21.2	6.83	0.7	9	142	1.8	3,266	2,300	120		0.20														10	
DUR-MW3	2/15/2018	20.0	7.16	0.6	7	101	3.9	3,182	1,800	92	0.60	0.045J	1.8	240	9.3	130	220	270	200	0.78	880	<8.2	<8.2	880	-5.3	10	
DUR-MW3	5/7/2018	19.6	6.87	5.4	60	239	3.0	3,444	2,300	120		0.031J														9	
DUR-MW3	8/27/2018	20.6	6.86	0.7	7	151	3.0	2,903	2,100	87		0.14														10	
DUR-MW3	11/12/2018	20.6	6.96	1.1	21	42	3.0	2,867	1,900	79		0.18														10	
DUR-MW3	2/19/2019	18.7	6.78	1.0	10	16	10	2,414	1,600	20	2.1	1.4	7.0	190	190	81	140	170	84	9.3	900	<8.2	<8.2	900	0.9	11	
DUR-MW3	5/17/2019	18.6	6.85	0.7	16	-107	3.0	2,157	1,400	4.6		0.43														10	
DUR-MW3	8/23/2019	21.5	7.18	1.7	21	135	3.0	2,772	2,000	65		0.17J														10	
DUR-MW3	11/11/2019	20.7	7.19	1.1	21	56	2.0	3,297	2,400	110		0.17J														10	
DUR-MW4	3/22/2013	18.3	7.13	0.5	5	220	2.2	4,584	3,000	120		40														9	
DUR-MW4	5/31/2013	20.8	7.09	0.4	4	222	3.0	4,279	2,800	90		20														10	
DUR-MW4	8/21/2013	20.9	7.03	0.3	4	73	2.0	4,594	2,700	42	0.019J	80	83	280	240	180	280	330	120	3.6	1,900	<8.2	<8.2	1,900	-0.1	9	
DUR-MW4	11/11/2013	20.1	6.87	0.8	7	195	1.0	4,651	2,900	43		72														9	
DUR-MW4	2/17/2014	18.9	6.53	1.0	11	199	1.0	3,946	2,800	83		22														8	
DUR-MW4	5/28/2014	18.9	6.54	1.3	14	190	20	3,695	2,600	110		10														8	
DUR-MW4	8/18/2014	22.0	7.44	0.6	7	53	3.0	4,912	2,400	45	<0.050	61	74	260	240	220	320	340	100	6.3	2,100	<8.2	<8.2	2,100	-1.1	9	
DUR-MW4	11/4/2014	20.6	6.95	0.4	5	52	1.0	4,724	2,100	27		100														8	
DUR-MW4	2/4/2015	20.3	6.90	0.7	8	53	2.0	6,001	3,700	250	0.028J	5.2	62	420	270	270	370	450	240	6.0	1,500	<8.2	<8.2	1,500	0.4	10	
DUR-MW4	5/11/2015	20.0	7.02	0.6	11	19	3.0	4,478	3,400	170		31														8	
DUR-MW4	8/20/2015	22.6	7.49	0.2	3	54	6.0	4,340	2,000	13		150														7	
DUR-MW4	11/20/2015	20.0	7.08	0.9	10	18	10	4,317	2,300	31		110														7	
DUR-MW4	2/16/2016	20.2	6.98	0.4	5	74	4.0	3,940	2,600	110	0.034J	60	130	220	180	140	210	290	180	6.6	1,100	<8.2	<8.2	1,100	-1.9	8	
DUR-MW4	5/16/2016	21.1	6.70	2.5	29	133	5.0	4,130	2,800	160		46														7	
DUR-MW4	8/15/2016	22.1	7.03	0.9	10	193	1.0	4,161	2,300	57		130														7	
DUR-MW4	11/18/2016	20.6	7.40	0.7	8	108	2.0	4,446	2,000	28		3.4														8	
DUR-MW4	3/13/2017	18.8	7.04	0.9	10	138	1.0	4,804	3,000	160	<0.050	110	120	280	210	190	260	290	170	7.2	1,600	<8.2	<8.2	1,600	-1.2	10	
DUR-MW4	5/16/2017	19.7	6.81	0.7	8	149	0.9	6,165	3,800	330		100														10	
DUR-MW4	8/24/2017	20.6	6.50	0.6	8	42	1.0	4,767	2,400	27		180														10	
DUR-MW4	11/15/2017	21.2	6.87	0.6	7	138	1.9	5,042	3,000	76		130														11	
DUR-MW4	2/15/2018	20.7	7.07	0.6	7	80	4.7	5,002	2,700	80	<0.050	130	120	260	210	190	250	330	130	6.9	2,000	<8.2	<8.2	2,000	-3.4	10	
DUR-MW4	5/7/2018	20.6	6.83	5.8	66	215	4.0	4,846	3,300	130		88														10	
DUR-MW4	8/27/2018	20.9	6.81	0.6	6	149	3.0	4,911	2,900	100		130														10	
DUR-MW4	11/12/2018	21.2	6.87	1.2	21	76	3.0	4,000	2,700	99		65														10	
DUR-MW4	2/19/2019	19.9	6.72	1.0	10	211	1.0	4,112	2,800	100	<0.050	62	54	240	180	170	250	230	260	7.5	1,300	<8.2	<8.2	1,300	0.7	12	
DUR-MW4	5/17/2019	19.2	6.81	0.9	16	133	1.0	3,941	2,500	97		68														11	
DUR-MW4	8/23/2019	21.0	7.08	2.9	32	145	2.0	4,317	2,600	89		120														11	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
DUR-MW4	11/11/2019	21.1	7.06	1.2	21	74	3.0	3,990	3,000	150		81														10	
DUR-MW6	3/22/2013	18.3	7.14	0.9	9	228	2.6	1,718	1,200	53		0.23														10	
DUR-MW6	5/31/2013	22.7	7.24	0.7	8	78	2.0	1,859	1,200	74		0.094														10	
DUR-MW6	8/21/2013	21.8	7.28	0.4	4	33	1.0	1,864	1,300	75	0.010J	0.040J	0.59	100	4.2	86	170	88	72	1.3	520	<8.2	<8.2	520	0.6	11	
DUR-MW6	11/11/2013	21.4	7.31	0.8	8	256	1.0	1,779	1,200	69		<0.050														10	
DUR-MW6	2/17/2014	18.8	6.97	0.7	8	244	1.0	1,651	1,100	57		0.044J														9	
DUR-MW6	5/28/2014	18.4	6.48	0.9	10	106	2.0	1,495	1,000	56		0.14														9	
DUR-MW6	8/18/2014	23.0	8.12	0.5	6	93	6.0	1,610	1,000	52	<0.050	0.11	0.74	97	3.7	72	140	65	68	1.3	500	<8.2	<8.2	500	0.7	9	
DUR-MW6	11/4/2014	21.1	7.26	0.6	7	90	3.0	1,589	980	51		0.45														9	
DUR-MW6	2/4/2015	19.8	7.07	0.8	8	93	1.0	1,711	1,100	64	<0.050	<0.10	0.23	100	3.8	80	160	76	68	1.7	480	<8.2	<8.2	480	3.4	10	
DUR-MW6	5/11/2015	19.5	7.23	1.3	21	151	4.0	1,460	930	45		0.053J														9	
DUR-MW6	8/20/2015	24.7	7.34	3.4	42	69	3.0	1,379	920	48		0.38														8	
DUR-MW6	11/20/2015	21.1	7.37	1.4	16	56	20	1,376	940	45		0.15														8	
DUR-MW6	2/16/2016	19.5	7.24	1.1	13	93	3.0	1,327	920	42	<0.050	<0.10	0.79	78	2.9	55	110	59	59	1.7	390	<8.2	<8.2	390	-1	8	
DUR-MW6	5/16/2016	20.3	7.06	2.6	28	119	4.0	1,445	940	44		0.058J														8	
DUR-MW6	8/15/2016	21.2	7.76	1.8	20	196	2.0	1,455	870	46		0.22														7	
DUR-MW6	11/18/2016	20.4	7.83	2.4	27	135	9.0	1,553	1,000	50		0.062J														8	
DUR-MW6	3/13/2017	19.1	7.30	1.2	13	132	0.1	1,705	1,100	64	<0.050	0.060J	0.64	110	4.6	95	180	83	69	1.1	540	<8.2	<8.2	540	6.2	9	
DUR-MW6	5/16/2017	19.2	7.09	1.2	13	128	2.0	1,737	1,000	73		0.042J														10	
DUR-MW6	8/24/2017	20.8	7.05	0.9	11	77	1.0	1,817	1,300	76		0.52														11	
DUR-MW6	11/15/2017	20.7	7.07	0.6	7	134	2.3	2,228	1,500	86		0.092J														11	
DUR-MW6	2/15/2018	20.1	7.23	0.8	9	16	4.1	2,226	1,100	78	0.011J	0.026J	0.28	110	4.5	95	190	120	80	1.1	680	<8.2	<8.2	680	-4.4	10	
DUR-MW6	5/7/2018	20.4	7.11	7.1	83	184	4.0	2,227	1,500	89		<0.10														10	
DUR-MW6	8/27/2018	20.8	7.00	0.7	7	149	3.0	2,245	1,500	71		0.10														11	
DUR-MW6	11/12/2018	20.7	7.03	1.1	25	173	4.0	2,146	1,500	67		0.21														10	
DUR-MW6	2/19/2019	19.2	6.93	1.0	10	152	1.0	2,189	1,400	71	<0.050	<0.20	1.2	120	8.4	100	220	110	78	1.8	710	<8.2	<8.2	710	1.2	11	
DUR-MW6	5/17/2019	18.7	7.04	0.7	16	61	2.0	2,224	1,400	83		0.11J														11	
DUR-MW6	8/23/2019		7.16	2.0	30	84	2.0	2,331	1,600	97		0.18J														11	
DUR-MW6	11/11/2019	20.5	7.00	0.8	19	186	3.0	2,625	1,900	130		0.22														10	
DUR-MW7	3/22/2013	17.7	7.28	0.7	9	-79	87.6	3,213	1,800	45		74														7	D
DUR-MW7	5/31/2013	18.9	7.26	0.3	3	91	3.0	3,265	2,200	120		34														8	
DUR-MW7	8/21/2013	20.4	7.03	0.4	4	-103	12	3,031	2,200	110	0.21	19	24	150	110	140	240	140	130	42	900	<8.2	<8.2	900	0.5	8	
DUR-MW7	11/11/2013	20.4	7.04	0.9	10	-17	6.0	3,186	2,300	120		11														7	
DUR-MW7	2/17/2014	18.8	6.64	0.9	10	220	13	3,550	2,500	110		19														6	
DUR-MW7	5/28/2014	18.8	6.47	0.8	9	87	7.0	2,986	2,200	100		0.43														8	
DUR-MW7	8/18/2014	24.2	7.59	0.6	7	62	5.0	3,177	2,200	120	0.52	1.6	4.4	170	120	150	260	180	220	28	840	<8.2	<8.2	840	-0.1	6	
DUR-MW7	11/4/2014	20.7	6.95	0.7	7	-92	6.0	3,192	2,100	130		0.42														7	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
DUR-MW7	2/4/2015	19.1	6.90	0.6	7	-104	8.0	3,191	2,200	100	0.33	13	20	160	220	140	220	170	150	41	890	<8.2	<8.2	890	2.6	8	
DUR-MW7	5/11/2015	20.2	7.07	0.9	15	-8	14	3,238	2,400	110		0.59														7	
DUR-MW7	8/20/2015	24.1	7.71	2.3	37	67	16	2,969	2,000	85		1.0														5	
DUR-MW7	11/20/2015	19.3	7.12	1.5	16	135	9.0	3,084	2,100	150		0.32														6	
DUR-MW7	2/16/2016	21.1	7.13	3.0	33	149	27	3,201	2,400	140	1.4	0.12	3.6	160	120	140	240	160	230	22	720	<8.2	<8.2	720	-1.4	6	D
DUR-MW7	5/16/2016	20.7	6.81	1.5	17	125	5.0	3,302	2,200	170		0.20														6	
DUR-MW7	8/15/2016	20.9	7.12	2.1	24	206	15	3,209	2,200	150		0.085J														5	D
DUR-MW7	11/18/2016	21.2	7.45	0.9	10	179	3.0	3,399	2,500	160		0.15														6	
DUR-MW7	3/13/2017	18.8	7.06	0.8	9	51	2.4	3,365	2,500	160	0.49	0.085J	3.5	190	170	180	300	150	170	26	910	<8.2	<8.2	910	5.2	8	
DUR-MW7	5/16/2017	18.2	6.86	1.1	12	191	3.0	3,114	2,300	160		0.095J														8	
DUR-MW7	8/24/2017	19.4	6.42	2.0	26	141	2.0	3,794	3,000	190		0.14														8	
DUR-MW7	11/15/2017	2.0	6.86	0.4	5	-81	13.46	3,963	2,800	130		32														8	
DUR-MW7	2/15/2018	19.3	6.91	1.4	15	16	7.2	3,734	2,500	140	0.26	2.0	7.8	180	180	160	260	190	190	34	1,100	<8.2	<8.2	1,100	-4.5	8	
DUR-MW7	5/7/2018	20.4	6.85	3.4	38	170	6.0	3,729	2,900	160		0.29														8	
DUR-MW7	8/27/2018	21.2	6.76	0.7	7	227	5.0	3,124	2,300	160		0.18														10	
DUR-MW7	11/12/2018	20.4	6.94	1.0	21	-90	21	3,408	2,400	120		18														8	
DUR-MW7	2/19/2019	19.1	6.86	1.0	11	46	31	3,309	2,100	85	0.12	36	40	190	250	130	200	140	150	75	1,100	<8.2	<8.2	1,100	0.5	10	
DUR-MW7	5/16/2019	19.4	7.49	0.9	10	4	157	3,047	2,100	70		18														8	
DUR-MW7	8/23/2019	20.5	7.06	1.9	23	44	4.0	3,206	2,400	120		1.4														8	
DUR-MW7	11/11/2019	20.7	7.11	1.3	20	-80	3.0	4,380	2,700	79		84														8	
DUR-MW8	3/22/2013	19.2	7.33	2.2	23	98	3.2	918.1	580	17		1.4														11	
DUR-MW8	5/31/2013	21.9	7.08	1.7	19	166	7.0	718	480	6.0		1.3														10	
DUR-MW8	8/21/2013	20.6	7.08	1.9	22	206	17	1,091	790	52	0.016J	0.85	1.8	40	35	42	100	25	45	10	280	<8.2	<8.2	280	-0.6	10	
DUR-MW8	11/11/2013	19.6	7.11	5.1	52	128	5.0	1,052	640	19		0.71														10	
DUR-MW8	2/17/2014	19.8	6.57	2.6	29	145	4.0	921	630	6.6		1.3														9	
DUR-MW8	5/28/2014	19.5	6.68	3.6	41	133	12	840	580	8.6		1.7														9	
DUR-MW8	8/18/2014	23.4	7.59	0.4	6	23	4.0	793	500	11	<0.050	1.0	1.6	31	22	30	78	21	26	7.3	300	<4.1	<4.1	300	1.2	9	
DUR-MW8	11/4/2014	21.8	7.06	3.8	44	30	32	1,324	490	2.0		2.6														9	
DUR-MW8	2/4/2015	21.9	6.89	0.9	9	57	2.0	1,340	940	70	0.017J	0.29	1.1	50	33	56	130	33	82	8.5	260	<8.2	<8.2	260	3.8	9	
DUR-MW8	5/11/2015	20.0	7.10	3.4	53	30	3.0	909	680	25		0.59														9	
DUR-MW8	8/20/2015	22.4	7.30	3.4	53	108	6.0	680	500	2.9		4.4														6	
DUR-MW8	11/20/2015	18.5	7.07	1.9	21	125	7.0	839	560	0.050J		27														7	
DUR-MW8	2/16/2016	23.6	7.40	6.3	75	118	7.0	1,193	900	51	<0.050	6.5	7.7	39	41	40	100	43	88	7.0	270	<8.2	<8.2	270	-3.4	7	
DUR-MW8	5/16/2016	20.0	6.87	3.4	38	63	7.0	966	680	13		5.2														8	
DUR-MW8	8/15/2016	23.8	6.96	1.3	15	46	5.0	897	590	4.0		6.3														7	
DUR-MW8	11/18/2016	20.4	7.90	3.8	43	70	3.0	758	440	1.3		6.5														7	D
DUR-MW8	3/13/2017	20.4	7.07	1.2	14	144	2.2	943	620	16	<0.050	7.6	8.4	37	49	36	93	27	59	7.2	350	<4.1	<4.1	350	3	7	D
DUR-MW8	5/16/2017	19.8	6.77	1.3	15	173	1.6	1,100	770	50		3.6														7	D

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
DUR-MW8	8/24/2017	20.0	6.79	1.2	14	125	3.0	1,182	990	63		0.58														10	D
DUR-MW8	11/15/2017	20.2	7.42	0.8	10	70	16.71	1,016	760	29		2.2														9	D
DUR-MW8	2/15/2018	19.8	7.28	0.8	9	106	8.0	991	800	25	0.013J	2.8	3.4	36	24	34	87	28	72	6.7	300	<4.1	<4.1	300	-3.9	10	D
DUR-MW8	5/7/2018	21.7	6.90	3.8	46	125	8.0	1,025	760	30		3.1														10	D
DUR-MW8	8/27/2018	19.8	6.81	1.0	10	255	10	920	640	12		2.8														12	P
DUR-MW8	11/12/2018	19.8	6.98	3.1	39	73	8.0	954	680	7.7		6.4														10	D
DUR-MW8	2/19/2019	20.0	6.90	1.3	14	162	7.0	1,018	640	1.0	<0.050	11	10	67	35	29	80	33	51	7.1	430	<8.2	<8.2	430	0.4	11	
DUR-MW8	5/16/2019	18.7	7.30	0.9	10	70	38	1,112	780	40		1.9														10	
DUR-MW8	8/23/2019	22.4	6.85	2.7	31	139	3.0	1,146	810	52		0.59														11	D
DUR-MW8	11/11/2019	22.5	6.93	1.3	20	88	2.0	QM	770	26		2.1														10	D
DUR-MW9	3/22/2013	18.2	7.62	0.7	7	59	1.8	1,180	830	46		0.068														11	
DUR-MW9	5/31/2013	19.4	6.47	1.0	10	181	6.0	993	730	37		0.028J														11	
DUR-MW9	8/21/2013	21.6	6.84	0.8	9	245	1.0	1,024	700	36	0.0033J	0.066	1.1	53	4.5	40	100	26	84	2.7	270	<8.2	<8.2	270	0.8	12	
DUR-MW9	11/11/2013	20.0	7.02	1.3	15	164	2.0	1,204	860	48		<0.050														10	
DUR-MW9	2/17/2014	19.0	6.52	1.8	20	179	2.0	1,065	780	31		0.024J														8	
DUR-MW9	5/28/2014	19.5	6.75	1.2	14	177	2.0	1,021	690	24		0.047J														9	
DUR-MW9	8/18/2014	25.1	7.61	0.8	10	55	3.0	959	720	27	<0.050	<0.10	0.62	56	5.1	35	89	21	82	2.2	280	<4.1	<4.1	280	0	10	
DUR-MW9	11/4/2014	21.3	7.16	0.8	9	55	2.0	951	680	23		0.042J														8	
DUR-MW9	2/4/2015	20.7	7.22	0.8	9	68	1.0	939	660	24	<0.050	<0.10	0.65	55	4.1	38	96	23	64	1.5	300	<4.1	<4.1	300	3.3	9	
DUR-MW9	5/11/2015	20.0	7.21	1.1	19	58	1.0	744	500	15		<0.10														8	
DUR-MW9	8/20/2015	22.3	6.97	1.6	19	131	4.0	823	610	17		0.065J														8	
DUR-MW9	11/20/2015	20.1	7.04	1.3	14	73	17	826	570	16		0.12														6	
DUR-MW9	2/16/2016	19.7	7.12	0.7	8	90	3.0	759	530	15	<0.050	<0.10	0.47	42	2.0	27	66	25	45	0.55	260	<4.1	<4.1	260	-3.5	6	
DUR-MW9	5/16/2016	20.4	6.98	1.1	13	91	4.0	747	560	14		0.034J														8	
DUR-MW9	8/15/2016	22.1	7.26	1.5	17	106	1.0	813	570	13		0.034J														8	
DUR-MW9	11/18/2016	20.4	7.74	2.2	26	97	1.0	915	630	15		0.032J														7	
DUR-MW9	3/13/2017	19.4	7.18	0.8	9	142	0.7	783	560	12	<0.050	0.061J	0.78	42	2.4	33	82	31	77	0.47	260	<4.1	<4.1	260	0.9	8	
DUR-MW9	5/16/2017	18.1	6.79	2.2	24	200	1.4	918	630	14		0.057J														10	
DUR-MW9	8/24/2017	19.7	6.53	0.1	1	157	12	985	680	9.6		0.046J														12	
DUR-MW9	11/15/2017	20.6	7.18	1.8	19	22	2.2	962	680	9.0		0.069J														10	
DUR-MW9	2/15/2018	19.7	7.16	1.6	18	85	4.3	975	660	8.0	<0.050	<0.10	0.67	51	3.3	38	97	32	98	2.2	360	<4.1	<4.1	360	-2.4	8	
DUR-MW9	5/7/2018	20.4	6.91	3.3	37	174	4.0	926	640	8.5		<0.10														9	
DUR-MW9	8/27/2018	20.3	6.80	1.0	10	287	5.0	949	680	9.1		0.046J														11	
DUR-MW9	11/12/2018	20.6	6.94	2.0	31	110	3.0	998	720	9.0		0.18														10	
DUR-MW9	2/19/2019	19.7	6.78	0.8	9	148	2.0	982	670	8.1	<0.050	0.083J	0.66	63	3.5	39	110	29	69	2.2	410	<4.1	<4.1	410	1.9	10	
DUR-MW9	5/16/2019	18.2	7.27	0.9	10	138	7.0	931	630	7.2		0.079J														11	
DUR-MW9	8/23/2019	20.6	7.10	1.9	25	131	2.0	887	580	9.9		0.39														12	
DUR-MW9	11/11/2019	21.3	7.23	1.5	24	106	2.0	1,109	650	10		0.15J														10	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
DUR-MW10s	3/22/2013	19.7	7.44	0.7	7	184	380	3,015	1,800	44		0.083														8	
DUR-MW10s	5/31/2013	21.7	7.14	0.4	5	119	11	2,546	1,800	110		0.022J														9	
DUR-MW10s	8/21/2013	23.8	7.22	0.4	5	100	8.0	2,888	2,000	27	0.24	0.049J	2.0	340	6.7	110	190	190	110	2.2	1,200	<8.2	<8.2	1,200	-0.2	8	
DUR-MW10s	11/11/2013	22.6	7.06	1.7	22	134	1.0	2,960	2,000	29		0.032J														8	
DUR-MW10d	2/17/2014	19.8	6.66	1.3	14	143	3.0	2,707	2,100	87		0.024J														28	
DUR-MW10s	5/28/2014	21.9	6.53	1.5	17	91	5.0	3,254	2,100	18		0.21														8	
DUR-MW10s	8/18/2014	29.8	7.79	2.4	32	14	52	5,729	3,800	1.0	0.044J	2.8	26	510	510	150	270	680	540	15	1,600	<8.2	<8.2	1,600	-1.4	7	
DUR-MW10s	11/4/2014	23.3	7.04	0.8	9	-72	12	3,796	2,200	26		0.22														7	
DUR-MW10s	2/4/2015	18.9	7.22	2.4	26	22	80	5,068	3,500	35	0.22	0.26	21	390	790	87	130	460	350	35	1,400	<8.2	<8.2	1,400	-1	9	
DUR-MW10s	5/11/2015	21.4	7.21	0.4	8	-40	429	4,218	3,200	23		0.72														7	
DUR-MW10d	8/20/2015	21.7	7.46	0.3	5	26	12	2,452	1,600	79		0.064J														25	
DUR-MW10s	11/20/2015	21.3	7.43	1.0	13	57	215	6,875	5,100	68		1.2														7	
DUR-MW10s	2/16/2016	22.4	7.44	1.7	20	99	459	8,819	7,600	130	1.3J	0.80	81	580	1,600	140	230	1,100	890	51	1,900	<8.2	<8.2	1,900	-5	7	D
DUR-MW10s	5/16/2016	23.7	7.18	2.1	25	112	47	6,518	5,600	64		1.4														6	
DUR-MW10s	8/15/2016	24.0	7.42	1.3	15	193	143	4,808	3,900	38		0.29														5	
DUR-MW10s	11/18/2016	19.6	7.47	3.0	3	-38	44	5,717	4,800	1.1		6.0														7	
DUR-MW10s	3/13/2017	18.8	7.35	1.7	19	-3	36.3	4,225	3,200	40	0.15	0.42	21	330	700	96	140	360	250	64	1,500	<8.2	<8.2	1,500	-3.1	9	
DUR-MW10s	5/16/2017	21.0	7.19	0.9	10	-123	150	5,899	4,800	2.3		1.6														9	
DUR-MW10d	8/24/2017	20.5	6.93	0.9	11	73	309	2,427	1,500	73		0.041J														29	
DUR-MW10d	11/15/2017	20.0	6.75	1.0	12	147	3.1	2,448	1,500	73		0.038J														29	
DUR-MW10s	2/15/2018	20.5	7.32	0.3	4	-145	12.35	6,871	6,300	1.0	0.014J	9.8	51	490	1,200	110	210	840	610	85	1,800	<8.2	<8.2	1,800	-2	9	D
DUR-MW10d	5/7/2018	20.7	6.89	5.8	65	180	103	2,445	1,600	76		0.020J														29	
DUR-MW10d	8/27/2018	20.7	6.83	0.6	6	150	3.0	2,418	1,600	76		0.031J														29	
DUR-MW10s	11/12/2018	21.4	7.34	1.8	32	-136	14	5,195	4,600	1.7		2.9														9	
DUR-MW10d	2/19/2019	20.6	6.83	1.0	10	143	2.0	2,382	1,500	74	<0.050	0.10J	0.94	270	7.1	81	150	140	92	0.35	730	<8.2	<8.2	730	0.6	30	
DUR-MW10d	5/17/2019	20.5	6.96	0.7	16	51	2.0	2,446	1,500	73		0.067J														29	
DUR-MW10s	8/23/2019	22.6	7.27	2.2	31	-95	24	8,275	6,800	8.7		8.3														10	D
DUR-MW10s	11/11/2019	22.2	7.30	1.0	14	-85	27	5,557	4,400	2.3		2.1														9	
FG1-MW1d	2/12/2012	19.3	7.12	1.2		105	4.0	1,409	1,000	8.6		0.026J														14	
FG1-MW1s	5/14/2012	18.7	6.84	3.6		192	309	1,430	920	23	<0.05*	0.026J	<0.2*	160	3.3	34	100	100	75	1.3*	440*	<8.2*	<8.2*	440	-0.1	1	H
FG1-MW1d	8/15/2012	19.8	7.55	2.6		95	7.0	1,272	850	2.7	0.023J	0.025J	0.15J	170	5.1	39	87	120	110	0.14J	460	<8.2	<8.2	460	0	14	
FG1-MW1s	12/11/2012	20.1	6.59	3.3		246	22	1,216	780	14		<0.050														0	
FG1-MW1d	3/21/2013	19.5	7.55	5.8	60	70	3.0	1,175	820	1.7		0.041J														13	
FG1-MW1d	5/30/2013	20.9	7.47	0.5	6	128	2.0	1,250	800	1.1		0.034J														13	
FG1-MW1d	8/23/2013	20.1	6.47	0.3	3	138	9.0	1,247	830	1.3	0.0032J	0.090	0.26	140	4.8	40	88	86	150	0.16	440	<8.2	<8.2	440	-1.9	12	
FG1-MW1d	11/14/2013	20.1	6.78	0.5	6	101	9.0	1,301	860	0.42		0.13														13	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
FG1-MW1d	2/20/2014	19.0	6.65	0.7	7	264	4.0	1,402	840	1.9		0.15														12	
FG1-MW1d	5/21/2014	20.6	7.39	1.0	12	175	3.0	1,432	880	2.0		0.17														12	
FG1-MW1d	8/22/2014	21.5	7.60	0.7	8	147	3.0	1,504	840	0.68	<0.050	0.27	0.42	160	5.8	46	99	130	140	<0.15	450	<8.2	<8.2	450	0.7	12	
FG1-MW1d	11/10/2014	20.0	7.12	3.7	42	34	1.0	1,673	980	0.89		0.29														12	
FG1-MW1d	2/11/2015	21.6	7.29	0.6	7	14	1.0	1,600	960	0.77	<0.050	0.25	0.62	170	6.5	56	120	130	110	0.15	500	<8.2	<8.2	500	6.3	12	
FG1-MW1d	5/14/2015	20.0	7.26	1.8	20	150	2.0	1,525	1,000	0.17		0.28														12	
FG1-MW1d	8/19/2015	19.6	7.26	5.0	56	121	5.0	1,635	880	1.7		0.33														10	
FG1-MW1d	11/18/2015	19.5	7.25	0.6	7	112	7.0	2,089	1,200	<0.10		0.52														11	
FG1-MW1d	2/22/2016	19.0	7.13	0.6	8	88	2.0	2,215	1,200	<0.20	<0.050	0.71	1.6	250	11	77	160	200	66	0.13J	870	<8.2	<8.2	870	2.2	12	
FG1-MW1d	5/19/2016	20.3	6.94	1.6	17	173	5.0	2,258	1,300	<0.20		0.64														12	
FG1-MW1d	8/19/2016	20.8	6.94	1.9	22	137	6.0	2,191	1,300	<0.20		0.67														10	
FG1-MW1d	12/1/2016	18.9	6.84	0.6	8	86	6.0	2,273	1,300	<0.20		0.80														12	
FG1-MW1s	3/15/2017	19.8	6.77	0.7	7	-20	4.0	2,202	1,400	0.42	0.062	0.030J	0.80	280	2.6	69	180	230	32	0.38	920	<8.2	<8.2	920	2.5	8	
FG1-MW1s	5/19/2017	19.8	6.88	0.7	9	61	5.9	2,299	1,300	0.41		0.10														8	
FG1-MW1s	8/28/2017	22.0	6.77	1.6	19	138	20	4,096	2,700	31		0.045J														2	
FG1-MW1s	11/22/2017	22.2	6.96	0.6	7	52	7.0	3,365	1,900	5.3		<0.1														2	
FG1-MW1d	2/23/2018	19.4	7.31	0.7	8	207	4.0	1,901	1,200	<0.10	<0.050	4.4	4.6	230	19	51	140	170	110	<0.38	760	<8.2	<8.2	760	-0.7	13	
FG1-MW1s	5/11/2018	22.2	6.90	1.4	16	-5	10	2,161	1,400	0.063J		0.071J														2	
FG1-MW1d	8/23/2018	20.4	6.84	0.7	7	159	3.0	2,207	1,100	<0.10		4.4														12	
FG1-MW1d	11/14/2018	20.1	6.84	1.0	11	259	3.0	2,050	1,200	<0.10		3.4														13	
FG1-MW1s	2/25/2019	20.6	6.91	0.8	9	91	10	2,225	1,400	0.26	<0.050	0.12J	0.70	250	3.3	57	150	190	66	1.2	900	<8.2	<8.2	900	-3.4	2	
FG1-MW1s	5/24/2019	20.6	6.99	2.8	40	-17	6.0	2,339	1,600	0.28		0.15J														5	
FG1-MW1s	8/20/2019	23.0	7.02	1.6	14	12	8.0	2,098	1,100	<0.1		0.21														1	
FG1-MW1d	11/13/2019	20.8	6.80	1.0	12	174	3.0	2,162	1,100	<0.10		9.6														14	
FG1-MW2d	2/12/2012	21.2	6.87	1.5		169	420	1,203	810	40		<0.05														9	
FG1-MW2d	5/14/2012	21.1	6.63	2.8		186	10	1,320	840	37	0.092*	0.029J	0.20*	80	7.9	51	110	130	66	2.3*	270*	<8.2*	<8.2*	270	0.8	11	H
FG1-MW2d	8/15/2012	21.2	7.04	2.1		120	15	1,167	780	35	0.13	0.027J	0.27	74	8.1	46	100	120	62	2.4	270	<8.2	<8.2	270	-1.8	10	
FG1-MW2d	12/11/2012	21.0	6.54	0.9		240	2.0	1,369	890	46		<0.050														9	
FG1-MW2d	3/21/2013	21.0	7.77	5.5	64	113	15	1,331	1,000	49		0.042J														9	
FG1-MW2d	5/30/2013	22.4	7.10	0.5	6	152	1.0	1,371	900	48		<0.050														9	
FG1-MW2d	8/23/2013	23.7	6.37	0.4	4	140	12	1,181	800	39	0.10	0.042J	0.62	72	5.6	48	100	110	61	1.9	270	<8.2	<8.2	270	-1.6	9	
FG1-MW2d	11/14/2013	22.0	6.65	0.6	6	122	12	1,095	740	32		0.022J														10	
FG1-MW2d	2/20/2014	19.7	6.29	0.5	6	277	5.0	1,153	760	32		0.027J														9	
FG1-MW2d	5/21/2014	22.0	6.94	0.9	11	191	8.0	1,152	730	29		<0.10														8	
FG1-MW2d	8/22/2014	23.3	7.13	0.4	5	147	3.0	1,099	810	47	0.022J	0.059J	0.77	76	9.9	32	79	92	68	9.5	130	<8.2	<8.2	130	-0.6	9	
FG1-MW2d	11/10/2014	21.6	6.93	4.0	47	95	1.0	1,335	820	37		0.035J														10	
FG1-MW2d	2/11/2015	21.8	6.93	0.4	5	62	2.0	1,188	740	29	0.017J	<0.10	0.51	75	6.2	47	100	120	53	2.7	230	<8.2	<8.2	230	4.4	9	
FG1-MW2d	5/14/2015	21.4	6.79	1.7	20	169	2.0	1,066	700	28		0.031J														8	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
FG1-MW2d	8/19/2015	23.7	6.94	2.9	35	93	5.0	1,046	740	29		0.029J														7	
FG1-MW2d	11/18/2015	21.4	6.87	0.7	9	124	6.0	1,152	680	30		0.029J														9	
FG1-MW2d	2/22/2016	21.3	6.78	0.6	8	136	2.0	1,178	740	33	0.029J	<0.10	<0.20	100	6.8	39	88	140	51	2.6	200	<8.2	<8.2	200	2.9	9	
FG1-MW2d	5/19/2016	21.8	6.59	2.1	24	181	6.0	1,185	720	31		0.063J														8	
FG1-MW2d	8/19/2016	22.3	6.44	1.6	20	173	3.0	1,180	740	31		0.036J														7	
FG1-MW2d	12/1/2016	21.1	6.51	0.8	10	190	7.0	1,161	820	32		0.043J														9	
FG1-MW2s	3/15/2017	20.8	6.76	2.8	31	84	7.0	1,424	1,000	35	<0.050	0.023J	0.37	110	88	36	100	160	76	4.1	290	<8.2	<8.2	290	1.6	7	
FG1-MW2s	5/19/2017	20.9	6.78	2.6	30	231	5.1	2,098	1,400	77		0.10														6	
FG1-MW2d	8/28/2017	21.8	6.68	0.7	8	130	2.0	1,213	910	35		0.058J														11	
FG1-MW2d	11/22/2017	22.1	6.60	0.8	9	210	2.6	1,436	950	38		<0.1														11	
FG1-MW2d	2/23/2018	20.9	6.78	0.8	9	231	6.6	1,315	910	39	0.015J	0.038J	0.45	100	8.2	46	100	170	77	1.9	230	<8.2	<8.2	230	-1.9	9	
FG1-MW2d	5/11/2018	21.3	6.54	0.8	9	210	7.0	1,478	1,100	37		0.035J														12	
FG1-MW2d	8/23/2018	21.7	6.46	0.5	5	200	4.0	1,452	1,000	44		0.13														8	
FG1-MW2d	11/14/2018	21.9	6.45	0.9	10	233	2.0	1,438	940	46		<0.10														9	
FG1-MW2s	2/25/2019	19.0	7.16	1.8	20	212	36	4,950	3,300	89	<0.050	0.95	9.3	360	580	63	230	790	270	4.3	710	<8.2	<8.2	710	-1.4	1	
FG1-MW2s	5/24/2019	20.7	7.02	2.0	29	195	3.0	2,384	1,600	58		0.24														2	
FG1-MW2d	8/20/2019	23.6	6.69	0.9	5	155	3.0	1,645	1,100	43		<0.2														10	
FG1-MW2d	11/13/2019	22.4	6.46	1.0	12	158	3.0	1,465	940	42		0.19J														11	
FG1-MW3d	2/12/2012	21.5	7.15	1.5		173	>1,000	2,072	1,300	7.2		<0.05														11	
FG1-MW3d	5/14/2012	21.3	6.97	3.3		173	143	1,783	1,100	3.4	<0.05*	<0.05	<0.2*	180	10	57	150	170	59	0.56*	650*	<8.2*	<8.2*	650	2.5	8	H
FG1-MW3d	8/15/2012	21.8	7.20	2.5		95	70	1,867	1,200	7.2	0.016J	0.026J	0.28	210	10	71	170	230	68	0.37	740	<8.2	<8.2	740	1	12	
FG1-MW3d	12/11/2012	21.0	6.45	1.1		249	43	1,966	1,100	8.3		0.026J														11	
FG1-MW3d	3/21/2013	20.6	7.47	5.6	60	94	51	1,840	1,100	7.7		0.044J														8	
FG1-MW3d	5/30/2013	21.8	7.39	0.4	5	142	73	2,050	1,300	11		<0.050														11	
FG1-MW3d	8/23/2013	22.9	6.43	0.3	4	140	81	2,235	1,400	23	0.015J	0.034J	0.43	250	9.2	76	170	240	77	1.2	820	<8.2	<8.2	820	-1.1	8	
FG1-MW3d	11/14/2013	21.8	6.92	1.0	11	116	68	2,166	1,000	19		0.023J														11	
FG1-MW3d	2/20/2014	19.5	6.48	0.9	10	274	125	2,267	1,300	20		0.024J														10	
FG1-MW3d	5/21/2014	21.2	7.39	1.0	12	187	16	2,448	1,400	22		<0.10														10	
FG1-MW3d	8/22/2014	22.9	7.48	0.9	9	148	7.0	2,195	1,200	15	<0.050	0.097J	0.52	230	9.0	68	160	210	71	0.33	740	<8.2	<8.2	740	1.2	11	
FG1-MW3d	11/10/2014	21.4	7.22	3.5	42	77	3.0	2,146	1,200	13		0.047J														11	
FG1-MW3d	2/11/2015	21.9	7.51	0.5	6	52	39	2,322	1,400	17	<0.050	<0.10	0.55	260	9.7	80	180	220	67	0.62	790	<8.2	<8.2	790	4.8	10	
FG1-MW3d	5/14/2015	21.2	7.12	1.3	14	161	59	2,308	1,400	19		<0.10														10	
FG1-MW3d	8/19/2015	23.9	7.35	2.0	23	77	84	2,281	1,200	21		<0.10														9	
FG1-MW3d	11/18/2015	21.0	7.31	1.0	12	121	70	1,963	1,100	7.4		0.032J														10	
FG1-MW3d	2/22/2016	21.1	7.29	0.5	6	103	63	1,912	1,100	5.0	<0.050	0.026J	0.22	200	9.2	62	160	180	64	0.70	690	<8.2	<8.2	690	3.4	10	
FG1-MW3d	5/19/2016	22.2	7.21	1.6	18	172	17	2,159	1,200	7.2		0.046J														10	
FG1-MW3d	8/19/2016	22.6	6.92	1.4	17	156	96	2,199	1,200	9.9		<0.10														8	
FG1-MW3d	12/1/2016	20.9	7.03	0.8	10	152	20	1,840	1,000	4.1		0.028J														10	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
FG1-MW3s	3/15/2017	21.7	7.08	1.9	22	61	16	1,950	1,200	14	<0.050	<0.10	0.22	200	8.0	83	160	190	37	0.81	770	<8.2	<8.2	770	2.5	8	
FG1-MW3s	5/19/2017	21.3	7.14	2.1	25	200	32.9	1,999	1,100	19		0.094J														7	
FG1-MW3d	8/28/2017	21.8	7.12	0.8	10	125	18	1,742	1,000	6.9		0.026J														13	
FG1-MW3d	11/22/2017	22.1	7.17	0.5	6	194	10.48	1,872	980	7.1		<0.1														12	
FG1-MW3d	2/23/2018	20.9	7.41	1.1	12	234	10.33	1,844	1,100	7.8	<0.050	0.028J	0.14J	190	7.6	66	150	180	57	0.57	720	<8.2	<8.2	720	0.3	11	
FG1-MW3d	5/11/2018	21.2	7.21	0.8	10	144	10	1,827	1,200	7.1		0.035J														13	
FG1-MW3d	8/23/2018	22.1	7.05	0.6	6	188	11	1,944	980	8.6		0.091J														10	
FG1-MW3d	11/14/2018	22.1	7.04	1.1	13	246	6.0	1,888	1,100	7.8		<0.10														11	
FG1-MW3s	2/25/2019	21.5	7.18	2.2	25	173	215	2,073	1,200	13	<0.050	0.078J	0.36	200	6.8	64	130	190	42	2.6	780	<8.2	<8.2	780	-5.1	1	
FG1-MW3s	5/24/2019	21.4	7.15	2.9	38	183	30	2,026	1,200	19		0.15J														3	
FG1-MW3d	8/20/2019	23.8	7.24	0.8	6	100	8.0	1,908	980	10		<0.2														12	
FG1-MW3d	11/13/2019	22.8	7.07	1.7	21	158	8.0	1,806	980	9.9		0.13J														12	
FG1-MW4s	2/12/2012	21.4	6.23	2.4		201	370	679	530	33		<0.05														6	
FG1-MW4s	5/14/2012	20.9	6.00	2.4		204	57	632	480	26	<0.05*	0.036J	3.1*	35	13	19	53	32	30	8.9*	120*	<4.1*	<4.1*	120	0	6	H
FG1-MW4s	8/15/2012	22.0	6.50	2.0		112	10	635	510	29	0.065	0.041J	1.6	38	15	22	59	57	35	11	120	<4.1	<4.1	120	-2.6	10	
FG1-MW4s	12/11/2012	23.4	6.18	1.8		243	19	593	420	19		0.026J														5	
FG1-MW4s	3/21/2013	21.5	7.29	5.6	59	132	21	509	410	13		0.052														5	
FG1-MW4s	5/30/2013	23.0	6.59	0.5	6	147	27	756	580	0.16		0.033J														7	
FG1-MW4s	8/23/2013	24.4	5.99	0.3	3	153	12	776	570	23	0.14	0.051	1.5	54	19	21	58	90	43	11	130	<4.1	<4.1	130	-3.7	5	
FG1-MW4s	11/14/2013	26.1	6.05	0.5	6	128	10	654	390	17		0.038J														6	
FG1-MW4s	2/20/2014	23.1	5.84	0.6	7	280	12	807	550	18		0.025J														4	
FG1-MW4s	5/21/2014	22.7	6.05	0.6	6	205	10	970	670	41		0.033J														5	
FG1-MW4s	8/22/2014	23.8	6.46	0.6	7	157	5.0	988	680	36	0.17	<0.10	1.5	69	20	23	63	110	42	8.1	98	<4.1	<4.1	98	-1.3	7	
FG1-MW4s	11/10/2014	24.8	6.28	3.5	39	121	14	821	610	34		<0.10														6	
FG1-MW4s	2/11/2015	24.0	6.45	0.8	10	95	6.0	828	570	30	0.19	0.036J	1.9	71	22	20	54	75	43	9.0	96	<4.1	<4.1	96	4.1	5	
FG1-MW4s	5/14/2015	23.3	6.21	0.9	10	172	9.0	993	680	30		0.041J														5	
FG1-MW4s	8/19/2015	24.4	6.48	3.9	48	123	15	1,522	1,100	50		0.066J														3	
FG1-MW4s	11/18/2015	23.1	6.10	0.7	10	151	19	1,473	890	40		0.038J														5	
FG1-MW4s	2/23/2016	21.8	6.31	0.6	7	147	10	1,553	1,100	46	0.057	0.029J	0.93	110	22	42	120	260	85	6.9	120	<8.2	<8.2	120	-0.7	5	
FG1-MW4s	5/19/2016	22.8	6.22	2.1	24	185	9.0	1,877	1,200	81		0.041J														4	
FG1-MW4d	8/19/2016	23.6	5.53	1.2	15	186	2.0	1,214	980	50		0.047J														20	
FG1-MW4s	12/1/2016	22.5	6.10	1.0	12	208	15	1,487	1,100	39		0.055J														5	
FG1-MW4s	3/15/2017	22.4	6.04	0.8	9	116	5.0	1,625	1,200	36	0.12	0.026J	0.87	130	23	47	130	310	110	5.9	140	<8.2	<8.2	140	0	16	
FG1-MW4s	5/19/2017	21.5	6.30	0.9	10	115	5.5	1,639	1,200	37		0.12														15	
FG1-MW4s	8/28/2017	23.3	6.15	1.9	23	170	12	2,484	2,500	130		0.036J														6	
FG1-MW4s	11/22/2017	23.8	6.28	1.0	11	208	11.15	2,687	2,100	160		<0.1														6	
FG1-MW4s	2/23/2018	21.5	6.56	1.0	11	239	25.5	2,741	2,400	170	<0.050	0.021J	0.81	170	16	76	240	340	190	6.6	110	<8.2	<8.2	110	-3.8	5	
FG1-MW4s	5/11/2018	22.0	6.05	0.9	11	212	9.0	1,941	1,200	63		0.041J														8	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																		----Alkalinity as CaCO3----						
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
FG1-MW4s	8/23/2018	23.8	6.02	1.1	11	221	7.0	2,521	2,200	150		0.16														4	
FG1-MW4s	11/14/2018	23.5	6.06	3.0	35	304	19	2,184	1,500	110		<0.10														5	
FG1-MW4s	2/25/2019	21.7	6.06	0.8	9	245	5.0	2,295	1,700	97	0.43	0.14J	0.85	200	30	49	140	350	120	6.2	110	<8.2	<8.2	110	-2.9	10	
FG1-MW4s	5/24/2019	21.5	6.14	1.8	26	221	4.0	2,134	1,900	83		0.20														11	
FG1-MW4s	8/20/2019	25.5	6.41	1.3	6	197	14	2,343	1,800	130		<0.2														6	
FG1-MW4s	11/13/2019	24.2	6.19	1.6	20	170	5.0	2,156	1,600	100		0.17J														6	
FG1-MW5s	2/12/2012	20.2	6.81	1.4		163	8.5	607	390	11		0.026J														6	
FG1-MW5s	5/14/2012	20.7	6.68	2.7		162	11	743	490	17	<0.05*	0.037J	0.20*	66	5.7	23	54	53	26	<0.15*	210*	<4.1*	<4.1*	210	1	8	H
FG1-MW5s	8/15/2012	19.1	6.75	2.6		107	8.0	906	620	47	0.075	0.033J	0.68	62	25	30	76	61	34	<0.15	190	<4.1	<4.1	190	0.1	6	
FG1-MW5s	12/11/2012	19.7	6.26	0.6		240	5.5	825	530	27		<0.050														7	
FG1-MW5s	3/21/2013	19.0	7.56	6.6	62	102	2.0	645	440	23		0.046J														6	
FG1-MW5s	5/30/2013	22.4	7.37	0.5	5	112	3.0	742	500	25		<0.050														6	
FG1-MW5s	8/23/2013	23.3	6.14	0.3	3	168	6.0	856	610	19	0.045J	0.040J	0.82	81	31	20	48	100	33	0.27	180	<4.1	<4.1	180	-0.7	5	
FG1-MW5s	11/14/2013	21.4	6.50	0.3	3	150	5.0	977	640	22		0.020J														6	
FG1-MW5s	2/20/2014	21.1	6.34	0.8	9	266	8.0	881	530	16		0.032J														6	
FG1-MW5s	5/21/2014	20.3	7.28	1.4	16	200	4.0	1,082	650	19		<0.10														5	
FG1-MW5d	8/22/2014	22.2	7.15	0.5	6	137	3.0	1,244	700	20	0.034J	<0.10	0.31	110	2.2	42	83	110	59	<0.15	320	<8.2	<8.2	320	1.1	23	
FG1-MW5s	11/10/2014	21.7	6.88	4.2	44	126	2.0	942	570	15		0.037J														7	
FG1-MW5s	2/11/2015	22.2	6.96	0.7	9	93	1.0	955	590	36	0.12	<0.10	0.58	93	21	27	58	180	85	1.1	220	<4.1	<4.1	220	-17.7	6	
FG1-MW5s	5/14/2015	21.0	6.84	1.6	18	208	4.0	814	540	18		<0.10														5	
FG1-MW5s	8/19/2015	20.6	7.10	1.2	18	99	8.0	1,721	1,200	16		<0.10														4	
FG1-MW5s	11/18/2015	19.8	6.89	0.8	9	136	6.0	1,469	880	14		0.031J														8	
FG1-MW5s	2/23/2016	19.3	6.84	0.7	8	113	3.0	1,326	900	15	0.096	0.047J	0.38	130	27	31	70	230	76	0.87	180	<8.2	<8.2	180	-1.5	7	
FG1-MW5s	5/19/2016	21.5	6.71	2.0	22	166	5.0	1,608	970	27		0.051J														5	
FG1-MW5s	8/19/2016	21.7	6.67	0.6	7	172	2.0	1,531	920	17		0.030J														4	
FG1-MW5s	12/1/2016	18.8	6.79	0.7	7	173	6.0	1,403	940	21		0.024J														7	
FG1-MW5s	3/15/2017	*Well Not Accessible*																									
FG1-MW5s	5/19/2017	18.2	7.32	0.7	8	120	8.4	3,030	1,900	18		0.11														14	
FG1-MW5s	8/28/2017	21.0	6.54	0.6	8	132	8.0	1,794	1,300	31		0.033J														8	
FG1-MW5s	11/22/2017	20.5	6.72	0.5	6	169	3.3	1,962	1,200	28		<0.1														7	
FG1-MW5s	2/23/2018	19.8	6.82	0.6	6	223	6.4	1,498	980	16	0.18	0.030J	0.27	140	18	39	100	240	90	0.78	310	<8.2	<8.2	310	-4.1	6	
FG1-MW5s	5/11/2018	20.3	6.80	0.7	8	182	9.0	1,747	1,200	24		0.079J														9	
FG1-MW5s	8/23/2018	20.9	6.68	1.2	12	203	4.0	1,627	1,000	27		0.10														5	
FG1-MW5s	11/14/2018	20.3	6.70	0.9	10	231	2.0	1,317	820	12		<0.10														7	
FG1-MW5s	2/25/2019	18.1	7.18	1.9	21	241	2.0	2,255	1,300	14	<0.050	0.11J	0.61	330	6.1	37	83	320	200	0.18	450	<8.2	<8.2	450	-3.3	18	
FG1-MW5s	5/24/2019	17.7	6.92	1.6	30	240	8.0	1,614	1,200	8.1		0.19J														18	
FG1-MW5s	8/20/2019	21.4	6.91	0.6	7	155	2.0	1,653	1,000	28		<0.2														7	
FG1-MW5s	11/13/2019	20.3	6.73	2.1	23	224	17	1,691	1,100	27		0.15J														7	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																		----Alkalinity as CaCO3----						
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
FG1-MW6s	2/12/2012	22.3	6.62	1.7		192	11	404	290	14		<0.05														3	
FG1-MW6s	5/14/2012	23.2	6.36	3.3		181	10	464	340	13	<0.05*	0.033J	0.28*	39	2.9	17	29	28	12	2.1*	120*	<4.1*	<4.1*	120	2.1	4	H
FG1-MW6s	8/15/2012	26.0	6.45	2.3		122	15	428	300	14	0.012J	0.027J	0.62	32	4.9	18	31	44	17	3.1	91	<4.1	<4.1	91	0.4	8	
FG1-MW6s	12/11/2012	24.6	6.39	1.0		230	6.5	327	220	11		<0.050														3	
FG1-MW6d	3/21/2013	23.2	7.19	5.5	61	90	4.0	688	530	30		0.037J														21	
FG1-MW6s	5/30/2013	24.6	6.98	0.5	6	118	2.0	440	330	18		<0.050														4	
FG1-MW6s	8/23/2013	27.1	6.21	0.3	4	158	3.0	461	320	5.0	0.011J	0.038J	0.52	40	6.1	14	29	53	24	3.2	100	<4.1	<4.1	100	0.5	2	
FG1-MW6d	11/14/2013	24.7	6.13	0.3	4	140	5.0	630	450	17		0.031J														21	
FG1-MW6d	2/20/2014	22.7	6.26	0.6	7	264	5.0	748	480	18		0.026J														20	
FG1-MW6d	5/21/2014	22.9	6.82	0.7	8	188	2.0	595	380	14		<0.10														21	
FG1-MW6d	8/22/2014	24.5	6.79	0.4	6	152	3.0	866	590	36	0.11	<0.10	1.1	69	5.5	28	51	80	26	2.8	120	<4.1	<4.1	120	0.8	21	
FG1-MW6d	11/10/2014	23.7	6.50	3.6	43	125	2.0	607	410	17		<0.10														21	
FG1-MW6d	2/11/2015	23.0	6.57	0.4	5	98	1.0	677	450	21	0.21	<0.10	0.93	59	5.2	24	43	56	30	4.0	120	<4.1	<4.1	120	4.4	20	
FG1-MW6d	5/14/2015	22.2	6.54	0.8	10	191	3.0	734	520	25		0.027J														20	
FG1-MW6d	8/19/2015	22.3	6.91	0.5	8	110	7.0	1,583	1,100	35		0.039J														19	
FG1-MW6s	11/18/2015	22.8	5.68	1.1	13	182	7.0	1,657	1,000	12		0.029J														3	
FG1-MW6s	2/23/2016	22.5	6.45	0.9	10	143	4.0	1,581	1,000	28	0.014J	0.046J	0.31	180	14	32	75	240	80	5.1	140	<8.2	<8.2	140	4.2	3	
FG1-MW6d	5/19/2016	23.5	6.37	1.9	22	187	14	1,321	840	29		0.13														19	
FG1-MW6d	8/19/2016	23.2	6.21	0.5	6	174	3.0	1,484	1,100	24		0.034J														18	
FG1-MW6s	12/1/2016	22.0	6.33	1.2	14	181	7.0	1,175	860	32		<0.10														3	
FG1-MW6s	3/15/2017	22.0	6.43	1.1	13	86	3.0	1,068	690	27	0.045J	<0.10	0.27	120	7.5	27	61	160	53	3.8	140	<8.2	<8.2	140	1	15	
FG1-MW6s	5/19/2017	20.3	7.03	3.2	36	159	2.5	940	670	38		0.076J														13	
FG1-MW6s	8/28/2017	23.0	6.54	0.8	10	142	4.0	1,094	860	33		0.036J														4	
FG1-MW6s	11/22/2017	23.1	6.47	0.7	9	182	2.9	1,127	750	31		<0.1														4	
FG1-MW6s	2/23/2018	21.6	6.56	0.7	8	218	8.5	982	690	33	0.014J	0.023J	0.30	84	5.6	30	68	150	51	3.6	110	<4.1	<4.1	110	-1.5	2	
FG1-MW6s	5/11/2018	21.6	6.47	1.3	16	173	7.0	1,012	690	32		0.034J														6	
FG1-MW6d	8/23/2018	22.4	6.38	0.7	7	208	4.0	852	600	28		0.13														19	
FG1-MW6s	11/14/2018	24.9	6.33	1.2	15	235	4.0	921	640	39		0.021J														2	
FG1-MW6s	2/25/2019	22.0	6.41	0.7	8	234	2.0	932	640	37	0.13	0.11J	0.24	79	5.0	25	57	110	43	3.4	97	<4.1	<4.1	97	-1.3	8	
FG1-MW6s	5/24/2019	20.5	6.48	1.9	29	211	2.0	897	630	31		0.15J														9	
FG1-MW6s	8/20/2019	24.3	6.57	0.7	1	204	6.0	1,037	760	40		<0.2														3	
FG1-MW6d	11/13/2019	21.7	6.25	1.2	14	213	5.0	1,281	1,100	33		0.17J														22	
FG1-MW7s	2/12/2012	21.9	6.47	2.2		189	39	621	470	26		0.031J														8	
FG1-MW7s	5/14/2012	22.2	6.22	2.4		190	29	819	630	39	0.025J*	0.035J	0.49*	45	3.9	29	70	45	41	5.2*	140*	<4.1*	<4.1*	140	0.4	8	H
FG1-MW7s	8/15/2012	24.1	6.29	2.1		121	8.0	512	410	21	0.027J	0.030J	1.1	31	8.9	17	45	36	32	7.6	110	<4.1	<4.1	110	-3.7	13	
FG1-MW7s	12/11/2012	22.8	5.97	1.5		245	55	509	400	21		<0.050														8	
FG1-MW7s	3/21/2013	21.8	7.02	5.6	60	141	12	538	460	20		0.039J														8	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
FG1-MW7s	5/30/2013	23.2	6.64	2.2	26	145	3.0	578	480	24		<0.050														9	
FG1-MW7s	8/23/2013	27.3	5.98	0.3	5	161	11	587	440	14	0.025J	0.040J	1.2	46	7.6	15	46	55	40	8.4	110	<4.1	<4.1	110	-1.1	8	
FG1-MW7s	11/14/2013	25.9	5.89	0.6	7	147	8.0	811	640	38		0.071														8	
FG1-MW7s	2/20/2014	22.7	5.99	0.9	11	271	28	705	520	28		0.034J														7	
FG1-MW7s	5/21/2014	23.7	6.17	1.4	16	204	5.0	794	590	33		<0.10														9	
FG1-MW7s	8/22/2014	25.1	6.61	0.4	5	157	4.0	777	570	34	0.027J	<0.10	1.5	51	8.1	23	61	47	49	4.8	120	<4.1	<4.1	120	0.2	9	
FG1-MW7s	11/10/2014	24.2	6.44	4.1	47	134	4.0	740	550	26		0.044J														8	
FG1-MW7s	2/11/2015	23.7	6.47	0.6	8	106	4.0	726	490	25	0.058	<0.10	1.1	51	7.8	21	57	61	45	4.7	94	<4.1	<4.1	94	3.8	7	
FG1-MW7s	5/14/2015	22.7	6.50	1.3	15	164	6.0	658	470	25		0.030J														7	
FG1-MW7s	8/19/2015	23.1	6.60	1.0	15	121	113	1,604	1,200	28		0.058J														6	
FG1-MW7s	11/18/2015	22.6	6.14	0.8	10	149	36	1,462	880	33		0.027J														7	
FG1-MW7s	2/23/2016	22.4	6.21	0.6	7	158	5.0	1,362	960	29	0.056	0.059J	0.73	80	7.8	43	100	250	85	3.6	100	<8.2	<8.2	100	-3.2	7	
FG1-MW7s	5/19/2016	23.3	6.29	1.8	21	189	6.0	1,420	890	26		0.056J														6	
FG1-MW7s	8/19/2016	24.5	6.32	0.6	8	170	133	1,317	1,100	26		0.047J														5	
FG1-MW7s	12/1/2016	22.1	6.13	0.5	7	169	10	1,021	870	32		0.034J														7	
FG1-MW7s	3/15/2017	23.1	6.30	1.6	19	115	5.0	749	580	30	0.051	0.023J	0.53	60	10	24	54	86	47	4.0	66	<4.1	<4.1	66	3.7	19	
FG1-MW7s	5/19/2017	21.1	6.93	3.9	44	172	6.4	1,031	670	38		0.084J														17	
FG1-MW7s	8/28/2017	23.1	6.14	1.1	14	147	8.0	842	800	32		0.059J														9	
FG1-MW7s	11/22/2017	22.5	6.41	0.9	10	165	4.4	944	690	33		<0.1														9	
FG1-MW7s	2/23/2018	21.9	6.52	0.9	10	196	19	839	640	34	<0.050	0.031J	0.50	59	7.5	25	66	110	55	4.2	86	<4.1	<4.1	86	-2.5	7	
FG1-MW7s	5/11/2018	22.3	6.46	2.1	25	187	7.0	948	680	36		0.029J														10	
FG1-MW7s	8/23/2018	22.3	6.24	1.1	11	224	6.0	871	660	34		0.10														6	
FG1-MW7s	11/14/2018	22.6	6.26	0.8	10	236	4.0	875	640	34		<0.10														7	
FG1-MW7s	2/25/2019	22.5	6.32	0.8	10	226	7.0	786	580	28	<0.050	0.11J	0.63	50	6.6	22	58	77	46	3.4	100	<4.1	<4.1	100	-1.3	10	
FG1-MW7s	5/24/2019	21.5	6.51	2.1	30	202	2.0	744	660	37		0.18J														12	
FG1-MW7s	8/20/2019	24.5	6.63	1.3	10	195	10	891	680	49		<0.2														8	
FG1-MW7s	11/13/2019	23.4	6.37	1.6	19	198	7.0	972	750	56		0.13J														9	
FG1-MW8s	2/12/2012	19.2	6.51	1.4		111	12	1,061	680	<0.1		0.22														3	
FG1-MW8s	5/14/2012	20.5	6.29	2.6		147	102	1,014	620	0.077J	<0.05*	0.18	<0.2*	110	2.4	34	62	78	81	0.29*	340*	<8.2*	<8.2*	340	0.2	5	H
FG1-MW8s	8/15/2012	19.6	6.53	2.4		60	22	1,045	680	0.094J	0.012J	0.25	0.35	110	2.3	45	73	86	93	<0.15	390	<8.2	<8.2	390	0.2	3	
FG1-MW8s	12/11/2012	20.4	5.82	2.7		251	13	1,033	600	0.049J		0.11														3	
FG1-MW8s	3/21/2013	19.3	6.85	5.8	59	32	16	943	640	0.076J		0.17														2	
FG1-MW8s	5/30/2013	21.2	6.81	0.5	6	119	8.0	1,012	620	<0.10		0.14														3	
FG1-MW8d	8/23/2013	21.0	6.16	0.3	3	165	7.0	960	640	15	0.11	0.034J	0.40	83	2.5	38	78	50	31	0.078J	370	<4.1	<4.1	370	0.8	19	
FG1-MW8d	11/14/2013	19.5	6.30	0.4	5	152	7.0	1,029	660	17		0.023J														21	
FG1-MW8s	2/20/2014	19.0	6.54	1.0	10	265	67	1,045	610	0.25		0.070														2	
FG1-MW8s	5/21/2014	19.4	7.32	0.8	9	192	6.0	989	550	<0.10		0.060J														2	
FG1-MW8d	8/22/2014	20.8	7.07	0.7	8	150	3.0	1,165	660	19	0.098	<0.10	0.40	76	2.8	47	93	88	37	<0.15	360	<8.2	<8.2	360	0.3	20	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																		----Alkalinity as CaCO3----						
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
FG1-MW8s	11/10/2014	21.1	6.56	3.8	44	132	6.0	1,170	710	2.1		0.047J														4	
FG1-MW8s	2/11/2015	24.8	6.77	2.9	31	99	13	1,104	670	2.5	0.016J	<0.10	0.24	100	2.6	48	74	170	120	0.12J	370	<8.2	<8.2	370	-10.5	2	
FG1-MW8d	5/14/2015	19.0	6.75	1.2	13	173	1.0	1,165	750	19		0.036J														19	
FG1-MW8d	8/19/2015	19.3	7.30	0.6	9	96	9.0	1,169	700	23		0.030J														18	
FG1-MW8s	11/18/2015	19.3	5.76	0.8	9	181	11	994	600	0.067J		0.041J														3	
FG1-MW8s	2/23/2016	19.8	6.48	0.5	6	137	4.0	940	630	0.42	<0.050	0.042J	0.21	95	2.2	34	60	94	66	<0.15	300	<4.1	<4.1	300	-0.4	3	
FG1-MW8s	5/19/2016	20.8	6.42	1.7	19	185	13	1,031	630	<0.10		0.035J														1	
FG1-MW8d	8/19/2016	20.7	6.79	0.7	8	170	8.0	1,233	780	15		0.030J														18	
FG1-MW8s	12/1/2016	20.4	6.32	0.7	8	131	10	923	580	<0.10		0.032J														3	
FG1-MW8s	3/15/2017	19.6	6.30	0.5	6	51	3.0	1,045	690	2.7	<0.050	0.080J	0.29	91	2.8	47	86	92	84	<0.15	360	<8.2	<8.2	360	1.9	17	
FG1-MW8s	5/19/2017	19.3	6.55	0.7	8	157	8.6	1,126	700	4.4		0.24														12	
FG1-MW8s	8/28/2017	21.3	6.21	0.6	7	99	8.0	999	710	1.2		0.043J														4	
FG1-MW8s	11/22/2017	21.6	6.44	0.5	7	106	2.5	1,063	640	0.62		<0.1														4	
FG1-MW8s	2/23/2018	19.8	6.55	0.7	8	168	18.53	1,043	690	0.44	0.018J	0.026J	0.25	90	3.4	41	86	100	89	0.19	350	<8.2	<8.2	350	-0.2	3	
FG1-MW8s	5/11/2018	19.7	6.35	2.6	30	167	6.0	1,088	700	0.99		0.092J														5	
FG1-MW8s	8/23/2018	22.5	6.32	0.9	9	106	7.0	1,113	620	0.073J		0.11														2	
FG1-MW8s	11/14/2018	22.8	6.22	1.0	12	230	3.0	1,056	660	2.1		<0.10														3	
FG1-MW8s	2/25/2019	19.3	6.34	0.9	10	224	4.0	1,211	760	3.1	<0.050	0.14J	0.42	95	3.5	45	88	120	96	<0.15	360	<8.2	<8.2	360	-1.9	13	
FG1-MW8s	5/24/2019	19.2	6.40	2.7	38	200	2.0	1,403	900	19		0.19J														13	
FG1-MW8s	8/20/2019	22.4	6.44	0.8	6	198	3.0	1,525	910	35		<0.2														3	
FG1-MW8s	11/13/2019	24.4	6.29	1.4	18	195	7.0	1,469	940	24		0.13J														3	
FG1-MW9s	2/12/2012	18.5	7.20	1.2		127	740	694	470	0.16		0.026J														4	
FG1-MW9s	5/14/2012	16.4	6.99	2.3		227	>1,000	677	420	0.54	<0.05*	0.042J	0.51*	84	1.0	20	42	13	20	6.5*	320*	<4.1*	<4.1*	320	0	3	H
FG1-MW9s	8/15/2012	17.6	7.02	2.3		78	80	388	270	<0.2	0.010J	0.026J	0.26	35	0.60J	18	32	16	11	0.78	190	<4.1	<4.1	190	1.2	6	
FG1-MW9s	12/11/2012	18.5	6.53	1.2		227	349	382	240	<0.10		<0.050														4	
FG1-MW9s	3/21/2013	17.1	8.10	6.2	64	102	95	438	340	0.047J		0.044J														4	
FG1-MW9s	5/30/2013	18.1	6.71	4.8	55	208	9.0	537	360	<0.10		<0.050														5	
FG1-MW9s	8/23/2013	20.4	6.80	0.6	7	125	47	570	390	0.16	0.0041J	0.042J	0.23	32	0.76J	26	55	25	22	0.97	240	<4.1	<4.1	240	2.4	2	
FG1-MW9s	11/14/2013	18.4	6.95	4.2	45	116	79	482	330	0.20		0.020J														4	
FG1-MW9s	2/20/2014	19.1	6.63	0.9	10	251	10	619	330	0.025J		0.026J														3	
FG1-MW9s	5/21/2014	19.0	5.82	1.0	12	181	60	526	340	0.061J		<0.10														3	
FG1-MW9s	8/22/2014	23.4	7.56	1.4	16	142	5.0	1,233	900	24	<0.050	<0.10	0.55	56	1.2	57	120	71	57	0.78	390	<8.2	<8.2	390	1.6	4	
FG1-MW9s	11/10/2014	18.5	6.78	4.4	50	112	459	1,208	780	18		0.035J														4	
FG1-MW9s	2/11/2015	19.1	6.79	0.9	10	84	21	1,465	890	26	0.015J	<0.10	0.65	69	1.8	75	150	83	86	0.74	450	<8.2	<8.2	450	5.3	4	
FG1-MW9d	5/14/2015	18.8	6.97	1.2	13	139	3.0	1,243	860	23		0.036J														20	
FG1-MW9d	8/19/2015	17.9	7.45	0.8	12	112	22	1,169	720	22		<0.10														19	
FG1-MW9d	11/18/2015	17.6	7.13	0.6	7	120	7.0	1,240	720	19		0.026J														22	
FG1-MW9d	2/23/2016	18.0	7.01	0.5	6	124	3.0	1,126	720	12	0.021J	0.060J	0.61	73	5.1	54	94	67	64	0.14J	400	<8.2	<8.2	400	1.5	22	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
FG1-MW9d	5/19/2016	19.3	7.00	1.6	17	161	5.0	1,223	750	14		0.064J														21	
FG1-MW9d	8/19/2016	20.5	6.88	0.7	8	177	2.0	1,195	820	13		<0.10														19	
FG1-MW9d	12/1/2016	17.4	7.06	0.6	7	126	6.0	833	530	<0.10		<0.10														22	
FG1-MW9s	3/15/2017	16.5	7.05	2.1	22	50	11	4,737	3,100	90	0.13	0.051J	1.3	480	1.8	210	310	820	640	0.69	610	<8.2	<8.2	610	-1.3	18	
FG1-MW9d	5/19/2017	18.9	6.96	0.8	9	124	2.3	826	520	13		0.070J														31	
FG1-MW9d	8/28/2017	18.4	7.02	0.6	7	106	2.0	311	210	0.55		0.031J														23	
FG1-MW9d	11/22/2017	17.6	6.69	1.2	13	153	1.7	765	510	12		<0.1														23	
FG1-MW9d	2/23/2018	17.3	6.56	1.9	20	299	5.1	633	430	9.3	0.15	<0.10	0.24	50	2.6	26	50	49	44	0.10J	190	<4.1	<4.1	190	0.7	22	
FG1-MW9d	5/11/2018	17.8	6.95	2.9	31	231	6.0	963	670	13		0.043J														24	
FG1-MW9d	8/23/2018	18.5	7.00	0.4	4	147	4.0	414	290	<0.10		0.086J														21	
FG1-MW9d	11/14/2018	18.1	6.97	0.7	8	242	4.0	371	210	<0.10		<0.10														22	
FG1-MW9d	2/25/2019	17.7	6.94	1.2	12	243	3.0	535	330	0.093J	<0.050	0.099J	0.36	40	2.7	20	37	51	41	<0.15	150	<4.1	<4.1	150	0.1	30	
FG1-MW9d	5/24/2019	18.1	7.40	1.5	27	119	3.0	640	290	1.2		0.17J														31	
FG1-MW9d	8/20/2019	19.1	7.11	0.7	11	199	2.0	394	250	0.17		<0.2														22	
FG1-MW9d	11/13/2019	18.3	6.93	1.7	19	197	4.0	462	260	0.80		0.12J														23	
BEA-MW1s	2/13/2012	19.8	6.74	2.0		193	>1,000	3,688	2,000	30		42														4	
BEA-MW1s	5/14/2012	22.3	6.65	2.0		199	>1,000	4,406	3,300	140	2.0*	7.4	12*	340	110	150	410	260	250	67*	1,400*	<8.2*	<8.2*	1,400	-1.8	1	H
BEA-MW1d	8/16/2012	25.4	6.87	2.0		210	>1,000	3,109	1,700	0.21J	0.083	85	83	250	120	87	220	150	49	7.0	1,500	<8.2	<8.2	1,500	3.6	1	
BEA-MW1d	12/9/2012	18.0	6.88	2.0		58	>1,000	2,427	1,500	0.11J		25														5	
BEA-MW1d	3/22/2013	19.3	7.00	2.5	28	225	8.0	2,632	1,500	4.3		23														10	
BEA-MW1d	6/2/2013	22.2	7.05	1.1	13	152	26	2,724	1,900	0.22		21														4	
BEA-MW1d	8/28/2013	*Well Dry*																									
BEA-MW1d	11/18/2013	*Well Dry*																									
BEA-MW1d	2/25/2014	*Well Dry*																									
BEA-MW1d	5/27/2014	*Well Dry*																									
BEA-MW1d	8/26/2014	*Well Dry*																									
BEA-MW1dd	11/12/2014	18.5	7.00	1.5	17	162	93	2,492	1,300	0.18J		34														10	
BEA-MW1dd	2/11/2015	20.0	6.75	1.4	14	88	18	1,883	1,100	0.52	0.014J	24	22	170	51	64	160	LE	27	2.2	900	<8.2	<8.2	900	11.8	14	
BEA-MW1dd	5/13/2015	20.8	6.67	0.5	8	122	7.0	1,401	900	1.7		24														14	
BEA-MW1dd	8/14/2015	21.2	7.26	0.6	10	149	4.0	2,163	1,100	0.10		31														11	
BEA-MW1dd	11/18/2015	19.0	6.34	1.6	18	164	23	1,935	1,000	0.071J		21														8	
BEA-MW1dd	2/23/2016	19.3	6.97	1.3	15	128	6.0	1,958	1,000	0.63	0.015J	24	22	160	43	59	150	87	21	2.0	950	<8.2	<8.2	950	0.3	9	
BEA-MW1dd	5/18/2016	20.3	6.66	0.5	9	83	7.0	1,980	990	0.17		22														12	
BEA-MW1dd	8/17/2016	20.8	6.51	1.4	17	176	7.0	1,698	1,000	<0.10		35														12	
BEA-MW1dd	11/29/2016	19.3	6.47	4.9	54	133	5.0	1,217	700	0.48		28														10	
BEA-MW1dd	3/16/2017	19.3	7.06	0.8	9	142	5.0	1,344	740	1.2	<0.050	32	26	110	48	39	110	67	21	3.0	620	<8.2	<8.2	620	6.6	17	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
BEA-MW1dd	5/19/2017	20.6	6.88	0.4	4	181	4.0	1,365	860	0.080J		33														22	
BEA-MW1dd	8/24/2017	20.7	6.86	1.0	11	89	5.0	1,406	860	0.26		23														20	
BEA-MW1dd	11/20/2017	19.1	6.99	2.1	23	137	9.5	1,248	620	<0.1		16														19	
BEA-MW1dd	2/23/2018	18.1	7.28	0.9	10	235	7.2	1,288	800	0.19	<0.050	25	25	89	45	37	100	57	24	3.4	610	<8.2	<8.2	610	1.4	18	
BEA-MW1dd	5/14/2018	19.6	6.95	1.0	12	169	7.0	1,126	690	0.088J		18														20	
BEA-MW1dd	8/20/2018	19.2	6.74	1.1	11	238	5.0	1,536	940	<0.10		14														16	
BEA-MW1dd	11/14/2018	18.0	7.16	3.1	40	96	9.0	1,380	940	<0.10		12														16	
BEA-MW1dd	2/25/2019	18.8	6.89	1.1	12	232	2.0	1,160	760	<0.10	<0.050	11	11	74	32	38	98	46	11	1.0	550	<8.2	<8.2	550	1.1	19	
BEA-MW1dd	5/23/2019	20.8	6.83	1.5	10	208	6.0	1,378	840	<0.1		17														21	
BEA-MW1dd	8/23/2019	21.1	7.01	1.2	17	144	8.0	1,077	600	<0.1		18														19	
BEA-MW1dd	11/13/2019	19.6	7.28	1.7	28	128	6.0	1,480	640	<0.10		18														18	
BEA-MW2s	2/13/2012	21.6	7.05	2.7		254	612	708	460	12		0.044J														7	
BEA-MW2s	5/14/2012	22.2	6.91	3.6		221	>1,000	625	490	9.0	<0.05*	0.074	2.0*	26	5.5	16	100	17	20	38*	290*	<4.1*	<4.1*	290	-5.9	1	H
BEA-MW2d	8/16/2012	24.4	7.77	1.9		184	189	490	360	0.38	0.026J	0.027J	0.43	50	7.0	14	37	6.6	41	0.12J	200	<4.1	<4.1	200	2.7	7	
BEA-MW2d	12/9/2012	20.4	7.98	0.7		132	165	626	450	<0.10		0.058														10	
BEA-MW2d	3/22/2013	20.4	7.67	1.5	17	251	18	762	600	<0.10		0.045J														12	
BEA-MW2d	6/2/2013	22.7	7.95	1.2	13	139	37	462	380	<0.10		0.057														7	
BEA-MW2d	8/28/2013	21.5	7.80	4.5	47	205	34	523	380	<0.10	<0.050	0.035J	0.17J	43	6.9	16	45	3.3	74	2.1	190	<4.1	<4.1	190	1	2	
BEA-MW2d	11/18/2013	20.1	7.28	4.1	44	248	9.0	471	320	<0.10		<0.050														1	
BEA-MW2d	2/25/2014	19.9	7.54	2.5	29	-34	9.0	407	280	<0.10		0.036J														2	
BEA-MW2d	5/27/2014	*Well Dry*																									
BEA-MW2d	8/26/2014	*Well Dry*																									
BEA-MW2dd	11/12/2014	20.6	8.04	5.6	63	137	13	501	490	6.4		0.11														11	
BEA-MW2dd	2/11/2015	21.4	7.77	1.2	15	82	1.0	867	600	19	0.017J	<0.10	0.26	48	9.1	32	100	40	87	0.19	240	<4.1	<4.1	240	4.4	14	
BEA-MW2dd	5/13/2015	21.3	7.95	0.8	13	133	6.0	1,027	700	30		<0.10														12	
BEA-MW2dd	8/14/2015	22.3	8.26	1.3	20	109	3.0	619	LE	16		<0.10														8	
BEA-MW2dd	11/18/2015	20.0	7.82	1.3	15	134	10	433	300	3.5		<0.10														7	
BEA-MW2dd	2/23/2016	20.0	7.85	1.4	16	101	3.0	837	620	22	<0.050	0.045J	0.23	57	7.6	22	82	47	100	0.16	170	<4.1	<4.1	170	1.2	6	
BEA-MW2dd	5/18/2016	21.6	7.50	0.7	12	106	8.0	1,101	750	30		0.026J														9	
BEA-MW2dd	8/17/2016	21.2	7.15	1.4	16	153	4.0	988	730	24		0.067J														7	
BEA-MW2dd	11/29/2016	19.6	7.11	3.0	33	137	2.0	1,092	760	22		0.031J														9	
BEA-MW2dd	3/16/2017	20.5	7.68	2.1	24	163	1.4	1,205	800	32	<0.050	0.023J	0.46	69	9.4	33	150	64	130	0.12J	320	<8.2	<8.2	320	0.9	14	
BEA-MW2dd	5/19/2017	16.3	7.84	0.6	6	145	2.3	1,144	810	32		0.10														15	
BEA-MW2dd	8/24/2017	20.9	7.62	2.7	31	68	4.0	1,105	800	26		0.063J														12	
BEA-MW2dd	11/20/2017	19.9	7.85	4.6	51	156	6.2	550	430	8.7		0.046J														16	
BEA-MW2dd	2/23/2018	18.9	8.01	4.4	48	244	5.6	489	360	6.6	<0.050	0.037J	0.20	49	6.8	11	44	17	43	0.21	170	<4.1	<4.1	170	1.5	16	
BEA-MW2dd	5/14/2018	20.3	7.93	2.3	26	189	6.0	314	240	6.0		<0.10														16	
BEA-MW2dd	8/20/2018	20.2	7.69	2.6	26	199	5.0	522	390	6.2		<0.10														13	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																		----Alkalinity as CaCO3----						
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
BEA-MW2dd	11/14/2018	19.5	7.74	5.4	63	81	7.0	527	410	7.8		0.13														14	
BEA-MW2dd	2/25/2019	19.1	7.70	2.7	30	205	2.0	719	520	5.7	<0.050	0.096J	0.16J	45	8.2	18	75	36	120	0.20	170	<4.1	<4.1	170	0.5	16	
BEA-MW2dd	5/23/2019	20.0	7.65	3.3	41	186	3.0	792	600	12		0.073J														16	
BEA-MW2dd	8/23/2019	21.7	7.79	2.2	25	108	6.0	762	550	9.1		<0.2														13	
BEA-MW2dd	11/13/2019	18.5	8.46	2.1	34	172	2.0	709	400	10		<0.20														15	
BEA-MW3s	2/13/2012	19.6	6.90	2.6		253	13	4,675	3,400	170		0.032J														8	
BEA-MW3s	5/14/2012	21.3	6.73	1.5		193	>1,000	5,510	3,900	270	<0.05*	0.053	1.9*	560	37	160	360	710	320	5.7*	670*	<8.2*	<8.2*	670	-2.7	3	H
BEA-MW3d	8/16/2012	21.8	7.03	1.8		216	86	4,426	3,100	180	0.53	0.048J	1.4	650	12	81	260	630	210	0.52	710	<8.2	<8.2	710	-1	5	
BEA-MW3d	12/9/2012	18.6	7.09	0.7		140	71	4,479	2,900	140		0.030J														7	
BEA-MW3d	3/22/2013	19.4	7.30	1.7	19	217	12	3,752	2,500	140		0.043J														13	
BEA-MW3d	6/2/2013	21.6	7.34	1.7	20	150	44	4,151	3,000	160		0.048J														8	
BEA-MW3d	8/28/2013	*Well Dry*																									
BEA-MW3d	11/18/2013	*Well Dry*																									
BEA-MW3d	2/25/2014	19.3	6.98	2.2	25	209	11	3,583	2,500	130		0.021J														2	
BEA-MW3d	5/27/2014	*Well Dry*																									
BEA-MW3d	8/26/2014	*Well Dry*																									
BEA-MW3d	11/12/2014	*Well Dry*																									
BEA-MW3d	2/11/2015	*Well Dry*																									
BEA-MW3d	5/13/2015	*Well Dry*																									
BEA-MW3d	8/14/2015	*Well Dry*																									
BEA-MW3d	11/18/2015	*Well Dry*																									
BEA-MW3d	2/23/2016	*Well Dry*																									
BEA-MW3d	5/18/2016	*Well Dry*																									
BEA-MW3d	8/17/2016	*Well Dry*																									
BEA-MW3d	11/29/2016	*Well Dry*																									
BEA-MW3d	3/16/2017	20.9	7.31	5.5	62	158	6.1	3,453	2,400	120	<0.050	0.040J	0.28	550	10	67	220	480	160	0.61	640	<8.2	<8.2	640	3.1	2	
BEA-MW3d	5/19/2017	20.5	7.32	0.4	5	192	4.0	3,240	2,300	48		0.085J														5	
BEA-MW3d	8/24/2017	22.0	7.21	5.2	59	86	6.0	3,602	2,400	120		0.058J														3	
BEA-MW3d	11/20/2017	19.5	7.28	5.1	56	167	9.4	3,582	2,200	120		0.031J														3	
BEA-MW3d	2/23/2018	18.5	7.16	4.3	47	238	9.2	3,576	2,500	130	<0.050	<0.10	1.3	520	9.6	57	200	500	170	0.51	640	<8.2	<8.2	640	-2.8	2	
BEA-MW3d	5/14/2018	20.3	7.13	4.3	49	190	7.0	3,776	2,700	130		0.033J														4	
BEA-MW3d	8/20/2018	20.4	7.13	1.5	15	219	85	3,789	2,700	130		0.031J														0	P
BEA-MW3d	11/14/2018	*Well Dry*																									
BEA-MW3d	2/25/2019	19.5	7.11	4.0	43	229	5.0	3,764	2,400	120	<0.050	0.12J	1.1	500	10	61	210	480	160	0.45	640	<8.2	<8.2	640	-1	3	
BEA-MW3d	5/23/2019	20.7	7.07	3.5	41	196	10	3,925	2,700	150		0.092J														5	
BEA-MW3d	8/23/2019	21.5	7.26	3.2	39	135	8.0	3,890	2,600	150		0.075J														4	
BEA-MW3d	11/13/2019	19.6	7.72	3.7	49	163	6.0	3,806	2,400	140		0.087J														2	

Table 4-6
Groundwater Quality

Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
		-------Field Measurements-------												----Alkalinity as CaCO3----													
BEA-MW4s	2/13/2012	19.9	7.51	2.5		233	35	2,059	1,300	6.3		0.028J														17	
BEA-MW4s	5/14/2012	22.9	7.37	1.4		163	>1,000	2,080	1,400	7.5	<0.05*	0.047J	1.4*	390	12	21	49	200	110	9.9*	680*	<8.2*	<8.2*	680	-2.1	9	H
BEA-MW4d	8/16/2012	22.5	7.20	0.7		207	37	1,943	1,300	19	0.47	0.029J	0.60	260	11	39	120	220	130	0.23	570	<8.2	<8.2	570	-2.2	27	
BEA-MW4d	12/9/2012	19.0	7.58	2.6		126	40	1,875	1,200	12		0.026J														24	
BEA-MW4s	3/22/2013	19.6	7.92	3.4	39	206	23	2,007	1,300	13		0.025J														10	
BEA-MW4s	6/2/2013	21.5	7.68	2.4	25	146	23	2,050	1,400	11		<0.050														5	
BEA-MW4d	8/28/2013	20.5	7.16	2.1	25	227	2.0	1,421	910	15	0.30	0.036J	0.51	180	6.2	26	89	140	99	0.32	370	<8.2	<8.2	370	0.2	13	
BEA-MW4d	11/18/2013	18.0	7.39	3.0	33	246	6.0	903	520	14		0.019J														15	
BEA-MW4d	2/25/2014	20.1	7.76	1.0	11	173	11	994	690	12		<0.050														14	
BEA-MW4d	5/27/2014	20.9	7.67	0.9	10	85	5.0	1,221	800	12		<0.10														16	
BEA-MW4d	8/26/2014	20.4	8.08	1.2	11	150	3.0	1,428	830	8.7	0.32	<0.10	0.49	180	6.4	27	90	130	93	0.16	400	<8.2	<8.2	400	1.6	11	
BEA-MW4d	11/12/2014	19.8	7.66	1.5	16	134	2.0	1,626	880	18		0.086J														10	
BEA-MW4d	2/11/2015	20.0	7.42	1.7	17	68	3.0	858	610	7.3	0.11	0.070J	0.29	120	4.8	17	59	52	67	0.28	270	<4.1	<4.1	270	4.8	12	
BEA-MW4d	5/13/2015	21.0	7.36	0.7	11	122	5.0	1,178	800	9.5		<0.10														9	
BEA-MW4d	8/14/2015	20.8	7.92	1.4	22	115	8.0	1,669	LE	11		0.034J														6	
BEA-MW4d	11/18/2015	19.8	7.25	1.6	18	142	5.0	1,270	780	13		0.062J														8	
BEA-MW4d	2/23/2016	20.0	7.54	1.5	18	109	4.0	1,352	860	17	0.081	0.028J	0.69	150	5.8	26	93	130	120	0.27	350	<8.2	<8.2	350	-3.4	8	
BEA-MW4d	5/18/2016	21.2	7.28	1.0	16	77	3.0	1,065	720	9.0		0.056J														8	
BEA-MW4d	8/17/2016	20.8	7.07	1.6	18	153	2.0	1,491	950	9.6		<0.10														6	
BEA-MW4d	11/29/2016	19.9	6.90	3.7	41	129	2.0	1,279	810	8.3		<0.10														9	
BEA-MW4d	3/16/2017	20.2	7.85	0.9	11	126	1.2	565	420	3.3	0.026J	0.024J	0.14J	87	3.3	8.8	32	28	34	0.22	220	<4.1	<4.1	220	0.4	13	
BEA-MW4d	5/19/2017	19.3	7.82	0.4	5	160	3.5	1,173	800	7.3		0.096J														14	
BEA-MW4d	8/24/2017	21.9	7.42	2.1	25	68	4.0	1,507	960	7.0		0.026J														12	
BEA-MW4d	11/20/2017	19.7	7.51	1.6	18	154	30.0	1,241	740	10		0.021J														17	
BEA-MW4d	2/23/2018	19.0	7.64	1.3	15	241	18.7	1,350	920	8.6	0.062	0.050J	0.64	200	6.5	25	84	120	100	1.6	460	<8.2	<8.2	460	-0.7	16	
BEA-MW4d	5/14/2018	20.4	7.38	0.9	12	179	7.0	1,406	960	8.2		0.046J														14	
BEA-MW4d	8/20/2018	20.2	7.29	1.0	11	199	6.0	1,382	940	9.4		0.020J														10	
BEA-MW4d	11/14/2018	19.6	7.48	3.8	48	84	7.0	1,156	880	8.5		0.14														14	
BEA-MW4d	2/25/2019	19.6	7.62	1.2	13	209	18	921	610	6.4	0.059	0.086J	0.38	140	5.0	16	53	59	55	2.3	320	<4.1	<4.1	320	2.2	16	
BEA-MW4d	5/23/2019	20.7	7.45	1.0	14	167	16	1,039	700	10		0.082J														17	
BEA-MW4d	8/23/2019	21.7	7.37	1.0	10	123	7.0	1,317	860	12		<0.2														13	
BEA-MW4d	11/13/2019	20.0	7.90	1.6	28	140	6.0	1,315	730	17		<0.20														15	
COT-MW1	2/16/2012	*Well Dry*																									
COT-MW1	5/15/2012	*Well Dry*																									
COT-MW1	8/16/2012	*Well Dry*																									
COT-MW1	12/9/2012	*Well Dry*																									

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
COT-MW1	3/24/2013	*Well Dry*																									
COT-MW1	6/2/2013	*Well Dry*																									
COT-MW1	8/28/2013	*Well Dry*																									
COT-MW1	11/15/2013	*Well Dry*																									
COT-MW1	2/20/2014	*Well Dry*																									
COT-MW1	5/27/2014	*Well Dry*																									
COT-MW1	8/26/2014	*Well Dry*																									
COT-MW1d	11/13/2014	17.4	7.85	5.4	57	126	151	1,095	880	36		0.034J														13	
COT-MW1d	2/11/2015	17.4	7.32	4.8	50	131	220	1,304	880	36	<0.050	<0.10	0.44	89	20	47	120	65	78	5.5	350	<8.2	<8.2	350	3.8	13	
COT-MW1d	5/14/2015	18.1	6.83	3.3	53	248	134	1,439	960	38		0.042J														9	
COT-MW1d	8/14/2015	19.6	7.14	5.8	64	104	48	1,353	980	32		0.027J														3	
COT-MW1d	11/20/2015	17.6	7.33	4.3	59	238	256	1,609	1,100	40		0.031J														7	
COT-MW1d	2/24/2016	17.8	7.35	6.5	70	140	229	1,635	1,200	39	<0.050	0.036J	0.93	110	21	59	160	79	130	6.5	460	<8.2	<8.2	460	3	8	
COT-MW1d	5/18/2016	20.9	7.16	3.9	56	107	183	1,507	1,100	34		0.045J														6	
COT-MW1d	8/17/2016	19.5	6.69	3.9	42	161	162	1,554	1,100	31		0.029J														2	
COT-MW1d	11/29/2016	17.8	6.68	3.8	42	158	84	1,648	1,100	34		0.048J														4	
COT-MW1d	3/16/2017	18.6	7.34	3.4	38	181	67.1	1,606	1,200	37	<0.050	0.034J	0.54	110	18	61	160	88	130	5.1	510	<8.2	<8.2	510	0.2	3	
COT-MW1d	5/18/2017	19.7	7.31	0.3	4	206	359	1,610	1,200	41		0.054J														4	
COT-MW1d	8/29/2017	*Well Dry*																									
COT-MW1d	11/17/2017	18.5	7.15	4.8	51	149	37.3	1,685	1,300	41		<0.1														3	
COT-MW1d	2/23/2018	16.8	7.23	5.4	58	267	25.1	1,744	1,300	43	<0.050	0.030J	0.59	120	18	68	180	110	160	5.4	530	<8.2	<8.2	530	0	2	D
COT-MW1d	5/14/2018	18.8	7.15	4.5	49	180	18	1,819	1,300	42		0.022J														11	
COT-MW1d	8/21/2018	*Well Dry*																									
COT-MW1d	11/14/2018	*Well Dry*																									
COT-MW1d	3/1/2019	18.0	7.20	5.7	61	243	30	1,950	1,200	41	<0.050	0.060J	0.68	130	18	71	190	110	140	2.9	580	<8.2	<8.2	580	1.9	4	
COT-MW1d	5/24/2019	20.3	7.17	3.8	45	229	160	1,971	1,400	47		<0.2														3	D
COT-MW1d	8/23/2019	*Well Dry*																									
COT-MW1d	11/13/2019	*Well Dry*																									
COT-MW2	2/16/2012	17.8	7.26	2.0		271	250	2,596	1,800	75		0.025J														12	
COT-MW2	5/15/2012	25.1	7.22	2.0		170	70	2,483	1,800	82	<0.05*	0.046J	1.0*	320	7.1	58	160	100	230	1.1*	650*	<8.2*	<8.2*	650	0.7	10	H
COT-MW2	8/16/2012	*Well Dry*																									
COT-MW2	12/9/2012	17.4	7.79	6.2		143	105	2,416	1,700	76		<0.050															P
COT-MW2	3/24/2013	18.5	6.97	6.6	73	242	9.9	2,326	1,800	87		0.027J														7	P
COT-MW2	6/2/2013	23.8	7.59	5.9	61	140	12	2,430	1,800	86		0.032J														5	
COT-MW2	8/23/2013	*Well Dry*																									
COT-MW2	11/15/2013	*Well Dry*																									
COT-MW2	2/20/2014	*Well Dry*																									
COT-MW2	5/27/2014	*Well Dry*																									

Table 4-6
Groundwater Quality

		-------Field Measurements-------																		----Alkalinity as CaCO3----						
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
COT-MW2	8/26/2014	*Well Dry*																									
COT-MW2	11/12/2014	*Well Dry*																									
COT-MW2	2/11/2015	*Well Dry*																									
COT-MW2	5/14/2015	*Well Dry*																									
COT-MW2	8/14/2015	*Well Dry*																									
COT-MW2	11/20/2015	*Well Dry*																									
COT-MW2	2/24/2016	*Well Dry*																									
COT-MW2	5/18/2016	*Well Dry*																									
COT-MW2	8/17/2016	*Well Dry*																									
COT-MW2	11/29/2016	*Well Dry*																									
COT-MW2	3/16/2017	*Well Dry*																									
COT-MW2	5/19/2017	*Well Dry*																									
COT-MW2	8/29/2017	*Well Dry*																									
COT-MW2	11/17/2017	*Well Dry*																									
COT-MW2	2/23/2018	*Well Dry*																									
COT-MW2	5/14/2018	*Well Dry*																									
COT-MW2	8/21/2018	*Well Dry*																									
COT-MW2	11/14/2018	*Well Dry*																									
COT-MW2	3/1/2019	*Well Dry*																									
COT-MW2	5/24/2019	*Well Dry*																									
COT-MW2	8/23/2019	*Well Dry*																									
COT-MW2	11/13/2019	*Well Dry*																									
COT-MW3	2/16/2012	17.8	7.30	2.6		261	>1,000	2,693	1,800	71		0.030J														13	
COT-MW3	5/15/2012	20.9	7.16	1.6		180	>1,000	2,570	1,800	80	<0.05*	0.039J	0.92*	480	4.2	21	72	110	180	14*	740*	<8.2*	<8.2*	740	-2.8	11	H
COT-MW3	8/17/2012	23.2	7.83	3.0		156	>1,000	2,270	1,800	83	<0.05	<0.05	0.37	490	4.1	21	72	110	160	0.18	720	<8.2	<8.2	720	0	12	
COT-MW3	12/9/2012	21.8	7.62	3.3		102	617	2,540	1,700	62		<0.050														10	
COT-MW3	3/24/2013	21.3	7.16	1.7	19	213		2,530	1,700	64		0.026J														11	P
COT-MW3	6/2/2013	27.3	7.61	3.2	38	124	7.0	2,497	1,700	62		0.019J														9	
COT-MW3	8/28/2013	21.4	7.05	2.6	32	168	164	2,416	1,700	56	0.0080J	0.026J	0.57	530	4.2	15	51	100	120	2.6	870	<8.2	<8.2	870	0.3	6	
COT-MW3	11/15/2013	*Well Dry*																									
COT-MW3	2/20/2014	*Well Dry*																									
COT-MW3	5/27/2014	*Well Dry*																									
COT-MW3	8/26/2014	*Well Dry*																									
COT-MW3	11/12/2014	*Well Not Accessible*																									
COT-MW3	2/11/2015	*Well Not Accessible*																									
COT-MW3	5/14/2015	*Well Not Accessible*																									
COT-MW3	8/14/2015	*Well Dry*																									
COT-MW3	11/20/2015	*Well Dry*																									

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
COT-MW3	2/24/2016	*Well Dry*																									
COT-MW3	5/18/2016	*Well Dry*																									
COT-MW3	8/17/2016	*Well Dry*																									
COT-MW3	11/29/2016	*Well Dry*																									
COT-MW3	3/16/2017	*Well Dry*																									
COT-MW3	5/19/2017	*Well Dry*																									
COT-MW3	8/29/2017	*Well Dry*																									
COT-MW3	11/17/2017	*Well Dry*																									
COT-MW3	2/23/2018	*Well Dry*																									
COT-MW3	5/14/2018	*Well Dry*																									
COT-MW3	8/21/2018	*Well Dry*																									
COT-MW3	11/14/2018	*Well Dry*																									
COT-MW3	3/1/2019	*Well Dry*																									
COT-MW3	5/24/2019	*Well Dry*																									
COT-MW3	8/23/2019	*Well Dry*																									
COT-MW3	11/13/2019	*Well Dry*																									
COT-MW4	2/16/2012	18.9	7.09	2.7		268	280	1,791	1,200	26		0.030J														9	
COT-MW4	5/15/2012	20.7	7.02	2.1		198	29	1,694	1,100	20	<0.05*	0.036J	0.26*	280	6.7	23	72	100	95	0.21*	590*	<8.2*	<8.2*	590	-0.5	8	H
COT-MW4	8/17/2012	24.4	7.41	3.2		91	400	1,607	1,200	8.6	<0.05	<0.05	0.33	310	6.4	23	73	100	84	0.096J	700	<8.2	<8.2	700	0	8	
COT-MW4	12/9/2012	20.9	7.47	4.3		151	70	1,912	1,200	25		<0.050														8	
COT-MW4	3/24/2013	21.9	7.24	2.5	26	221	8.7	2,219	1,300	49		0.022J														7	PD
COT-MW4	6/2/2013	*Well Dry*																									
COT-MW4	8/28/2013	*Well Dry*																									
COT-MW4	11/15/2013	*Well Dry*																									
COT-MW4	2/20/2014	*Well Dry*																									
COT-MW4	5/27/2014	*Well Dry*																									
COT-MW4	8/26/2014	*Well Dry*																									
COT-MW4	11/12/2014	*Well Dry*																									
COT-MW4	2/11/2015	*Well Dry*																									
COT-MW4	5/14/2015	*Well Dry*																									
COT-MW4	8/14/2015	*Well Dry*																									
COT-MW4	11/20/2015	*Well Dry*																									
COT-MW4	2/24/2016	*Well Dry*																									
COT-MW4	5/18/2016	*Well Dry*																									
COT-MW4	8/17/2016	*Well Dry*																									
COT-MW4	11/29/2016	*Well Dry*																									
COT-MW4	3/16/2017	*Well Dry*																									
COT-MW4	5/19/2017	*Well Dry*																									

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
COT-MW4	8/29/2017	*Well Dry*																									
COT-MW4	11/17/2017	*Well Dry*																									
COT-MW4	2/23/2018	*Well Dry*																									
COT-MW4	5/14/2018	*Well Dry*																									
COT-MW4	8/21/2018	*Well Dry*																									
COT-MW4	11/14/2018	*Well Dry*																									
COT-MW4	3/1/2019	*Well Dry*																									
COT-MW4	5/24/2019	*Well Dry*																									
COT-MW4	8/23/2019	*Well Dry*																									
COT-MW4	11/13/2019	*Well Dry*																									
COT-MW5	2/16/2012	18.3	7.09	2.5		263	418	2,666	1,900	97		0.031J														6	
COT-MW5	5/15/2012	20.5	6.99	1.5		210	40	2,451	1,700	95	<0.05*	0.036J	0.52*	210	8.1	79	210	150	190	0.62*	610*	<8.2*	<8.2*	610	-1.6	4	H
COT-MW5	8/16/2012	20.9	7.17	1.5		100	37	2,362	1,800	100	<0.05	<0.05	0.54	220	7.8	82	220	140	210	0.40	620	<8.2	<8.2	620	-0.7	8	
COT-MW5	12/9/2012	21.0	7.40	3.3		114	60	2,694	1,900	94		<0.050														7	
COT-MW5	3/24/2013	20.3	6.93	4.5	50	222	14.7	2,674	1,900	100		0.031J														5	P
COT-MW5	6/2/2013	25.8	7.35	4.4	49	140	54	2,620	1,800	94		0.018J														4	
COT-MW5	8/28/2013	*Well Dry*																									
COT-MW5	11/15/2013	*Well Dry*																									
COT-MW5	2/20/2014	*Well Dry*																									
COT-MW5	5/27/2014	*Well Dry*																									
COT-MW5	8/26/2014	*Well Dry*																									
COT-MW5	11/12/2014	*Well Dry*																									
COT-MW5	2/11/2015	*Well Dry*																									
COT-MW5	5/14/2015	*Well Dry*																									
COT-MW5	8/14/2015	*Well Dry*																									
COT-MW5	11/20/2015	*Well Dry*																									
COT-MW5	2/24/2016	*Well Dry*																									
COT-MW5	5/18/2016	*Well Dry*																									
COT-MW5	8/17/2016	*Well Dry*																									
COT-MW5	11/29/2016	*Well Dry*																									
COT-MW5	3/16/2017	*Well Dry*																									
COT-MW5	5/19/2017	*Well Dry*																									
COT-MW5	8/29/2017	*Well Dry*																									
COT-MW5	11/17/2017	*Well Dry*																									
COT-MW5	2/23/2018	*Well Dry*																									
COT-MW5	5/14/2018	*Well Dry*																									
COT-MW5	8/21/2018	*Well Dry*																									
COT-MW5	11/14/2018	*Well Dry*																									

Table 4-6
Groundwater Quality

		-------Field Measurements-------							----									----Alkalinity as CaCO3----								
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
COT-MW5	3/1/2019	*Well Dry*																									
COT-MW5	5/24/2019	*Well Dry*																									
COT-MW5	8/23/2019	*Well Dry*																									
COT-MW5	11/13/2019	*Well Dry*																									
COT-MW6	2/16/2012	18.4	6.89	2.0		242	640	3,095	2,100	120		0.037J														7	
COT-MW6	5/15/2012	19.8	6.76	1.4		239	326	3,022	2,000	120	<0.05*	0.040J	0.52*	230	14	100	240	350	190	2.1*	460*	<8.2*	<8.2*	460	-1.7	6	H
COT-MW6	8/17/2012	20.5	6.90	2.2		220	124	3,040	2,000	120	<0.05	<0.05	0.29	240	14	98	260	340	230	0.65	500	<8.2	<8.2	500	-1.7	7	
COT-MW6	12/9/2012	20.8	7.28	3.1		110	61	3,066	2,000	110		<0.050														8	
COT-MW6	3/24/2013	20.4	6.71	2.6	29	231	154	3,141	2,100	110		0.024J														7	
COT-MW6	6/2/2013	22.5	7.08	2.2	28	140	282	3,068	2,000	110		<0.050														5	
COT-MW6	8/28/2013	*Well Dry*																									
COT-MW6	11/15/2013	*Well Dry*																									
COT-MW6	2/20/2014	*Well Dry*																									
COT-MW6	5/27/2014	*Well Dry*																									
COT-MW6	8/26/2014	*Well Dry*																									
COT-MW6	11/12/2014	*Well Dry*																									
COT-MW6	2/11/2015	*Well Dry*																									
COT-MW6	5/14/2015	*Well Dry*																									
COT-MW6	8/14/2015	*Well Dry*																									
COT-MW6	11/20/2015	*Well Dry*																									
COT-MW6	2/24/2016	*Well Dry*																									
COT-MW6	5/18/2016	*Well Dry*																									
COT-MW6	8/17/2016	*Well Dry*																									
COT-MW6	11/29/2016	*Well Dry*																									
COT-MW6	3/16/2017	*Well Dry*																									
COT-MW6	5/19/2017	*Well Dry*																									
COT-MW6	8/29/2017	*Well Dry*																									
COT-MW6	11/17/2017	*Well Dry*																									
COT-MW6	2/23/2018	*Well Dry*																									
COT-MW6	5/14/2018	*Well Dry*																									
COT-MW6	8/21/2018	*Well Dry*																									
COT-MW6	11/14/2018	*Well Dry*																									
COT-MW6	3/1/2019	*Well Dry*																									
COT-MW6	5/24/2019	*Well Dry*																									
COT-MW6	8/23/2019	*Well Dry*																									
COT-MW6	11/13/2019	*Well Dry*																									
COT-MW7	2/16/2012	19.7	6.88	2.6		238	88	2,170	1,500	87		0.091														14	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
COT-MW7	5/15/2012	25.2	7.30	2.1		178	146	2,327	1,100	44	<0.05*	0.11	0.96*	120	49	42	110	120	120	17*	330*	<8.2*	<8.2*	330	-2.3	11	H
COT-MW7	8/16/2012	25.8	7.24	2.1		95	130	1,425	1,100	45	<0.05	<0.05	1.1	120	52	41	110	110	100	16	360	<8.2	<8.2	360	-2.2	6	
COT-MW7	12/9/2012	21.8	7.28	3.2		110	13	1,617	1,100	53		<0.050														16	
COT-MW7	3/24/2013	20.3	6.73	2.1	23	206	17.82	1,838	1,300	77		0.029J														13	
COT-MW7	6/2/2013	20.9	6.80	2.4	26	190	10	1,702	1,100	54		0.019J														13	
COT-MW7	8/28/2013	23.4	7.42	3.4	40	205	13	1,679	1,200	57	0.0070J	0.043J	0.31	140	58	47	120	120	96	14	350	<8.2	<8.2	350	1.6	8	
COT-MW7	11/15/2013	18.3	7.21	3.1	34	219	9.0	1,685	1,200	68		0.026J														10	
COT-MW7	2/20/2014	20.5	7.05	2.0	23	124	8.0	1,710	1,200	66		0.032J														10	
COT-MW7	5/27/2014	*Well Dry*																									
COT-MW7	8/26/2014	*Well Dry*																									
COT-MW7	11/13/2014	20.5	7.61	2.4	27	155	16	1,697	1,400	70		<0.10														9	
COT-MW7	2/11/2015	19.4	7.34	5.4	59	128	24	2,010	1,400	74	<0.050	0.048J	0.43	180	71	57	140	130	120	13	400	<8.2	<8.2	400	3.6	9	
COT-MW7	5/14/2015	*Well Dry*																									
COT-MW7	8/14/2015	*Well Dry*																									
COT-MW7	11/20/2015	*Well Dry*																									
COT-MW7	2/24/2016	20.1	7.48	4.5	51	132	37	1,719	1,200	42	<0.050	0.044J	0.76	150	64	48	130	100	84	11	490	<8.2	<8.2	490	2.4	8	
COT-MW7	5/18/2016	22.8	7.33	1.5	26	88	102	1,614	1,100	25		0.19														9	
COT-MW7	8/17/2016	23.2	6.63	2.0	24	161	121	1,685	1,200	59		0.036J														9	PD
COT-MW7	11/29/2016	18.9	6.89	2.0	23	159	224	1,665	1,200	58		<0.10														9	PD
COT-MW7	3/16/2017	21.8	7.39	1.8	21	155	14.8	1,411	1,000	44	0.010J	0.027J	0.38	120	57	39	99	100	50	14	360	<8.2	<8.2	360	0.6	8	
COT-MW7	5/18/2017	20.6	7.33	2.7	31	195	35	1,784	1,200	23		0.15														10	
COT-MW7	8/29/2017	25.0	7.44	4.2	53	108	10	1,873	1,300	24		0.19														10	
COT-MW7	11/17/2017	*Well Dry*																									
COT-MW7	2/23/2018	18.7	7.57	3.4	38	256	31	1,924	1,400	47	<0.050	0.028J	0.47	140	45	58	160	170	100	5.6	560	<8.2	<8.2	560	-3.9	5	PD
COT-MW7	5/14/2018	*Well Dry*																									
COT-MW7	8/21/2018	21.9	7.17	3.6	36	152	10	1,316	1,200	24		0.038J														4	P
COT-MW7	11/14/2018	*Well Dry*																									
COT-MW7	3/1/2019	21.6	6.96	2.1	23	248	11	2,329	1,500	56	<0.050	<0.20	0.76	160	58	66	200	200	79	9.6	590	<8.2	<8.2	590	1	5	P
COT-MW7	5/24/2019	*Well Dry*																									
COT-MW7	8/23/2019	*Well Dry*																									
COT-MW7	11/13/2019	*Well Dry*																									
COT-MW8	2/16/2012	21.1	7.04	1.8		247	361	1,874	1,400	96		0.033J														8	
COT-MW8	5/15/2012	19.0	7.00	1.5		169	59	1,936	1,300	100	<0.05*	0.042J	0.64*	100	3.0	83	160	120	98	5.5*	320*	<8.2*	<8.2*	320	0.3	7	H
COT-MW8	8/17/2012	24.3	7.70	1.4		104	18	1,257	950	64	<0.05	<0.05	0.88	90	3.2	59	110	80	72	5.8	300	<8.2	<8.2	300	-0.6	14	
COT-MW8	12/9/2012	23.9	7.54	3.0		100	17	1,168	800	42		0.026J														10	
COT-MW8	3/24/2013	20.4	6.97	2.6	29	210	13.57	1,044	750	38		0.030J														10	
COT-MW8	6/2/2013	22.1	7.24	2.7	31	153	8.0	1,395	930	42		<0.050														11	
COT-MW8	8/28/2013	24.2	7.52	2.8	31	197	1.0	1,296	860	36	0.0057J	0.036J	0.49	83	3.5	56	100	100	43	9.0	310	<8.2	<8.2	310	2	9	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
COT-MW8	11/15/2013	18.6	QM	3.6	40	171	NM	1,559	820	35		0.029J														7	P
COT-MW8	2/20/2014	22.0	7.29	2.0	23	117	10	1,203	860	37		0.020J														6	
COT-MW8	5/27/2014	22.1	7.69	3.3	38	117	14	1,187	710	33		0.048J														6	P
COT-MW8	8/26/2014	*Well Dry*																									
COT-MW8	11/12/2014	21.8	7.46	2.7	30	156	73	1,254	800	33		<0.10														4	P
COT-MW8	2/11/2015	22.2	7.55	5.4	55	113	67	1,279	920	43	<0.050	0.036J	0.30	99	4.9	56	110	86	54	6.9	320	<8.2	<8.2	320	4.7	5	
COT-MW8	5/14/2015	19.7	7.52	2.1	35	141	3.0	1,237	800	34		0.031J														7	
COT-MW8	8/14/2015	*Well Dry*																									
COT-MW8	11/20/2015	*Well Dry*																									
COT-MW8	2/24/2016	*Well Dry*																									
COT-MW8	5/18/2016	*Well Dry*																									
COT-MW8	8/17/2016	*Well Dry*																									
COT-MW8	11/29/2016	*Well Dry*																									
COT-MW8	3/16/2017	*Well Dry*																									
COT-MW8	5/19/2017	*Well Dry*																									
COT-MW8	8/29/2017	*Well Dry*																									
COT-MW8	11/17/2017	*Well Dry*																									
COT-MW8	2/23/2018	*Well Dry*																									
COT-MW8	5/14/2018	*Well Dry*																									
COT-MW8	8/21/2018	*Well Dry*																									
COT-MW8	11/14/2018	*Well Dry*																									
COT-MW8	3/1/2019	*Well Dry*																									
COT-MW8	5/24/2019	*Well Dry*																									
COT-MW8	8/23/2019	*Well Dry*																									
COT-MW8	11/13/2019	*Well Dry*																									
COT-MW9	2/16/2012	20.2	6.89	2.2		233	10	1,802	1,200	43		0.037J														17	
COT-MW9	5/15/2012	19.5	6.82	2.1		186	8.0	1,657	1,200	38	<0.05*	0.036J	0.42*	140	3.4	44	160	95	130	0.96*	470*	<8.2*	<8.2*	470	0.7	14	H
COT-MW9	8/16/2012	19.9	7.66	2.0		93	23	1,522	1,200	46	<0.05	<0.05	0.52	150	2.9	41	150	110	130	1.2	440	<8.2	<8.2	440	-1.3	13	
COT-MW9	12/9/2012	21.1	7.24	2.5		114	12	1,581	1,000	23		<0.050														12	
COT-MW9	3/24/2013	20.0	6.75	1.8	21	198	1.7	1,561	1,000	28		0.029J														13	
COT-MW9	6/2/2013	21.9	7.09	1.8	20	143	3.0	1,624	1,100	34		0.018J														16	
COT-MW9	8/28/2013	22.2	6.52	1.9	22	167	5.0	1,593	1,000	29	<0.050	0.025J	0.44	150	4.1	47	180	91	120	0.71	520	<8.2	<8.2	520	5.2	10	
COT-MW9	11/15/2013	18.9	7.19	0.9	10	214	7.0	1,757	1,100	27		0.018J														10	
COT-MW9	2/20/2014	18.6	7.23	0.9	10	117	6.0	1,769	1,200	25		0.018J														8	
COT-MW9	5/27/2014	20.5	7.09	0.9	10	130	4.0	1,733	1,200	21		0.034J														9	
COT-MW9	8/26/2014	21.4	7.49	0.5	6	152	3.0	1,876	1,300	23	0.023J	0.034J	0.23	140	4.7	52	190	120	190	1.1	550	<8.2	<8.2	550	-0.1	7	
COT-MW9	11/12/2014	20.9	7.04	0.5	6	138	38	1,865	820	23		<0.10														8	
COT-MW9	2/11/2015	19.3	7.46	4.8	49	117	4.0	1,759	1,100	24	<0.050	0.042J	0.26	160	5.2	55	200	100	160	0.52	540	<8.2	<8.2	540	7.3	7	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
COT-MW9	5/14/2015	19.8	7.40	0.8	13	140	96	1,851	1,200	27		0.034J														5	P
COT-MW9	8/14/2015	*Well Dry*																									
COT-MW9	11/20/2015	19.8	7.32	3.1	51	127	111	1,760	990	22		0.031J														3	
COT-MW9	2/24/2016	21.1	7.17	1.3	16	120	177	1,767	1,100	27	<0.050	0.031J	0.49	150	4.6	48	180	120	170	2.5	530	<8.2	<8.2	530	0.1	10	
COT-MW9	5/18/2016	21.4	7.07	1.1	17	83	9.0	1,867	1,200	63		0.026J														14	
COT-MW9	8/17/2016	20.9	6.57	1.6	18	160	5.0	1,818	1,200	46		0.028J														13	
COT-MW9	11/29/2016	20.1	6.73	1.3	15	158	108	1,754	1,200	35		<0.10														9	
COT-MW9	3/16/2017	19.9	7.23	1.8	22	171	1.3	1,771	1,300	48	<0.050	<0.10	0.14J	170	4.3	53	190	92	130	0.79	520	<8.2	<8.2	520	5.4	15	
COT-MW9	5/18/2017	20.3	7.06	2.3	26	209	11	1,874	1,400	66		0.094J														13	
COT-MW9	8/29/2017	22.9	7.17	4.4	51	106	12.5	1,947	1,400	67		0.054J														15	
COT-MW9	11/17/2017	21.1	7.05	1.8	21	144	9.4	1,950	1,400	71		<0.1														11	
COT-MW9	2/23/2018	20.0	7.44	2.0	22	255	5.9	2,040	1,400	81	<0.050	0.024J	0.30	170	5.0	56	200	120	160	0.70	530	<8.2	<8.2	530	-2.2	0	
COT-MW9	5/14/2018	19.9	7.08	1.8	21	181	5.0	2,074	1,400	70		0.022J														11	
COT-MW9	8/21/2018	21.3	6.90	1.5	15	150	17	1,958	1,100	46		<0.10														7	
COT-MW9	11/14/2018	20.1	6.99	5.3	63	125	9.0	1,872	1,300	49		0.10														0	
COT-MW9	3/1/2019	20.7	6.85	1.7	19	229	4.0	2,017	1,300	55	<0.050	<0.20	0.42	170	5.7	55	220	110	140	0.57	550	<8.2	<8.2	550	4.7	8	
COT-MW9	5/24/2019	19.2	7.02	3.4	41	206	26	1,978	1,400	51		<0.2														7	
COT-MW9	8/23/2019	22.4	7.23	2.6	30	127	15	1,859	1,200	46		<0.2														5	D
COT-MW9	11/13/2019	21.9	7.77	1.4	20	195	29	1,753	1,100	32		0.087J														4	D
COT-MW10	2/16/2012	20.0	7.14	2.3		217	10	1,045	640	7.4		0.034J														16	
COT-MW10	5/15/2012	19.3	6.94	2.1		176	8.0	1,302	860	17	<0.05*	0.036J	0.19J*	130	1.8	37	95	140	81	6.0*	330*	<8.2*	<8.2*	330	-0.5	11	H
COT-MW10	8/16/2012	22.5	7.62	1.6		100	18	1,169	870	17	<0.05	<0.05	0.44	110	1.9	39	100	91	93	8.4	380	<8.2	<8.2	380	-2.1	13	
COT-MW10	12/9/2012	22.1	7.40	1.0		100	7.0	1,050	670	9.5		<0.050														13	
COT-MW10	3/24/2013	19.4	6.88	1.1	11	198	8.2	1,203	810	16		0.031J														12	
COT-MW10	6/2/2013	20.7	7.07	1.2	14	155	4.0	1,527	1,000	31		<0.050														11	
COT-MW10	8/28/2013	23.4	6.51	1.2	15	162	10	1,781	1,300	24	0.0031J	0.032J	0.60	190	2.8	62	150	140	200	9.0	510	<8.2	<8.2	510	1.5	8	
COT-MW10	11/15/2013	21.9	7.32	1.4	17	193	14	1,552	1,100	21		0.031J														7	
COT-MW10	2/20/2014	20.6	7.12	1.0	11	118	12	1,549	1,000	19		0.024J														9	
COT-MW10	5/27/2014	21.7	7.27	1.4	16	125	3.0	1,687	1,200	20		<0.10														7	
COT-MW10	8/26/2014	22.7	7.64	1.2	14	148	7.0	2,127	1,200	32	<0.050	<0.10	0.34	210	2.7	60	160	170	230	5.0	510	<8.2	<8.2	510	-0.2	7	
COT-MW10	11/12/2014	21.5	7.26	1.2	13	149	34	2,168	1,400	36		<0.10														6	
COT-MW10	2/11/2015	20.3	7.10	5.3	56	126	3.0	1,770	1,300	42	<0.050	<0.10	0.38	190	2.7	60	160	130	140	5.8	440	<8.2	<8.2	440	6.8	10	
COT-MW10	5/14/2015	*Well Dry*																									
COT-MW10	8/14/2015	*Well Dry*																									
COT-MW10	11/20/2015	*Well Dry*																									
COT-MW10	2/24/2016	21.5	7.41	5.1	59	120	15	2,249	1,600	60	<0.050	0.041J	0.61	220	2.5	73	190	170	260	5.4	500	<8.2	<8.2	500	0.9	7	
COT-MW10	5/18/2016	22.1	7.29	1.2	19	110	10	2,103	1,500	61		0.046J														7	D
COT-MW10	8/17/2016	23.2	6.59	1.9	23	163	25	2,451	1,800	57		<0.10														7	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
COT-MW10	11/29/2016	22.1	6.78	1.7	21	157	4.0	2,134	1,600	53		<0.10														7	
COT-MW10	3/16/2017	19.5	7.30	2.3	26	182	8.5	2,303	1,700	87	<0.050	0.026J	0.46	210	2.7	92	230	190	210	5.8	460	<8.2	<8.2	460	5.5	13	
COT-MW10	5/18/2017	20.6	7.24	2.7	30	188	3.0	1,956	1,400	61		0.087J														12	
COT-MW10	8/29/2017	23.4	7.32	3.5	43	108	13	2,065	1,500	21		0.068J														11	
COT-MW10	11/17/2017	23.0	7.18	1.9	23	147	10.16	2,052	1,500	48		0.077J														9	
COT-MW10	2/23/2018	19.7	7.76	1.9	21	249	7.9	927	640	12	<0.050	0.027J	0.15J	100	1.4	27	64	86	59	4.3	270	<4.1	<4.1	270	-1.2	11	
COT-MW10	5/14/2018	20.0	7.50	1.7	19	180	5.0	1,016	720	11		<0.10														9	
COT-MW10	8/21/2018	22.4	7.07	2.3	23	150	4.0	2,024	1,500	22		<0.10														9	
COT-MW10	11/14/2018	21.0	7.28	6.5	76	117	14	1,199	880	16		0.10														10	
COT-MW10	3/1/2019	18.6	7.11	3.1	33	229	1.0	2,122	1,400	26	<0.050	<0.20	0.63	200	2.8	68	180	240	150	4.8	530	<8.2	<8.2	530	1.9	14	
COT-MW10	5/24/2019	19.0	7.19	1.5	20	204	16	2,048	1,500	15		0.086J														12	
COT-MW10	8/23/2019	24.2	7.35	1.3	11	114	14	1,747	1,100	13		<0.2														10	
COT-MW10	11/13/2019	22.5	7.73	0.5	12	172	3.0	1,700	1,100	14		0.094J														8	
COT-MW11d	2/13/2012	19.7	7.03	2.1		237	9.0	1,660	1,200	65		0.038J														16	
COT-MW11d	5/15/2012	21.0	6.51	2.0		201	8.0	1,828	1,300	82	<0.05*	0.043J	0.71*	120	29	58	160	130	46	24*	390*	<8.2*	<8.2*	390	-0.8	14	H
COT-MW11s	8/16/2012	22.7	6.94	1.7		88	415	1,395	1,100	47	<0.05	0.034J	1.8	140	79	32	110	85	32	100	410	<8.2	<8.2	410	-4.5	5	
COT-MW11s	12/9/2012	22.3	6.80	1.3		230	529	1,978	1,400	63		<0.050														8	
COT-MW11s	3/24/2013	18.0	6.41	4.7	49	244	308	1,704	1,200	86		0.045J														5	
COT-MW11s	6/2/2013	22.3	7.00	4.8	53	169	281	1,499	1,100	55		0.023J														9	
COT-MW11d	8/28/2013	21.7	6.92	2.9	34	200	4.0	1,763	1,200	75	0.047J	0.056	1.2	140	41	43	160	120	42	58	380	<8.2	<8.2	380	-1	13	
COT-MW11d	11/15/2013	18.1	6.97	1.1	12	190	9.0	1,541	1,100	74		0.028J														12	
COT-MW11d	2/20/2014	18.8	6.38	1.0	11	145	9.0	1,509	1,100	25		0.022J														10	
COT-MW11d	5/27/2014	20.2	6.88	2.4	26	140	4.0	1,780	1,300	73		0.040J														10	
COT-MW11d	8/26/2014	20.6	7.01	1.9	21	161	5.0	2,480	1,700	100	0.61	0.060J	0.68	160	57	60	230	200	59	46	510	<8.2	<8.2	510	-1.7	12	
COT-MW11d	11/13/2014	18.9	7.18	2.1	23	131	6.0	1,751	1,400	77		0.035J														10	
COT-MW11d	2/11/2015	20.2	6.80	1.1	12	120	2.0	1,945	1,300	73	0.17	0.036J	1.1	160	49	51	200	120	49	50	450	<8.2	<8.2	450	5.1	10	
COT-MW11d	5/14/2015	21.9	6.47	0.6	10	201	8.0	1,982	1,300	85		0.027J														5	
COT-MW11d	8/14/2015	21.4	6.85	3.3	38	61	12	2,281	1,600	120		<0.10														5	
COT-MW11d	11/20/2015	19.2	6.93	3.7	41	140	17	1,836	1,300	100		0.059J														6	
COT-MW11d	2/24/2016	19.5	6.99	3.0	34	138	7.0	1,919	1,400	110	<0.050	0.038J	0.65	140	39	45	180	120	76	38	310	<8.2	<8.2	310	-1.1	6	
COT-MW11d	5/18/2016	22.3	6.64	1.7	27	112	2.0	1,768	1,300	100		0.13														8	
COT-MW11d	8/17/2016	20.9	6.27	1.5	17	165	2.0	1,657	1,200	74		0.053J														7	
COT-MW11d	11/29/2016	20.1	6.45	2.2	25	145	1.0	1,560	1,100	39		<0.10														6	
COT-MW11d	3/16/2017	21.2	6.87	0.9	11	159	0.9	1,648	1,100	13	<0.050	0.042J	0.95	99	40	54	190	110	17	19	740	<8.2	<8.2	740	-1.3	6	
COT-MW11d	5/18/2017	22.0	6.74	1.9	22	185	6.0	1,409	1,000	35		0.10														7	
COT-MW11d	8/29/2017	22.1	6.55	1.4	17	80	8.0	787	590	10		0.055J														6	
COT-MW11d	11/17/2017	19.9	6.76	1.5	17	152	10.50	528	430	10		<0.1														6	
COT-MW11d	2/23/2018	20.1	6.89	0.8	10	264	5.8	979	690	8.8	0.019J	0.023J	0.79	62	32	32	88	58	19	15	400	<8.2	<8.2	400	-2.7	4	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																		----Alkalinity as CaCO3----						
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
COT-MW11d	5/14/2018	20.9	6.70	1.3	15	186	6.0	915	630	6.7		0.076J														4	
COT-MW11d	8/21/2018	19.9	6.58	1.3	13	177	4.0	700	520	7.5		0.032J														4	
COT-MW11d	11/14/2018	21.7	6.83	3.6	45	110	5.0	423	340	2.9		0.095J														3	
COT-MW11d	3/1/2019	20.8	6.89	2.4	27	231	3.0	576	400	6.2	<0.050	<0.20	0.24	38	30	12	42	34	8.4	13	190	<4.1	<4.1	190	-2.5	3	
COT-MW11d	5/24/2019	20.4	7.07	1.9	15	234	12	670	510	0.78		<0.2														3	
COT-MW11d	8/23/2019	20.8	7.68	2.8	33	104	13	463	320	3.6		<0.2														3	D
COT-MW11d	11/13/2019	21.1	8.08	0.6	6	160	4.0	436	310	0.66		0.080J														2	
COT-MW12s	2/13/2012	19.8	7.10	1.7		223	4.5	1,379	980	41		0.030J														8	
COT-MW12s	5/15/2012	21.1	6.76	1.6		192	73	1,400	960	35	<0.05*	<0.05	0.60*	110	8.2	38	140	67	41	2.4*	460*	<8.2*	<8.2*	460	2	6	H
COT-MW12s	8/16/2012	22.2	7.67	1.6		87	74	1,394	1,100	70	<0.05	<0.05	0.74	79	10	46	180	100	45	2.6	340	<8.2	<8.2	340	2.6	8	
COT-MW12s	12/9/2012	21.1	7.30	3.0		92	40	1,372	880	49		0.038J														13	
COT-MW12s	3/24/2013	20.3	6.63	5.1	56	236	91.4	1,333	940	67		0.036J														7	
COT-MW12s	6/2/2013	23.8	7.31	2.7	31	137	6.0	1,185	860	110		<0.050														6	
COT-MW12d	8/28/2013	22.3	7.34	6.3	71	206	52	1,182	820	46	0.0032J	0.030J	<0.20	91	6.1	31	120	73	37	11	280	<8.2	<8.2	280	2.4	21	
COT-MW12s	11/15/2013	19.3	7.16	4.8	54	186	65	1,380	980	66		0.022J														3	
COT-MW12d	2/20/2014	19.6	6.67	4.6	50	140	15	1,311	900	50		<0.050														19	
COT-MW12d	5/27/2014	20.3	7.25	5.4	59	134	14	1,498	1,000	57		<0.10														19	
COT-MW12d	8/26/2014	20.3	7.44	5.3	59	159	18	1,613	1,100	62	<0.050	<0.10	0.30	97	7.6	40	160	96	49	8.3	370	<8.2	<8.2	370	-0.4	20	
COT-MW12d	11/13/2014	18.9	7.68	2.9	32	131	27	1,387	1,100	61		<0.10														19	
COT-MW12d	2/11/2015	20.3	7.27	5.0	55	120	14	1,556	1,100	58	<0.050	<0.10	0.34	110	9.0	44	180	88	47	9.2	390	<8.2	<8.2	390	5.8	20	
COT-MW12d	5/14/2015	20.4	6.97	2.9	49	182	4.0	1,480	970	55		0.032J														15	
COT-MW12d	8/14/2015	21.0	7.11	6.3	69	72	7.0	1,470	1,000	52		0.025J														13	
COT-MW12d	11/20/2015	19.0	7.35	5.5	61	146	6.0	1,512	1,000	55		<0.10														12	
COT-MW12d	2/24/2016	19.3	7.43	5.4	60	131	20	1,511	1,000	54	<0.050	0.048J	0.12J	99	8.9	44	160	92	50	7.3	380	<8.2	<8.2	380	2.6	16	
COT-MW12d	5/18/2016	21.9	6.94	3.2	48	116	21	1,436	1,000	54		0.095J														17	
COT-MW12d	8/17/2016	20.9	6.64	3.3	38	170	33	1,525	1,100	54		<0.10														17	
COT-MW12d	11/29/2016	19.3	6.64	3.5	38	157	18	1,514	1,100	57		<0.10														17	
COT-MW12d	3/16/2017	20.0	7.36	2.7	30	171	19.4	1,378	960	43	<0.050	0.029J	0.33	92	12	39	160	72	43	9.2	430	<8.2	<8.2	430	2	17	
COT-MW12d	5/18/2017	22.1	7.05	2.7	31	175	13	1,475	1,100	56		0.088J														17	
COT-MW12d	8/29/2017	21.0	7.13	3.5	40	68	11	1,542	1,100	76		0.040J														17	
COT-MW12d	11/17/2017	19.4	7.11	3.4	38	153	5.7	1,539	1,200	77		<0.1														16	
COT-MW12d	2/23/2018	19.4	7.28	5.9	67	261	29.3	1,662	1,200	94	<0.050	0.036J	0.18J	90	12	46	180	99	71	8.2	320	<8.2	<8.2	320	-1.9	15	
COT-MW12d	5/14/2018	20.9	7.05	1.3	15	155	8.0	1,511	1,200	69		<0.10														15	
COT-MW12d	8/21/2018	20.8	7.00	3.8	38	182	7.0	1,674	1,300	82		0.032J														14	
COT-MW12d	11/14/2018	20.5	6.88	4.7	57	121	8.0	1,579	1,200	80		0.11														13	
COT-MW12d	3/1/2019	20.2	6.84	1.4	16	234	15	1,622	1,100	61	<0.050	<0.20	0.64	120	12	36	140	110	94	2.9	300	<8.2	<8.2	300	-0.1	14	
COT-MW12d	5/24/2019	21.7	6.96	2.8	32	223	26	1,658	1,200	75		<0.2														14	
COT-MW12d	8/23/2019	22.9	7.17	1.3	15	108	30	1,612	1,200	82		<0.2														13	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
COT-MW12d	11/13/2019	21.5	7.44	1.8	25	176	4.0	1,622	1,200	82		0.077J														13	
COT-MW13s	2/13/2012	21.5	6.99	1.5		215	5.5	2,197	1,500	12		0.68														7	
COT-MW13s	5/15/2012	23.5	6.76	1.5		225	12	2,358	1,500	3.8	0.020J*	0.82	0.85*	130	7.6	77	260	340	91	2.0*	620*	<8.2*	<8.2*	620	2	4	H
COT-MW13s	8/16/2012	22.0	6.83	1.1		84	330	2,010	1,400	38	20	0.98	1.7	120	8.3	68	240	240	82	2.0	490	<8.2	<8.2	490	1.3	6	
COT-MW13s	12/9/2012	22.4	7.13	1.1		98	32	1,600	1,100	49		0.65														11	
COT-MW13s	3/24/2013	21.2	6.46	0.9	11	236	22.8	1,780	1,200	49		0.57														6	
COT-MW13s	6/2/2013	24.0	6.78	0.6	7	151	8.0	2,028	1,500	97		0.42														6	
COT-MW13d	8/28/2013	23.1	7.10	2.7	31	179	3.0	1,757	1,400	95	0.011J	0.040J	0.67	110	7.1	52	190	130	90	9.2	250	<8.2	<8.2	250	3.1	19	
COT-MW13s	11/15/2013	20.5	7.10	1.0	11	181	77	1,830	1,400	81		0.034J														3	
COT-MW13d	2/20/2014	19.2	6.61	3.6	39	138	8.0	2,116	1,600	130		0.018J														18	
COT-MW13d	5/27/2014	21.4	6.93	2.6	29	132	3.0	2,108	1,800	120		<0.10														16	
COT-MW13d	8/26/2014	20.9	7.27	2.9	31	162	2.0	1,840	1,300	85	<0.050	<0.10	0.26	130	6.8	47	170	110	120	8.8	290	<8.2	<8.2	290	1.2	16	
COT-MW13d	11/13/2014	19.8	7.43	2.9	32	145	4.0	1,536	1,300	82		<0.10														17	
COT-MW13d	2/11/2015	20.3	7.06	4.0	44	118	2.0	1,565	1,100	74	0.053	<0.10	0.56	140	6.6	42	150	89	110	13	250	<8.2	<8.2	250	5.2	19	
COT-MW13d	5/14/2015	20.7	6.84	2.0	33	166	6.0	1,579	1,000	76		0.032J														15	
COT-MW13d	8/14/2015	21.1	7.26	3.1	37	63	12	1,418	1,000	67		<0.10														12	
COT-MW13d	11/20/2015	19.4	7.38	3.3	38	141	22	1,333	900	62		<0.10														12	
COT-MW13d	2/24/2016	20.4	7.26	5.1	58	131	2.0	1,362	980	66	<0.050	0.047J	0.58	120	5.1	33	120	80	78	12	230	<8.2	<8.2	230	1.8	14	
COT-MW13d	5/18/2016	22.6	6.80	2.8	43	110	1.0	1,313	990	67		<0.10														15	
COT-MW13d	8/17/2016	21.3	6.36	2.8	32	173	2.0	1,467	1,100	68		<0.10														15	
COT-MW13d	11/29/2016	19.2	6.49	2.6	30	155	3.0	1,443	1,100	68		<0.10														15	
COT-MW13d	3/16/2017	21.3	7.10	2.3	27	168	7.7	1,406	1,000	66	<0.050	0.043J	0.42	120	5.3	35	140	93	79	12	260	<8.2	<8.2	260	2.2	15	
COT-MW13d	5/18/2017	22.7	6.90	1.7	20	190	2.5	1,446	1,100	57		0.12														16	
COT-MW13d	8/29/2017	20.9	6.92	1.6	18	78	6.0	1,526	1,100	55		0.050J														15	
COT-MW13d	11/17/2017	20.7	6.88	1.5	17	129	12.23	1,503	1,100	57		<0.1														15	
COT-MW13d	2/23/2018	19.9	7.08	0.9	11	258	3.4	1,494	1,100	50	<0.050	0.031J	0.64	120	5.9	39	150	110	74	9.7	360	<8.2	<8.2	360	1.1	14	
COT-MW13d	5/14/2018	21.2	6.77	1.0	12	166	5.0	1,538	1,100	50		0.018J														14	
COT-MW13d	8/21/2018	20.7	6.78	1.3	13	188	4.0	1,539	1,100	49		<0.10														13	
COT-MW13d	11/14/2018	21.2	6.78	3.9	48	119	7.0	1,431	1,100	50		0.12														0	
COT-MW13d	3/1/2019	20.2	6.78	1.4	15	233	4.0	1,523	1,000	50	<0.050	<0.20	0.69	130	6.1	35	140	100	75	8.2	330	<8.2	<8.2	330	2.8	12	
COT-MW13d	5/24/2019	21.3	6.84	1.7	20	224	10	1,511	1,100	53		0.067J														12	
COT-MW13d	8/23/2019	22.2	7.07	1.4	12	129	20	1,428	1,000	53		<0.2														12	
COT-MW13d	11/13/2019	21.0	7.31	1.5	24	158	4.0	1,438	990	49		0.12J														11	
COT-MW14s	2/13/2012	21.0	6.87	1.7		222	13	1,385	930	30		0.032J														7	
COT-MW14s	5/15/2012	23.1	6.58	1.2		284	>1,000	1,150	770	23	<0.05*	0.026J	0.89*	75	6.1	38	110	68	23	12*	390*	<8.2*	<8.2*	390	-0.7	5	H
COT-MW14s	8/16/2012	22.5	6.94	1.2		107	440	1,316	920	36	0.038J	<0.05	0.27	83	6.7	45	140	120	36	0.18	420	<8.2	<8.2	420	-2.2	5	
COT-MW14s	12/9/2012	22.0	7.02	1.7		108	51	892	580	3.9		<0.050														10	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
COT-MW14s	3/24/2013	20.8	6.34	2.8	32	238	78.5	1,124	750	20		0.040J														6	
COT-MW14s	6/2/2013	24.7	6.91	2.0	24	147	4.0	1,185	820	25		<0.050														4	
COT-MW14d	8/28/2013	22.1	7.23	2.4	28	197	3.0	1,789	1,200	69	0.025J	0.034J	0.15J	120	8.8	57	190	130	57	0.11J	420	<8.2	<8.2	420	3.8	19	
COT-MW14d	11/15/2013	18.7	6.95	0.9	10	187	11	1,721	1,200	69		0.020J														20	
COT-MW14d	2/20/2014	20.8	6.78	0.9	10	123	6.0	1,788	1,200	73		<0.050														19	
COT-MW14d	5/27/2014	21.3	7.09	1.2	13	117	3.0	1,932	1,300	71		<0.10														17	
COT-MW14d	8/26/2014	22.0	7.61	1.5	16	152	3.0	1,822	1,200	69	0.022J	<0.10	<0.20	130	8.6	50	170	120	58	0.38	420	<8.2	<8.2	420	1.5	16	
COT-MW14d	11/13/2014	20.0	7.65	1.4	16	129	3.0	1,619	1,200	69		<0.10														17	
COT-MW14d	2/11/2015	20.0	7.00	1.6	20	118	1.0	1,929	1,200	79	0.055	<0.10	0.37	130	9.3	64	210	130	59	<0.15	460	<8.2	<8.2	460	4.6	19	
COT-MW14d	5/14/2015	21.7	6.86	0.4	7	143	5.0	2,121	1,300	84		0.038J														14	
COT-MW14d	8/14/2015	21.4	7.35	1.2	14	29	11	2,000	1,300	86		<0.10														12	
COT-MW14d	11/20/2015	19.4	7.32	0.7	8	123	15	2,036	1,200	84		0.027J														13	
COT-MW14d	2/24/2016	21.2	7.18	0.8	10	103	3.0	1,838	1,200	77	0.079	0.041J	0.50	120	8.8	56	190	120	56	<0.15	440	<8.2	<8.2	440	1.8	14	
COT-MW14d	5/18/2016	22.9	7.12	1.1	17	69	2.0	1,773	1,200	80		0.085J														15	
COT-MW14d	8/17/2016	21.7	6.63	1.6	18	150	2.0	1,902	1,300	85		<0.10														14	
COT-MW14d	11/29/2016	19.6	6.59	1.1	12	124	1.0	1,964	1,400	91		<0.10														15	
COT-MW14d	3/16/2017	20.8	7.28	1.3	15	146	0.9	1,946	1,400	92	0.26	0.032J	0.68	140	9.1	67	210	130	78	0.076J	430	<8.2	<8.2	430	4.3	15	
COT-MW14d	5/18/2017	23.8	7.26	1.1	13	163	2.0	1,965	1,500	89		0.11														16	
COT-MW14d	8/29/2017	20.8	7.07	1.4	16	71	24	2,060	1,500	97		0.076J														15	
COT-MW14d	11/17/2017	19.4	7.34	1.0	11	146	14.36	2,201	1,500	99		0.020J														15	
COT-MW14d	2/23/2018	19.5	7.31	0.9	10	261	7.6	2,331	1,900	100	0.76	0.039J	1.1	170	9.3	74	230	160	94	0.56	580	<8.2	<8.2	580	-0.2	14	
COT-MW14d	5/14/2018	20.8	6.98	1.7	20	172	5.0	2,447	1,700	100		0.036J														14	
COT-MW14d	8/21/2018	20.5	6.94	1.1	11	160	5.0	2,485	1,400	98		0.054J														13	
COT-MW14d	11/14/2018	20.6	7.00	2.6	29	102	6.0	2,286	1,700	100		0.19														12	
COT-MW14d	3/1/2019	20.0	6.93	1.3	15	240	3.0	2,428	1,600	88	0.51	0.088J	1.2	210	9.2	68	230	160	81	1.0	600	<8.2	<8.2	600	3.7	12	
COT-MW14d	5/24/2019	20.9	6.99	2.0	22	221	10	2,411	1,700	93		0.093J														12	
COT-MW14d	8/23/2019	20.9	6.99	1.9	24	115	2.0	2,299	1,600	90		<0.2														11	
COT-MW14d	11/13/2019	21.3	7.47	0.9	11	138	4.0	2,278	1,600	90		0.12J														11	
SAN-MW1d	2/13/2012	17.8	7.13	1.0		138	146	2,914	2,000	38		0.031J														21	
SAN-MW1d	5/15/2012	17.8	7.13	1.0		138	146	2,914	1,800	35	<0.05*	<0.05	0.41*	470	5.2	28	46	140	140	0.46*	840*	<8.2*	<8.2*	840	-1.9	21	H
SAN-MW1d	8/17/2012	21.3	7.10	1.0		191	189	2,587	1,700	41	<0.05	0.026J	0.46	480	4.7	30	96	140	150	0.052J	910	<8.2	<8.2	910	0.1	14	
SAN-MW1d	12/9/2012	18.5	7.32	2.4		127	123	2,623	1,700	43		<0.050														15	
SAN-MW1d	3/24/2013	21.5	6.89	1.5	16	196	9.6	2,587	1,600	43		0.038J														19	
SAN-MW1d	6/2/2013	20.4	7.40	2.4	27	155	18	2,520	1,800	48		<0.050														16	
SAN-MW1d	8/28/2013	20.2	6.43	1.5	17	169	10	2,072	1,400	45	0.0051J	0.034J	0.50	400	4.3	22	75	99	140	0.25	700	<8.2	<8.2	700	0.3	11	
SAN-MW1d	11/18/2013	18.6	7.49	2.3	25	251	72	2,221	1,400	49		<0.050														13	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
SAN-MW1d	2/25/2014	20.9	7.80	2.9	31	121	21	2,520	1,700	53		0.019J														14	
SAN-MW1d	5/27/2014	19.7	7.51	3.0	32	124	13	2,350	1,500	47		0.035J														10	
SAN-MW1d	8/27/2014	20.1	7.63	1.7	18	171	10	2,048	1,400	47	<0.050	0.043J	0.30	360	4.0	22	74	88	150	0.25	530	<8.2	<8.2	530	4.2	5	
SAN-MW1d	11/12/2014	19.0	7.58	1.8	20	132	16	1,947	1,200	47		<0.10														7	
SAN-MW1d	2/12/2015	18.9	7.27	2.6	29	68	1.0	2,021	1,400	52	<0.050	<0.10	0.24	350	4.6	32	100	88	160	0.16	570	<8.2	<8.2	570	4.6	7	
SAN-MW1d	5/13/2015	20.1	7.20	1.0	17	132	10	2,164	1,300	53		0.034J														4	
SAN-MW1d	8/14/2015	*Well Dry*																									
SAN-MW1d	11/18/2015	*Well Dry*																									
SAN-MW1d	2/24/2016	*Well Dry*																									
SAN-MW1d	5/18/2016	20.3	7.45	2.1	30	106	3.0	1,737	1,200	38		0.036J														4	
SAN-MW1d	8/18/2016	20.0	7.58	2.8	31	123	7.0	1,990	1,400	44		0.078J														1	
SAN-MW1d	12/1/2016	18.3	7.49	2.2	24	134	15	2,101	1,300	45		0.029J														4	
SAN-MW1d	3/17/2017	19.5	7.55	0.5	7	135	2.3	1,822	1,400	36	<0.050	0.046J	0.34	380	4.5	27	90	89	140	0.20	640	<8.2	<8.2	640	5.8	7	
SAN-MW1d	5/19/2017	20.3	7.42	1.9	24	178	4.1	1,870	1,200	34		0.082J														7	
SAN-MW1d	8/28/2017	20.9	7.51	2.6	29	105	14	1,961	1,300	39		0.042J														7	
SAN-MW1d	11/17/2017	18.7	7.45	2.7	29	170	6.8	1,994	1,300	40		0.039J														8	
SAN-MW1d	2/27/2018	18.7	7.52	4.3	47	273	6.0	2,051	1,300	38	<0.050	0.077J	0.42	350	4.0	26	86	110	140	0.23	690	<8.2	<8.2	690	-1.7	8	
SAN-MW1d	5/14/2018	19.8	7.42	2.2	26	165	6.0	2,069	1,400	38		<0.10														8	
SAN-MW1d	8/21/2018	19.6	7.24	2.9	29	186	8.0	2,318	1,400	37		0.026J														7	
SAN-MW1d	11/15/2018	19.1	7.20	1.8	20	242	5.0	2,222	1,400	36		0.089J														6	
SAN-MW1d	3/1/2019	19.0	7.20	1.6	18	245	12	2,406	1,400	32	<0.050	<0.20	0.46	410	4.6	29	100	120	120	0.19	900	<8.2	<8.2	900	-1.6	6	
SAN-MW1d	5/23/2019	19.9	7.23	2.4	30	199	4.0	2,380	1,600	32		<0.2														6	
SAN-MW1d	8/23/2019	23.1	7.48	1.1	23	112	24	2,284	1,400	32		<0.2														4	
SAN-MW1d	11/14/2019	19.7	7.45	2.0	31	132	5.0	2,189	1,400	28*		0.072J														4	H
SAN-MW2d	2/13/2012	16.6	7.15	2.0		217	>1,000	2,004	1,200	32		0.026J														15	
SAN-MW2d	5/15/2012	19.2	7.00	4.0		230	650	1,939	1,200	25	<0.05*	<0.05	0.45*	180	4.9	46	130	120	79	3.3*	570*	<8.2*	<8.2*	570	-0.2	13	H
SAN-MW2d	8/17/2012	22.8	6.97	3.9		201	781	1,719	1,200	37	<0.05	0.026J	0.45	150	4.4	43	150	110	110	<0.15	540	<8.2	<8.2	540	-3.2	3	
SAN-MW2d	12/9/2012	17.8	7.16	4.1		150	520	1,671	1,100	42		<0.050														9	
SAN-MW2d	3/24/2013	19.3	6.97	4.1	43	243	13.97	1,976	1,200	42		0.020J														9	
SAN-MW2d	6/2/2013	19.4	7.23	3.3	36	171	36	1,633	1,200	43		<0.050														6	
SAN-MW2d	8/28/2013	*Well Dry*																									
SAN-MW2d	11/18/2013	18.3	7.29	5.2	55	260	54	1,718	1,100	52		<0.050														3	
SAN-MW2d	2/25/2014	19.1	7.34	3.6	38	147	13	1,649	1,100	56		<0.050														6	
SAN-MW2d	5/27/2014	19.5	7.53	3.8	40	133	30	1,754	1,200	53		0.15														3	
SAN-MW2d	8/27/2014	*Well Dry*																									
SAN-MW2d	11/12/2014	*Well Dry*																									
SAN-MW2d	2/12/2015	*Well Dry*																									
SAN-MW2d	5/13/2015	*Well Dry*																									

Table 4-6
Groundwater Quality

		-------Field Measurements-------																		----Alkalinity as CaCO3----						
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
SAN-MW2d	8/14/2015	*Well Dry*																									
SAN-MW2d	11/18/2015	*Well Dry*																									
SAN-MW2d	2/24/2016	*Well Dry*																									
SAN-MW2d	5/18/2016	*Well Dry*																									
SAN-MW2d	8/18/2016	*Well Dry*																									
SAN-MW2d	12/1/2016	*Well Dry*																									
SAN-MW2d	3/17/2017	*Well Dry*																									
SAN-MW2d	5/19/2017	*Well Dry*																									
SAN-MW2d	8/28/2017	*Well Dry*																									
SAN-MW2d	11/17/2017	*Well Dry*																									
SAN-MW2d	2/27/2018	*Well Dry*																									
SAN-MW2d	5/14/2018	*Well Dry*																									
SAN-MW2d	8/21/2018	*Well Dry*																									
SAN-MW2d	11/14/2018	*Well Dry*																									
SAN-MW2d	3/1/2019	*Well Dry*																									
SAN-MW2d	5/23/2019	*Well Dry*																									
SAN-MW2d	8/23/2019	*Well Dry*																									
SAN-MW2d	11/14/2019	*Well Dry*																									
SAN-MW3d	2/13/2012	18.8	6.92	2.5		227	80	1,861	1,100	74		0.027J														14	
SAN-MW3d	5/15/2012	21.1	7.00	2.2		205	56	1,872	1,200	74	<0.05*	<0.05	0.33*	130	4.4	52	170	88	120	2.4*	400*	<8.2*	<8.2*	400	0.5	12	H
SAN-MW3d	8/17/2012	23.2	6.97	2.1		211	226	1,817	1,200	71	<0.05	0.056	0.31	110	4.2	55	180	100	120	<0.15	420	<8.2	<8.2	420	-1	3	
SAN-MW3d	12/9/2012	19.8	7.27	3.7		129	200	1,725	1,200	72		<0.050														8	
SAN-MW3d	3/24/2013	21.4	6.84	2.7	29	235	7.6	1,722	1,200	67		0.018J														9	
SAN-MW3d	6/2/2013	21.2	7.28	2.4	26	153	20	1,591	1,200	72		<0.050														6	
SAN-MW3d	8/28/2013	*Well Dry*																									
SAN-MW3d	11/18/2013	19.5	7.12	3.2	35	260	7.0	1,724	1,200	70		0.020J														3	
SAN-MW3d	2/25/2014	20.2	7.41	2.7	31	141	9.0	1,644	1,200	68		<0.050														6	
SAN-MW3d	5/27/2014	20.3	7.43	3.5	39	137	7.0	1,646	1,100	68		<0.10														3	
SAN-MW3d	8/27/2014	*Well Dry*																									
SAN-MW3d	11/12/2014	*Well Dry*																									
SAN-MW3d	2/12/2015	*Well Dry*																									
SAN-MW3d	5/13/2015	*Well Dry*																									
SAN-MW3d	8/14/2015	*Well Dry*																									
SAN-MW3d	11/18/2015	*Well Dry*																									
SAN-MW3d	2/24/2016	*Well Dry*																									
SAN-MW3d	5/18/2016	*Well Dry*																									
SAN-MW3d	8/18/2016	*Well Dry*																									
SAN-MW3d	12/1/2016	*Well Dry*																									

Table 4-6
Groundwater Quality

		-------Field Measurements-------																		----Alkalinity as CaCO3----						
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
SAN-MW3d	3/17/2017	*Well Dry*																									
SAN-MW3d	5/19/2017	*Well Dry*																									
SAN-MW3d	8/28/2017	*Well Dry*																									
SAN-MW3d	11/17/2017	*Well Dry*																									
SAN-MW3d	2/27/2018	*Well Dry*																									
SAN-MW3d	5/14/2018	*Well Dry*																									
SAN-MW3d	8/21/2018	*Well Dry*																									
SAN-MW3d	11/14/2018	*Well Dry*																									
SAN-MW3d	3/1/2019	*Well Dry*																									
SAN-MW3d	5/23/2019	*Well Dry*																									
SAN-MW3d	8/23/2019	*Well Dry*																									
SAN-MW3d	11/14/2019	*Well Dry*																									
SAN-MW4d	2/13/2012	17.7	6.83	2.7		251	383	1,740	1,200	74		0.028J														24	
SAN-MW4d	5/15/2012	20.5	6.88	3.0		215	53	1,969	1,300	80	<0.05*	<0.05	0.78*	110	19	63	170	100	85	7.2*	420*	<8.2*	<8.2*	420	0	23	H
SAN-MW4d	8/17/2012	21.7	6.98	0.9		195	212	1,695	1,200	76	<0.05	0.044J	0.60	130	5.2	49	160	73	94	0.78	400	<8.2	<8.2	400	1	12	
SAN-MW4d	12/9/2012	18.7	7.18	1.1		134	74	1,713	1,200	72		<0.050														18	
SAN-MW4d	3/24/2013	20.4	6.67	1.2	14	226	14.18	1,762	1,200	74		0.021J														20	
SAN-MW4d	6/2/2013	20.1	7.12	1.8	20	100	23	1,630	1,200	81		<0.050														16	
SAN-MW4d	8/28/2013	21.6	7.17	1.0	13	21	23	1,743	1,200	79	0.0082J	0.038J	0.66	140	4.7	55	180	84	98	0.81	430	<8.2	<8.2	430	2.7	10	
SAN-MW4d	11/18/2013	18.5	7.13	2.8	30	263	6.0	1,815	1,200	82		0.021J														15	
SAN-MW4d	2/25/2014	19.8	7.38	2.0	22	138	11	1,767	1,300	79		<0.050														17	
SAN-MW4d	5/27/2014	19.8	7.26	1.9	22	140	18	1,833	1,200	75		<0.10														12	
SAN-MW4d	8/27/2014	19.4	7.10	3.2	34	210	39	1,753	1,200	68	<0.050	0.042J	0.97	120	3.8	51	170	86	86	3.7	410	<8.2	<8.2	410	1.7	5	
SAN-MW4d	11/12/2014	20.0	7.13	2.0	22	137	205	1,844	1,100	72		<0.10														8	
SAN-MW4d	2/12/2015	20.0	6.98	5.8	61	70	2.0	1,755	1,200	74	<0.050	<0.10	0.32	150	4.2	56	180	90	83	0.54	430	<8.2	<8.2	430	5.4	12	
SAN-MW4d	5/13/2015	20.4	6.96	2.2	35	148	17	1,662	1,100	81		0.031J														8	
SAN-MW4d	8/14/2015	*Well Dry*																									
SAN-MW4d	11/18/2015	18.7	6.13	4.7	52	192	10	1,868	1,100	83		0.033J														5	
SAN-MW4d	2/24/2016	20.1	7.15	0.5	7	20	8.0	2,528	1,800	94	0.18	3.5	8.3	160	350	48	130	180	100	31	580	<8.2	<8.2	580	0.3	8	
SAN-MW4d	5/18/2016	20.7	6.83	1.5	23	130	61	1,906	1,400	97		0.087J														10	
SAN-MW4d	8/18/2016	20.5	7.17	2.3	27	128	14	1,901	1,400	91		0.067J														5	
SAN-MW4d	12/1/2016	18.9	6.98	3.0	33	130	16	2,018	1,400	77		0.061J														8	
SAN-MW4d	3/17/2017	20.4	7.47	0.7	8	172	16.7	2,442	1,900	31	0.20	1.1	15	170	380	44	140	250	85	76	750	<8.2	<8.2	750	-1.1	11	
SAN-MW4d	5/19/2017	21.2	7.08	2.0	23	181	15.51	2,014	1,500	69		0.12														10	
SAN-MW4d	8/28/2017	21.8	7.07	2.4	27	91	136	1,563	1,100	54		0.061J														8	
SAN-MW4d	11/20/2017	19.3	6.89	2.3	26	173	93.8	1,857	1,100	56		0.065J														10	
SAN-MW4d	2/27/2018	19.1	7.14	1.3	14	278	129	1,798	1,100	50	<0.050	0.048J	1.4	130	6.4	57	180	97	61	1.8	620	<8.2	<8.2	620	-1.4	10	
SAN-MW4d	5/14/2018	20.3	6.98	1.1	13	151	10	1,889	1,400	62		0.050J														12	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
SAN-MW4d	8/21/2018	20.0	6.92	1.8	18	197	34	1,710	1,200	58		0.019J														13	
SAN-MW4d	11/15/2018	19.5	6.80	1.2	14	248	9.0	1,664	1,200	61		0.14														12	
SAN-MW4d	3/1/2019	19.2	6.89	1.0	12	247	8.0	1,733	1,200	55	0.076	<0.20	1.5	130	49	48	160	95	53	11	490	<8.2	<8.2	490	2.7	12	
SAN-MW4d	5/23/2019	20.3	6.93	1.5	20	196	8.0	1,575	1,100	53		0.093J														12	
SAN-MW4d	8/23/2019	22.3	7.12	1.4	16	125	19	1,558	1,100	54		<0.2														9	
SAN-MW4d	11/14/2019	19.8	7.32	3.0	41	184	5.0	1,523	1,000	48*		0.13J														9	H
SAN-MW5s	2/16/2012	16.7	7.03	2.8		247	>1,000	1,828	1,200	20		0.031J														6	
SAN-MW5s	5/15/2012	20.5	7.04	3.0		207	>1,000	1,937	1,200	26	<0.05*	<0.05	1.5*	170	6.9	61	150	120	170	4.9*	560*	<8.2*	<8.2*	560	-0.1	4	H
SAN-MW5d	8/17/2012	20.6	6.92	5.3		209	115	2,133	1,500	84	<0.05	0.036J	0.17J	160	5.2	68	210	140	200	<0.15	440	<8.2	<8.2	440	0.6	16	
SAN-MW5d	12/9/2012	18.1	7.17	5.4		129	104	1,956	1,400	69		0.025J														24	
SAN-MW5d	3/24/2013	20.3	6.77	4.2	44	221	29.9	2,158	1,400	45		0.032J														26	
SAN-MW5d	6/2/2013	19.7	7.79	5.4	60	167	12	1,896	1,400	81		<0.050														22	
SAN-MW5d	8/28/2013	20.4	6.75	4.9	54	158	24	1,655	1,100	54	0.0038J	0.028J	0.65	160	4.6	53	160	85	170	0.63	440	<8.2	<8.2	440	2.1	14	
SAN-MW5d	11/18/2013	18.1	7.37	6.5	68	261	21	1,714	1,100	46		0.018J														17	
SAN-MW5d	2/25/2014	19.5	7.49	4.8	53	148	15	1,779	1,300	59		<0.050														21	
SAN-MW5d	5/27/2014	19.3	7.87	5.7	61	126	20	1,796	1,200	58		0.038J														18	
SAN-MW5d	8/27/2014	18.2	6.77	5.3	56	215	16	1,823	1,200	51	<0.050	0.049J	0.40	160	4.8	51	150	99	150	0.32	370	<8.2	<8.2	370	5	10	
SAN-MW5d	11/12/2014	18.6	7.20	4.6	50	164	49	2,154	1,300	48		<0.10														10	
SAN-MW5d	2/12/2015	19.6	7.02	4.3	45	78	2.0	1,898	1,300	44	<0.050	<0.10	<0.20	200	5.0	59	180	120	190	1.2	500	<8.2	<8.2	500	5	13	
SAN-MW5d	5/13/2015	19.5	7.00	3.1	52	143	18	1,636	1,000	36		<0.10														10	
SAN-MW5d	8/14/2015	*Well Dry*																									
SAN-MW5d	11/18/2015	17.7	6.76	6.6	71	186	18	1,598	980	33		<0.10														10	D
SAN-MW5d	2/24/2016	19.3	7.48	7.4	81	126	18	1,807	1,200	52	<0.050	0.057J	0.51	210	5.1	43	130	100	160	0.58	470	<8.2	<8.2	470	0	7	
SAN-MW5d	5/18/2016	20.0	7.40	4.5	66	115	12	1,637	1,100	52		0.036J														5	
SAN-MW5d	8/18/2016	*Well Dry*																									
SAN-MW5d	12/1/2016	18.1	7.72	3.9	43	137	8.0	1,807	1,200	58		0.026J														6	
SAN-MW5d	3/17/2017	19.6	7.62	0.5	6	155	24.3	1,499	1,100	48	<0.050	0.032J	0.30	160	3.6	36	120	87	140	0.48	380	<8.2	<8.2	380	-1.2	7	
SAN-MW5d	5/19/2017	20.4	7.46	6.3	71	170	14.53	1,604	1,100	48		0.082J														6	
SAN-MW5d	8/28/2017	*Well Dry*																									
SAN-MW5d	11/17/2017	18.6	7.58	6.2	67	173	12.60	1,828	1,300	74		<0.1														6	
SAN-MW5d	2/27/2018	18.2	8.02	7.1	76	275	60	1,543	1,000	49	<0.050	0.025J	0.35	160	3.7	39	110	83	160	0.15	350	<8.2	<8.2	350	-1.3	4	
SAN-MW5d	5/14/2018	20.7	7.67	3.5	40	167	9.0	1,643	1,300	54		0.024J														3	
SAN-MW5d	8/21/2018	19.6	7.64	6.3	63	170	6.0	1,610	1,100	51		0.074J														3	
SAN-MW5d	11/15/2018	19.0	7.51	6.9	74	216	7.0	1,595	1,000	52		0.12														4	
SAN-MW5d	3/1/2019	19.0	7.33	5.8	64	240	8.0	1,786	1,200	62	<0.050	<0.20	0.12J	180	5.0	45	140	100	170	0.12J	350	<8.2	<8.2	350	2.4	8	
SAN-MW5d	5/23/2019	19.6	7.34	4.8	57	197		1,525	1,100	44		<0.2														8	
SAN-MW5d	8/23/2019	22.8	7.70	4.6	50	111	22	1,486	1,000	45		<0.2														4	D
SAN-MW5d	11/14/2019	19.5	7.85	9.9	113	166	5.0	1,547	1,100	51*		<0.20														2	H

Table 4-6
Groundwater Quality

		-------Field Measurements-------																		----Alkalinity as CaCO3----						
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
SAN-MW6s	2/16/2012	22.0	7.01	2.5		235	225	1,844	1,200	34		0.031J														13	
SAN-MW6s	5/15/2012	21.5	6.90	2.7		172	153	1,859	1,300	38	<0.05*	0.033J	0.45*	160	8.3	55	170	130	160	2.2*	500*	<8.2*	<8.2*	500	1	11	H
SAN-MW6d	8/17/2012	21.7	7.27	2.8		107	238	1,813	1,300	46	<0.05	0.030J	0.48	160	11	57	190	160	190	1.4	470	<8.2	<8.2	470	0.5	30	
SAN-MW6s	12/9/2012	21.0	7.20	1.8		138	202	1,780	1,200	38		<0.050														10	
SAN-MW6s	3/24/2013	21.8	6.79	2.3	26	196	44.3	1,844	1,300	41		0.024J														13	
SAN-MW6s	6/2/2013	20.9	7.47	2.0	20	134	35	1,841	1,300	42		<0.050														8	
SAN-MW6s	8/28/2013	24.0	7.38	2.4	26	200	3.0	1,826	1,300	45	0.0057J	0.039J	0.49	160	7.9	56	170	150	190	1.8	430	<8.2	<8.2	430	0.5	7	
SAN-MW6s	11/18/2013	20.1	7.39	4.7	52	256	459	1,907	1,400	51		0.018J														5	
SAN-MW6s	2/25/2014	21.9	7.49	4.1	45	119	226	1,846	1,400	48		<0.050														6	
SAN-MW6s	5/27/2014	21.7	7.27	2.1	23	130	30	2,005	1,300	44		<0.10														4	
SAN-MW6s	8/27/2014	20.1	7.50	4.5	47	177	16	2,277	1,600	40	<0.050	<0.10	0.19J	250	4.3	56	180	160	250	0.21	450	<8.2	<8.2	450	6.5	2	
SAN-MW6s	11/12/2014	20.6	7.32	4.4	49	142	387	1,826	1,100	34		<0.10														3	
SAN-MW6s	2/12/2015	20.5	7.56	5.4	55	101	72	1,984	1,400	46	<0.050	<0.10	<0.20	170	5.6	68	210	190	190	1.2	440	<8.2	<8.2	440	4.8	4	
SAN-MW6d	5/13/2015	21.9	7.20	1.0	18	138	5.0	1,711	950	28		<0.10														19	
SAN-MW6d	8/14/2015	23.0	7.27	5.7	63	61	70	1,856	960	24		0.030J														20	
SAN-MW6d	11/20/2015	19.2	7.32	3.0	44	135	61	1,790	1,200	30*		0.066J														16	H
SAN-MW6s	2/24/2016	21.7	7.31	2.8	33	124	377	1,750	1,200	51	<0.050	0.055J	0.29	150	7.5	50	150	120	100	2.7	430	<8.2	<8.2	430	1.5	4	
SAN-MW6s	5/18/2016	21.3	7.16	1.7	25	90	298	2,153	1,400	64		<0.10														7	
SAN-MW6s	8/18/2016	21.0	6.78	4.4	50	157	248	2,411	1,600	63		0.052J														6	
SAN-MW6s	12/1/2016	19.8	7.44	3.1	34	136	47	2,085	1,300	48		<0.10														4	
SAN-MW6s	3/17/2017	20.8	7.30	0.4	5	152	231	2,355	1,700	74	<0.050	0.040J	0.18J	200	9.4	79	250	340	140	2.5	390	<8.2	<8.2	390	4.2	4	
SAN-MW6s	5/19/2017	21.2	7.16	2.5	29	168	115	2,775	2,000	79		0.055J														8	
SAN-MW6s	8/28/2017	21.5	7.15	2.8	33	97	46	2,298	1,500	58		0.035J														9	
SAN-MW6s	11/17/2017	20.7	7.26	2.0	23	171	20.53	2,367	1,500	64		<0.1														7	
SAN-MW6s	2/27/2018	20.7	7.43	2.3	25	284	20	2,367	1,400	63	<0.050	0.035J	0.39	180	6.6	68	220	310	160	0.84	440	<8.2	<8.2	440	-1.6	8	
SAN-MW6s	5/14/2018	21.2	7.18	4.6	53	170	20	2,514	1,700	55		<0.10														6	
SAN-MW6s	8/21/2018	22.8	7.10	2.2	22	179	79	2,566	1,600	56		0.032J														0	
SAN-MW6d	11/15/2018	20.6	7.01	2.2	24	263	7.0	2,099	1,200	47		0.057J														18	
SAN-MW6d	3/1/2019	20.8	7.06	2.0	23	237	2.0	2,080	1,200	47	<0.050	<0.20	0.48	170	4.3	60	210	160	180	0.091J	510	<8.2	<8.2	510	2.5	19	
SAN-MW6d	5/23/2019	20.0	7.21	4.6	55	204	28	2,020	1,300	46		<0.2														19	
SAN-MW6d	8/23/2019	21.1	7.33	2.5	28	118	50	1,893	1,300	46		<0.2														16	
SAN-MW6d	11/14/2019	20.0	7.48	3.8	50	140	28	1,895	1,400	41*		0.093J														15	H
SAN-MW7s	2/16/2012	20.3	6.91	2.4		251	643	1,719	1,200	37		0.041J														16	
SAN-MW7s	5/15/2012	20.2	6.79	2.6		167	494	1,823	1,300	34	<0.05*	0.029J	0.93*	140	1.6	71	180	110	120	4.4*	610*	<8.2*	<8.2*	610	1.4	15	H
SAN-MW7d	8/17/2012	18.9	7.12	2.1		124	26	1,638	1,200	43	<0.05	0.025J	0.49	150	3.5	47	160	81	120	<0.15	570	<8.2	<8.2	570	-2.1	25	
SAN-MW7s	12/9/2012	17.9	7.11	0.9		138	30	1,759	1,200	37		<0.050														9	
SAN-MW7s	3/24/2013	21.5	6.67	1.0	11	203	10.7	1,809	1,200	37		0.029J														14	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																		----Alkalinity as CaCO3----						
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
SAN-MW7s	6/2/2013	22.1	7.24	2.6	27	153	25	1,778	1,200	40		<0.050														7	
SAN-MW7d	8/28/2013	18.6	6.28	0.8	8	185	6.0	1,755	1,200	45	0.0042J	0.031J	0.57	160	4.1	51	180	90	110	0.092J	600	<8.2	<8.2	600	0.5	29	
SAN-MW7s	11/18/2013	18.1	7.22	3.7	41	257	16	1,775	1,200	30		0.017J														3	
SAN-MW7d	2/25/2014	20.3	7.19	1.2	13	105	20	1,797	1,200	39		<0.050														26	
SAN-MW7d	5/27/2014	18.5	7.09	1.8	19	134	5.0	1,946	1,200	40		<0.10														25	
SAN-MW7d	8/27/2014	18.2	7.29	2.0	20	181	9.0	1,899	1,300	38	<0.050	<0.10	0.50	170	4.5	50	180	92	110	<0.15	550	<8.2	<8.2	550	5.1	20	
SAN-MW7d	11/12/2014	19.6	7.14	2.3	24	122	9.0	1,751	980	29		0.038J														24	
SAN-MW7s	2/12/2015	18.0	7.03	4.8	50	111	586	1,608	1,100	31*	<0.050	<0.10	<0.20	150	2.4	63	160	87	120	2.1	500	<8.2	<8.2	500	6.8	6	H
SAN-MW7d	5/13/2015	19.2	6.78	1.3	22	143	6.5	1,558	880	29		0.034J														22	
SAN-MW7d	8/14/2015	21.6	7.13	3.8	42	68	26	1,402	700	15		0.030J														17	
SAN-MW7d	11/18/2015	17.2	6.25	3.6	39	190	10	1,429	860	17		<0.10														20	
SAN-MW7d	2/24/2016	19.4	7.15	2.9	32	120	14	1,634	1,100	26	<0.050	0.064J	0.43	160	3.9	45	160	93	130	0.15	530	<8.2	<8.2	530	2.6	24	
SAN-MW7s	5/18/2016	22.7	7.06	1.0	16	80	53	1,473	980	30		0.026J														6	
SAN-MW7d	8/18/2016	19.2	6.97	3.9	42	154	13	1,463	960	18		0.049J														21	
SAN-MW7d	12/1/2016	17.8	7.26	2.7	29	138	10	1,477	900	20		<0.10														26	
SAN-MW7s	3/17/2017	21.6	7.21	0.3	5	121	45.6	1,464	1,100	31	<0.050	0.041J	0.38	120	1.4	49	130	84	87	2.1	520	<8.2	<8.2	520	-3.3	10	
SAN-MW7s	5/19/2017	23.0	7.14	1.7	21	150	12.3	1,539	1,000	31		0.066J														6	
SAN-MW7s	8/28/2017	21.9	7.05	1.7	19	92	16	1,466	1,100	34		0.038J														8	
SAN-MW7s	11/17/2017	20.3	7.29	1.4	16	156	10.24	1,506	1,000	38		<0.1														8	
SAN-MW7s	2/27/2018	18.7	7.32	3.1	34	284	24	1,523	920	36	<0.050	0.049J	0.37	130	2.6	49	140	100	83	0.83	460	<8.2	<8.2	460	1.2	8	
SAN-MW7s	5/14/2018	19.7	7.04	2.9	34	191	31	1,563	1,100	36		0.027J														5	
SAN-MW7d	8/21/2018	19.3	6.94	3.3	33	180	8.0	1,524	810	25		0.049J														24	
SAN-MW7d	11/15/2018	18.4	6.86	3.3	35	254	8.0	1,488	780	25		0.25														23	
SAN-MW7d	3/1/2019	18.4	6.93	3.0	33	236	89	1,476	920	24	<0.050	<0.20	0.85	140	4.1	39	140	77	110	0.52	480	<8.2	<8.2	480	1.9	25	
SAN-MW7d	5/23/2019	19.8	6.99	3.3	39	192	46	1,600	1,100	30		<0.2														26	
SAN-MW7d	8/23/2019	21.0	7.13	2.4	24	128	83	1,602	1,100	30		<0.2														21	
SAN-MW7d	11/14/2019	19.5	7.16	1.5	25	149	43	1,536	1,000	25*		0.14J														20	H
SAN-MW8s	2/16/2012	19.3	6.91	2.0		242	603	1,673	1,100	40		0.038J														10	
SAN-MW8s	5/15/2012	20.8	6.70	1.7		220	>1,000	1,660	1,200	34	<0.05*	<0.05	0.83*	140	1.9	52	160	100	100	10*	540*	<8.2*	<8.2*	540	-0.1	5	H
SAN-MW8d	8/17/2012	19.3	7.18	1.4		184	21	1,475	1,000	15	<0.05	0.028J	0.35	210	2.3	30	100	71	100	<0.15	610	<8.2	<8.2	610	-2.1	15	
SAN-MW8s	12/9/2012	18.3	7.64	2.3		112	50	1,505	980	12		<0.050														2	
SAN-MW8d	3/24/2013	20.2	6.89	1.5	15	210	13.64	1,756	1,100	21		0.020J														24	
SAN-MW8d	6/2/2013	20.6	7.06	1.4	18	160	7.0	1,737	1,200	32		0.024J														19	
SAN-MW8d	8/28/2013	20.1	7.00	1.5	17	46	25	1,724	1,100	34	0.0040J	0.038J	0.58	150	2.6	49	170	110	130	3.7	570	<8.2	<8.2	570	-1.7	20	
SAN-MW8d	11/18/2013	16.8	7.02	3.6	37	261	117	1,623	990	29		0.019J														20	
SAN-MW8d	2/25/2014	19.7	7.25	2.1	24	97	20	1,565	1,100	28		0.022J														17	
SAN-MW8d	5/27/2014	19.0	7.07	2.6	27	134	24	1,570	950	24		<0.10														13	
SAN-MW8d	8/27/2014	18.9	7.27	2.8	30	177	34	1,651	1,100	27	<0.050	<0.10	0.43	140	2.5	45	160	75	110	0.36	450	<8.2	<8.2	450	7.5	11	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
SAN-MW8d	11/12/2014	18.7	7.10	2.9	31	121	48	1,366	800	15		<0.10														12	
SAN-MW8d	2/12/2015	18.3	6.87	5.0	54	96	13	1,628	1,100	26	<0.050	<0.10	0.43	150	2.1	50	170	86	130	3.2	520	<8.2	<8.2	520	4.6	17	
SAN-MW8d	5/13/2015	19.5	6.90	2.0	32	144	11	1,590	940	27		<0.10														10	
SAN-MW8d	8/14/2015	21.9	6.95	3.9	46	107	47	1,486	730	22		0.037J														6	
SAN-MW8d	11/18/2015	17.7	6.48	4.4	47	186	15	1,473	860	21		<0.10														10	
SAN-MW8d	2/24/2016	20.1	7.33	4.4	50	118	12	1,694	1,200	28	<0.050	0.067J	0.32	200	2.6	40	140	94	150	0.41	540	<8.2	<8.2	540	1.2	12	
SAN-MW8d	5/18/2016	22.5	7.08	1.3	20	81	30	1,366	850	21		0.081J														18	
SAN-MW8d	8/18/2016	20.5	7.20	3.7	41	137	10	1,660	1,100	23		0.044J														13	
SAN-MW8d	12/1/2016	19.1	7.49	2.6	30	125	11	1,972	1,200	58		0.027J														15	
SAN-MW8d	3/17/2017	21.9	7.31	0.3	4	124	13.91	1,801	1,300	52	<0.050	0.040J	0.20	270	2.2	31	120	84	110	0.61	600	<8.2	<8.2	600	-0.1	22	
SAN-MW8d	5/19/2017	23.5	7.15	1.6	20	154	8.8	1,823	1,200	52		0.091J														19	
SAN-MW8s	8/28/2017	22.6	7.14	2.0	24	103	91	1,383	980	31		0.030J														6	
SAN-MW8d	11/17/2017	19.6	7.29	1.8	18	164	9.9	1,634	1,100	38		<0.1														21	
SAN-MW8d	2/27/2018	18.8	7.26	3.1	35	286	38	1,667	940	35	<0.050	0.057J	0.31	180	2.3	40	140	85	100	1.4	570	<8.2	<8.2	570	-0.7	21	
SAN-MW8d	5/14/2018	20.0	7.07	2.9	33	186	71	1,672	1,100	35		0.024J														18	
SAN-MW8d	8/21/2018	19.9	7.08	3.5	35	184	10	1,752	1,000	31		0.030J														14	
SAN-MW8d	11/15/2018	18.4	6.92	3.7	39	243	13	1,784	980	29		0.062J														13	
SAN-MW8d	3/1/2019	19.1	7.03	3.3	38	238	19	1,726	1,000	30	<0.050	<0.20	0.40	240	3.1	33	130	80	100	0.24	600	<8.2	<8.2	600	3.2	14	
SAN-MW8d	5/23/2019	19.7	7.05	4.2	44	202	13	1,611	1,100	31		<0.2														14	
SAN-MW8d	8/23/2019	21.9	7.20	3.3	38	127	35	1,518	940	24		<0.2														12	
SAN-MW8d	11/14/2019	19.9	7.18	2.7	37	145	14	1,466	910	21*		0.11J														11	H
GEN-MW1	3/24/2013	21.6	7.53	5.5	70	-82	3.0	3,405	2,100	<0.50		84														16	
GEN-MW1	5/31/2013	24.0	7.11	0.3	4	-70	4.0	2,737	1,600	27		32														16	
GEN-MW1	8/21/2013	23.9	7.21	0.4	4	-134	2.0	2,658	1,600	17	0.24	27	29	140	130	110	160	270	61	17	950	<8.2	<8.2	950	-2.2	19	
GEN-MW1	11/12/2013	22.0	7.27	0.6	8	-85	1.0	2,985	1,800	24		16														17	
GEN-MW1	2/17/2014	22.0	6.89	0.3	4	-123	4.0	2,862	1,800	15		13														15	
GEN-MW1	5/29/2014	21.8	7.11	1.4	16	40	3.0	2,759	1,700	11		1.1														14	
GEN-MW1	8/19/2014	24.8	7.45	0.5	6	-7	3.0	2,749	1,400	7.6	0.19	12	14	160	100	130	180	260	80	14	970	<8.2	<8.2	970	1.1	14	
GEN-MW1	11/5/2014	21.7	7.08	0.5	6	-125	1.0	2,821	1,600	9.4		8.9														13	
GEN-MW1	2/4/2015	22.4	7.11	0.6	7	-111	1.0	2,858	1,500	10	0.24	6.9	8.3	170	94	150	200	270	76	12	1,000	<8.2	<8.2	1,000	3.7	13	
GEN-MW1	5/11/2015	21.8	7.14	0.6	7	-83	2.0	2,730	1,700	4.0		6.9														11	
GEN-MW1	8/20/2015	23.5	7.63	1.0	15	-131	10	2,575	1,400	3.4		10														11	
GEN-MW1	11/22/2015	21.8	7.31	0.4	3	-148	15	2,737	1,600	3.1		9.2														9	
GEN-MW1	2/17/2016	21.2	7.13	0.4	5	-121	4.0	2,681	1,700	7.7	0.17	5.2	5.3	160	83	150	200	280	84	9.4	1,000	<8.2	<8.2	1,000	2.1	9	
GEN-MW1	5/17/2016	22.2	7.04	2.4	28	-114	6.0	2,648	1,600	7.6		4.4														10	
GEN-MW1	8/15/2016	23.3	7.04	0.7	8	-82	3.0	2,837	1,500	6.8		5.5														12	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
GEN-MW1	12/1/2016	21.6	7.23	1.3	14	81	3.0	2,884	1,800	2.2		4.0														11	
GEN-MW1	3/13/2017	22.9	7.03	0.6	8	-107	0.6	2,881	1,700	11	0.20	2.3	4.0	180	68	190	250	280	78	7.2	1,100	<8.2	<8.2	1,100	7.5	12	
GEN-MW1	5/16/2017	22.1	6.91	0.9	11	-91	2.0	2,784	1,700	13		2.2														12	
GEN-MW1	8/24/2017	22.8	6.49	0.5	6	-125	3.0	2,742	1,500	7.8		2.7														15	
GEN-MW1	11/15/2017	22.1	6.82	0.5	6	-95	2.2	2,806	1,600	5.6		2.3														15	
GEN-MW1	2/16/2018	21.9	6.73	0.9	11	-80	4.4	2,678	1,700	4.5	0.30	1.9	7.0	160	43	150	210	300	77	13	1,100	<8.2	<8.2	1,100	-2.8	13	
GEN-MW1	5/8/2018	23.1	6.70	3.0	36	-100	6.0	2,970	1,800	4.3		1.7														13	
GEN-MW1	8/27/2018	22.2	6.81	0.6	6	-106	4.0	3,054	2,000	3.0		2.2														16	
GEN-MW1	11/12/2018	21.9	6.83	1.9	28	-105	4.0	3,041	1,900	1.5		4.7														15	
GEN-MW1	2/19/2019	21.9	6.70	0.9	10	15	2.0	3,132	1,900	0.88	0.023J	<0.20	5.9	160	42	180	230	330	65	4.4	1,300	<8.2	<8.2	1,300	-3.6	15	
GEN-MW1	5/17/2019	21.9	6.82	0.9	18	-115	8.0	3,030	1,800	2.9		2.0														16	
GEN-MW1	8/13/2019	22.9	6.86	0.7	13	-130	5.0	2,952	1,900	0.99		2.6														17	
GEN-MW1	11/12/2019	22.2	6.77	1.0	17	-83	3.0	3,081	1,900	2.1		8.3														17	
GEN-MW2	3/24/2013	20.8	7.60	7.1	75	69	13	2,154	1,500	55		0.46														17	
GEN-MW2	5/31/2013	22.0	6.91	0.6	8	153	3.0	2,103	1,400	63		0.041J														18	
GEN-MW2	8/21/2013	21.6	7.11	0.4	4	51	1.0	2,157	1,400	57	0.51	0.041J	0.65	94	12	140	180	140	70	0.70	760	<8.2	<8.2	760	0.3	20	
GEN-MW2	11/12/2013	21.1	7.23	0.9	10	128	1.0	2,282	1,400	56		0.021J														18	
GEN-MW2	2/17/2014	19.8	6.92	0.1	2	75	4.0	2,314	1,400	56		0.024J														15	
GEN-MW2	5/29/2014	19.8	7.13	0.3	4	157	1.0	2,211	1,300	59		0.12														14	
GEN-MW2	8/19/2014	22.9	7.42	0.6	7	67	4.0	2,372	1,200	54	0.99	0.15	0.71	110	9.7	150	200	160	75	0.49	770	<8.2	<8.2	770	3.7	14	
GEN-MW2	11/5/2014	19.9	7.03	0.3	4	73	1.0	2,426	1,500	52		<0.10														13	
GEN-MW2	2/4/2015	21.3	6.95	1.1	12	57	1.0	2,537	1,300	49	0.49	<0.10	1.1	120	9.1	170	220	190	96	0.58	820	<8.2	<8.2	820	5.4	13	
GEN-MW2	5/11/2015	21.3	7.07	0.9	15	112	2.0	2,236	1,200	53		<0.10														11	
GEN-MW2	8/20/2015	25.4	7.06	2.1	25	89	2.0	2,128	1,200	58		0.084J														11	
GEN-MW2	11/20/2015	20.4	6.89	0.4	4	62	3.0	2,293	1,400	55		0.065J														9	
GEN-MW2	2/17/2016	19.7	7.16	0.6	7	88	3.0	2,198	1,500	56	0.49	<0.10	0.35	100	9.0	140	180	140	67	0.84	760	<8.2	<8.2	760	1	9	
GEN-MW2	5/17/2016	21.2	6.97	1.5	17	90	5.0	2,135	1,400	52		0.11														10	
GEN-MW2	8/16/2016	21.3	7.20	1.0	11	205	1.0	2,457	1,600	61		<0.10														11	
GEN-MW2	12/1/2016	20.1	7.57	0.5	6	136	1.0	2,467	1,600	57		0.038J														10	
GEN-MW2	3/13/2017	21.7	7.06	0.7	8	106	0.2	2,384	1,500	53	0.51	0.039J	0.76	120	10	180	230	150	85	1.2	870	<8.2	<8.2	870	7.6	11	
GEN-MW2	5/16/2017	20.9	6.89	0.8	9	116	1.0	2,322	1,400	53		0.048J														12	
GEN-MW2	8/24/2017	21.1	6.49	0.5	6	63	1.0	2,410	1,300	59		0.060J														14	
GEN-MW2	11/15/2017	20.8	6.85	0.6	7	62	0.8	2,456	1,600	57		0.043J														14	
GEN-MW2	2/16/2018	20.7	6.92	0.5	6	124	4.3	2,248	1,400	57	0.15	<0.10	0.33	110	9.3	140	200	190	87	0.98	820	<8.2	<8.2	820	-2.1	13	
GEN-MW2	5/8/2018	22.1	6.74	1.9	22	175	5.0	2,447	1,500	57		0.047J														13	
GEN-MW2	8/27/2018	20.7	6.86	0.5	5	180	4.0	2,498	1,600	59		0.063J														15	
GEN-MW2	11/12/2018	20.6	6.92	1.3	24	119	3.0	2,392	1,600	55		0.16														15	
GEN-MW2	2/19/2019	20.7	6.79	0.6	7	186	2.0	2,468	1,500	55	0.33	0.070J	0.83	110	7.7	140	190	200	77	1.2	800	<8.2	<8.2	800	-2.3	15	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
GEN-MW2	5/17/2019	20.7	6.92	0.8	14	101	1.0	2,497	1,500	56		<0.2														16	
GEN-MW2	8/13/2019	21.9	6.99	0.5	11	97	1.0	2,385	1,500	55		<0.2														17	
GEN-MW2	11/11/2019	20.8	7.13	1.1	19	93	NM	3,191	1,500	54		0.23														16	
GEN-MW3	3/24/2013	20.5	7.72	6.3	65	55	NM	5,915	4,400	150		28														13	
GEN-MW3	5/31/2013	21.6	7.23	0.5	6	148	2.0	6,229	4,400	140		39														13	
GEN-MW3	8/21/2013	22.8	7.23	0.3	4	69	1.0	6,079	4,500	120	0.037J	40	48	330	730	220	260	380	220	3.2	2,300	<8.2	<8.2	2,300	-2.2	15	
GEN-MW3	11/12/2013	20.3	7.17	1.7	11	220	2.0	6,409	4,200	130		17														13	
GEN-MW3	2/17/2014	20.1	6.86	0.1	2	95	4.0	6,625	4,400	150		14														10	
GEN-MW3	5/29/2014	20.4	6.97	1.2	13	182	2.0	6,072	4,000	140		0.58														10	
GEN-MW3	8/19/2014	21.6	7.26	0.7	7	97	4.0	6,210	3,800	120	0.039J	12	21	410	690	250	300	420	300	1.7	2,000	<8.2	<8.2	2,000	3.7	10	
GEN-MW3	11/5/2014	20.0	6.93	0.5	6	125	2.0	5,947	3,800	73		25														8	
GEN-MW3	2/4/2015	22.2	7.07	0.8	9	97	1.0	5,776	3,600	130	5.2	0.66	6.9	400	690	220	260	420	310	1.4	1,700	<8.2	<8.2	1,700	3.3	8	
GEN-MW3	5/11/2015	20.1	7.32	2.1	23	122	3.0	5,491	3,300	88		14														7	
GEN-MW3	8/20/2015	21.4	7.63	0.5	7	74	8.0	5,047	3,100	33		28														7	
GEN-MW3	11/22/2015	21.1	7.16	0.4	5	-45	33	5,273	3,100	15		73														5	
GEN-MW3	2/17/2016	20.6	7.10	0.5	6	157	5.0	5,021	3,100	23	<0.050	75	77	310	540	190	210	380	160	2.5	2,000	<8.2	<8.2	2,000	2.6	5	
GEN-MW3	5/17/2016	21.1	6.98	3.6	41	208	6.0	4,801	2,900	13		68														6	
GEN-MW3	8/15/2016	22.1	7.00	0.9	10	12	8.0	5,203	3,300	1.0		48														7	
GEN-MW3	12/1/2016	18.5	7.44	1.0	11	93	3.0	5,386	3,300	0.22		120														6	
GEN-MW3	3/13/2017	21.5	7.04	0.9	9	147	1.0	7,974	5,600	540	0.20	9.3	12	490	790	350	340	480	430	1.3	1,300	<8.2	<8.2	1,300	0.5	7	
GEN-MW3	5/16/2017	20.8	6.89	0.9	10	164	2.0	7,353	5,400	430		3.7														8	
GEN-MW3	8/24/2017	21.4	6.41	1.1	13	113	2.0	8,076	6,200	480		2.2														11	
GEN-MW3	11/15/2017	21.1	6.73	0.6	7	59	1.7	8,983	6,900	580		1.7														10	
GEN-MW3	2/16/2018	20.7	6.80	0.8	9	11	4.5	7,752	6,100	510	0.96	0.57	4.2	470	790	330	420	450	410	1.4	1,700	<8.2	<8.2	1,700	-1.6	9	
GEN-MW3	5/8/2018	21.1	6.72	3.7	42	205	5.0	8,398	6,800	530		0.27														9	
GEN-MW3	8/27/2018	20.5	6.85	0.7	7	194	3.0	7,194	5,000	280		8.8														11	
GEN-MW3	11/12/2018	20.7	6.87	1.8	29	15	3.0	7,408	5,200	340		2.4														11	
GEN-MW3	2/19/2019	20.4	6.79	0.9	10	209	1.0	7,719	5,400	340	0.55	0.27	5.5	400	830	290	330	430	330	3.0	2,100	<8.2	<8.2	2,100	-3.9	11	
GEN-MW3	5/17/2019	19.2	6.89	0.9	18	129	2.0	7,878	5,800	40		0.33														12	
GEN-MW3	8/13/2019	21.0	6.94	0.9	17	157	5.0	6,015	4,400	200		4.1														13	
GEN-MW3	11/12/2019	21.9	6.93	1.0	16	19	2.0	6,013	4,400	210		0.74														12	
GEN-MW5	3/24/2013	21.1	7.46	6.4	68	99	5.0	2,181	1,700	85		0.23														17	
GEN-MW5	5/31/2013	20.5	6.78	0.5	7	157	3.0	2,257	1,600	82		0.044J														17	
GEN-MW5	8/21/2013	21.7	6.90	0.6	6	113	2.0	2,305	1,800	90	0.30	0.076	2.9	98	12	130	240	81	180	2.6	720	<8.2	<8.2	720	0.5	18	
GEN-MW5	11/12/2013	21.3	7.00	1.0	11	167	1.0	2,624	1,800	120		0.044J														16	
GEN-MW5	2/19/2014	19.8	6.88	1.7	17	242	2.0	2,415	1,600	110		0.043J														14	
GEN-MW5	5/29/2014	21.4	6.88	1.1	12	142	2.0	2,354	1,700	140		0.13														12	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
GEN-MW5	8/19/2014	24.6	7.16	0.8	10	53	4.0	2,395	1,700	120	0.52	0.14	3.2	100	12	130	220	49	170	2.9	610	<8.2	<8.2	610	1	12	
GEN-MW5	11/5/2014	21.0	6.87	0.3	4	55	1.0	2,385	1,600	120		0.066J														10	
GEN-MW5	2/4/2015	22.6	7.02	0.5	6	48	1.0	2,305	1,500	130	0.53	0.044J	3.1	100	11	130	220	40	170	2.2	540	<8.2	<8.2	540	2.8	11	
GEN-MW5	5/11/2015	22.4	6.92	1.1	19	120	1.0	2,375	1,800	130		0.054J														9	
GEN-MW5	8/20/2015	24.8	6.97	3.3	40	108	3.0	2,400	1,700	150		0.13														8	
GEN-MW5	11/22/2015	22.1	8.01	0.4	5	51	12	2,486	1,600	120		0.079J														6	
GEN-MW5	2/17/2016	21.0	6.97	0.5	7	84	3.0	2,174	1,600	110	0.52	<0.10	1.7	91	11	130	210	57	150	2.1	580	<8.2	<8.2	580	2.3	7	
GEN-MW5	5/17/2016	21.7	6.98	1.7	20	73	6.0	2,031	1,400	100		0.14														8	
GEN-MW5	8/16/2016	21.6	6.86	1.1	12	215	1.0	2,716	1,900	170		0.037J														9	
GEN-MW5	12/1/2016	21.9	7.29	1.0	11	159	1.0	2,564	1,900	170		0.12														8	
GEN-MW5	3/13/2017	22.9	6.76	0.7	10	94	1.1	2,442	1,800	160	0.18	0.040J	1.9	110	13	160	270	49	160	1.7	500	<8.2	<8.2	500	9.6	10	
GEN-MW5	5/16/2017	21.9	6.78	0.8	9	105	4.0	2,753	2,000	200		0.060J														10	
GEN-MW5	8/24/2017	21.9	6.07	0.5	6	91	0.4	2,782	2,200	210		0.071J														12	
GEN-MW5	11/15/2017	21.8	6.59	0.6	7	49	1.0	2,836	2,300	210		0.062J														12	
GEN-MW5	2/16/2018	22.0	6.71	0.6	7	108	4.8	2,273	1,700	170	0.22	<0.10	1.5	93	16	120	230	55	150	1.7	450	<8.2	<8.2	450	-0.1	11	
GEN-MW5	5/8/2018	22.7	6.59	1.9	22	153	5.0	2,511	2,100	170		0.071J														11	
GEN-MW5	8/27/2018	21.6	6.62	0.6	6	176	3.0	2,741	2,300	200		0.087J														13	
GEN-MW5	11/12/2018	21.6	6.70	1.4	23	139	2.0	2,755	2,200	210		0.34														12	
GEN-MW5	2/19/2019	21.6	6.64	1.2	12	175	1.0	2,306	1,600	150	0.18	<0.20	2.1	91	30	120	210	71	120	1.8	420	<8.2	<8.2	420	2.9	13	
GEN-MW5	5/17/2019	21.6	6.77	0.7	12	101	1.0	1,828	1,300	100		<0.2														13	
GEN-MW5	8/13/2019	21.9	6.82	1.7	22	120	1.0	2,114	1,500	150		0.13J														14	
GEN-MW5	11/12/2019	21.2	6.64	1.1	19	135	3.0	2,033	1,600	150		0.18J														14	
GEN-MW6	3/24/2013	23.0	8.15	6.0	70	76	33	938	700	39		0.025J														18	
GEN-MW6	5/31/2013	22.3	6.86	0.6	7	120	4.0	1,209	800	54		0.028J														17	
GEN-MW6	8/21/2013	22.1	7.05	0.9	10	124	1.0	1,686	1,200	70	0.012J	0.032J	0.60	120	3.3	64	160	71	52	1.1	500	<8.2	<8.2	500	1.2	19	
GEN-MW6	11/12/2013	21.2	7.16	1.3	15	189	1.0	2,102	1,400	94		0.019J														17	
GEN-MW6	2/17/2014	21.4	6.59	0.5	6	110	3.0	2,321	1,400	120*		0.022J														14	H
GEN-MW6	5/29/2014	21.4	6.99	1.1	11	205	2.0	2,118	1,500	120		<0.10														13	
GEN-MW6	8/19/2014	23.9	7.22	0.6	6	93	3.0	1,843	1,100	85	0.014J	0.044J	1.3	120	5.9	60	180	64	62	1.2	460	<8.2	<8.2	460	2.4	13	
GEN-MW6	11/5/2014	22.7	6.93	0.9	11	82	1.0	1,539	1,100	72		<0.10														11	
GEN-MW6	2/5/2015	20.8	7.03	1.1	13	116	1.0	1,392	1,000	64	<0.050	<0.10	1.1	97	4.0	51	140	29	54	0.85	380	<8.2	<8.2	380	4.6	12	
GEN-MW6	5/11/2015	22.3	7.01	1.4	24	109	1.0	1,344	910	68		0.034J														9	
GEN-MW6	8/20/2015	24.7	7.09	2.6	31	84	4.0	1,181	810	60		0.10														8	
GEN-MW6	11/20/2015	21.6	7.18	0.3	3	66	6.0	1,187	770	53		0.066J														7	
GEN-MW6	2/17/2016	20.1	7.22	1.2	14	181	3.0	1,087	770	45	<0.050	<0.10	<0.20	62	3.4	48	100	26	40	0.84	330	<8.2	<8.2	330	1.4	7	
GEN-MW6	5/17/2016	22.3	6.95	1.6	18	116	4.0	1,221	840	61		0.028J														8	
GEN-MW6	8/16/2016	21.2	6.95	1.9	22	197	1.0	776	540	17		<0.10														8	
GEN-MW6	12/1/2016	21.4	7.59	1.4	16	161	1.0	536	390	1.7		0.020J														8	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
GEN-MW6	3/13/2017	21.7	7.20	0.9	11	111	0.3	830	540	26	<0.050	0.020J	0.42	33	2.7	37	91	16	27	1.5	290	<4.1	<4.1	290	2.1	10	
GEN-MW6	5/16/2017	20.2	7.04	1.0	11	120	1.0	1,137	800	48		0.061J														11	
GEN-MW6	8/24/2017	21.9	6.61	2.6	31	84	0.4	1,128	760	56		0.028J														11	
GEN-MW6	11/15/2017	22.0	6.95	2.2	26	133	1.2	1,062	750	48		<0.1														12	
GEN-MW6	2/16/2018	21.9	7.03	2.1	24	123	4.6	1,138	920	66	0.011J	<0.10	<0.20	59	4.5	38	130	25	68	1.2	280	<8.2	<8.2	280	-0.7	11	
GEN-MW6	5/8/2018	22.3	6.78	2.8	33	169	5.0	1,393	940	78		0.032J														11	
GEN-MW6	8/27/2018	21.7	6.83	2.1	21	122	3.0	817	590	31		0.060J														12	
GEN-MW6	11/12/2018	21.5	6.90	2.5	35	69	2.0	1,115	810	23		0.13														12	
GEN-MW6	2/19/2019	20.9	6.75	0.7	7	200	1.0	1,180	780	25	<0.050	<0.20	0.74	46	4.7	45	140	34	29	1.4	460	<8.2	<8.2	460	0.9	13	
GEN-MW6	5/17/2019	20.6	6.85	1.3	20	66	2.0	1,625	1,200	84		<0.2														14	
GEN-MW6	8/13/2019	22.8	6.95	1.1	13	108	1.0	1,615	1,200	100		<0.2														14	
GEN-MW6	11/12/2019	20.8	6.86	2.3	32	176	2.0	1,530	1,100	96		0.12J														14	
GEN-MW7	3/24/2013	21.8	7.83	6.7	71	89	29	1,352	950	32		0.036J														20	
GEN-MW7	5/31/2013	21.8	7.06	0.7	8	132	3.0	863	600	31		0.023J														17	
GEN-MW7	8/21/2013	22.1	7.10	0.7	8	97	1.0	853	580	26	0.010J	0.037J	0.74	33	2.0	38	73	18	33	0.39	260	<4.1	<4.1	260	0	19	
GEN-MW7	11/12/2013	21.8	7.38	0.9	11	142	1.0	762	530	24		<0.050														16	
GEN-MW7	2/17/2014	20.0	6.96	0.2	3	77	2.0	1,091	680	0.12		<0.050														13	
GEN-MW7	5/29/2014	19.7	7.41	1.1	11	112	3.0	1,006	690	30		0.035J														12	
GEN-MW7	8/19/2014	22.5	7.54	0.5	6	32	4.0	998	580	29	0.013J	<0.10	0.80	41	3.1	50	94	25	42	0.27	320	<4.1	<4.1	320	2.9	12	
GEN-MW7	11/5/2014	20.6	7.25	0.6	7	-29	2.0	767	520	24		<0.10														11	
GEN-MW7	2/4/2015	21.9	7.13	1.7	19	-13	1.0	902	600	28	0.011J	0.037J	0.65	38	3.7	46	87	20	37	0.35	290	<4.1	<4.1	290	3.9	11	
GEN-MW7	5/11/2015	22.5	7.16	1.1	19	103	1.0	837	560	32		0.027J														9	
GEN-MW7	8/20/2015	23.9	7.23	4.3	51	79	3.0	787	570	30		0.036J														8	
GEN-MW7	11/20/2015	20.9	7.02	0.2	3	72	5.0	847	570	35		0.049J														7	
GEN-MW7	2/17/2016	20.5	7.18	0.4	5	43	4.0	849	600	31	<0.050	<0.10	0.10J	33	3.5	43	83	19	33	0.36	270	<4.1	<4.1	270	2	7	
GEN-MW7	5/17/2016	21.2	7.07	1.7	20	2	5.0	867	610	30		0.032J														7	
GEN-MW7	8/15/2016	22.5	7.33	0.7	9	33	1.0	948	610	30		0.86														8	
GEN-MW7	12/1/2016	21.4	7.47	1.1	12	158	2.0	886	630	31		<0.10														8	
GEN-MW7	3/13/2017	21.7	7.21	0.7	9	20	0.7	943	620	30	<0.050	0.023J	0.38	38	3.4	49	94	22	39	0.45	330	<4.1	<4.1	330	1.3	10	
GEN-MW7	5/16/2017	21.1	7.10	0.6	7	38	1.0	950	640	30		0.040J														10	
GEN-MW7	8/24/2017	21.8	6.72	0.5	6	70	1.0	979	670	30		0.037J														12	
GEN-MW7	11/15/2017	21.5	6.88	0.8	9	0	1.3	1,020	660	38		0.024J														12	
GEN-MW7	2/16/2018	21.5	7.16	0.6	8	67	4.3	852	610	30	0.031J	<0.10	0.46	34	3.5	41	84	18	34	0.38	310	<4.1	<4.1	310	-2.3	11	
GEN-MW7	5/8/2018	22.3	6.91	1.7	21	111	6.0	957	670	31		0.040J														11	
GEN-MW7	8/27/2018	21.6	6.97	0.6	6	175	3.0	991	700	32		0.038J														12	
GEN-MW7	11/12/2018	21.0	6.86	1.3	23	138	2.0	1,054	770	43		0.14														12	
GEN-MW7	2/19/2019	21.6	6.76	0.9	10	141	1.0	970	650	30	<0.050	0.070J	<0.20	35	3.8	47	99	20	33	0.33	330	<4.1	<4.1	330	2.1	13	
GEN-MW7	5/17/2019	21.2	7.04	0.6	11	82	1.0	997	670	31		<0.2														14	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----				
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
GEN-MW7	8/13/2019	22.6	6.80	0.3	8	116	1.0	1,356	930	69		<0.2														14	
GEN-MW7	11/12/2019	20.9	6.64	1.1	22	153	3.0	1,093	670	25		0.094J														14	
GEN-MW8	3/24/2013	20.4	7.80	1.3	15	72	58	1,946	1,400	80		0.031J														19	
GEN-MW8	5/31/2013	22.5	7.34	0.4	5	62	4.0	2,157	1,400	79		0.030J														19	
GEN-MW8	8/21/2013	22.1	7.18	0.3	3	17	1.0	2,273	1,400	76	0.095	0.038J	1.1	100	9.9	130	200	130	87	0.31	710	<8.2	<8.2	710	0.3	20	
GEN-MW8	11/12/2013	19.6	7.31	0.9	10	124	1.0	2,457	1,400	75		0.026J														18	
GEN-MW8	2/17/2014	19.9	6.94	0.2	2	80	3.0	2,294	1,500	67		<0.050														16	
GEN-MW8	5/29/2014	21.6	7.10	0.6	8	149	1.0	2,244	1,300	72		<0.10														15	
GEN-MW8	8/19/2014	25.3	7.44	1.3	15	61	3.0	2,423	1,400	72	0.084	0.048J	0.54	110	8.7	150	200	160	89	0.23	710	<8.2	<8.2	710	3.1	15	
GEN-MW8	11/5/2014	20.7	6.98	0.3	3	75	1.0	2,733	1,700	74		<0.10														13	
GEN-MW8	2/4/2015	20.8	7.03	0.4	4	58	1.0	2,757	1,400	68	0.076	<0.10	1.4	130	15	160	250	210	110	0.29	820	<8.2	<8.2	820	3.6	14	
GEN-MW8	5/11/2015	21.8	7.13	0.8	14	113	1.0	2,670	1,500	65		0.047J														12	
GEN-MW8	8/20/2015	25.8	7.12	2.2	26	90	2.0	2,505	1,300	59		0.063J														11	
GEN-MW8	11/20/2015	20.0	6.98	0.4	5	72	2.0	2,919	1,800	38		0.063J														9	
GEN-MW8	2/17/2016	20.1	7.03	0.4	5	95	3.0	3,018	2,100	36	0.070	<0.10	2.4	160	15	190	280	200	61	0.32	1,300	<8.2	<8.2	1,300	2	10	
GEN-MW8	5/17/2016	21.2	6.90	1.7	19	102	6.0	2,938	1,800	39		0.069J														10	
GEN-MW8	8/16/2016	20.7	7.02	0.8	9	206	1.0	3,287	2,100	25		1.7														12	
GEN-MW8	12/1/2016	19.9	7.01	0.9	10	156	1.0	3,714	2,300	15		7.7														11	
GEN-MW8	3/13/2017	21.5	6.81	0.5	7	123	0.3	3,600	2,200	23	0.023J	4.8	8.5	190	27	250	340	210	47	0.44	1,800	<8.2	<8.2	1,800	2.5	12	
GEN-MW8	5/16/2017	20.6	6.70	0.7	8	147	4.0	3,493	2,200	23		6.2														13	
GEN-MW8	8/24/2017	20.9	6.00	0.4	5	59	2.0	3,644	2,000	12		14														15	
GEN-MW8	11/15/2017	20.2	6.56	0.5	6	76	0.9	4,230	2,500	6.6		42														15	
GEN-MW8	2/16/2018	20.3	6.56	0.6	7	125	4.5	3,867	2,300	11	0.052	47	45	210	73	240	340	250	31	0.60J	2,100	<8.2	<8.2	2,100	0.6	14	
GEN-MW8	5/8/2018	22.3	6.46	2.7	32	194	5.0	3,978	2,300	9.0		33														14	
GEN-MW8	8/27/2018	20.6	6.54	0.6	6	196	3.0	4,512	2,500	4.6		63														16	
GEN-MW8	11/12/2018	20.3	6.62	1.8	29	130	3.0	4,504	2,600	7.2		71														15	
GEN-MW8	2/19/2019	20.4	6.46	0.9	10	208	2.0	4,600	2,400	30	0.13	<0.20	62	200	100	250	320	270	33	0.42	2,300	<8.2	<8.2	2,300	-8.3	16	
GEN-MW8	5/17/2019	20.8	6.56	1.3	20	127	1.0	4,613	2,800	77		48														17	
GEN-MW8	8/13/2019	21.2	6.67	0.7	13	106	1.0	4,585	2,600	38		77														17	
GEN-MW8	11/11/2019	20.6	6.67	1.4	23	84	5.0	5,014	2,800	89		90														17	
GEN-MW9	3/24/2013	18.3	7.64	7.8	76	93	36	1,998	1,500	91		0.070														17	
GEN-MW9	5/31/2013	20.1	6.98	0.4	4	147	3.0	2,159	1,500	95		0.033J														17	
GEN-MW9	8/21/2013	20.9	6.95	0.5	6	41	6.0	2,015	1,600	91	0.49	0.058	<0.20	93	120	70	170	87	87	<0.15	500	<8.2	<8.2	500	1.3	18	
GEN-MW9	11/12/2013	19.7	7.05	0.7	8	86	1.0	2,009	1,400	86		0.028J														16	
GEN-MW9	2/17/2014	18.1	6.80	0.1	2	111	3.0	1,998	1,400	75		0.018J														13	
GEN-MW9	5/29/2014	20.5	6.91	0.5	6	171	2.0	1,676	1,200	70		0.050J														13	
GEN-MW9	8/19/2014	21.8	7.18	0.5	6	90	5.0	1,496	1,000	89	0.092	0.042J	1.2	56	140	42	100	27	59	35	250	<8.2	<8.2	250	0	13	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
GEN-MW9	11/5/2014	20.5	6.94	0.9	10	78	1.0	1,721	1,200	89		<0.10														12	
GEN-MW9	2/5/2015	19.1	6.80	1.2	13	131	2.0	1,907	1,400	100	0.20	<0.10	2.1	81	130	66	160	52	80	29	390	<8.2	<8.2	390	3.2	12	
GEN-MW9	5/11/2015	19.9	6.89	1.1	12	119	2.0	1,956	1,300	94		0.028J														11	
GEN-MW9	8/20/2015	22.2	7.49	0.4	5	50	6.0	1,707	1,200	84		0.085J														11	
GEN-MW9	11/22/2015	20.1	7.18	0.4	4	107	18	2,223	1,400	120		0.043J														8	
GEN-MW9	2/17/2016	19.7	6.94	0.5	6	121	5.0	2,258	1,600	130	0.18	<0.10	1.8	100	120	80	200	80	110	22	480	<8.2	<8.2	480	-0.3	8	
GEN-MW9	5/17/2016	20.5	6.75	1.4	16	115	5.0	2,138	1,400	120		0.099J														9	
GEN-MW9	8/16/2016	20.8	6.96	1.3	14	191	5.0	1,763	1,300	86		0.026J														11	
GEN-MW9	12/1/2016	19.3	7.38	1.3	14	98	1.0	1,655	1,200	74		0.049J														9	
GEN-MW9	3/13/2017	19.9	6.95	0.9	10	117	1.5	2,278	1,600	110	0.11	0.041J	1.6	100	110	89	230	85	150	20	570	<8.2	<8.2	570	1.1	11	
GEN-MW9	5/16/2017	18.4	6.76	1.0	11	175	3.0	2,794	2,000	150		0.059J														12	
GEN-MW9	8/24/2017	20.6	6.62	0.8	10	100	1.0	3,555	2,500	140		0.13														14	
GEN-MW9	11/15/2017	20.4	6.90	0.6	7	84	1.7	2,295	1,600	79		0.12														14	
GEN-MW9	2/16/2018	19.7	6.86	0.5	7	147	4.6	2,434	1,800	140	0.68	0.035J	2.1	110	200	71	190	110	58	18	600	<8.2	<8.2	600	-3.2	0	
GEN-MW9	5/7/2018	20.3	6.74	2.2	26	171	4.0	2,747	2,100	150		0.022J														13	
GEN-MW9	8/27/2018	21.2	6.44	0.5	5	164	3.0	1,791	1,400	100		0.13														16	
GEN-MW9	11/12/2018	21.1	6.57	1.4	23	133	3.0	1,446	1,100	62		0.32														14	
GEN-MW9	2/19/2019	19.2	6.45	0.8	9	198	2.0	1,841	1,300	86	0.32	<0.20	2.2	72	180	47	120	76	59	30	380	<8.2	<8.2	380	-1.4	14	
GEN-MW9	5/17/2019	18.5	6.49	0.7	15	105	1.0	1,918	1,400	89		0.14J														16	
GEN-MW9	8/13/2019	21.1	6.59	3.4	41	151	6.0	1,417	1,100	67		0.17J														16	
GEN-MW9	11/11/2019	22.2	6.79	1.0	18	116	7.0	1,423	1,000	45		0.25														16	
GEN-MW10	3/24/2013	21.3	7.99	6.5	72	-22	6.0	1,744	1,200	9.2		0.81														14	
GEN-MW10	5/31/2013	21.9	7.62	0.4	5	114	3.0	1,969	1,300	43		0.48														16	
GEN-MW10	8/21/2013	22.4	7.32	0.3	3	-69	4.0	1,775	1,300	33	0.88	0.48	4.3	78	38	110	160	98	73	30	730	<8.2	<8.2	730	-1.9	17	
GEN-MW10	11/12/2013	20.7	7.40	1.4	14	34	1.0	1,905	1,200	34		0.36														15	
GEN-MW10	2/17/2014	21.0	7.02	0.2	3	-42	3.0	1,779	1,100	30		0.38														13	
GEN-MW10	5/29/2014	21.6	7.43	1.1	13	163	2.0	1,691	1,100	21		0.21														12	
GEN-MW10	8/19/2014	22.9	7.57	0.3	4	65	3.0	1,880	1,200	27	0.81	0.23	1.2	82	21	120	150	86	59	3.5	730	<8.2	<8.2	730	2.7	11	
GEN-MW10	11/5/2014	21.0	7.43	0.5	6	-35	1.0	1,769	1,200	28		0.24														10	
GEN-MW10	2/4/2015	21.7	7.09	0.8	8	-18	2.0	1,830	1,200	31	0.50	0.20	1.5	78	17	130	150	62	51	3.3	760	<8.2	<8.2	760	3.9	10	
GEN-MW10	5/11/2015	21.7	7.33	0.8	14	56	1.0	1,741	1,100	24		0.20														9	
GEN-MW10	8/20/2015	24.6	7.16	1.8	21	34	3.0	1,913	1,300	43		0.25														8	
GEN-MW10	11/22/2015	20.7	7.68	1.5	17	-10	19	1,975	1,200	27		0.44														6	
GEN-MW10	2/17/2016	20.4	7.18	0.8	10	-60	24	1,865	1,300	22	0.49	0.62	2.2	81	30	120	160	92	64	5.7	790	<8.2	<8.2	790	1.6	7	D
GEN-MW10	5/17/2016	21.8	7.07	1.5	17	-3	5.0	1,910	1,200	27		0.40														7	
GEN-MW10	8/16/2016	22.1	7.45	0.8	10	188	2.0	2,542	1,700	50		0.15														9	
GEN-MW10	12/1/2016	20.6	7.48	1.4	16	142	4.0	2,015	1,400	32		0.29														8	
GEN-MW10	3/13/2017	22.1	7.14	0.6	8	-41	6.2	2,086	1,300	28	0.55	0.20	1.7	97	24	160	210	120	73	4.1	870	<8.2	<8.2	870	7.6	9	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
GEN-MW10	5/16/2017	20.6	6.98	1.0	11	28	6.0	2,067	1,300	28		0.23														10	
GEN-MW10	8/24/2017	21.3	6.35	0.5	6	13	2.0	2,581	1,700	52		0.18														12	
GEN-MW10	11/15/2017	21.3	6.87	0.6	7	74	1.9	2,414	1,700	48		0.10														12	
GEN-MW10	2/16/2018	21.5	6.95	0.5	6	116	4.8	1,929	1,400	34	0.65	0.043J	1.0	87	29	120	170	110	61	2.8	820	<8.2	<8.2	820	-1	11	
GEN-MW10	5/7/2018	22.1	6.94	1.8	21	57	4.0	2,149	1,500	37		0.082J														11	
GEN-MW10	8/27/2018	21.1	6.84	0.4	4	100	4.0	2,380	1,600	41		0.16														13	
GEN-MW10	11/12/2018	21.3	6.93	1.5	25	61	3.0	2,305	1,600	36		0.36														12	
GEN-MW10	2/19/2019	20.8	6.83	1.0	10	172	3.0	2,286	1,400	36	0.62	0.10J	1.6	93	34	140	190	160	68	2.8	860	<8.2	<8.2	860	0.2	12	
GEN-MW10	5/17/2019	20.5	6.87	0.9	12	58	2.0	2,683	1,800	58		0.10J														14	
GEN-MW10	8/13/2019	21.6	6.93	0.8	15	47	3.0	2,667	1,700	63		0.11J														14	
GEN-MW10	11/11/2019	21.6	6.92	1.2	20	62	4.0	2,754	1,800	72		0.20														14	
GEN-MW11s	3/24/2013	18.2	7.73	7.5	72	100	39	1,850	1,400	83		0.060														15	
GEN-MW11s	5/31/2013	19.7	7.14	0.5	5	123	14	2,327	1,600	130		0.033J														15	
GEN-MW11s	8/21/2013	20.7	6.91	0.4	5	87	8.0	2,906	2,300	160	0.33	0.063	4.7	120	180	110	260	86	220	22	650	<8.2	<8.2	650	-0.5	15	
GEN-MW11s	11/12/2013	20.6	7.08	1.1	11	127	2.0	2,478	1,900	130		0.027J														14	
GEN-MW11s	2/17/2014	18.5	6.59	0.1	2	54	11	3,250	2,400	210*		0.034J														12	H
GEN-MW11s	5/29/2014	21.2	7.01	0.9	11	163	6.0	2,897	2,300	180		0.049J														11	
GEN-MW11s	8/19/2014	27.9	7.18	1.2	14	80	13	2,302	1,700	140	0.45	0.096J	4.3	82	200	77	160	28	130	26	390	<8.2	<8.2	390	1.9	10	
GEN-MW11s	11/5/2014	20.8	6.89	0.4	5	39	4.0	2,059	1,500	130		<0.10														9	
GEN-MW11s	2/5/2015	19.6	7.02	1.0	11	128	2.0	2,136	1,600	120	0.19	<0.10	2.9	110	160	76	160	46	110	22	430	<8.2	<8.2	430	3.7	10	
GEN-MW11s	5/11/2015	20.5	6.76	0.8	14	104	5.0	2,295	1,800	160		0.065J														8	
GEN-MW11s	8/20/2015	21.3	7.18	0.7	11	60	85	1,428	910	79		0.14														7	
GEN-MW11d	11/22/2015	18.9	7.57	0.2	3	96	41	1,873	1,200	110		0.073J														20	
GEN-MW11s	2/17/2016	18.9	7.10	0.5	6	117	245	2,084	1,700	96	0.14	<0.10	2.6	100	140	72	170	56	110	33	530	<8.2	<8.2	530	-0.1	6	
GEN-MW11s	5/17/2016	20.7	6.51	1.3	14	104	5.0	1,644	1,200	110		0.11														7	
GEN-MW11s	8/16/2016	21.4	6.86	1.1	13	191	3.0	2,146	1,600	130		0.034J														8	
GEN-MW11d	12/1/2016	17.4	7.57	0.8	9	128	1.0	1,583	1,200	91		0.078J														22	
GEN-MW11s	3/13/2017	20.1	7.14	0.7	9	54	0.9	2,257	1,600	110	0.040J	0.037J	2.7	130	150	95	220	56	120	21	610	<8.2	<8.2	610	6.6	8	
GEN-MW11s	5/16/2017	19.0	6.91	1.0	11	156	12	2,080	1,500	120		0.064J														9	
GEN-MW11s	8/24/2017	20.6	6.16	0.9	11	21	12	2,095	1,700	130		0.093J														11	
GEN-MW11s	11/15/2017	20.9	6.57	0.8	9	112	2.7	2,376	1,900	150		0.065J														11	
GEN-MW11s	2/16/2018	20.2	6.63	0.6	7	157	5.5	1,900	1,600	140	0.23	0.034J	2.3	67	170	65	150	50	110	29	310	<8.2	<8.2	310	-1.8	10	
GEN-MW11s	5/8/2018	20.0	6.43	2.7	30	226	5.0	2,126	1,600	140		0.064J														11	
GEN-MW11s	8/27/2018	20.2	6.43	0.5	5	161	4.0	2,084	1,900	130		0.13														12	
GEN-MW11s	11/12/2018	20.8	6.48	1.4	24	150	3.0	1,858	1,400	110		0.39														11	
GEN-MW11s	2/19/2019	19.7	6.48	0.9	9	183	2.0	2,008	1,500	110	0.18	0.14J	3.6	63	160	67	150	67	87	38	350	<8.2	<8.2	350	0.2	12	
GEN-MW11s	5/17/2019	19.5	6.41	0.8	12	106	2.0	1,995	1,400	110		0.21														13	
GEN-MW11s	8/13/2019	20.9	6.53	3.3	41	183	10	1,473	1,100	86		0.26														14	

Table 4-6
Groundwater Quality

Well	Date	-------Field Measurements------- T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	----Alkalinity as CaCO3---- HCO3	CO3	OH	Total	CAB %	HI	Q
GEN-MW11s	11/11/2019	20.9	6.64	1.0	19	123	10	1,054	790	49		0.30														13	
GEN-MW12s	3/24/2013	20.1	8.14	6.5	71	53	7.0	1,390	1,000	60		0.025J														9	
GEN-MW12s	5/31/2013	NM	NM	NM	NM	NM	NM	NM	940	58*		0.025J															H
GEN-MW12s	8/21/2013	21.4	7.41	1.6	19	107	1.0	1,619	1,100	73	0.0023J	0.041J	<0.20	89	6.1	92	120	44	99	0.80	470	<8.2	<8.2	470	-1	9	
GEN-MW12s	11/12/2013	21.5	7.49	1.7	20	161	3.0	1,713	1,000	72		<0.050														8	
GEN-MW12s	2/17/2014	20.5	7.04	0.9	10	80	4.0	1,718	1,100	74		<0.050														6	
GEN-MW12s	5/29/2014	21.3	7.26	1.4	15	181	4.0	1,658	1,100	75		<0.10														5	
GEN-MW12s	8/19/2014	22.4	7.54	1.2	14	92	3.0	1,786	1,100	86	0.012J	0.036J	<0.20	66	5.9	110	130	49	130	0.72	400	<8.2	<8.2	400	0.8	3	
GEN-MW12s	11/5/2014	22.6	7.42	1.5	16	78	5.0	1,834	1,200	90		<0.10														2	
GEN-MW12s	2/4/2015	21.5	7.25	1.3	15	66	1.0	1,689	980	79	0.012J	0.036J	<0.20	59	5.6	120	130	44	100	0.67	420	<8.2	<8.2	420	4.6	3	
GEN-MW12s	5/11/2015	21.0	7.37	1.1	19	70	25	1,654	1,100	84		<0.10														1	
GEN-MW12d	8/20/2015	21.8	7.92	1.0	15	14	13	1,505	1,100	67		0.054J														14	
GEN-MW12d	11/22/2015	19.9	7.89	1.2	13	107	24	1,519	940	54		<0.10														13	
GEN-MW12d	2/17/2016	19.8	7.30	0.5	6	79	12	1,535	1,100	60	<0.050	<0.10	0.57	74	5.0	82	150	37	84	1.7	480	<8.2	<8.2	480	2.5	14	
GEN-MW12d	5/17/2016	20.9	7.32	1.4	15	71	5.0	1,514	990	67		<0.10														15	
GEN-MW12d	8/16/2016	19.7	7.55	2.6	29	187	31	1,521	1,000	52		<0.10														15	
GEN-MW12d	12/1/2016	19.2	7.70	1.7	19	131	1.0	1,438	980	45		<0.10														15	
GEN-MW12s	3/13/2017	20.5	7.23	2.8	31	123	2.1	1,545	1,000	59	<0.050	0.031J	0.59	64	5.2	110	110	40	100	0.76	470	<8.2	<8.2	470	1.8	2	
GEN-MW12s	5/16/2017	19.3	7.09	2.9	32	84	1.0	1,568	1,100	62		0.044J														2	
GEN-MW12s	8/24/2017	21.8	6.79	2.6	30	85	1.0	1,478	1,000	55		0.056J														3	
GEN-MW12s	11/15/2017	21.1	7.02	2.0	23	118	1.8	1,599	1,100	64		0.032J														4	
GEN-MW12s	2/16/2018	21.6	7.15	1.8	20	128	4.5	1,474	1,100	62	0.026J	<0.10	<0.20	72	8.2	99	110	44	100	0.61	460	<8.2	<8.2	460	0	3	
GEN-MW12s	5/7/2018	21.5	7.10	2.4	28	132	4.0	1,676	1,200	73		<0.10														3	
GEN-MW12s	8/27/2018	20.7	6.95	2.0	20	130	3.0	1,897	1,400	120		0.060J														4	
GEN-MW12s	11/12/2018	21.9	7.09	2.7	37	91	4.0	1,379	980	58		0.24														4	
GEN-MW12s	2/19/2019	21.4	6.90	0.9	9	196	2.0	1,533	1,000	70	<0.050	0.057J	0.78	66	5.7	99	97	33	81	0.57	410	<8.2	<8.2	410	0.6	4	
GEN-MW12s	5/17/2019	20.5	7.06	1.6	22	62	2.0	1,422	980	57		<0.2														6	
GEN-MW12s	8/13/2019	22.6	7.13	2.0	25	119	1.0	1,342	950	59		<0.2														6	
GEN-MW12s	11/11/2019	21.6	7.16	2.1	30	105	3.0	1,257	900	47		0.15J														6	
TRO-MW1	1/11/2006									10.2											390	<1					
TRO-MW1	6/28/2006									9.4											390	<1					
TRO-MW1	9/26/2006									12.9											400						
TRO-MW1	3/19/2013	21.4	7.65	5.4	61	93	212	880	620	11		<0.050														9	
TRO-MW1	5/31/2013	19.8	7.30	4.0	39	127	156	957	680	10		<0.050														7	
TRO-MW1	8/20/2013	19.3	7.53	3.9	39	120	121	965	660	8.1	0.012J	0.029J	0.23	42	3.9	34	150	78	35	0.58	440	<8.2	<8.2	440	-0.5	6	
TRO-MW1	11/11/2013	20.9	7.66	5.9	67	141	350	1,160	730	6.9		<0.050														5	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
TRO-MW1	2/20/2014	17.0	7.09	5.0	53	103	430	1,248	720	7.6		0.046J														5	P
TRO-MW1	5/20/2014	*Well Dry*																									
TRO-MW1	8/24/2014	*Well Dry*																									
TRO-MW1	11/11/2014	*Well Dry*																									
TRO-MW1	2/12/2015	*Well Dry*																									
TRO-MW1	5/14/2015	*Well Dry*																									
TRO-MW1	8/17/2015	*Well Dry*																									
TRO-MW1	11/13/2015	*Well Dry*																									
TRO-MW1	3/1/2016	*Well Dry*																									
TRO-MW1	5/24/2016	*Well Dry*																									
TRO-MW1	8/24/2016	*Well Dry*																									
TRO-MW1	11/15/2016	*Well Dry*																									
TRO-MW1	3/23/2017	*Well Dry*																									
TRO-MW1	5/15/2017	*Well Dry*																									
TRO-MW1	8/28/2017	23.6	7.33	5.8	60	114	253	1,585	920	9.8		0.028J														7	PD
TRO-MW1	12/4/2017	18.3	6.69	7.3	71	240	54.82	1,048	660	13		0.054J														11	
TRO-MW1	2/27/2018	17.7	7.66	5.6	61	275	126	1,049	560	12	<0.050	0.047J	0.61	50	3.2	30	130	92	23	4.7	380	<8.2	<8.2	380	-2	11	D
TRO-MW1	5/8/2018	19.5	6.99	4.7	60	275	33	1,154	690	15		0.050J														10	
TRO-MW1	8/20/2018	20.8	7.16	5.8	64	144	148	1,188	740	11		0.12														10	
TRO-MW1	11/12/2018	20.0	7.04	6.8	79	205	946	1,160	700	12		0.093J														10	
TRO-MW1	2/22/2019	18.7	7.02	4.4	47	248	1828	1,192	740	13	<0.050	0.085J	0.70	53	3.8	36	150	97	22	5.5	420	<4.1	<4.1	420	0.6	10	
TRO-MW1	5/20/2019	20.7	7.00	3.3	40	226	311	1,161	640	13		<0.2														9	
TRO-MW1	8/8/2019	19.4	7.11	5.3	59	281	85	1,037	640	17		<0.2														12	
TRO-MW1	11/18/2019	19.1	7.19	4.6	51	211	758	1,005	560	20		<0.20														17	
TRO-MW2	1/11/2006									40.4											370	<1					
TRO-MW2	6/28/2006									44											390	<1					
TRO-MW2	9/26/2006									54.8											330						
TRO-MW2	3/19/2013	22.3	7.33	4.1	47	105	44	1,282	960	54		<0.050														17	
TRO-MW2	5/31/2013	20.1	7.22	2.9	32	144	56	1,337	920	50		<0.050														13	
TRO-MW2	8/20/2013	23.4	6.63	4.7	47	161	14	1,499	1,300	83	0.0092J	0.029J	0.55	63	3.3	41	180	110	45	0.28	280	<8.2	<8.2	280	-1.3	15	
TRO-MW2	11/11/2013	20.1	7.11	3.2	34	153	13	1,230	780	67		<0.050														17	
TRO-MW2	2/20/2014	19.8	6.98	1.7	19	100	5.0	1,370	920	56		0.026J														12	
TRO-MW2	5/20/2014	20.1	6.87	3.2	36	90	5.0	1,376	1,100	59		<0.10														8	
TRO-MW2	8/24/2014	21.1	7.11	2.7	29	200	7.0	1,646	1,100	76	<0.050	<0.10	0.66	67	3.4	44	190	110	49	<0.15	310	<8.2	<8.2	310	1.1	12	
TRO-MW2	11/11/2014	19.6	6.98	2.4	28	132	8.0	1,540	1,100	72		<0.10														14	
TRO-MW2	2/12/2015	19.3	6.81	2.7	31	109	1.0	1,343	980	66	<0.050	<0.10	0.44	67	4.9	37	170	84	32	<0.15	260	<8.2	<8.2	260	5.9	9	
TRO-MW2	5/14/2015	18.8	7.38	2.4	42	131	4.2	1,410	1,000	69		<0.10														9	
TRO-MW2	8/17/2015	21.3	6.82	2.6	29	126	8.0	1,493	1,100	72		<0.10														14	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
TRO-MW2	11/13/2015	18.8	7.34	3.3	36	177	12	1,495	1,100	79		<0.10														14	
TRO-MW2	3/1/2016	20.9	7.31	1.6	18	138	28	1,388	1,000	70	<0.050	0.041J	<0.20	60	4.3	35	170	92	28	0.061J	250	<8.2	<8.2	250	3.3	11	
TRO-MW2	5/24/2016	20.3	6.77	1.2	14	217	NM	1,426	900	64		<0.10														10	
TRO-MW2	8/24/2016	21.9	7.00	3.3	37	192	339	1,636	1,200	85		0.035J														20	
TRO-MW2	11/15/2016	19.1	6.81	3.1	37	200	357	1,543	1,200	80		0.047J														17	
TRO-MW2	3/23/2017	19.6	6.63	2.2	25	219	10.0	1,511	1,200	86	<0.050	0.078J	0.36	66	4.8	43	210	120	39	0.16	240	<8.2	<8.2	240	5.8	14	
TRO-MW2	5/15/2017	19.3	6.90	3.6	40	115	85.1	1,527	1,300	87		0.032J														16	
TRO-MW2	8/28/2017	21.5	6.93	3.1	40	119	105	1,589	1,400	79		0.030J														26	
TRO-MW2	12/4/2017	19.2	6.90	6.2	64	209	12.69	1,552	1,300	92		0.047J														22	
TRO-MW2	2/27/2018	18.5	6.97	1.8	20	287	118	1,576	1,200	85	<0.050	0.021J	0.36	58	3.7	36	180	120	30	0.37	270	<8.2	<8.2	270	-3.1	18	
TRO-MW2	5/8/2018	21.5	6.76	2.7	32	194	11	1,589	1,400	88		0.041J														17	
TRO-MW2	8/20/2018	20.7	7.12	2.9	33	139	36	1,714	1,400	82		0.11														24	
TRO-MW2	11/12/2018	19.8	6.63	3.7	47	160	40.5	1,814	1,400	97		0.12														21	
TRO-MW2	2/22/2019	19.7	6.78	2.0	22	220	130	1,795	1,400	94	<0.050	0.10J	0.10J	66	4.5	43	220	130	29	0.37	280	<8.2	<8.2	280	2.7	18	
TRO-MW2	5/20/2019	20.1	6.83	1.5	18	220	47	1,671	1,300	89		<0.2														18	
TRO-MW2	8/8/2019	20.1	6.79	2.1	24	254	69	1,663	1,400	90		0.083J														26	
TRO-MW2	11/18/2019	20.1	6.84	1.5	17	189	167	1,682	1,300	90		0.084J														28	
TRO-MW3	1/11/2006									32.1											290	<1					
TRO-MW3	6/28/2006									16.9											220	<1					
TRO-MW3	9/26/2006									26.1											240						
TRO-MW3	3/19/2013	21.1	7.89	6.2	70	102	90	748	520	17		<0.050														29	
TRO-MW3	5/31/2013	19.9	7.31	4.8	51	163	65	787	530	17		<0.050														25	
TRO-MW3	8/20/2013	22.0	6.71	5.1	59	153	46	756	490	16	0.0087J	0.029J	0.12J	37	4.2	19	90	58	13	0.90	250	<4.1	<4.1	250	-1.9	28	
TRO-MW3	11/11/2013	19.7	7.62	5.0	54	138	46	798	510	16		<0.050														27	
TRO-MW3	2/20/2014	18.8	7.26	5.6	60	94	24	860	540	17		0.034J														24	
TRO-MW3	5/20/2014	19.0	7.39	5.4	60	74	36	835	490	17		<0.10														21	
TRO-MW3	8/24/2014	22.4	7.29	5.4	60	197	15	790	440	16	<0.050	<0.10	<1.0	33	4.4	20	90	51	13	<0.75	240	<4.1	<4.1	240	0.2	23	
TRO-MW3	11/11/2014	18.3	7.50	4.2	54	142	12.5	789	490	17		<0.10														25	
TRO-MW3	2/12/2015	18.6	7.40	2.9	31	92	2.0	815	530	19	<0.050	<0.10	0.19J	40	5.0	24	110	55	13	0.37	250	<4.1	<4.1	250	6.5	21	
TRO-MW3	5/14/2015	18.5	8.34	3.3	55	96	3.1	849	610	20		<0.10														20	
TRO-MW3	8/17/2015	20.6	7.02	5.6	63	173	12	765	480	19		0.027J														24	
TRO-MW3	11/13/2015	18.1	8.14	6.4	65	153	34	856	560	22		0.097J														25	
TRO-MW3	3/1/2016	20.4	7.45	3.3	37	155	15	855	500	23	<0.050	0.084J	<0.20	37	4.7	23	100	62	14	0.19	250	<4.1	<4.1	250	-0.4	22	
TRO-MW3	5/24/2016	19.7	7.20	3.6	40	225	26	875	480	22		<0.10														20	
TRO-MW3	8/24/2016	22.3	7.23	3.5	41	195	254	1,789	1,200	79		0.026J														28	
TRO-MW3	11/15/2016	18.4	7.12	3.5	40	183	27	1,643	1,100	68		0.036J														27	
TRO-MW3	3/23/2017	18.5	7.27	5.4	60	234	15.69	995	590	31	<0.050	0.025J	0.10J	47	5.5	29	130	86	16	0.26	260	<8.2	<8.2	260	4.2	24	
TRO-MW3	5/15/2017	18.9	7.55	5.7	62	104	39.6	954	670	29		0.028J														26	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
TRO-MW3	8/28/2017	21.8	7.18	4.4	48	100	68	1,837	1,300	83		0.040J														35	
TRO-MW3	12/4/2017	18.8	7.10	7.1	70	224	14.21	1,612	1,200	76		0.054J														33	
TRO-MW3	2/27/2018	18.9	7.24	4.8	52	283	149	1,219	740	45	<0.050	<0.10	0.21	51	5.5	31	150	99	18	0.72	290	<8.2	<8.2	290	0.8	31	
TRO-MW3	5/8/2018	19.8	7.36	4.8	61	252	10	1,098	740	36		0.034J														29	
TRO-MW3	8/20/2018	20.2	7.42	5.7	66	146	28	1,120	780	36		0.085J														33	
TRO-MW3	11/12/2018	19.4	7.20	6.1	62	185	39	1,239	790	44		0.083J														33	
TRO-MW3	2/22/2019	19.1	7.43	4.9	53	228	37	1,036	610	30	<0.050	0.080J	0.18J	40	5.1	26	130	73	15	0.24	260	<4.1	<4.1	260	3.9	30	
TRO-MW3	5/20/2019	19.6	7.42	4.1	50	247	26	993	660	33		<0.2														29	
TRO-MW3	8/8/2019	19.8	7.43	5.1	53	268	41	959	620	32		<0.2														37	
TRO-MW3	11/18/2019	19.5	7.40	4.2	46	196	61	1,199	770	43		<0.20														40	
PLS-MW1s	2/8/2012	19.2	7.02	1.5		164	79	2,817	2,000	120		0.040J														6	
PLS-MW1d	5/10/2012	17.7	6.62	0.2		194	32	2,041	1,400	62	<0.05*	<0.05	1.0*	190	3.6	75	150	180	130	0.44*	440*	<8.2*	<8.2*	440	2.3	19	H
PLS-MW1s	8/15/2012	20.8	7.04	0.9		110	10	2,064	1,500	68	0.27	0.035J	1.1	210	4.3	78	180	210	180	0.17	490	<8.2	<8.2	490	0.6	7	
PLS-MW1s	12/11/2012	17.9	6.62	1.1		235	164	2,355	1,600	83		0.037J														4	
PLS-MW1d	3/21/2013	17.1	7.20	0.5	5	200	1.5	1,972	1,400	61		0.045J														16	
PLS-MW1d	5/29/2013	18.5	6.99	2.6	28	184	1.0	2,078	1,400	64		0.022J														16	
PLS-MW1s	8/26/2013	21.2	6.92	0.8	9	171	17	1,956	1,300	57	0.17	0.055	1.2	190	3.4	73	160	180	150	0.41	470	<8.2	<8.2	470	1.5	6	
PLS-MW1s	11/15/2013	20.4	6.76	0.9	10	241	12	2,209	1,400	63		0.029J														4	
PLS-MW1d	2/24/2014	19.3	7.03	0.6	6	155	2.0	1,952	1,200	51		0.022J														14	
PLS-MW1d	5/22/2014	19.8	7.15	1.0	8	137	2.0	1,792	1,200	48		0.038J														13	
PLS-MW1d	8/26/2014	19.3	7.16	0.5	5	178	4.0	1,756	1,000	47	0.22	0.039J	1.2	180	3.1	58	120	120	96	0.36	410	<8.2	<8.2	410	4.8	15	
PLS-MW1d	11/10/2014	19.7	7.07	4.1	44	136	1.0	1,774	1,200	47		0.041J														14	
PLS-MW1d	2/6/2015	19.1	7.07	1.0	12	75	2.5	1,742	1,100	51	0.15	<0.1	1	180	3.3	70	140	150	100	0.49	420	<8.2	<8.2	420	5.8	15	
PLS-MW1d	5/14/2015	18.4	7.13	1.6	18	115	3.0	1,765	1,200	51		0.036J														12	
PLS-MW1d	8/18/2015	20.6	7.00	0.6	7	100	17	1,798	1,100	52		<0.10														14	
PLS-MW1d	11/17/2015	18.9	6.62	0.6	7	148	5.0	1,937	1,200	54		0.050J														13	
PLS-MW1d	2/22/2016	18.7	7.11	0.6	6	140	3.0	1,940	1,200	52	0.21	0.030J	1.3	190	3.5	70	150	180	110	0.50	410	<8.2	<8.2	410	5.6	13	
PLS-MW1d	5/19/2016	20.3	6.94	0.4	6	89	2.0	1,917	1,200	56		0.072J														13	
PLS-MW1s	8/18/2016	23.8	6.94	1.6	20	130	159	1,818	1,200	54		0.041J														1	
PLS-MW1d	11/21/2016	18.6	7.10	0.8	8	187	2.0	1,770	1,100	53		0.030J														15	
PLS-MW1s	3/15/2017	19.7	6.98	1.1	14	166	28.3	2,415	1,700	98	0.028J	0.064J	1.2	190	2.7	88	220	200	170	0.61	430	<8.2	<8.2	430	3.4	4	
PLS-MW1s	5/18/2017	19.7	6.90	1.0	12	146	25.4	2,171	1,600	110		0.10														5	
PLS-MW1s	8/29/2017	21.6	6.70	0.5	6	139	12	2,799	1,900	140		0.050J														9	
PLS-MW1s	11/27/2017	20.9	7.07	0.6	7	194	12.12	2,485	1,700	120		0.34														7	
PLS-MW1s	2/22/2018	19.1	7.22	0.9	11	256	12.33	2,649	1,900	130	0.042J	0.038J	1.3	190	2.9	88	220	200	230	0.26	390	<8.2	<8.2	390	-1.8	5	
PLS-MW1s	5/10/2018	20.8	6.69	1.1	13	190	12	2,630	1,900	120		0.049J														5	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
PLS-MW1s	8/24/2018	20.7	6.71	0.5	5	262	7.0	2,563	1,800	110		0.034J														7	
PLS-MW1s	11/13/2018	21.8	6.65	0.9	10	227	3.0	2,510	1,500	110		0.21														6	
PLS-MW1s	2/21/2019	18.4	7.12	1.0	11	234	14	2,313	1,200	82	0.087	0.14J	1.7	190	2.8	74	190	210	130	0.37	410	<8.2	<8.2	410	2.6	7	
PLS-MW1s	5/21/2019	18.7	7.18	2.2	34	136	11	2,504	1,500	83		0.20														7	
PLS-MW1s	8/23/2019	23.2	6.88	1.0	9	277	14	2,181	1,500	78		0.081J														9	
PLS-MW1s	11/12/2019	21.9	6.83	1.3	14	290	3.0	2,072	1,400	76		0.088J														7	
PLS-MW2s	2/8/2012	17.5	6.90	1.8		170	766	2,365	1,600	66		<0.05														7	
PLS-MW2s	5/10/2012	17.7	6.99	6.5		223	190	2,413	1,600	67	0.024J*	<0.05	1.2*	200	2.5	94	210	240	160	2.3*	550*	<8.2*	<8.2*	550	1.9	6	H
PLS-MW2s	8/15/2012	20.3	7.06	4.1		113	480	2,324	1,700	71	0.17	0.049J	1.1	210	2.2	97	210	270	190	0.16	570	<8.2	<8.2	570	-0.7	8	
PLS-MW2s	12/11/2012	18.9	6.49	0.8		235	469	2,353	1,600	68		0.029J														5	
PLS-MW2d	3/21/2013	18.3	6.99	0.7	7	211	2.0	2,061	1,600	75		0.045J														17	
PLS-MW2s	5/29/2013	18.6	6.94	0.7	7	187	9.0	2,548	1,700	64		<0.050														4	
PLS-MW2s	8/26/2013	22.1	6.87	0.7	8	170	7.0	2,196	1,400	60	0.063	0.050	1.2	170	1.8	91	210	220	180	0.64	510	<8.2	<8.2	510	1.9	7	
PLS-MW2s	11/15/2013	20.6	6.55	0.9	10	253	8.0	2,023	1,400	57		0.021J														5	
PLS-MW2d	2/24/2014	20.2	7.03	1.2	13	130	2.0	2,026	1,300	58		0.022J														15	
PLS-MW2d	5/22/2014	20.0	7.02	1.5	16	141	2.0	1,951	1,400	59		0.040J														14	
PLS-MW2d	8/26/2014	18.4	7.14	0.8	9	184	8.0	2,110	1,400	55	0.27	0.063J	1.6	220	3.7	71	140	160	130	0.85	490	<8.2	<8.2	490	3.5	16	
PLS-MW2s	11/10/2014	20.2	6.95	2.5	27	145	955	2,104	1,400	39		0.039J														2	
PLS-MW2d	2/6/2015	19.5	6.91	0.8	8	79	7.0	1,902	1,200	55	0.2	<0.1	1.2	200	3.9	77	140	160	120	0.55	460	<8.2	<8.2	460	4.6	15	
PLS-MW2d	5/14/2015	18.0	7.20	2.6	28	100	15	1,855	1,300	57		0.030J														13	
PLS-MW2d	8/18/2015	19.9	6.95	0.4	4	101	8.0	1,872	1,200	52		<0.10														15	
PLS-MW2d	11/17/2015	18.9	6.46	0.6	8	144	6.0	1,979	1,200	55		0.056J														14	
PLS-MW2d	2/22/2016	19.1	7.08	0.6	7	142	3.0	1,946	1,200	53	0.22	0.039J	1.3	200	3.9	68	130	170	120	0.55	440	<8.2	<8.2	440	2.4	14	
PLS-MW2d	5/19/2016	20.4	6.86	0.3	6	93	1.0	1,998	1,300	56		0.075J														13	
PLS-MW2s	8/18/2016	21.2	7.05	1.5	18	130	26	2,233	1,400	68		0.035J														2	
PLS-MW2d	11/21/2016	18.9	7.13	0.5	5	179	4.0	1,915	1,100	59		0.029J														16	
PLS-MW2s	3/15/2017	19.7	7.13	1.7	20	175	3.9	1,524	1,100	43	<0.050	0.044J	1.4	140	1.2	61	140	120	62	0.19	440	<8.2	<8.2	440	4.6	4	
PLS-MW2s	5/18/2017	19.8	6.87	1.3	15	159	7.1	2,116	1,300	73		0.10														6	
PLS-MW2s	8/29/2017	21.1	6.70	1.2	15	150	13	2,351	1,500	73		0.047J														10	
PLS-MW2s	11/27/2017	20.9	7.05	0.8	9	192	5.5	2,468	1,600	44		0.051J														8	
PLS-MW2s	2/22/2018	19.1	7.39	0.9	11	253	9.6	2,012	1,300	37	0.023J	0.042J	1.3	200	1.6	66	150	190	81	0.24	650	<8.2	<8.2	650	-2.3	6	
PLS-MW2s	5/10/2018	19.9	6.71	1.2	14	196	8.0	2,579	1,800	68		0.058J														5	
PLS-MW2s	8/24/2018	21.0	6.78	0.5	5	262	4.0	2,746	1,700	48		0.053J														8	
PLS-MW2s	11/13/2018	20.9	6.69	0.9	11	226	2.0	2,370	1,400	33		0.28														7	
PLS-MW2s	2/21/2019	18.3	7.27	1.4	15	228	1.0	1,690	1,000	44	0.15	0.17J	1.7	150	1.4	56	150	110	66	0.20	500	<8.2	<8.2	500	2.8	7	
PLS-MW2s	5/21/2019	21.1	7.07	2.3	32	114	3.0	3,300	2,100	89		0.22														8	
PLS-MW2s	8/23/2019	21.4	6.87	1.1	13	272	2.0	2,867	1,900	99		0.2														10	
PLS-MW2s	11/12/2019	20.7	6.77	0.8	10	253	1.0	2,417	1,500	66		0.084J														8	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																		----Alkalinity as CaCO3----						
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
PLS-MW3s	2/8/2012	18.8	7.01	1.1		126	20	1,353	920	34		0.040J														6	
PLS-MW3s	5/10/2012	17.8	6.85	3.2		234	160	1,389	940	38	<0.05*	<0.05	1.4*	66	3.3	46	190	57	65	0.98*	440*	<8.2*	<8.2*	440	5.6	4	H
PLS-MW3s	8/15/2012	20.3	7.18	2.6		102	123	1,219	910	40*	0.025J	0.044J	1.4	63	3.2	43	160	55	63	0.27	430	<8.2	<8.2	430	0.1	6	H
PLS-MW3s	12/11/2012	19.9	6.06	1.0		276	14	1,322	890	41		0.030J														4	
PLS-MW3d	3/21/2013	17.6	7.18	0.8	9	213	3.2	1,328	980	49		0.048J														16	
PLS-MW3s	5/29/2013	19.4	6.91	0.7	8	193	5.0	1,506	990	2.7		0.033J														3	
PLS-MW3s	8/26/2013	21.3	6.94	0.5	5	181	2.0	1,435	880	52	0.020J	0.056	1.6	57	3.3	48	200	55	72	0.30	450	<8.2	<8.2	450	2.3	5	
PLS-MW3s	11/15/2013	21.3	6.54	1.0	11	263	1.0	1,495	920	54		0.031J														4	
PLS-MW3d	2/24/2014	20.0	6.91	1.3	14	185	1.0	1,698	1,000	56		0.030J														14	
PLS-MW3d	5/22/2014	20.6	7.12	0.6	6	142	2.0	1,610	1,100	57		0.036J														13	
PLS-MW3d	8/26/2014	19.7	6.67	0.3	4	196	4.0	1,685	1,100	58	0.018J	<0.10	1.9	68	4.0	54	210	75	79	<0.15	440	<8.2	<8.2	440	3.7	15	
PLS-MW3d	11/10/2014	21.0	6.98	4.5	52	154	1.0	1,783	1,200	61		0.050J														14	
PLS-MW3d	2/6/2015	19.6	7.00	2.0	23	97	1.8	1,623	1,000	61	0.024J	0.037J	1.7	77	4.4	58	230	98	83	0.18	430	<8.2	<8.2	430	6.1	14	
PLS-MW3d	5/14/2015	19.8	7.20	1.7	19	140	4.0	1,622	1,100	58		0.030J														12	
PLS-MW3d	8/18/2015	21.8	7.20	0.5	7	147	5.0	1,663	960	58		0.029J														13	
PLS-MW3d	11/17/2015	19.6	6.39	0.5	6	164	5.0	1,753	1,100	56		0.074J														13	
PLS-MW3d	2/22/2016	19.7	7.16	0.6	7	151	41	1,702	1,000	55	0.022J	0.043J	1.5	74	4.6	59	210	110	71	0.45	440	<8.2	<8.2	440	3.8	12	
PLS-MW3d	5/19/2016	20.4	7.00	0.4	7	97	3.0	1,708	1,100	56		0.071J														12	
PLS-MW3s	8/18/2016	21.1	7.22	2.4	27	135	31	1,790	1,100	57		0.051J														2	
PLS-MW3d	11/21/2016	19.3	7.20	0.6	7	205	2.0	2,043	1,100	56		0.032J														13	
PLS-MW3s	3/16/2017	19.0	6.99	1.2	14	211	2.1	2,350	1,600	67	0.62	0.043J	0.54	120	4.4	73	330	250	160	0.15	500	<8.2	<8.2	500	4.9	3	
PLS-MW3s	5/18/2017	20.4	6.99	0.6	8	143	4.1	2,310	1,500	71		0.15														5	
PLS-MW3s	8/28/2017	21.6	7.55	0.7	8	112	5.0	2,878	2,000	62		0.13														9	
PLS-MW3s	11/27/2017	20.9	7.30	0.5	6	215	2.3	3,017	2,000	66		0.057J														7	
PLS-MW3s	2/22/2018	19.5	7.28	1.0	11	260	4.9	3,075	2,100	80	0.46	0.065J	2.0	230	4.1	79	320	350	240	0.30	640	<8.2	<8.2	640	-1.3	5	
PLS-MW3s	5/10/2018	20.2	6.84	1.0	12	226	6.0	2,136	1,500	47		0.068J														5	
PLS-MW3s	8/24/2018	21.3	7.11	0.6	6	255	4.0	2,202	1,500	31		0.074J														8	
PLS-MW3s	11/13/2018	21.4	7.00	0.8	10	230	2.0	2,090	1,400	24		0.26														6	
PLS-MW3s	2/21/2019	18.9	7.18	1.1	13	240	3.0	2,014	1,100	50	0.11	0.17J	1.8	170	2.6	52	180	140	120	0.35	560	<8.2	<8.2	560	-1.2	7	
PLS-MW3s	5/21/2019	18.8	7.06	2.3	34	127	4.0	1,952	1,300	45		0.24														7	
PLS-MW3s	8/23/2019	21.4	7.02	1.1	12	285	1.0	1,817	1,200	65		0.095J														9	
PLS-MW3s	11/12/2019	23.4	6.89	0.6	3	280	1.0	1,726	1,200	58		0.081J														7	
PLS-MW4s	2/8/2012	19.0	7.02	1.7		151	17	5,230	3,800	120		11														12	
PLS-MW4s	5/10/2012	18.6	6.62	1.4		192	32	5,612	3,900	140	12*	12	14*	410	500	150	310	700	310	0.36J*	960*	<8.2*	<8.2*	960	2.6	12	H
PLS-MW4s	8/15/2012	20.9	7.01	1.0		114	22	5,055	4,000	140*	<0.05	9.6	12	410	470	140	310	690	320	0.23	1,100	<8.2	<8.2	1,100	-0.5	14	H
PLS-MW4s	12/11/2012	19.8	6.30	0.7		254	24	5,346	3,800	150		8.5														11	
PLS-MW4s	3/21/2013	18.0	7.04	0.6	6	234	25.2	4,569	3,400	120		9.1														9	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----				
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
PLS-MW4s	5/29/2013	20.8	7.21	0.5	5	186	4.0	4,872	3,200	95		8.4														9	
PLS-MW4s	8/26/2013	21.0	6.86	0.5	6	176	3.0	4,414	2,800	88	0.0079J	4.4	7.4	360	290	120	300	600	270	0.38	1,000	<8.2	<8.2	1,000	-0.6	12	
PLS-MW4s	11/15/2013	20.5	6.85	0.4	5	95	22	4,212	2,900	80		7.7														10	
PLS-MW4s	2/24/2014	23.0	7.01	0.5	5	138	8.0	4,221	2,700	73		6.0														7	
PLS-MW4s	5/22/2014	21.0	7.02	0.9	11	148	4.0	4,465	3,100	85		5.1														7	
PLS-MW4s	8/26/2014	24.1	7.02	0.7	8	178	5.0	4,413	2,700	73	<0.050	2.2	4.7	360	230	120	300	570	250	0.26	970	<8.2	<8.2	970	0.7	8	
PLS-MW4s	11/10/2014	22.3	6.99	3.6	43	142	7.0	4,267	2,700	74		2.5														8	
PLS-MW4s	2/6/2015	20.8	6.93	0.9	11	85	2.0	3,989	2,500	88	<0.05	2.2	5	350	280	120	290	510	210	0.42	930	<8.2	<8.2	930	3.6	8	
PLS-MW4s	5/14/2015	20.9	7.05	1.5	16	135	4.0	4,058	2,700	71		2.0														6	
PLS-MW4s	8/18/2015	22.4	7.11	1.4	16	137	4.0	3,707	2,400	57		1.4														7	
PLS-MW4s	11/17/2015	20.5	6.41	0.8	9	148	19	3,876	2,300	56		0.89														7	
PLS-MW4s	2/22/2016	20.6	7.03	0.4	5	157	17	3,862	2,200	53	0.048J	0.82	3.5	350	190	100	280	480	210	0.57	960	<8.2	<8.2	960	1.7	6	
PLS-MW4s	5/19/2016	21.8	6.81	0.3	6	94	2.0	3,819	2,500	54		0.84														6	
PLS-MW4s	8/18/2016	22.0	6.91	2.4	27	134	7.0	3,433	2,200	40		0.23														8	
PLS-MW4s	11/21/2016	21.9	7.02	0.7	8	175	3.0	3,312	1,900	38		0.27														8	
PLS-MW4s	3/15/2017	20.4	7.07	0.6	8	165	1.2	3,151	2,000	35	0.088	0.19	2.5	290	130	97	270	390	180	0.53	870	<8.2	<8.2	870	3.8	10	
PLS-MW4s	5/18/2017	20.4	7.04	0.7	7	174	3.9	2,837	1,800	34		0.25														11	
PLS-MW4s	8/28/2017	21.7	6.98	0.5	6	114	2.0	2,352	1,600	34		0.27														15	
PLS-MW4s	11/27/2017	21.5	7.01	0.6	8	205	2.1	3,455	2,200	51		0.14														13	
PLS-MW4s	2/22/2018	19.9	7.24	0.7	8	261	4.6	4,037	2,600	38	0.047J	0.22	2.8	290	320	94	230	600	200	0.50	940	<8.2	<8.2	940	-3.1	11	
PLS-MW4s	5/10/2018	20.9	6.81	0.7	9	204	8.0	4,025	2,700	35		0.14														11	
PLS-MW4s	8/24/2018	21.7	6.83	0.5	5	265	5.0	3,622	2,200	29		0.11														14	
PLS-MW4s	11/13/2018	22.0	6.77	0.8	10	237	2.0	4,477	2,500	37		0.33														12	
PLS-MW4s	2/21/2019	19.6	7.07	1.0	11	243	2.0	4,561	2,300	27	0.084	0.42	2.9	290	530	95	220	680	200	0.47	1,100	<8.2	<8.2	1,100	-2.5	13	
PLS-MW4s	5/21/2019	20.4	7.03	2.8	39	103	2.0	4,460	2,800	32		0.31														14	
PLS-MW4s	8/23/2019	21.9	6.92	1.0	11	311	1.0	3,746	2,300	30		0.17J														16	
PLS-MW4s	11/12/2019	22.2	6.83	0.7	6	315	1.0	4,627	2,800	45		0.15J														13	
PLS-MW5s	2/8/2012	20.1	6.98	1.5		161	>1,000	1,931	1,300	76		0.047J														6	
PLS-MW5s	5/10/2012	19.0	6.90	6.4		241	743	1,814	1,200	69	<0.05*	0.058	1.5*	130	5.7	60	170	150	51	6.0*	400*	<8.2*	<8.2*	400	2.2	5	H
PLS-MW5s	8/15/2012	20.6	7.09	5.0		106	76	1,642	1,200	74*	0.40	0.038J	1.6	130	4.8	55	160	150	54	0.27	380	<8.2	<8.2	380	0	7	H
PLS-MW5s	12/11/2012	20.7	6.55	0.5		233	564	1,991	1,300	55		0.042J														4	
PLS-MW5d	3/21/2013	19.1	6.99	0.5	6	214	1.6	1,542	1,200	89		0.12														16	
PLS-MW5s	5/29/2013	20.2	7.07	0.3	4	186	28	2,012	1,300	63		0.035J														2	
PLS-MW5s	8/26/2013	21.7	6.52	0.6	6	240	5.0	1,887	1,300	80	0.47	0.066	1.6	130	4.7	60	180	200	84	0.35	170	<8.2	<8.2	170	8.7	5	
PLS-MW5s	11/15/2013	21.3	6.79	0.4	4	107	46	2,020	1,400	78		0.033J														3	
PLS-MW5d	2/24/2014	21.6	6.95	1.0	12	170	1.0	2,159	1,400	72		0.043J														13	
PLS-MW5d	5/22/2014	21.6	7.18	0.6	8	142	2.0	2,052	1,500	68		0.039J														13	
PLS-MW5d	8/26/2014	21.0	6.99	0.7	7	190	4.0	1,985	1,300	75	0.75	0.039J	1.0	99	5.4	69	210	160	62	0.51	420	<8.2	<8.2	420	2.4	14	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
PLS-MW5d	11/10/2014	21.3	7.04	3.9	45	147	1.0	2,025	1,400	69		0.17														14	
PLS-MW5d	2/6/2015	21.3	7.03	2.0	23	85	1.0	1,902	1,100	57	0.66	0.041J	1.5	110	6.1	77	220	190	89	0.44	450	<8.2	<8.2	450	4.5	14	
PLS-MW5d	5/14/2015	20.5	7.30	1.6	18	130	3.0	1,933	1,300	41		0.035J														12	
PLS-MW5d	8/18/2015	22.7	7.30	1.5	17	113	2.0	1,874	1,200	33		0.041J														13	
PLS-MW5d	11/17/2015	20.8	6.49	0.7	9	147	6.0	2,215	1,300	30		0.086J														13	
PLS-MW5d	2/22/2016	21.4	7.16	0.7	8	133	8.0	2,144	1,200	30	0.67	0.028J	1.6	180	6.6	67	200	250	100	0.51	560	<8.2	<8.2	560	2.1	12	
PLS-MW5d	5/19/2016	21.5	7.14	3.4	38	176	4.0	2,134	1,400	33		0.064J														12	
PLS-MW5s	8/18/2016	22.6	7.48	1.7	20	117	140	1,885	1,200	32		0.042J														2	
PLS-MW5d	11/21/2016	21.3	7.04	0.5	6	191	2.0	1,671	900	57		0.026J														14	
PLS-MW5s	3/15/2017	22.4	7.12	0.8	12	186	9.3	1,685	1,200	51	0.31	0.052J	1.3	140	5.9	57	180	140	76	0.56	440	<8.2	<8.2	440	5	3	
PLS-MW5s	5/18/2017	21.2	6.95	0.6	7	160	16.88	1,779	1,200	28		0.13														4	
PLS-MW5s	8/29/2017	22.5	6.61	0.4	6	145	9.0	2,083	1,200	69		0.051J														9	
PLS-MW5s	11/27/2017	22.2	7.01	0.6	7	207	7.1	2,320	1,500	85		0.030J														7	
PLS-MW5s	2/22/2018	20.6	7.19	1.1	12	258	8.9	2,402	1,600	89	0.022J	0.072J	0.77	220	8.7	66	200	200	110	0.21	530	<8.2	<8.2	530	0.6	4	
PLS-MW5s	5/10/2018	21.2	6.64	1.7	20	192	8.0	1,922	1,400	86		0.049J														4	
PLS-MW5s	8/24/2018	21.7	6.62	0.8	8	247	8.0	1,667	1,200	65		0.038J														7	
PLS-MW5s	11/13/2018	23.1	6.54	0.9	11	232	4.0	1,652	1,200	72		0.25														6	
PLS-MW5s	2/21/2019	20.6	6.89	1.0	12	230	5.0	1,798	1,200	72	0.15	0.18J	1.2	130	16	49	160	140	64	1.3	380	<8.2	<8.2	380	0.1	6	
PLS-MW5s	5/21/2019	21.0	7.12	2.3	33	127	5.0	1,737	1,200	71		0.18J														6	
PLS-MW5s	8/23/2019	22.8	6.77	0.9	8	282	4.0	1,976	1,400	84		0.095J														9	
PLS-MW5s	11/12/2019	23.1	6.67	0.6	3	275	2.0	1,711	1,200	78		0.078J														7	
PLS-MW6s	2/8/2012	18.8	7.65	1.2		130	52	2,251	1,600	52		<0.05														14	
PLS-MW6s	5/10/2012	18.1	7.22	2.2		165	21	2,300	1,500	52	<0.05*	<0.05	0.84*	420	4.2	47	98	150	120	0.72*	680*	<8.2*	<8.2*	680	6	13	H
PLS-MW6s	8/15/2012	20.6	6.88	1.9		93	12	2,017	1,500	54	0.70	0.031J	0.90	340	4.2	46	100	160	130	0.31	650	<8.2	<8.2	650	-1	16	
PLS-MW6s	12/11/2012	20.6	6.60	0.7		249	81	2,393	1,600	52		0.039J														13	
PLS-MW6s	3/21/2013	17.6	7.31	0.6	4	244	16.7	2,085	1,500	55		0.050														12	
PLS-MW6s	5/29/2013	21.0	7.45	0.4	4	167	4.0	2,614	1,800	51		0.030J														12	
PLS-MW6s	8/26/2013	21.6	7.31	0.6	7	171	3.0	2,170	1,300	59	0.67	0.064	1.3	260	4.1	61	140	150	130	0.32	630	<8.2	<8.2	630	-0.8	15	
PLS-MW6s	11/15/2013	21.3	7.20	0.4	5	76	8.0	2,163	1,500	65		0.033J														13	
PLS-MW6s	2/24/2014	20.1	7.23	0.3	4	183	15	2,249	1,400	58		<0.050														11	
PLS-MW6s	5/22/2014	21.6	7.52	1.2	14	135	8.0	2,142	1,600	55		<0.10														9	
PLS-MW6s	8/26/2014	22.9	7.44	0.4	4	160	3.0	2,218	1,500	54	0.55	<0.10	1.1	240	4.4	64	150	140	130	4.8	590	<8.2	<8.2	590	1.8	12	
PLS-MW6s	11/10/2014	22.6	7.26	3.4	41	133	6.0	2,243	1,400	51		0.058J														10	
PLS-MW6s	2/6/2015	20.5	7.28	1.1	12	84	4.0	2,100	1,300	52	0.51	0.28	1.6	270	4.2	74	160	150	130	0.3	610	<8.2	<8.2	610	6.3	11	
PLS-MW6s	5/14/2015	19.5	7.50	0.6	7	150	13	2,113	1,400	52		0.047J														8	
PLS-MW6s	8/18/2015	23.5	7.49	0.7	8	98	5.0	2,198	1,400	49		0.035J														9	
PLS-MW6s	11/17/2015	20.9	6.76	1.0	12	130	11	2,520	1,600	49		0.097J														9	
PLS-MW6s	2/22/2016	20.4	7.40	0.5	6	159	5.0	2,542	1,500	46	0.70	0.036J	1.4	360	4.6	69	170	210	180	0.33	730	<8.2	<8.2	730	4	9	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
PLS-MW6s	5/19/2016	20.1	7.36	2.3	25	166	6.0	2,697	1,700	47		0.070J														8	
PLS-MW6s	8/18/2016	22.6	7.27	2.5	29	132	6.0	2,500	1,700	44		0.36														10	
PLS-MW6s	11/21/2016	22.4	7.26	0.7	8	152	5.0	2,323	1,300	35		<0.10														10	
PLS-MW6s	3/15/2017	20.0	7.42	0.6	7	169	2.0	2,363	1,500	37	0.27	0.055J	1.2	290	4.2	77	180	210	200	0.39	680	<8.2	<8.2	680	3.1	13	
PLS-MW6s	5/18/2017	19.9	7.28	0.8	9	173	4.4	2,310	1,400	37		0.12														12	
PLS-MW6s	8/29/2017	21.6	6.87	0.9	11	153	2.0	2,297	1,300	35		0.043J														16	
PLS-MW6s	11/27/2017	21.6	7.57	0.7	8	212	3.0	2,300	1,500	34		0.026J														15	
PLS-MW6s	2/22/2018	20.2	7.63	0.6	7	249	61.5	2,746	1,800	41	0.074	0.043J	0.96	360	5.9	49	170	250	240	0.52	790	<8.2	<8.2	790	-4.2	13	
PLS-MW6s	5/10/2018	20.2	7.12	0.6	8	216	8.0	2,487	1,700	37		0.052J														13	
PLS-MW6s	8/24/2018	21.5	7.15	0.6	6	246	4.0	2,271	1,400	33		0.039J														17	
PLS-MW6s	11/13/2018	22.1	7.06	0.9	10	216	2.0	2,313	1,400	35		0.21														14	
PLS-MW6s	2/21/2019	19.5	7.33	1.0	11	223	2.0	2,385	1,300	34	0.32	0.15J	1.9	260	5.1	61	150	210	210	0.37	660	<8.2	<8.2	660	-4	17	
PLS-MW6s	5/21/2019	19.9	7.45	1.9	31	89	2.0	2,646	1,700	43		0.18J														18	
PLS-MW6s	8/23/2019	22.6	7.25	0.8	7	288	1.0	2,373	1,600	39		<0.2														18	
PLS-MW6s	11/12/2019	22.8	7.18	0.5	2	240	1.0	2,197	1,400	37		<0.20														15	
PLS-MW7s	2/8/2012	17.6	7.04	1.8		157	21	2,312	1,600	81		0.034J														12	
PLS-MW7s	5/10/2012	17.4	6.80	3.1		180	10	2,222	1,500	69	<0.05*	<0.05	1.6*	210	3.8	75	190	160	160	0.40*	560*	<8.2*	<8.2*	560	1.9	12	H
PLS-MW7s	8/15/2012	18.6	7.10	2.2		110	15	2,064	1,600	69	0.29	0.033J	1.7	220	3.6	71	190	180	190	0.29	560	<8.2	<8.2	560	-0.4	14	
PLS-MW7s	12/11/2012	18.9	6.52	0.7		231	24	2,128	1,500	63		0.030J														11	
PLS-MW7s	3/21/2013	17.1	7.20	0.5	5	235	65.2	2,043	1,500	62		0.053														9	
PLS-MW7s	5/29/2013	20.0	7.14	0.4	3	168	7.0	2,336	1,600	70*		0.031J														10	H
PLS-MW7s	8/26/2013	20.2	7.09	0.8	10	173	11	2,279	1,360	72	0.26	0.080	2.1	200	3.3	75	190	180	200	0.50	520	<8.2	<8.2	520	-0.8	13	
PLS-MW7s	11/15/2013	19.1	7.04	0.3	3	77	11	2,109	1,500	77		0.036J														11	
PLS-MW7s	2/24/2014	20.3	6.89	0.9	10	197	11	2,294	1,600	69		0.031J														8	
PLS-MW7s	5/22/2014	19.7	7.31	1.2	12	139	22	2,072	1,500	68		0.045J														7	
PLS-MW7s	8/26/2014	20.4	7.29	0.4	4	161	6.0	2,004	1,500	64	0.29	0.067J	1.4	170	3.1	65	160	130	130	8.6	450	<8.2	<8.2	450	1.4	9	
PLS-MW7s	11/10/2014	21.2	7.14	4.1	48	130	7.0	2,011	1,300	65		0.061J														0	
PLS-MW7s	2/6/2015	19.2	7.00	0.9	11	80	4.0	1,863	1,200	68	0.34	0.056J	2.6	170	3.4	70	170	130	130	0.42	450	<8.2	<8.2	450	3.5	9	
PLS-MW7s	5/14/2015	18.3	7.38	1.3	14	142	33	1,818	1,200	62		0.067J														6	
PLS-MW7s	8/18/2015	19.9	6.94	1.3	14	96	5.0	1,911	1,200	68		0.047J														7	
PLS-MW7s	11/17/2015	19.7	6.71	0.6	7	140	14	1,894	1,200	62		0.079J														7	
PLS-MW7s	2/22/2016	19.7	7.13	0.5	6	162	18	1,872	1,200	60	0.42	0.056J	2.1	170	3.4	63	170	130	120	0.45	440	<8.2	<8.2	440	4.6	7	
PLS-MW7s	5/19/2016	19.8	7.07	4.7	44	159	7.0	1,901	1,200	61		0.093J														6	
PLS-MW7s	8/18/2016	20.1	7.17	2.5	27	139	16	1,869	1,300	60		0.083J														7	
PLS-MW7s	11/21/2016	21.4	7.00	0.8	9	145	5.0	1,895	1,100	58		0.031J														8	
PLS-MW7s	3/15/2017	19.0	7.16	0.6	8	175	9.9	1,936	1,300	64	0.26	0.053J	1.9	170	3.3	69	180	150	130	0.71	440	<8.2	<8.2	440	4.2	10	
PLS-MW7s	5/18/2017	19.2	7.05	0.7	8	167	7.5	1,929	1,300	65		0.13														11	
PLS-MW7s	8/29/2017	19.7	6.90	0.7	9	154	16	2,149	1,300	66		0.051J														15	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
PLS-MW7s	11/27/2017	19.5	6.98	0.4	5	222	3.2	2,466	1,800	110		0.10														13	
PLS-MW7s	2/22/2018	19.2	7.21	0.6	7	249	4.2	3,098	2,400	170	0.15	0.061J	1.7	230	3.4	110	270	240	200	0.64	500	<8.2	<8.2	500	-0.7	11	
PLS-MW7s	5/10/2018	19.4	6.74	0.5	6	233	6.0	3,153	2,200	170		0.064J														11	
PLS-MW7s	8/24/2018	19.3	6.85	0.6	6	263	5.0	2,534	1,700	82		0.040J														14	
PLS-MW7s	11/13/2018	19.9	6.78	0.9	10	224	1.0	2,315	1,500	83		0.24														13	
PLS-MW7s	2/21/2019	18.5	7.08	0.8	9	231	5.0	2,432	1,500	86	0.27	0.25	2.2	170	4.0	76	200	220	170	1.2	460	<8.2	<8.2	460	-2.8	14	
PLS-MW7s	5/21/2019	19.0	6.76	1.9	29	118	3.0	2,483	2,000	130		0.96														15	
PLS-MW7s	8/23/2019	21.1	6.83	1.5	16	240	2.0	1,808	1,400	72		0.26														16	
PLS-MW7s	11/12/2019	21.9	6.79	0.7	6	208	1.0	2,065	1,400	81		0.23														14	
CAE-MW1s	2/8/2012	20.2	6.86	0.5		-52	9.5	3,818	2,300	0.44		94														6	
CAE-MW1s	5/10/2012	21.0	6.67	0.6		-113	380	3,919	2,100	<0.5	6.5*	87	85*	190	340	130	190	220	32	2.6*	1,600*	<8.2*	<8.2*	1,600	4.8	3	H
CAE-MW1d	8/14/2012	19.5	7.10	0.6		64	460	2,699	1,400	29	<0.05	92	95	100	230	56	130	110	49	3.0	1,100	<8.2	<8.2	1,100	-0.7	15	
CAE-MW1s	12/4/2012	21.4	7.52	0.7		90	473	2,169	1,200	24		89														3	
CAE-MW1d	3/21/2013	19.4	7.13	0.3	3	194	19.7	1,953	1,100	30		84														15	
CAE-MW1s	5/30/2013	25.2	6.87	1.3	17	164	63	2,756	1,500	13		120														2	
CAE-MW1d	8/23/2013	22.4	7.11	0.3	4	170	3.0	2,799	1,500	16	0.0092J	110	110	110	250	58	130	110	38	3.9	1,200	<8.2	<8.2	1,200	1.9	12	
CAE-MW1d	11/15/2013	19.2	6.33	0.4	5	296	8.0	2,975	1,500	17		120														13	
CAE-MW1d	2/24/2014	19.6	6.98	0.8	9	234	3.0	4,131	1,900	1.9		160														11	
CAE-MW1d	5/23/2014	22.3	6.97	0.9	10	157	7.0	3,033	1,400	23		130														9	
CAE-MW1d	8/25/2014	19.7	7.17	1.4	15	139	22	3,115	1,500	13	0.093	130	130	100	250	60	130	100	41	6.2	1,300	<8.2	<8.2	1,300	1.1	7	
CAE-MW1d	11/11/2014	20.0	7.03	0.4	4	159	4.0	3,243	1,800	20		150														9	
CAE-MW1d	2/10/2015	19.6	7.04	1.1	12	71	102	3,035	1,600	28	0.17	120	120	120	280	65	140	97	49	3.7	1,200	<8.2	<8.2	1,200	5.4	9	
CAE-MW1d	5/15/2015	21.4	7.20	1.6	18	162	2.0	3,381	1,800	8.0		170														8	
CAE-MW1d	8/18/2015	22.0	7.28	1.9	20	103	26	2,679	1,600	18		140														4	
CAE-MW1d	11/11/2015	18.1	7.77	1.7	19	170	45	2,801	1,600	38		130														7	
CAE-MW1d	2/18/2016	20.0	7.08	0.4	5	148	9.0	2,874	1,300	32	0.32	140	130	100	230	52	110	93	52	4.6	1,100	<8.2	<8.2	1,100	3.2	8	
CAE-MW1d	5/19/2016	21.1	6.95	0.3	5	105	5.0	3,459	2,000	8.5		150														9	
CAE-MW1d	8/18/2016	21.5	6.95	3.9	45	140	5.0	3,638	1,800	3.9		170														6	
CAE-MW1d	11/21/2016	18.7	7.07	1.1	13	242	4.0	3,199	1,800	35		150														11	
CAE-MW1d	3/15/2017	20.6	7.13	0.8	8	151	1.7	2,758	1,400	45	<0.050	130	130	120	260	53	110	91	58	4.6	1,000	<8.2	<8.2	1,000	6.7	13	
CAE-MW1d	5/17/2017	20.0	6.80	0.8	10	111	4.5	2,731	1,400	47		140														15	
CAE-MW1d	8/25/2017	20.2	6.91	0.6	7	118	4.0	2,871	1,400	17		2.5														13	
CAE-MW1d	11/27/2017	20.4	6.99	0.6	7	198	2.7	2,723	1,300	60		120														15	
CAE-MW1d	2/16/2018	20.4	6.96	0.6	7	187	5.2	2,628	1,400	35	0.013J	130	130	110	230	45	96	88	56	5.0	1,100	<8.2	<8.2	1,100	0.3	14	
CAE-MW1d	5/9/2018	20.5	6.85	0.6	7	196	7.0	3,016	1,500	34		150														16	
CAE-MW1d	8/24/2018	20.2	6.83	0.7	7	233	5.0	3,173	1,600	13		140														14	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
CAE-MW1d	11/12/2018	20.7	6.82	0.7	9	245	1.0	2,986	1,500	32		130														15	
CAE-MW1d	2/21/2019	20.2	6.94	0.7	9	243	3.0	3,112	1,600	9.8	<0.050	81	78	160	290	68	140	150	200	4.1	1,200	<8.2	<8.2	1,200	-0.7	17	
CAE-MW1d	5/17/2019	20.9	6.84	1.8	18	257	3.0	2,990	1,500	21		130														18	
CAE-MW1d	8/22/2019	21.5	6.85	1.3	15	225	2.0	3,220	1,600	6.2		89														17	
CAE-MW1s	11/11/2019	22.6	6.55	0.7	8	-16	14	3,276	1,800	0.91		89														4	
CAE-MW2s	2/8/2012	19.8	6.85	1.7		193	51	2,072	1,500	81		0.15														5	
CAE-MW2s	5/10/2012	19.9	6.69	0.9		98	20	1,910	1,500	81*	0.014J*	0.19	1.2*	110	220	34	94	120	140	3.6*	290*	<8.2*	<8.2*	290	-0.2	3	H
CAE-MW2s	8/14/2012	22.0	7.16	1.0		63	42	2,944	2,000	94	0.71	0.026J	2.6	180	620	13	34	180	180	2.2	520	<8.2	<8.2	520	0.8	2	
CAE-MW2s	12/4/2012	22.2	8.08	0.7		64	102	2,724	2,000	98		0.052														3	
CAE-MW2d	3/21/2013	20.1	6.96	0.3	3	191	271	1,745	1,400	91		0.45														15	
CAE-MW2s	5/30/2013	21.2	7.19	0.3	4	147	11	2,969	2,200	120		0.22														2	
CAE-MW2d	8/23/2013	22.1	6.96	0.3	4	170	2.0	1,864	1,300	87	0.39	0.12	1.9	110	80	45	150	130	93	0.42	300	<8.2	<8.2	300	0.5	13	
CAE-MW2d	11/15/2013	20.2	6.13	0.6	6	300	4.0	1,764	1,300	79		0.046J														12	
CAE-MW2d	2/24/2014	20.9	6.71	0.7	9	243	1.0	1,799	1,100	72		0.18														11	
CAE-MW2d	5/23/2014	21.6	6.76	0.8	9	154	3.0	1,731	1,200	64		0.16														10	
CAE-MW2d	8/25/2014	20.2	6.80	1.4	16	141	5.0	1,910	1,300	80	0.36	0.17	2.1	110	57	49	170	130	91	0.34	350	<8.2	<8.2	350	1.2	8	
CAE-MW2d	11/11/2014	21.2	6.69	0.3	4	157	1.0	1,950	1,300	71		0.44														9	
CAE-MW2d	2/10/2015	21.3	6.75	0.7	8	136	1.0	1,960	1,400	76	0.33	0.049J	1.9	120	75	57	190	150	85	0.45	480	<8.2	<8.2	480	0.6	10	
CAE-MW2d	5/15/2015	21.5	7.11	1.0	11	145	12	1,828	1,300	68		0.081J														8	
CAE-MW2d	8/18/2015	23.6	7.15	1.2	13	86	10	1,541	1,100	63		0.067J														6	
CAE-MW2d	11/11/2015	21.0	6.89	0.6	7	114	6.0	1,337	860	45		<0.10														7	
CAE-MW2d	2/18/2016	22.1	6.99	0.4	6	153	3.0	1,228	860	36	0.21	<0.10	1.4	80	28	32	110	85	51	0.46	310	<8.2	<8.2	310	0.2	8	
CAE-MW2d	5/19/2016	22.3	6.87	0.3	6	88	2.0	1,366	990	49		0.067J														9	
CAE-MW2d	8/18/2016	22.3	6.93	3.1	36	148	2.0	1,184	830	34		0.098J														7	
CAE-MW2d	11/22/2016	22.0	6.91	0.5	5	170	2.0	1,007	810	27		0.042J														11	
CAE-MW2d	3/15/2017	21.2	6.97	1.1	13	161	0.4	1,725	1,300	89	0.091	0.14	1.5	110	190	28	100	81	100	0.57	260	<8.2	<8.2	260	3.1	13	
CAE-MW2d	5/17/2017	20.6	6.68	1.0	12	113	3.0	2,040	1,600	120		0.13														14	
CAE-MW2d	8/25/2017	21.4	6.95	0.5	6	97	1.0	1,370	1,000	60		0.056J														14	
CAE-MW2s	11/27/2017	24.0	7.32	1.1	13	212	28.3	1,102	840	40		0.17														3	
CAE-MW2d	2/16/2018	21.5	6.93	0.7	9	186	5.2	1,079	840	53	0.073	<0.10	1.5	92	28	23	98	49	63	0.48	240	<8.2	<8.2	240	0.9	15	
CAE-MW2s	5/9/2018	22.6	7.16	1.3	16	187	13	1,083	840	48		0.11														2	
CAE-MW2s	8/24/2018	24.0	6.99	0.9	9	219	17	1,003	800	47		0.20														2	
CAE-MW2s	11/12/2018	25.0	7.02	1.0	13	219	12	800	620	27		0.19														3	
CAE-MW2s	2/21/2019	21.6	7.07	1.0	11	222	11	918	630	42	<0.050	0.12J	1.8	46	190	5.8	13	12	40	7.3	170	<4.1	<4.1	170	1.2	4	
CAE-MW2d	5/17/2019	21.8	6.89	1.6	23	243	3.0	1,101	820	44		0.19J														18	
CAE-MW2s	8/22/2019	25.1	6.65	1.8	17	225	6.0	576	460	29		<0.2														5	
CAE-MW2s	11/11/2019	25.3	6.58	0.9	11	147	3.0	789	600	36		0.13J														4	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
CAE-MW3s	2/8/2012	20.2	6.83	1.7		196	9.5	2,374	1,800	73		0.086														5	
CAE-MW3s	5/10/2012	20.0	6.73	0.6		153	70	2,804	2,200	52	0.91*	0.071	4.3*	140	390	62	140	210	160	1.9*	720*	<8.2*	<8.2*	720	1.2	3	H
CAE-MW3s	8/14/2012	22.3	7.00	0.7		69	43	3,856	2,700	78	0.61	0.047J	4.6	190	660	70	170	360	240	1.3	840	<8.2	<8.2	840	2.3	1	
CAE-MW3s	12/4/2012	23.5	7.51	0.8		82	6.0	2,859	2,100	89		0.033J														3	
CAE-MW3d	3/21/2013	19.8	7.03	0.4	4	199	0.8	2,834	2,400	96*		0.14														15	H
CAE-MW3s	5/30/2013	21.7	6.83	1.4	16	164	3.0	3,182	2,100	93*		0.098														1	H
CAE-MW3d	8/23/2013	23.5	6.11	0.3	4	184	3.0	2,488	1,900	94	0.28	0.097	3.8	140	230	62	180	210	150	0.57	490	<8.2	<8.2	490	0.9	11	
CAE-MW3d	11/15/2013	20.1	6.21	0.8	8	306	1.0	2,377	1,700	100		0.061														12	
CAE-MW3d	2/24/2014	21.0	6.78	0.6	7	243	1.0	2,051	1,400	88		0.054														11	
CAE-MW3d	5/23/2014	21.7	6.87	1.3	14	155	2.0	1,903	1,400	88		0.049J														8	
CAE-MW3d	8/25/2014	20.6	6.58	1.3	14	139	4.0	1,528	1,200	80	0.46	0.070J	3.5	83	61	39	120	68	71	0.18	240	<8.2	<8.2	240	1.5	6	
CAE-MW3d	11/11/2014	21.2	6.63	0.6	7	160	2.0	1,599	1,300	79		0.085J														8	
CAE-MW3d	2/10/2015	21.2	6.75	0.5	6	136	1.0	1,849	1,400	89	0.51	0.067J	3.1	110	100	56	170	100	100	0.44	360	<8.2	<8.2	360	5	9	
CAE-MW3d	5/15/2015	21.7	6.99	0.9	10	156	1.0	1,643	1,300	75		0.55														7	
CAE-MW3d	8/18/2015	22.2	6.90	1.0	11	97	13	1,652	1,300	75		0.23														4	
CAE-MW3d	11/11/2015	18.7	7.51	1.9	21	165	13	1,779	1,200	72		<0.10														7	
CAE-MW3d	2/18/2016	21.6	6.81	0.5	6	160	2.0	1,926	1,500	80	0.51	<0.10	1.2	100	68	58	170	140	110	0.28	360	<8.2	<8.2	360	0.4	8	
CAE-MW3d	5/19/2016	22.4	6.87	0.3	5	102	1.0	2,446	1,700	110		0.33														9	
CAE-MW3d	8/18/2016	22.8	6.77	3.7	44	155	2.0	2,141	1,600	82		0.074J														6	
CAE-MW3d	11/22/2016	20.8	6.67	0.4	4	197	2.0	1,894	1,500	63		0.068J														11	
CAE-MW3d	3/15/2017	21.5	7.05	0.8	10	137	0.6	1,870	1,400	63	0.31	0.087J	3.0	95	270	26	61	92	87	17	390	<8.2	<8.2	390	-3.1	14	
CAE-MW3s	5/17/2017	20.4	6.61	1.3	15	119	5.7	1,890	1,500	74		0.39														2	PD
CAE-MW3d	8/25/2017	22.0	7.61	1.0	12	89	2.0	1,340	1,000	48		0.14														13	
CAE-MW3s	11/27/2017	23.5	6.72	0.5	6	230	9.6	2,032	1,500	76		0.057J														3	
CAE-MW3d	2/16/2018	21.4	7.18	0.7	8	187	5.1	1,265	960	55	0.051	<0.10	1.1	45	280	11	32	27	55	9.9	290	<8.2	<8.2	290	-1.4	14	
CAE-MW3s	5/9/2018	22.5	6.69	0.8	10	226	8.0	2,601	2,000	100		0.11														3	
CAE-MW3s	8/24/2018	23.8	6.96	0.8	8	237	8.0	1,275	980	44		0.16														2	
CAE-MW3s	11/12/2018	24.3	6.92	0.8	11	231	5.0	1,275	920	47		0.18														3	
CAE-MW3s	2/21/2019	19.7	7.24	0.8	8	233	5.0	2,678	1,800	20	0.49	0.62	11	140	630	27	42	140	110	110	830	<8.2	<8.2	830	-2.2	4	
CAE-MW3s	5/17/2019	20.9	7.11	1.7	26	256	9.0	2,401	1,800	30		0.41														6	
CAE-MW3s	8/22/2019	25.4	7.15	1.2	5	225	2.0	2,107	1,800	48		0.21														4	
CAE-MW3s	11/11/2019	25.1	7.00	0.6	8	115	9.0	2,395	1,700	54		0.26														4	
CAE-MW4s	2/8/2012	18.6	6.57	0.9		87	9.0	1,411	1,000	100		0.050														10	
CAE-MW4s	5/10/2012	19.5	6.37	0.6		97	24	1,456	1,300	93	0.18*	0.061	4.2*	64	46	42	150	61	78	30*	200*	<8.2*	<8.2*	200	-0.1	9	H
CAE-MW4s	8/14/2012	20.5	6.82	1.0		78	57	1,340	1,100	77	0.18	0.046J	4.5	64	40	37	140	44	61	29	240	<8.2	<8.2	240	0.4	8	
CAE-MW4s	12/4/2012	20.6	7.55	0.6		87	14	1,324	1,200	87		0.029J														8	
CAE-MW4s	3/21/2013	18.6	6.77	0.3	3	194	6.0	1,306	1,100	95*		0.11														7	H
CAE-MW4s	5/30/2013	20.3	6.28	0.7	7	173	9.1	1,664	1,400	98		0.096														7	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
CAE-MW4s	8/23/2013	23.7	6.72	0.6	7	177	3.0	1,614	1,500	120	0.23	0.13	4.8	91	38	38	150	54	96	13	180	<8.2	<8.2	180	-1.8	5	
CAE-MW4s	11/15/2013	20.5	6.39	1.8	22	102	85	1,370	1,300	110		0.055														4	
CAE-MW4s	2/24/2014	18.9	6.71	2.2	25	223	13	QM	1,000	100		0.047J														3	
CAE-MW4d	5/23/2014	20.2	6.31	1.1	11	171	2.0	1,276	1,100	95		0.038J														20	
CAE-MW4d	8/25/2014	20.2	6.60	0.4	4	135	4.0	1,267	1,000	85	0.28	0.052J	3.5	75	8.0	31	110	47	41	2.8	140	<8.2	<8.2	140	1.6	18	
CAE-MW4d	11/11/2014	18.8	6.33	0.4	4	169	1.0	1,391	1,100	91		0.072J														19	
CAE-MW4d	2/10/2015	19.5	6.54	0.5	6	138	1.0	1,537	1,200	100	1.3	0.072J	3.1	110	10	43	150	62	41	3.5	260	<8.2	<8.2	260	3	20	
CAE-MW4d	5/15/2015	20.1	6.53	1.5	16	170	1.0	1,544	1,200	110		0.082J														18	
CAE-MW4d	8/18/2015	22.0	6.76	1.5	18	93	11	1,212	1,000	85		0.10														16	
CAE-MW4d	11/11/2015	17.5	7.03	1.9	21	172	23	1,277	960	81		0.16														17	
CAE-MW4d	2/18/2016	19.0	6.54	0.5	6	156	3.0	1,333	1,100	91	0.40	<0.10	3.1	110	7.5	34	120	52	39	8.2	210	<8.2	<8.2	210	1.9	18	
CAE-MW4d	5/19/2016	20.5	6.21	0.3	6	119	4.0	1,485	1,100	110		0.13														19	
CAE-MW4d	8/18/2016	21.4	6.45	2.6	30	150	2.0	1,565	1,400	110		0.079J														17	
CAE-MW4d	11/21/2016	18.5	6.89	1.6	18	216	1.0	1,646	1,400	120		0.061J														20	
CAE-MW4d	3/15/2017	19.8	6.58	0.8	8	171	0.3	1,611	1,400	120	0.48	0.069J	3.2	130	8.8	45	160	55	50	9.0	240	<8.2	<8.2	240	3.8	23	
CAE-MW4s	5/17/2017	19.5	6.45	0.8	10	127	4.6	1,821	1,400	130		0.14														6	
CAE-MW4d	8/25/2017	19.7	6.37	0.4	5	133	1.0	1,816	1,700	130		0.11														23	
CAE-MW4d	11/27/2017	19.6	6.48	0.5	6	204	1.7	2,076	1,700	140		0.071J														25	
CAE-MW4s	2/16/2018	19.7	6.55	0.7	8	188	5.3	1,845	1,600	130	0.070	0.038J	2.1	130	30	44	190	120	80	8.5	230	<8.2	<8.2	230	0.8	6	
CAE-MW4d	5/9/2018	20.6	6.28	0.6	7	213	5.0	3,027	1,900	210		0.13														25	
CAE-MW4d	8/24/2018	19.8	6.26	0.7	7	260	5.0	2,267	2,000	150		0.32														24	
CAE-MW4d	11/12/2018	19.9	6.29	0.8	9	242	1.0	1,798	1,400	140		0.36														25	
CAE-MW4d	2/21/2019	19.7	6.48	1.4	15	253	2.0	1,941	1,400	140	0.43	0.34	3.6	130	8.5	47	150	75	75	8.4	240	<8.2	<8.2	240	-4.2	26	
CAE-MW4s	5/17/2019	20.1	6.40	1.8	19	250	3.0	3,035	2,800	210		0.28														9	
CAE-MW4d	8/22/2019	22.3	6.39	1.4	13	237	1.0	2,355	2,000	170		0.19J														27	
CAE-MW4s	11/11/2019	24.4	6.09	0.8	10	173	7.0	2,809	2,400	210		0.34														9	
CAE-MW5s	2/8/2012	19.4	6.93	0.7		107	29.5	1,336	990	67		<0.05														13	
CAE-MW5s	5/10/2012	20.0	6.70	0.8		202	15	1,214	920	56	0.049J*	<0.05	1.1*	60	3.6	42	140	18	69	1.0*	340*	<8.2*	<8.2*	340	1.4	12	H
CAE-MW5s	8/14/2012	20.5	7.07	0.7		77	6.0	1,109	780	35	0.099	<0.05	1.3	50	7.5	38	140	15	57	1.8	350	<8.2	<8.2	350	5.5	14	
CAE-MW5s	12/4/2012	22.3	7.56	1.5		77	15	1,179	880	47		<0.050														11	
CAE-MW5s	3/21/2013	18.7	7.16	0.9	9	179	8.7	1,094	810	37		0.041J														11	
CAE-MW5s	5/30/2013	20.9	6.64	1.2	14	154	2.0	1,214	860	53*		0.032J														12	H
CAE-MW5s	8/23/2013	23.3	7.02	0.6	7	164	1.0	1,350	920	58	0.046J	0.058	1.2	74	4.0	38	140	33	46	1.6	380	<8.2	<8.2	380	-0.9	11	
CAE-MW5s	11/15/2013	21.8	6.75	0.4	5	64	8.0	1,000	710	37		0.040J														9	
CAE-MW5s	2/24/2014	20.7	6.73	1.1	11	238	5.0	1,345	550	38		0.017J														7	
CAE-MW5s	5/23/2014	21.5	6.73	1.2	13	166	3.0	1,128	880	45		<0.10														7	
CAE-MW5s	8/25/2014	21.9	6.77	0.6	7	138	2.0	1,183	740	46	0.12	<0.10	1.7	34	3.3	39	140	24	47	0.098J	320	<8.2	<8.2	320	1.8	7	
CAE-MW5s	11/11/2014	21.3	6.76	0.7	8	147	16	1,180	760	45		0.056J														5	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
CAE-MW5s	2/10/2015	22.2	6.80	0.9	11	120	2.0	1,183	790	50	0.17	0.036J	1.1	36	3.9	43	160	23	40	0.32	380	<8.2	<8.2	380	2	5	
CAE-MW5s	5/15/2015	20.6	7.00	2.3	25	159	5.0	1,044	790	43		0.043J														4	
CAE-MW5d	8/18/2015	22.5	7.10	2.0	23	82	30	952	680	38		0.062J														21	
CAE-MW5s	11/11/2015	20.2	7.40	1.9	23	156	51	961	700	47		<0.10														2	
CAE-MW5s	2/18/2016	21.6	6.75	0.7	9	143	8.0	935	690	43	0.17	<0.10	1.5	20	3.5	32	120	30	42	0.36	240	<4.1	<4.1	240	-0.2	2	
CAE-MW5d	5/19/2016	22.2	6.72	0.4	6	110	2.0	1,073	750	39		0.083J														21	
CAE-MW5s	8/18/2016	22.3	6.88	1.7	20	150	7.0	997	730	42		0.060J														4	
CAE-MW5s	11/22/2016	22.9	6.75	0.6	7	165	2.0	1,043	890	55		0.029J														5	
CAE-MW5s	3/14/2017	21.4	7.08	1.9	21	129	0.9	1,059	710	52	0.046J	0.024J	0.91	60	3.7	37	130	19	36	0.31	290	<8.2	<8.2	290	6.2	7	
CAE-MW5s	5/17/2017	20.4	6.80	1.7	20	105	3.0	1,051	770	54		0.088J														7	
CAE-MW5s	8/25/2017	22.3	6.79	1.7	20	111	1.0	1,008	820	55		0.030J														8	
CAE-MW5s	11/27/2017	22.4	6.81	1.1	13	205	4.0	946	720	57		<0.1														8	
CAE-MW5s	2/16/2018	21.9	6.98	2.0	23	188	6.4	951	740	58	0.040J	<0.10	0.58	46	3.8	29	110	18	38	0.46	240	<8.2	<8.2	240	-1.4	8	
CAE-MW5s	5/9/2018	21.3	6.81	2.0	24	191	7.0	1,015	790	52		0.084J														9	
CAE-MW5s	8/23/2018	21.9	6.70	1.3	13	203	4.0	1,021	830	59		0.051J														8	
CAE-MW5s	11/12/2018	22.5	6.71	1.4	17	228	1.0	932	690	56		0.16														9	
CAE-MW5s	2/20/2019	20.9	6.82	1.9	22	195	2.0	922	670	50	<0.050	0.091J	0.76	58	3.1	25	92	12	27	0.72	240	<4.1	<4.1	240	-0.2	10	
CAE-MW5s	5/17/2019	21.1	6.72	2.0	21	246	2.0	1,070	920	70		0.12J														11	
CAE-MW5s	8/22/2019	22.9	6.76	2.1	26	214	2.0	1,431	1,100	88		<0.2														11	
CAE-MW5s	11/11/2019	22.6	6.50	2.2	26	193	2.0	1,295	980	80		0.12J														11	
CAE-MW6s	2/9/2012	21.0	7.04	1.1		147	44	2,040	1,500	40		0.032J														11	
CAE-MW6s	5/10/2012	19.9	6.95	0.6		240	12	1,561	1,100	36	<0.05*	<0.05	1.2*	140	15	54	120	120	78	1.2*	420*	<8.2*	<8.2*	420	2.7	10	H
CAE-MW6s	8/14/2012	20.0	7.24	0.9		70	26	1,585	1,100	33	0.57	0.038J	1.7	92	36	59	150	120	78	1.8	440	<8.2	<8.2	440	3	12	
CAE-MW6s	12/4/2012	21.3	7.74	0.5		71	117	854	610	29		<0.050														10	
CAE-MW6s	3/21/2013	19.7	7.44	0.7	7	186	7.2	1,158	820	29		0.045J														9	
CAE-MW6s	5/30/2013	20.7	6.76	0.6	7	147	3.0	1,811	1,200	35		0.048J														10	
CAE-MW6s	8/23/2013	23.0	7.27	0.6	7	164	3.0	1,802	1,200	50	0.82	0.081	1.6	96	26	72	160	170	97	0.46	450	<8.2	<8.2	450	-1.8	10	
CAE-MW6d	11/15/2013	20.1	6.88	0.7	7	53	6.0	2,146	1,400	63		0.056														25	
CAE-MW6s	2/24/2014	21.1	6.93	0.7	8	237	13	1,700	1,000	47		<0.050														5	
CAE-MW6d	5/23/2014	21.0	6.94	0.8	9	169	2.0	2,256	1,500	49		0.053J														23	
CAE-MW6d	8/25/2014	21.3	7.05	0.3	4	137	3.0	2,420	1,300	56	0.90	0.056J	3.2	100	42	92	240	210	130	<0.15	590	<8.2	<8.2	590	1	23	
CAE-MW6d	11/11/2014	20.4	6.93	0.4	4	159	1.0	2,401	1,400	51		0.080J														21	
CAE-MW6d	2/10/2015	20.6	7.15	0.4	4	141	1.0	2,416	1,500	44	0.74	0.059J	3.4	110	73	100	270	190	110	0.27	680	<8.2	<8.2	680	7.4	21	
CAE-MW6d	5/15/2015	21.1	7.13	1.1	12	163	1.0	2,298	1,500	48		0.064J														20	
CAE-MW6d	8/18/2015	21.6	7.20	1.1	12	84	13	2,345	1,400	60		0.079J														19	
CAE-MW6d	11/11/2015	19.2	7.75	1.9	21	152	15	2,609	1,400	61		<0.10														18	
CAE-MW6d	2/18/2016	20.1	7.04	0.5	6	132	7.0	2,803	2,100	39	0.37	0.045J	5.3	97	140	100	280	320	180	0.32	740	<8.2	<8.2	740	-0.6	18	
CAE-MW6d	5/19/2016	22.3	6.84	0.5	8	103	2.0	2,391	1,500	34		0.18														18	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
CAE-MW6d	8/18/2016	21.8	7.04	1.1	13	148	4.0	2,331	1,700	35		0.090J														20	
CAE-MW6d	11/22/2016	20.9	6.95	0.3	4	166	1.0	1,922	1,500	32		0.080J														20	
CAE-MW6s	3/14/2017	21.2	7.08	1.9	22	129	1.7	1,736	1,500	36	<0.050	0.034J	1.7	140	88	61	160	110	89	0.47	580	<8.2	<8.2	580	5.5	4	
CAE-MW6s	5/17/2017	21.3	6.83	1.9	22	106	5.5	1,751	980	34		0.090J														5	
CAE-MW6s	8/25/2017	21.6	6.55	2.1	25	146	4.0	1,590	1,200	61		0.028J														5	
CAE-MW6s	11/27/2017	21.9	6.52	2.1	24	250	5.5	1,443	1,100	59		<0.1														5	
CAE-MW6s	2/16/2018	22.4	7.14	1.1	13	200	7.6	1,451	1,100	68	0.010J	0.026J	1.5	65	63	58	120	66	80	0.40	360	<8.2	<8.2	360	-1.3	5	
CAE-MW6s	5/9/2018	21.6	6.75	1.4	17	182	6.0	1,651	1,200	70		0.098J														6	
CAE-MW6s	8/23/2018	21.2	6.67	1.7	17	207	4.0	2,028	1,300	100		0.14														6	
CAE-MW6s	11/12/2018	23.0	6.70	1.8	19	235	4.0	1,841	1,300	110		0.22														6	
CAE-MW6s	2/20/2019	20.8	6.84	1.6	17	198	3.0	2,269	1,600	120	<0.050	0.14J	<0.20	130	27	94	160	86	120	0.53	500	<8.2	<8.2	500	-3.1	7	
CAE-MW6s	5/17/2019	21.6	6.72	1.8	20	237	3.0	1,860	1,400	120		0.16J														8	
CAE-MW6s	8/22/2019	22.2	6.83	2.0	22	229	2.0	1,812	1,100	110		<0.2														8	
CAE-MW6s	11/11/2019	23.3	6.59	1.3	15	165	1.0	1,745	1,300	100		0.14J														8	
ROB-MW1s	2/7/2012	18.4	6.66	1.5		168	851	2,985	2,000	68		1.5														6	
ROB-MW1s	5/8/2012	18.5	6.85	2.7		185	156	921	620	37	<0.05*	0.051	0.57*	57	27	22	68	38	27	10*	190*	<4.1*	<4.1*	190	-0.1	3	H
ROB-MW1d	8/13/2012	20.8	6.94	2.2		219	4.0	1,139	850	39	0.024J	<0.05	0.46	63	5.7	30	120	76	44	3.6	230	<8.2	<8.2	230	3.6	4	
ROB-MW1s	12/4/2012	20.7	7.27	2.1		98	77	2,766	2,100	78		0.13														2	
ROB-MW1d	3/18/2013	21.4	6.51	0.4	4	181	1.7	3,366	2,200	36		1.5														5	
ROB-MW1d	5/28/2013	22.4	6.76	4.9	56	158	2.0	1,752	1,100	36		0.031J														13	
ROB-MW1d	8/22/2013	19.8	6.87	1.0	11	174	2.0	1,501	1,000	54	0.0048J	0.039J	0.60	78	8.6	48	160	130	45	3.5	360	<8.2	<8.2	360	-0.7	7	
ROB-MW1d	11/13/2013	19.2	6.93	1.8	19	236	1.0	3,578	2,500	26		0.050														14	
ROB-MW1d	2/18/2014	18.0	6.25	0.8	9	263	2.0	2,626	1,700	50		<0.050														9	
ROB-MW1d	5/20/2014	19.4	6.94	2.4	27	154	4.0	2,432	1,600	79		0.041J														4	
ROB-MW1d	8/19/2014	*Well Dry*																									
ROB-MW1d	11/5/2014	21.2	6.72	0.4	4	116	1.0	3,499	2,300	46		0.039J														6	
ROB-MW1d	2/5/2015	19.4	7.11	0.6	7	110	1.0	4,033	2,700	80	4.3	0.32	2.6	230	60	170	440	440	36	7.5	1,300	<8.2	<8.2	1,300	2.3	11	
ROB-MW1d	5/12/2015	*Well Dry*																									
ROB-MW1d	8/21/2015	*Well Dry*																									
ROB-MW1d	11/11/2015	18.4	6.86	4.5	48	126	63	3,249	2,000	110		<0.10														2	
ROB-MW1d	2/17/2016	20.2	6.72	0.5	6	114	4.0	3,681	2,500	110	0.13	0.045J	1.6	240	74	140	370	360	43	8.5	1,100	<8.2	<8.2	1,100	1.4	7	
ROB-MW1d	5/17/2016	22.8	6.87	1.5	17	145	5.0	3,842	2,600	68		0.12														4	
ROB-MW1d	8/16/2016	*Well Dry*																									
ROB-MW1d	11/29/2016	18.3	6.91	3.3	34	214	93	3,811	2,300	100		0.028J														3	
ROB-MW1d	3/14/2017	20.1	6.57	1.0	12	188	1.1	3,305	2,200	150	0.018J	0.020J	0.83	190	71	130	340	260	71	7.4	780	<8.2	<8.2	780	3.3	8	
ROB-MW1d	5/17/2017	19.8	6.44	0.9	10	164	8.6	3,502	2,400	130		0.060J														10	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																		----Alkalinity as CaCO3----						
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ROB-MW1s	8/25/2017	21.6	6.46	1.8	21	113	46	2,610	2,300	150		0.052J														3	
ROB-MW1s	11/17/2017	21.0	6.71	2.0	24	237	8.1	2,711	2,200	150		0.026J														4	
ROB-MW1s	2/20/2018	19.8	6.71	2.0	22	122	16.54	2,938	1,900	94	0.60	7.6	9.1	190	110	94	290	260	56	11	890	<8.2	<8.2	890	0.6	3	
ROB-MW1s	5/8/2018	21.1	6.45	2.2	25	187	8.0	2,432	1,900	110		14														4	
ROB-MW1s	8/20/2018	23.8	7.27	2.0	24	73	11	3,071	2,400	110		23														3	
ROB-MW1s	11/13/2018	21.0	6.67	1.7	28	58	9.0	3,078	2,100	130		13														3	
ROB-MW1s	2/20/2019	19.3	6.48	1.9	21	185	12	1,496	1,100	76	0.015J	13	13	89	83	42	130	72	46	21	400	<8.2	<8.2	400	-0.6	5	
ROB-MW1s	5/21/2019	19.4	6.85	3.0	41	53	3.0	3,185	2,000	93		52														5	
ROB-MW1s	8/14/2019	22.5	6.69	2.7	32	59	4.0	2,784	1,800	130		30														5	
ROB-MW1s	11/12/2019	20.3	6.70	1.4	24	209	12	3,330	2,100	120		40														6	
ROB-MW2s	2/7/2012	19.2	6.79	1.4		124	367	3,374	2,300	160		0.11														5	
ROB-MW2s	5/8/2012	19.4	6.57	3.3		216	>1,000	2,750	1,800	98	<0.05*	0.78	1.6*	120	160	73	210	200	65	26*	580*	<8.2*	<8.2*	580	-1.1	2	H
ROB-MW2d	8/13/2012	20.6	6.50	2.3		185	85	2,588	1,600	56	0.044J	0.20	1.5	130	23	81	290	220	45	5.9	720	<8.2	<8.2	720	3.1	7	
ROB-MW2s	12/4/2012	21.1	7.47	1.6		89	93	2,947	2,200	140		0.027J														1	
ROB-MW2d	3/18/2013	21.8	6.57	0.6	7	166	18.4	2,553	1,600	59		0.052														12	
ROB-MW2d	5/28/2013	21.1	6.57	0.7	8	152	4.0	2,786	1,800	47		0.032J														12	
ROB-MW2d	8/22/2013	20.8	6.71	0.5	6	171	3.0	2,741	1,300	40	0.027J	0.050	1.3	140	9.5	100	340	230	38	1.5	1,000	<8.2	<8.2	1,000	2.2	7	
ROB-MW2d	11/13/2013	20.5	6.96	0.8	9	232	1.0	2,853	1,700	39		0.035J														13	
ROB-MW2d	2/18/2014	19.4	6.24	0.9	11	262	1.0	2,898	1,700	40		<0.050														9	
ROB-MW2d	5/20/2014	19.7	6.65	0.8	8	154	7.0	2,665	1,500	37		0.049J														6	
ROB-MW2d	8/19/2014	*Well Dry*																									
ROB-MW2d	11/5/2014	21.8	6.68	1.1	12	115	9.0	2,669	1,700	60		<0.10														6	
ROB-MW2d	2/5/2015	20.9	6.72	0.9	11	108	3.0	2,718	1,900	120	<0.050	<0.10	1.3	140	30	95	330	200	72	3.7	670	<8.2	<8.2	670	3.2	10	
ROB-MW2d	5/12/2015	*Well Dry*																									
ROB-MW2d	8/21/2015	*Well Dry*																									
ROB-MW2d	11/11/2015	18.3	6.99	4.8	50	125	22	2,654	1,700	110		<0.10														1	
ROB-MW2d	2/17/2016	21.7	6.81	1.1	13	107	9.0	2,803	2,100	150	<0.050	<0.10	0.71	140	11	93	350	150	91	2.6	670	<8.2	<8.2	670	1.9	6	
ROB-MW2d	5/17/2016	22.0	6.78	2.2	25	140	11	2,245	1,500	110		0.034J														4	
ROB-MW2d	8/16/2016	*Well Dry*																									
ROB-MW2d	11/29/2016	18.7	6.99	4.0	44	211	640	2,395	1,600	100		0.030J														2	
ROB-MW2d	3/14/2017	20.4	6.78	1.2	15	191	20.6	2,394	1,700	140	<0.050	0.036J	0.37	120	15	78	290	130	80	4.1	510	<8.2	<8.2	510	1.6	7	
ROB-MW2d	5/17/2017	20.3	6.46	1.7	19	170	9.9	2,573	1,900	150		<0.10														10	
ROB-MW2d	8/25/2017	21.2	6.57	1.0	12	108	4.0	2,260	1,900	110		0.034J														15	
ROB-MW2s	11/17/2017	21.3	6.70	1.0	113	230	27.51	2,479	2,000	120		0.020J														3	
ROB-MW2s	2/20/2018	20.8	6.54	1.0	12	109	25.4	2,882	2,200	160	0.041J	<0.10	1.3	110	130	84	280	160	100	7.0	580	<8.2	<8.2	580	-1.4	2	
ROB-MW2s	5/8/2018	20.7	6.30	1.9	22	203	209	3,349	2,300	190		10														3	
ROB-MW2s	8/20/2018	22.8	7.10	1.7	21	93	24	3,007	2,200	170		0.14														2	
ROB-MW2s	11/13/2018	22.1	6.61	2.0	31	73	19	3,618	2,200	200		0.25														2	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ROB-MW2s	2/20/2019	20.4	6.52	1.3	16	179	15	3,495	2,400	140	0.038J	0.13J	1.0	150	150	110	380	180	99	7.5	980	<8.2	<8.2	980	1.9	4	
ROB-MW2s	5/21/2019	20.4	6.69	2.8	39	74	7.0	3,675	2,600	150		0.13J														4	
ROB-MW2s	8/14/2019	21.8	6.51	3.1	39	77	100	3,668	2,600	150		0.15J														5	
ROB-MW2s	11/12/2019	22.3	6.51	2.2	29	199	24	3,432	2,500	140		0.097J														6	
ROB-MW3s	2/7/2012	19.1	7.01	1.6		191	5.0	1,743	1,100	3.0		0.053														6	
ROB-MW3s	5/8/2012	19.5	6.97	2.0		186	3.0	2,020	1,300	12	0.019J*	0.040J	1.2*	110	15	66	190	270	39	2.5*	530*	<8.2*	<8.2*	530	0.3	5	H
ROB-MW3s	8/13/2012	21.4	6.93	1.7		163	15	1,968	1,200	2.3	0.015J	<0.05	1.0	100	14	65	190	260	32	3.0	540	<8.2	<8.2	540	1.2	1	
ROB-MW3s	12/4/2012	21.2	7.38	2.3		113	10	1,774	1,200	1.6		0.028J														0	
ROB-MW3d	3/18/2013	20.3	6.93	0.5	4	183	2.2	1,891	1,200	17		0.042J														14	
ROB-MW3d	5/28/2013	22.0	6.79	0.6	6	145	2.0	1,862	1,200	20		0.028J														12	
ROB-MW3d	8/22/2013	21.2	6.99	0.4	4	160	1.0	2,160	1,300	41	0.15	0.052	1.5	120	3.2	87	220	250	66	1.3	590	<8.2	<8.2	590	0.5	10	
ROB-MW3d	11/13/2013	20.5	7.18	0.5	6	227	1.0	1,944	1,300	20		0.046J														11	
ROB-MW3d	2/18/2014	19.3	6.54	0.8	9	255	1.0	2,155	1,300	36		<0.050														10	
ROB-MW3d	5/20/2014	19.7	6.98	0.9	11	148	2.0	2,034	1,300	32		0.066J														10	
ROB-MW3d	8/19/2014	22.5	7.42	0.4	4	100	3.0	1,900	1,200	51	0.24	<0.10	1.2	110	2.4	83	180	170	62	0.40	470	<8.2	<8.2	470	3.8	6	
ROB-MW3d	11/5/2014	21.3	6.95	0.5	5	98	3.0	1,855	1,100	42		<0.10														6	
ROB-MW3d	2/5/2015	20.5	7.03	0.6	7	92	1.0	2,069	1,300	67	0.14	<0.10	1.2	120	2.9	94	200	190	75	0.36	490	<8.2	<8.2	490	3.3	9	
ROB-MW3d	5/12/2015	19.9	7.08	1.3	14	56	2.0	2,039	1,000	64		<0.10														8	
ROB-MW3d	8/21/2015	22.8	7.20	4.3	50	103	5.0	1,484	960	28		<0.10														1	
ROB-MW3d	11/11/2015	19.2	7.10	2.9	33	108	17	1,540	990	33		<0.10														3	
ROB-MW3d	2/17/2016	22.0	7.02	0.5	6	85	4.0	1,596	1,100	38	0.026J	<0.10	0.59	95	2.2	68	160	160	57	0.42	440	<8.2	<8.2	440	1.6	6	
ROB-MW3d	5/17/2016	21.9	6.98	1.8	21	128	4.0	1,791	1,200	45		0.058J														7	
ROB-MW3d	8/16/2016	22.1	7.21	1.9	22	182	160	1,784	960	37		0.031J														1	D
ROB-MW3d	11/29/2016	18.2	7.08	2.3	25	210	189	1,776	1,100	36		0.026J														2	
ROB-MW3d	3/14/2017	21.1	7.05	0.6	8	178	2.0	1,677	1,100	46	<0.050	0.036J	0.57	100	2.9	74	180	150	63	0.28	480	<8.2	<8.2	480	2.8	7	
ROB-MW3d	5/17/2017	20.7	6.81	0.6	8	148	0.0	1,681	1,100	44		0.046J														10	
ROB-MW3s	8/25/2017	22.2	6.83	0.9	11	83	6.0	2,050	1,300	45		0.038J														2	
ROB-MW3s	11/17/2017	21.7	6.90	0.6	6	230	5.6	2,055	1,300	44		0.024J														4	
ROB-MW3s	2/20/2018	20.4	6.82	1.0	12	102	5.6	2,258	1,200	49	<0.050	<0.10	0.75	130	15	83	250	250	98	1.8	630	<8.2	<8.2	630	0.2	0	
ROB-MW3s	5/8/2018	21.3	6.57	0.9	11	172	6.0	2,454	1,700	53		<0.10														4	
ROB-MW3s	8/20/2018	22.9	7.59	1.7	22	92	3.0	2,610	1,800	56		0.13														4	
ROB-MW3s	11/13/2018	21.8	6.76	1.4	23	85	6.0	2,917	1,900	66		0.13														3	
ROB-MW3s	2/20/2019	20.6	6.65	1.0	12	185	4.0	2,919	1,600	51	<0.050	0.093J	0.75	150	22	110	320	400	110	2.1	710	<8.2	<8.2	710	1	4	
ROB-MW3s	5/21/2019	19.7	7.26	2.7	38	81	2.0	2,891	1,800	48		<0.2														6	
ROB-MW3s	8/14/2019	22.4	6.82	2.4	27	81	2.0	2,532	1,400	52		0.08J														7	
ROB-MW3s	11/12/2019	22.4	6.75	1.3	19	177	2.0	2,196	1,400	46		<0.20														7	
ROB-MW4s	2/7/2012	19.4	6.81	1.7		215	7.5	2,413	1,600	89		0.036J														6	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ROB-MW4s	5/8/2012	19.6	6.74	1.9		221	4.0	3,076	2,000	93	0.086*	0.032J	1.1*	170	4.7	100	290	430	130	0.31*	400*	<8.2*	<8.2*	400	1.2	5	H
ROB-MW4s	8/13/2012	24.0	6.67	1.6		184	25	3,607	2,400	100	0.21	0.027J	1.6	200	4.9	120	330	490	180	0.25	510	<8.2	<8.2	510	0.3	2	
ROB-MW4s	12/4/2012	22.6	7.12	0.8		121	2.0	2,512	1,800	32		<0.050														1	
ROB-MW4d	3/18/2013	19.8	7.14	0.6	6	194	3.6	1,620	990	31		0.038J														14	
ROB-MW4d	5/28/2013	22.8	9.63	3.9	45	144	2.0	1,776	1,200	44		0.030J														13	
ROB-MW4d	8/22/2013	22.3	6.86	0.4	5	164	1.0	2,237	1,600	34	0.071	0.031J	0.63	150	3.4	68	190	390	87	0.20	360	<8.2	<8.2	360	-1.7	12	
ROB-MW4d	11/13/2013	20.5	7.18	0.6	6	230	2.0	1,652	1,100	44		0.033J														12	
ROB-MW4d	2/18/2014	20.1	6.35	0.7	8	257	1.0	2,113	1,600	45		<0.050														12	
ROB-MW4d	5/20/2014	20.1	6.83	0.8	8	145	6.0	2,169	1,500	50		0.056J														11	
ROB-MW4d	8/19/2014	21.2	7.69	1.5	16	100	9.0	1,961	1,500	39	0.056	<0.10	0.39	98	2.9	68	190	310	59	0.19	310	<8.2	<8.2	310	1.2	7	
ROB-MW4d	11/5/2014	22.6	7.10	0.4	5	83	8.0	1,779	1,200	43		<0.10														7	
ROB-MW4d	2/5/2015	22.0	7.39	0.7	8	98	2.0	1,554	1,000	54	0.015J	<0.10	0.38	83	2.9	57	160	150	50	0.094J	310	<8.2	<8.2	310	3.2	10	
ROB-MW4d	5/12/2015	21.6	7.05	1.2	14	60	2.0	1,829	1,000	46		<0.10														10	
ROB-MW4d	8/21/2015	22.9	7.20	1.4	15	87	5.0	1,962	1,400	33		0.085J														4	
ROB-MW4d	11/11/2015	19.8	7.18	1.9	20	99	9.0	2,094	1,400	34		<0.10														3	
ROB-MW4d	2/17/2016	21.9	7.35	0.5	6	69	3.0	1,713	1,500	39	<0.050	0.055J	<0.20	84	2.7	60	180	260	58	0.11J	290	<8.2	<8.2	290	1.5	7	
ROB-MW4d	5/17/2016	22.3	7.33	2.0	24	120	4.0	1,793	1,300	39		0.042J														8	
ROB-MW4d	8/16/2016	21.4	7.86	2.8	31	160	15	2,446	1,700	22		0.026J														4	
ROB-MW4d	11/29/2016	20.0	7.20	1.8	21	209	10	2,256	1,500	26		<0.10														3	
ROB-MW4d	3/14/2017	21.8	7.25	0.7	8	167	4.8	1,791	1,300	37	<0.050	0.034J	0.29	90	3.3	67	200	290	65	0.094J	310	<8.2	<8.2	310	3	8	
ROB-MW4d	5/17/2017	21.4	7.00	0.6	7	130	4.8	1,801	1,300	38		<0.10														11	
ROB-MW4s	8/25/2017	24.1	6.78	0.5	6	95	3.0	1,836	1,300	32		0.042J														4	
ROB-MW4s	11/17/2017	23.0	6.88	0.6	8	241	7.3	1,983	1,400	42		0.031J														5	
ROB-MW4s	2/20/2018	21.2	6.92	0.9	11	89	5.3	2,598	1,400	54	0.025J	<0.10	0.91	260	6.2	78	220	330	250	0.13J	500	<8.2	<8.2	500	0.9	4	
ROB-MW4s	5/8/2018	21.2	6.59	1.1	13	185	6.0	2,150	1,500	51		0.018J														6	
ROB-MW4s	8/20/2018	23.9	7.38	1.3	19	100	2.0	2,316	1,700	50		0.10														5	
ROB-MW4s	11/13/2018	23.6	6.83	1.5	22	84	5.0	2,101	1,500	47		0.14														4	
ROB-MW4s	2/20/2019	21.5	6.64	0.7	9	181	3.0	2,454	1,500	55	<0.050	0.097J	0.75	230	6.5	74	220	230	270	0.23	520	<8.2	<8.2	520	1.5	5	
ROB-MW4s	5/21/2019	19.7	6.86	2.5	38	81	3.0	2,300	1,600	50		<0.2														6	
ROB-MW4s	8/14/2019	22.8	6.80	2.3	29	78	2.0	1,641	870	45		<0.2														9	
ROB-MW4s	11/12/2019	24.4	6.89	1.9	25	192	3.5	1,718	1,200	49		<0.20														8	
ROB-MW5s	2/7/2012	19.3	6.77	1.3		203	30.5	2,257	1,500	58		0.038J														4	
ROB-MW5s	5/8/2012	19.8	6.75	2.5		238	39	2,401	1,600	52	<0.05*	0.047J	1.1*	130	19	83	240	170	63	11*	740*	<8.2*	<8.2*	740	0	2	H
ROB-MW5d	8/13/2012	21.2	6.67	2.0		190	9.0	2,421	1,500	58	0.76	0.027J	1.4	130	7.4	87	240	170	66	9.2	670	<8.2	<8.2	670	1.9	11	
ROB-MW5d	12/4/2012	20.9	6.45	0.8		139	5.0	2,237	1,600	82		0.034J														11	
ROB-MW5d	3/18/2013	19.4	6.70	0.5	5	211	1.5	2,481	1,600	62		0.037J														12	
ROB-MW5d	5/28/2013	21.3	6.66	0.6	6	141	3.0	2,343	1,600	70		0.033J														10	
ROB-MW5d	8/22/2013	22.0	6.96	0.6	6	169	1.0	2,369	1,600	77	0.65	0.025J	1.2	130	3.2	90	270	180	74	7.7	680	<8.2	<8.2	680	1.2	8	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ROB-MW5d	11/13/2013	19.4	6.78	0.9	10	239	3.0	2,421	1,800	98		0.040J														10	
ROB-MW5d	2/18/2014	19.9	6.35	1.5	17	259	1.0	2,463	1,700	84		<0.050														9	
ROB-MW5d	5/20/2014	20.3	6.72	0.6	7	152	3.0	2,522	1,700	76		0.070J														8	
ROB-MW5d	8/19/2014	21.1	7.71	1.2	13	109	8.0	2,440	2,400	83	0.36	<0.10	0.17J	130	3.5	91	270	170	69	4.8	630	<8.2	<8.2	630	3.4	4	
ROB-MW5d	11/5/2014	22.3	6.82	0.7	7	108	14	2,564	1,700	92		0.042J														4	
ROB-MW5d	2/5/2015	21.8	6.81	0.8	10	115	3.0	3,145	2,200	83	0.16	<0.10	0.67	180	3.0	110	320	560	80	3.1	460	<8.2	<8.2	460	0.4	8	
ROB-MW5d	5/12/2015	22.7	6.86	1.3	14	75	3.0	2,627	1,600	77		0.030J														6	
ROB-MW5d	8/21/2015	*Well Dry*																									
ROB-MW5d	11/11/2015	*Well Dry*																									
ROB-MW5d	2/17/2016	21.6	6.85	0.4	5	111	14	2,734	2,200	87	0.023J	0.045J	0.32	160	2.9	99	280	380	77	3.6	520	<8.2	<8.2	520	0.2	5	
ROB-MW5d	5/17/2016	23.0	6.77	2.5	29	126	5.0	2,605	1,800	87		0.052J														5	
ROB-MW5d	8/16/2016	*Well Dry*																									
ROB-MW5d	11/29/2016	*Well Dry*																									
ROB-MW5d	3/14/2017	21.1	6.77	1.5	18	173	4.8	2,635	1,600	92	<0.050	0.040J	0.78	150	3.1	110	300	280	84	3.3	620	<8.2	<8.2	620	3.2	6	
ROB-MW5d	5/17/2017	21.4	6.62	0.7	9	152	3.4	2,700	2,000	93		0.020J														8	
ROB-MW5d	8/25/2017	22.0	6.70	0.8	9	88	4.0	2,616	1,900	91		0.060J														13	
ROB-MW5d	11/17/2017	20.9	6.77	0.8	8	265	3.4	2,682	1,800	87		0.024J														15	
ROB-MW5d	2/20/2018	20.5	6.81	0.9	10	106	4.7	2,658	1,800	76	0.016J	<0.10	0.96	150	5.3	96	280	320	79	5.5	630	<8.2	<8.2	630	-0.6	14	
ROB-MW5s	5/8/2018	22.0	6.61	1.9	22	156	7.0	2,678	1,800	73		0.034J														2	
ROB-MW5d	8/20/2018	22.1	7.35	1.5	21	112	1.0	2,703	1,900	72		0.15														15	
ROB-MW5d	11/13/2018	21.7	6.83	1.8	27	95	4.0	2,734	1,900	78		0.18														14	
ROB-MW5d	2/20/2019	20.9	6.71	1.0	12	168	2.0	2,805	2,000	83	0.025J	0.096J	0.97	150	3.1	100	290	370	86	3.1	570	<8.2	<8.2	570	-0.6	15	
ROB-MW5s	5/21/2019	20.2	6.97	2.7	39	92	10	2,671	1,900	64		<0.2														3	
ROB-MW5s	8/14/2019	23.3	6.76	2.6	31	82	19	2,739	1,700	66		0.11J														4	
ROB-MW5s	11/12/2019	23.3	6.81	2.2	31	197	6.0	2,626	1,700	84		<0.20														5	
ROB-MW6s	2/7/2012	18.1	6.93	1.1		182	6.0	2,131	1,500	64		0.031J														15	
ROB-MW6s	5/8/2012	18.9	6.96	5.7		199	3.0	1,985	1,100	27	<0.05*	3.6	4.2*	97	100	48	180	170	35	1.0*	570*	<8.2*	<8.2*	570	2.8	13	H
ROB-MW6s	8/13/2012	19.5	6.72	4.9		152	12	2,410	1,500	55	0.028J	7.9	9.3	110	100	54	200	220	40	0.50J	580	<8.2	<8.2	580	-0.6	10	
ROB-MW6s	12/4/2012	19.7	7.49	0.6		73	8.0	2,083	1,400	51		4.4														10	
ROB-MW6s	3/18/2013	19.1	6.77	0.4	4	181	2.0	2,299	1,500	52		2.4														11	
ROB-MW6s	5/28/2013	21.1	6.71	2.7	29	167	3.0	1,829	1,100	17		9.9														10	
ROB-MW6s	8/22/2013	19.6	6.71	0.5	6	203	2.0	2,209	1,600	85*	0.10	0.16	1.6	130	120	49	190	220	58	1.1	420	<8.2	<8.2	420	0.7	9	H
ROB-MW6s	11/13/2013	19.4	7.17	0.8	9	228	2.0	2,403	1,800	97		0.067														8	
ROB-MW6s	2/18/2014	17.6	6.30	0.7	8	266	2.0	2,015	1,300	26		3.6														7	
ROB-MW6s	5/20/2014	17.4	6.80	0.8	9	149	2.0	2,397	1,400	14		26														6	
ROB-MW6d	8/20/2014	17.7	6.19	0.7	8	202	4.0	2,695	1,600	100	0.16	0.056J	1.3	170	18	71	250	250	64	0.93	530	<8.2	<8.2	530	0	21	
ROB-MW6d	11/5/2014	20.1	6.87	0.5	5	120	8.0	2,461	1,600	96		0.039J														20	
ROB-MW6s	2/5/2015	19.9	6.95	0.7	8	48	2.0	2,753	2,000	120	0.31	<0.10	1.0	180	63	73	260	320	72	2.6	470	<8.2	<8.2	470	-0.3	6	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ROB-MW6s	5/12/2015	18.9	6.77	1.3	14	-40	3.0	2,269	1,100	8.7*		2.7														3	H
ROB-MW6d	8/21/2015	21.0	6.90	0.2	3	85	24	2,729	1,900	130		0.042J														18	
ROB-MW6d	11/11/2015	17.7	6.88	3.0	31	128	5.0	2,788	1,800	130		<0.10														18	
ROB-MW6s	2/17/2016	19.5	6.89	0.5	7	27	4.0	2,438	1,800	79	0.13	1.5	2.5	170	65	64	230	240	61	2.4	590	<8.2	<8.2	590	0.7	3	
ROB-MW6s	5/17/2016	20.6	6.78	1.7	19	57	6.0	2,302	1,500	19		6.6														4	
ROB-MW6d	8/16/2016	19.2	7.07	1.4	16	192	6.0	2,953	970	57		0.035J														18	
ROB-MW6d	11/29/2016	17.2	6.92	0.8	9	205	15	3,054	2,200	130		0.036J														17	
ROB-MW6s	3/14/2017	20.4	6.19	0.5	6	-127	12.3	4,038	3,600	10	0.072J	52	57	190	220	120	370	330	62	21	1,200	<8.2	<8.2	1,200	12.2	4	
ROB-MW6s	5/17/2017	20.0	5.69	0.6	8	-92	56.1	7,433	5,800	1.1		260														8	
ROB-MW6s	8/25/2017	21.0	6.64	0.4	5	-134	15	3,504	2,100	32		48														13	
ROB-MW6s	11/17/2017	19.9	6.75	0.3	4	-118	17.23	4,089	2,000	7.0		89														12	
ROB-MW6s	2/20/2018	19.5	6.68	1.5	15	-83	6.8	3,873	1,900	7.2	0.014J	93	92	190	250	94	200	390	82	4.6	1,300	<8.2	<8.2	1,300	-0.4	12	
ROB-MW6s	5/8/2018	20.6	6.59	1.3	16	-142	7.0	4,134	1,900	0.92		130														13	
ROB-MW6s	8/20/2018	20.0	7.38	1.3	24	-176	5.0	4,463	2,000	0.028J		140														12	
ROB-MW6s	11/13/2018	19.0	6.81	1.8	34	-127	6.0	3,527	1,700	0.67		77														10	
ROB-MW6s	2/20/2019	20.2	6.63	0.6	7	-14	4.0	3,358	1,400	4.8	0.18	46	45	150	150	110	270	360	34	5.0	1,200	<8.2	<8.2	1,200	1.1	13	
ROB-MW6s	5/21/2019	20.1	6.79	2.1	42	-110	4.0	3,743	2,700	8.1		73														14	
ROB-MW6s	8/14/2019	21.1	6.67	2.5	34	-98	3.0	3,295	1,500	11		54														16	
ROB-MW6s	11/12/2019	21.2	6.80	3.5	45	-78	4.0	2,372	1,500	16		22														15	
ROB-MW7s	2/7/2012	18.6	7.01	1.8		201	2.0	1,887	1,500	79		<0.05														16	
ROB-MW7s	5/8/2012	17.7	7.16	3.5		166	8.0	1,554	1,100	55	0.32*	0.063	0.50*	97	14	36	140	190	50	5.8*	200*	<8.2*	<8.2*	200	0	15	H
ROB-MW7s	8/13/2012	21.2	7.00	3.2		166	9.5	1,025	670	35	0.071	<0.05	0.59	58	11	28	100	41	44	5.9	240	<4.1	<4.1	240	2.7	10	
ROB-MW7s	12/4/2012	21.2	7.72	1.2		75	11	1,397	990	58		<0.050														11	
ROB-MW7s	3/18/2013	19.9	7.18	1.3	15	166	9.2	1,114	740	44		0.038J														11	
ROB-MW7s	5/28/2013	21.6	7.05	4.7	51	158	12	1,048	730	38		0.031J														10	
ROB-MW7s	8/22/2013	21.2	7.07	1.3	13	176	4.0	1,370	1,000	62	<0.050	0.029J	0.28	68	11	42	140	88	76	4.6	250	<8.2	<8.2	250	0.2	8	
ROB-MW7s	11/13/2013	21.5	7.41	0.7	8	211	5.0	1,470	1,000	62		0.037J														9	
ROB-MW7s	2/18/2014	19.5	6.57	1.7	20	251	2.0	1,405	870	53		<0.050														8	
ROB-MW7s	5/20/2014	19.0	7.12	1.7	19	130	4.0	1,441	1,000	63		0.18														7	
ROB-MW7d	8/20/2014	19.1	6.56	1.1	11	190	4.0	1,512	950	57	<0.050	<0.10	0.62	120	3.2	37	110	100	53	0.75	270	<8.2	<8.2	270	1.5	18	
ROB-MW7s	11/5/2014	21.6	7.18	0.7	8	112	695	1,431	960	58		<0.10														4	
ROB-MW7s	2/5/2015	20.7	7.31	0.6	7	100	3.0	1,524	1,000	64	<0.05	<0.1	<0.2	120	7.2	46	150	140	47	2.7	260	<8.2	<8.2	260	6	7	
ROB-MW7s	5/12/2015	20.3	7.12	2.3	25	-26	5.0	1,543	960	64		0.026J														5	
ROB-MW7d	8/21/2015	22.1	7.52	1.8	20	91	17	1,552	1,100	62		<0.10														14	
ROB-MW7s	11/11/2015	19.5	7.37	2.7	30	102	640	1,416	1,000	60		<0.10														1	
ROB-MW7s	2/17/2016	20.8	7.44	0.8	10	108	136	1,436	1,000	59	<0.050	0.030J	0.18J	100	6.2	42	130	130	39	3.2	250	<8.2	<8.2	250	2.3	4	
ROB-MW7s	5/17/2016	24.0	7.09	2.2	26	136	5.0	1,310	1,000	60		0.036J														4	
ROB-MW7d	8/16/2016	20.4	7.69	1.9	20	178	32	1,572	2,000	140		0.041J														14	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																		----Alkalinity as CaCO3----						
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ROB-MW7d	11/29/2016	19.5	7.43	1.2	13	187	8.0	1,568	1,000	55		<0.10														20	
ROB-MW7s	3/14/2017	21.1	7.28	0.9	10	153	7.3	1,425	1,000	59	<0.050	<0.20	0.18J	110	4.9	46	130	140	45	1.5	260	<8.2	<8.2	260	2.8	6	
ROB-MW7s	5/17/2017	20.5	6.94	0.8	9	134	3.5	1,455	1,000	60		0.028J														9	
ROB-MW7s	8/25/2017	22.3	7.01	2.0	24	97	8.0	1,431	1,100	59		0.038J														14	
ROB-MW7s	11/17/2017	21.3	7.26	2.0	22	220	14.51	1,617	1,100	64		0.050J														14	
ROB-MW7s	2/20/2018	20.0	6.96	3.3	35	21	5.1	1,490	1,100	65	<0.050	<0.10	0.36	81	13	41	140	130	60	4.5	270	<8.2	<8.2	270	-3	14	
ROB-MW7s	5/8/2018	20.2	6.86	2.8	32	202	6.0	1,557	1,100	69		0.14														14	
ROB-MW7s	8/20/2018	21.4	7.58	2.5	36	5	3.0	1,636	1,200	84		0.15														14	
ROB-MW7s	11/13/2018	21.6	7.01	2.4	33	-37	3.0	1,781	1,300	91		0.13														12	
ROB-MW7s	2/20/2019	20.1	6.89	2.3	26	188	1.0	1,575	1,200	88	<0.050	0.18J	0.18J	70	15	42	160	98	68	4.0	230	<8.2	<8.2	230	-1	15	
ROB-MW7s	5/21/2019	19.3	7.09	3.8	49	18	3.0	1,518	1,200	79		0.71														16	
ROB-MW7s	8/14/2019	21.9	6.96	3.0	29	4	2.0	QM	1,100	72		0.088J														17	
ROB-MW7s	11/12/2019	22.4	7.22	2.3	31	187	4.0	1,348	960	59		<0.20														16	
ROB-MW8s	2/7/2012	19.1	6.96	1.6		183	284	2,074	1,400	43		0.065														17	
ROB-MW8s	5/8/2012	19.5	6.92	3.1		186	13	2,153	1,200	45	<0.05*	0.056	0.47*	120	2.6	74	170	160	88	0.14J*	540*	<8.2*	<8.2*	540	-1.2	15	H
ROB-MW8s	8/13/2012	19.7	6.81	3.0		147	18	2,123	1,300	49	<0.05	0.035J	0.48	120	2.5	78	230	160	98	0.27	570	<8.2	<8.2	570	3.9	9	
ROB-MW8s	12/4/2012	19.7	7.51	0.8		82	21	2,162	1,500	47		<0.050														12	
ROB-MW8s	3/18/2013	18.8	6.73	0.9	10	225	2.7	2,294	1,400	50		0.050														12	
ROB-MW8s	5/28/2013	20.5	6.74	1.3	10	161	7.0	2,130	1,400	54		0.17														11	
ROB-MW8s	8/22/2013	20.1	6.94	0.6	7	181	5.0	2,218	1,400	65	0.0021J	2.4	2.0	110	10	85	240	170	130	0.27	600	<8.2	<8.2	600	0.1	7	
ROB-MW8s	11/13/2013	19.7	7.21	0.7	7	223	3.0	2,385	1,300	54		0.81														10	
ROB-MW8s	2/18/2014	19.3	6.46	1.3	13	256	1.0	2,206	1,400	51		0.43														8	
ROB-MW8s	5/20/2014	19.3	6.84	1.1	12	141	4.0	2,148	1,200	59		0.37														7	
ROB-MW8d	8/20/2014	18.3	6.10	1.1	12	196	36	2,513	1,200	61	0.028J	1.1	1.7	130	8.0	90	260	170	110	0.55	700	<8.2	<8.2	700	1.7	17	
ROB-MW8s	11/5/2014	20.7	6.86	0.5	6	116	35	2,538	1,500	57		0.89														4	
ROB-MW8s	2/5/2015	19.7	7.01	0.7	8	108	4.0	2,390	1,500	45	<0.05	1.3	1.5	130	9.2	98	280	190	88	0.21	780	<8.2	<8.2	780	3.7	8	
ROB-MW8s	5/12/2015	21.1	7.05	1.9	22	16	8.0	2,383	1,200	81		0.33														3	
ROB-MW8d	8/21/2015	21.5	7.11	1.6	18	114	41	2,556	1,500	60		0.063J														13	
ROB-MW8d	11/11/2015	18.5	7.01	1.6	17	93	202	2,561	1,500	52		<0.10														19	
ROB-MW8s	2/17/2016	20.3	6.96	0.5	7	90	37	2,358	1,600	42	<0.050	0.25	0.81	130	5.6	94	270	190	81	0.52	810	<8.2	<8.2	810	1.4	4	
ROB-MW8s	5/17/2016	22.4	6.99	3.1	36	145	5.0	2,213	1,400	59		0.078J														3	
ROB-MW8d	8/16/2016	20.0	7.16	1.7	19	189	99	2,559	1,300	65		0.029J														11	
ROB-MW8d	11/29/2016	18.1	7.03	1.3	14	204	42	2,548	1,600	46		0.046J														19	
ROB-MW8s	3/14/2017	20.4	7.01	0.6	7	176	29.6	2,286	1,500	39	<0.050	0.042J	0.65	140	5.2	98	300	200	85	0.34	840	<8.2	<8.2	840	4	6	
ROB-MW8s	5/17/2017	20.5	6.73	0.8	9	157	8.5	2,277	1,400	35		0.045J														9	
ROB-MW8s	8/25/2017	20.9	6.89	0.5	6	113	14	2,212	1,300	37		0.13														13	
ROB-MW8s	11/17/2017	19.1	6.99	0.7	7	230	31.10	2,141	1,300	33		0.11														14	
ROB-MW8s	2/20/2018	19.5	6.90	1.2	13	75	5.5	2,339	1,100	50	<0.050	<0.10	0.76	130	4.5	84	250	190	96	0.33	760	<8.2	<8.2	760	-1.9	14	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ROB-MW8s	5/8/2018	21.0	6.68	1.4	17	179	6.0	2,386	1,400	59		<0.10														14	
ROB-MW8s	8/20/2018	20.5	7.53	2.2	34	53	5.0	2,326	1,600	79		0.13														13	
ROB-MW8s	11/13/2018	20.6	6.91	2.1	32	25	6.0	2,335	1,400	91		0.15														13	
ROB-MW8s	2/20/2019	20.2	6.74	0.7	8	190	2.0	2,437	1,200	53	<0.050	0.098J	0.73	130	4.5	93	270	200	90	0.27	770	<8.2	<8.2	770	0.4	16	
ROB-MW8s	5/21/2019	19.6	6.95	2.6	35	42	2.0	2,345	1,400	80		<0.2														16	
ROB-MW8s	8/14/2019	21.0	6.93	2.9	38	41	2.0	2,298	1,400	95		<0.2														17	
ROB-MW8s	11/12/2019	21.2	7.08	2.6	36	216	4.0	2,257	1,400	80		<0.20														17	
WOO-MW1	3/21/2013	17.9	7.18	2.2	23	190	46	1,390	900	16		<0.050														11	
WOO-MW1	5/28/2013	18.7	7.26	5.9	63	142	43	1,387	980	18		0.025J														9	
WOO-MW1	8/20/2013	18.7	7.07	5.7	61	224	355	1,495	810	18	0.0065J	0.055	0.35	80	1.6	62	150	110	66	1.6	530	<8.2	<8.2	530	-0.9	5	
WOO-MW1	11/11/2013	16.5	6.84	5.8	59	277	69	1,577	980	22		<0.050														7	
WOO-MW1	2/17/2014	17.2	6.49	5.3	55	250	13	1,633	1,000	20		<0.050														9	
WOO-MW1	5/27/2014	18.1	7.05	4.2	45	76	26	1,662	1,100	22		<0.10														7	
WOO-MW1	8/18/2014	19.0	7.45	4.9	52	99	9.0	1,492	740	18	<0.050	<0.10	0.10J	87	1.9	61	150	110	61	0.27	510	<8.2	<8.2	510	1.5	4	
WOO-MW1	11/4/2014	18.2	7.08	4.9	51	93	66	1,453	770	16		<0.10														5	
WOO-MW1	2/3/2015	17.6	6.99	4.6	44	172	21	1,435	960	16	<0.050	<0.10	0.19J	93	1.8	61	150	110	60	<0.15	500	<8.2	<8.2	500	3.4	9	
WOO-MW1	5/28/2015	18.5	6.86	4.6	46	56	8.0	1,760	850	33		0.050J														7	
WOO-MW1	8/13/2015	20.2	6.94	5.5	58	70	23	1,665	940	31		0.033J														4	
WOO-MW1	11/19/2015	17.5	6.05	5.5	58	191	34	1,800	1,000	38		0.030J														6	
WOO-MW1	2/17/2016	17.7	7.30	6.7	69	94	14	1,527	1,000	28	<0.050	<0.10	0.20	93	1.8	66	160	120	60	0.27	520	<8.2	<8.2	520	1.4	9	
WOO-MW1	5/16/2016	18.8	6.97	7.4	80	116	6.0	1,766	1,000	43		0.051J														9	
WOO-MW1	8/15/2016	18.6	6.94	6.3	69	245	7.0	1,842	880	48		<0.10														4	
WOO-MW1	11/16/2016	17.6	6.92	5.2	56	162	9.0	1,893	1,200	54		0.033J														7	
WOO-MW1	3/13/2017	18.6	6.96	4.4	44	200	10	1,653	850	36	<0.050	0.090J	0.20	100	2.0	72	180	110	61	0.31	540	<8.2	<8.2	540	4.2	12	
WOO-MW1	5/31/2017	20.0	6.93	5.5	61	207	32	1,717	840	42		<0.10														14	
WOO-MW1	8/23/2017	18.6	6.70	6.7	72	109	95	1,550	700	37		0.027J														11	
WOO-MW1	11/13/2017	18.2	6.65	5.6	65	196	14.46	1,428	960	32		0.18														13	
WOO-MW1	2/28/2018	17.3	7.13	5.6	68	134	10	1,560	880	22	<0.050	0.056J	0.099J	96	1.7	54	140	100	69	0.53	520	<8.2	<8.2	520	-1.8	16	
WOO-MW1	5/13/2018	18.4	6.89	5.2	65	176	48	1,536	1,000	28		0.025J														16	
WOO-MW1	8/15/2018	19.1	6.98	5.2	55	107	49	1,566	1,000	49		<0.10														11	
WOO-MW1	11/8/2018	18.1	6.95	5.4	55	195	40.1	1,641	1,100	50		0.047J														12	
WOO-MW1	2/25/2019	17.0	6.99	5.2	50	132	8.0	1,559	980	29	<0.050	0.062J	0.31	110	1.7	61	160	110	79	0.68	520	<8.2	<8.2	520	1.7	15	
WOO-MW1	5/29/2019	18.9	6.90	3.5	42	88	43	1,598	1,000	42		<0.2														17	
WOO-MW1	8/14/2019	18.5	6.84	5.1	56	183	62	1,751	1,000	60		0.11J														13	
WOO-MW1	11/14/2019	18.2	6.88	4.9	59	221	35	1,696	960	59		0.095J														14	
WOO-MW2	3/21/2013	19.0	7.50	1.6	16	210	12	1,125	710	24		0.018J														13	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																		----Alkalinity as CaCO3----						
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
WOO-MW2	5/28/2013	19.6	7.63	6.6	72	142	26	1,065	740	24		0.025J														12	
WOO-MW2	8/20/2013	20.2	7.40	6.3	68	160	237	1,116	700	21	0.0067J	0.056	0.23	58	1.5	49	110	75	47	1.8	370	<8.2	<8.2	370	0.2	8	
WOO-MW2	11/11/2013	18.1	7.22	6.4	78	268	62	1,134	740	23		<0.050														10	
WOO-MW2	2/17/2014	17.7	6.82	5.8	59	244	17	1,266	720	26		<0.050														11	
WOO-MW2	5/27/2014	18.8	7.20	4.9	51	70	32	1,137	710	21		<0.10														11	
WOO-MW2	8/18/2014	18.7	7.90	5.5	65	102	18	1,227	640	23	<0.050	<0.10	0.099J	65	1.7	52	110	78	35	0.70	370	<8.2	<8.2	370	2.6	7	
WOO-MW2	11/4/2014	18.0	7.27	5.6	60	99	105	1,217	590	20		<0.10														8	
WOO-MW2	2/3/2015	17.9	7.20	5.6	59	140	29	1,201	800	17	<0.050	<0.10	0.13J	68	1.6	54	120	99	37	0.21	390	<8.2	<8.2	390	3.3	11	
WOO-MW2	5/28/2015	19.0	7.06	5.7	60	32	5.0	1,224	590	14		0.037J														10	
WOO-MW2	8/13/2015	21.5	7.43	6.4	68	56	8.0	1,227	700	15		<0.10														7	
WOO-MW2	11/19/2015	17.4	6.50	6.4	68	187	38	1,311	760	14		0.026J														9	
WOO-MW2	2/17/2016	18.3	7.42	6.0	65	91	17	1,238	800	13	<0.050	<0.10	0.23	69	1.7	57	120	120	34	0.46	440	<8.2	<8.2	440	-0.4	11	
WOO-MW2	5/16/2016	18.4	7.10	4.3	45	131	8.0	1,296	820	9.8		0.059J														12	
WOO-MW2	8/15/2016	18.7	7.30	5.8	62	214	56	1,346	650	13		<0.10														7	
WOO-MW2	11/16/2016	17.6	7.10	6.0	65	149	11	1,354	860	15		0.038J														9	
WOO-MW2	3/13/2017	18.6	7.08	4.9	50	194	15	1,333	660	23	<0.050	0.024J	0.27	80	1.2	69	140	92	39	0.61	480	<8.2	<8.2	480	4.9	16	
WOO-MW2	5/31/2017	18.9	7.48	6.2	67	202	22.5	1,317	670	20		<0.10														18	
WOO-MW2	8/23/2017	18.3	6.87	5.6	60	98	34	1,488	690	35		0.041J														14	
WOO-MW2	11/13/2017	17.9	7.46	5.2	54	211	10.73	1,263	830	31		0.048J														16	
WOO-MW2	2/28/2018	17.1	7.14	5.4	68	154	5.0	1,360	810	25	<0.050	0.033J	0.12J	68	1.2	56	120	72	33	0.42	480	<8.2	<8.2	480	-1.9	19	
WOO-MW2	5/13/2018	18.3	7.34	5.7	70	168	27	1,233	800	24		0.022J														18	
WOO-MW2	8/15/2018	18.3	7.13	4.7	59	150	17	1,064	700	20		<0.10														14	
WOO-MW2	11/8/2018	17.8	7.21	5.6	60	193	40.9	1,144	760	20		0.059J														14	
WOO-MW2	2/25/2019	17.0	7.25	5.6	60	121	10	974	580	17	<0.050	0.057J	0.16J	62	0.97J	44	95	28	26	0.50	420	<4.1	<4.1	420	0.6	18	
WOO-MW2	5/29/2019	18.5	7.14	3.7	44	103	37	934	630	18		<0.2														20	
WOO-MW2	8/14/2019	18.4	7.11	5.5	60	186	23	1,163	680	27		<0.2														17	
WOO-MW2	11/14/2019	18.0	7.12	6.9	83	238	21	1,153	700	27		0.092J														17	
WOO-MW3	3/21/2013	17.7	7.20	1.5	15	188	30	1,609	1,000	49		0.028J														14	
WOO-MW3	5/28/2013	18.3	7.27	5.1	54	140	22	1,460	1,000	46		0.029J														12	
WOO-MW3	8/20/2013	20.3	7.55	5.1	55	130	15	1,507	940	46	0.0063J	0.045J	0.40	93	1.1	58	140	94	68	0.10J	450	<8.2	<8.2	450	-1.6	7	
WOO-MW3	11/11/2013	17.4	7.08	5.4	59	254	2.0	1,524	980	44		<0.050														10	
WOO-MW3	2/17/2014	16.8	6.56	4.4	46	240	3.0	1,710	1,000	46		0.021J														12	
WOO-MW3	5/27/2014	19.1	7.15	4.1	48	68	43	1,578	1,000	47		<0.10														11	
WOO-MW3	8/18/2014	19.0	7.72	5.1	54	99	7.0	1,757	990	62	<0.050	<0.10	0.20	110	1.4	68	160	98	64	0.27	440	<8.2	<8.2	440	3	7	
WOO-MW3	11/4/2014	17.7	7.07	4.3	48	80	19	1,730	880	59		<0.10														9	
WOO-MW3	2/3/2015	17.5	7.10	5.2	53	130	9.0	1,620	1,100	48	<0.050	<0.10	0.29	110	1.3	67	160	100	66	<0.15	470	<8.2	<8.2	470	3.7	12	
WOO-MW3	5/28/2015	19.0	7.02	4.9	51	49	12	1,690	920	63		0.030J														10	
WOO-MW3	8/13/2015	21.6	7.08	7.5	82	55	11	1,779	1,100	70		0.043J														6	

Table 4-6
Groundwater Quality

Well	Date	-------Field Measurements------- T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	----Alkalinity as CaCO3---- Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
WOO-MW3	11/19/2015	17.4	6.34	4.5	48	187	23	1,796	1,100	66		<0.10														10	
WOO-MW3	2/17/2016	17.6	7.10	3.6	38	92	8.0	1,613	1,100	58	<0.050	<0.10	0.33	110	1.2	68	160	100	60	0.10J	450	<8.2	<8.2	450	3.3	12	
WOO-MW3	5/16/2016	18.5	6.74	3.7	40	132	4.0	1,825	640	61		0.047J														12	
WOO-MW3	8/15/2016	18.9	7.05	5.4	58	218	17	1,612	860	51		<0.10														7	
WOO-MW3	11/16/2016	16.9	6.89	4.4	45	153	5.0	1,649	1,100	56		0.033J														10	
WOO-MW3	3/13/2017	18.5	6.87	3.6	39	193	12	1,671	880	52	<0.050	0.031J	0.24	110	1.4	72	170	96	61	0.32	490	<8.2	<8.2	490	4.7	12	
WOO-MW3	5/31/2017	20.2	7.75	4.4	53	202	11	1,615	900	52		0.025J														18	
WOO-MW3	8/23/2017	19.3	6.79	5.0	53	74	30	1,593	1,300	53		0.027J														15	
WOO-MW3	11/13/2017	18.8	7.39	3.9	43	207	14.52	1,505	1,000	55		0.033J														16	
WOO-MW3	2/28/2018	17.1	7.05	4.6	56	132	5.0	1,694	1,000	50	<0.050	0.025J	0.20	100	1.1	63	160	99	57	0.086J	470	<8.2	<8.2	470	1.7	19	
WOO-MW3	5/13/2018	18.5	7.12	4.4	56	140	18	1,616	1,100	51		0.032J														19	
WOO-MW3	8/15/2018	19.2	6.94	4.7	50	85	9.0	1,455	930	47		0.024J														14	
WOO-MW3	11/8/2018	17.9	6.97	5.7	61	203	9.0	1,490	990	45		0.034J														15	
WOO-MW3	2/25/2019	17.3	6.97	5.7	62	129	12	1,560	940	48	<0.050	0.052J	0.31	95	1.2	62	150	96	54	0.13J	450	<8.2	<8.2	450	1.5	19	
WOO-MW3	5/29/2019	18.2	6.82	3.9	46	116	23	1,402	980	38		0.070J														19	
WOO-MW3	8/14/2019	18.1	6.92	5.4	58	176	10	1,398	820	32		<0.2														16	
WOO-MW3	11/14/2019	17.7	6.97	5.3	72	234	5.0	1,325	780	31		0.10J														17	

Central Area-West Side

ANT-MW1d	2/9/2012	20.1	6.87	1.6		174	289	2,136	1,400	28		<0.05														14	
ANT-MW1d	5/10/2012	19.4	6.93	2.1		222	23	2,236	1,300	27	0.019J*	0.026J	0.82*	150	5.1	100	85	190	120	0.085J*	490*	<8.2*	<8.2*	490	-1.2	15	H
ANT-MW1s	8/15/2012	21.0	6.72	3.0		224	1.5	1,888	1,100	24	0.015J	0.031J	0.89	130	4.0	85	130	170	130	<0.15	530	<8.2	<8.2	530	-1.5	6	
ANT-MW1d	12/10/2012	19.4	7.24	1.5		89	173	1,532	970	17		<0.050														13	
ANT-MW1s	3/22/2013	19.1	7.68	6.0	63	133	75	1,721	1,100	33		0.031J														2	
ANT-MW1d	5/30/2013	19.2	7.04	1.9	31	201	8.0	1,669	1,100	30		0.032J														15	
ANT-MW1s	8/27/2013	21.7	6.93	0.7	8	211	19	1,683	940	27	0.0025J	0.040J	0.66	110	4.8	83	130	150	130	0.37	460	<8.2	<8.2	460	0.4	6	
ANT-MW1d	11/14/2013	22.6	7.23	1.1	13	194	10	1,813	1,100	26		0.026J														12	
ANT-MW1d	2/19/2014	18.1	7.45	1.3	15	223	484	1,873	1,100	26		<0.050														5	
ANT-MW1d	5/22/2014	20.1	7.27	5.8	60	142	518	1,765	1,200	25		<0.10														1	
ANT-MW1d	8/21/2014	20.7	7.09	0.9	10	144	207	1,889	1,000	26	<0.050	0.049J	0.88	130	4.4	100	130	170	130	1.6	540	<8.2	<8.2	540	0.7	5	
ANT-MW1d	11/7/2014	20.0	6.99	1.6	13	109	245	2,144	1,300	39		<0.10														4	
ANT-MW1d	2/6/2015	18.3	7.01	1.3	14	144	32	2,334	1,400	54	<0.05	<0.1	1.2	160	5.1	140	180	230	120	5.3	590	<8.2	<8.2	590	5.3	0	D
ANT-MW1d	5/13/2015	*Well Dry*																									
ANT-MW1d	8/19/2015	*Well Dry*																									
ANT-MW1d	11/19/2015	*Well Dry*																									
ANT-MW1d	2/24/2016	*Well Dry*																									
ANT-MW1d	5/18/2016	*Well Dry*																									

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ANT-MW1d	8/17/2016	23.4	6.91	3.0	35	200	99	2,143	1,300	35		<0.10														6	
ANT-MW1d	11/29/2016	*Well Dry*																									
ANT-MW1d	3/16/2017	*Well Dry*																									
ANT-MW1d	5/18/2017	21.6	6.80	0.6	7	193	45	1,969	1,200	32		0.078J														5	
ANT-MW1d	8/29/2017	22.5	6.98	1.2	14	102	20	2,229	1,600	84		0.053J														12	
ANT-MW1d	11/21/2017	21.2	6.80	0.5	6	261	18.34	2,269	1,400	58		0.027J														9	
ANT-MW1d	2/21/2018	19.2	7.04	1.0	11	220	13.56	2,178	1,400	51	0.010J	0.039J	0.58	150	5.8	110	160	180	120	0.081J	650	<8.2	<8.2	650	-1.1	7	
ANT-MW1d	5/15/2018	20.8	6.80	0.8	10	175	11	2,273	1,300	52		0.056J														6	
ANT-MW1d	8/20/2018	22.0	6.64	0.7	7	201	7.0	2,218	1,500	66		<0.10														11	
ANT-MW1d	11/14/2018	21.5	6.70	0.7	8	249	6.0	2,042	1,300	55		0.11														9	
ANT-MW1d	2/26/2019	18.5	7.27	2.6	41	134	21	1,987	1,200	55	0.010J	0.10J	0.74	140	6.0	110	150	160	120	0.50	610	<8.2	<8.2	610	-0.8	7	
ANT-MW1d	5/23/2019	21.9	6.79	2.6	35	142	5.0	2,181	1,300	55		0.077J														8	
ANT-MW1d	8/15/2019	21.7	6.87	2.3	25	108	13	2,947	1,800	150		<0.2														12	
ANT-MW1d	11/14/2019	19.4	6.90	1.8	33	163	24	2,212	1,400	52		0.12J														12	
ANT-MW2s	2/9/2012	21.1	7.03	1.8		180	170	2,803	1,800	61		<0.05														10	
ANT-MW2s	5/10/2012	21.1	6.99	1.4		240	97	3,263	1,700	64	0.011J*	<0.05	0.13J*	210	3.8	180	120	400	210	0.39*	500*	<8.2*	<8.2*	500	-0.3	11	H
ANT-MW2s	8/15/2012	21.5	6.97	1.4		216	14	2,756	1,600	53	0.011J	<0.05	<0.2	180	3.6	160	150	320	210	<0.15	580	<8.2	<8.2	580	-0.4	11	
ANT-MW2s	12/10/2012	23.3	7.20	1.6		108	80	3,450	2,100	81		<0.050														7	
ANT-MW2s	3/22/2013	18.5	7.59	2.5	28	195	215	1,878	1,200	33		0.020J														10	
ANT-MW2s	5/30/2013	20.3	7.45	1.0	10	151	6.0	2,351	1,400	44		0.029J														10	
ANT-MW2s	8/27/2013	22.6	7.21	0.8	8	157	9.0	2,842	1,500	54	<0.050	0.031J	0.18J	190	3.7	180	150	320	180	0.16	600	<8.2	<8.2	600	3.4	8	
ANT-MW2s	11/14/2013	20.4	7.15	2.1	23	225	94	3,476	2,100	71		0.024J														4	
ANT-MW2d	2/19/2014	18.5	7.59	2.6	30	222	80	1,747	1,000	18		<0.050														19	
ANT-MW2d	5/22/2014	20.1	7.46	3.0	35	134	37	1,606	1,100	17		<0.10														16	
ANT-MW2d	8/21/2014	20.8	7.33	2.9	33	144	23	1,660	1,400	17	<0.050	<0.10	0.26	110	2.8	84	110	140	130	0.21	450	<8.2	<8.2	450	1.1	17	
ANT-MW2d	11/7/2014	19.7	7.22	2.5	28	128	76	1,699	1,000	17		<0.10														15	
ANT-MW2d	2/6/2015	19.2	7.44	2.7	30	137	32	1,598	960	15	<0.05	<0.1	0.2	120	3	86	120	140	130	0.23	430	<8.2	<8.2	430	5.9	14	
ANT-MW2d	5/13/2015	20.3	7.41	3.2	34	120	60	1,600	1,000	17		<0.10														13	
ANT-MW2d	8/19/2015	21.0	7.80	1.7	26	71	17	1,635	920	21		<0.10														12	
ANT-MW2d	11/19/2015	19.8	7.25	2.2	25	92	158	1,691	990	23		<0.10														9	
ANT-MW2d	2/24/2016	20.0	7.31	3.0	33	87	71	1,728	1,100	22	<0.050	<0.10	0.24	130	3.3	96	120	170	140	0.32	460	<8.2	<8.2	460	3	9	
ANT-MW2d	5/18/2016	21.4	7.24	2.6	31	136	18	1,716	990	21		0.051J														9	
ANT-MW2d	8/17/2016	21.3	7.44	4.4	49	190	26	1,735	1,100	23		<0.10														15	
ANT-MW2d	11/29/2016	20.3	7.40	2.9	33	148	9.0	1,717	1,200	30		<0.10														12	
ANT-MW2d	3/16/2017	21.1	7.23	2.9	33	104	19	1,740	1,100	26	<0.050	0.042J	0.22	140	3.3	99	140	180	150	0.49	460	<8.2	<8.2	460	5	14	
ANT-MW2d	5/18/2017	22.4	7.26	0.4	5	171	28	1,773	1,200	32		0.077J														18	
ANT-MW2s	8/29/2017	21.8	7.24	3.3	39	109	62	1,937	1,300	37		0.027J														5	
ANT-MW2d	11/21/2017	19.6	6.70	4.0	44	303	17.68	1,971	1,200	36		0.030J														22	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ANT-MW2s	2/21/2018	19.6	7.34	3.4	38	224	21.5	1,995	1,200	37	<0.050	<0.10	0.30	150	3.5	98	150	220	170	0.17	500	<8.2	<8.2	500	-0.5	4	
ANT-MW2s	5/15/2018	21.3	7.07	3.1	36	182	45	2,731	1,500	57		0.050J														3	
ANT-MW2s	8/20/2018	22.5	6.99	1.4	14	197	10	2,240	1,600	45		<0.10														6	
ANT-MW2s	11/15/2018	20.3	6.85	3.4	37	242	61	2,795	1,500	63		0.084J														3	
ANT-MW2d	2/26/2019	*Well Not Accessible*																									
ANT-MW2s	5/23/2019	22.3	6.95	3.3	42	150	35	2,931	1,800	68		<0.2														5	
ANT-MW2s	8/15/2019	22.5	7.34	3.3	38	137	11	2,263	1,400	47		<0.2														7	
ANT-MW2s	11/14/2019	20.5	7.08	2.4	35	135	28	2,534	1,400	48		0.094J														6	
ANT-MW3s	2/9/2012	19.9	6.99	1.6		180	152	1,652	1,100	25		<0.05														10	
ANT-MW3s	5/10/2012	19.9	7.01	1.7		228	59	1,600	960	19	0.011J*	<0.05	0.12J*	110	4.7	71	92	150	120	0.23*	360*	<8.2*	<8.2*	360	0.2	11	H
ANT-MW3s	8/15/2012	20.3	6.88	2.0		199	40	2,023	1,200	38	<0.05	<0.05	0.37	130	6.9	100	130	190	150	<0.15	500	<8.2	<8.2	500	-1.5	15	
ANT-MW3s	12/10/2012	21.2	7.29	1.7		92	239	1,739	1,100	30		<0.050														9	
ANT-MW3s	3/22/2013	17.5	7.78	3.0	34	146	222	1,506	1,000	23		0.025J														11	
ANT-MW3s	5/30/2013	18.8	7.64	1.1	13	139	8.0	1,529	1,000	20		0.018J														11	
ANT-MW3s	8/27/2013	21.1	7.07	3.2	33	199	80	1,447	840	18	<0.050	0.034J	<0.20	110	6.2	71	110	140	130	0.21	370	<8.2	<8.2	370	2.9	12	
ANT-MW3s	11/14/2013	19.7	7.20	2.7	28	190	85	1,718	1,100	24		0.020J														6	
ANT-MW3s	2/19/2014	18.3	7.57	3.4	37	223	89	1,821	1,100	26		<0.050														2	
ANT-MW3d	5/22/2014	19.5	7.43	3.2	36	144	55	1,775	1,200	29		<0.10														16	
ANT-MW3d	8/21/2014	20.3	7.30	2.4	26	147	17	1,772	1,000	23	<0.050	<0.10	0.29	120	2.6	89	120	150	130	0.095J	450	<8.2	<8.2	450	2.8	18	
ANT-MW3d	11/7/2014	18.7	7.29	2.9	31	135	60	1,776	1,100	24		<0.10														17	
ANT-MW3d	2/6/2015	18.1	7.54	3.1	33	132	45	1,832	1,100	28	<0.05	<0.1	<0.2	140	2.9	99	120	160	140	0.24	470	<8.2	<8.2	470	3.7	14	
ANT-MW3d	5/13/2015	19.1	7.33	3.2	35	121	79	1,707	1,100	24		<0.10														14	
ANT-MW3d	8/19/2015	20.1	8.03	2.0	29	81	15	1,592	940	20		<0.10														14	
ANT-MW3d	11/19/2015	18.6	7.32	2.3	24	91	194	1,711	1,000	24		<0.10														10	
ANT-MW3d	2/24/2016	19.0	7.38	2.9	32	104	381	1,787	1,200	26	<0.050	0.034J	0.27	140	2.7	99	120	180	150	0.90	470	<8.2	<8.2	470	2	8	
ANT-MW3d	5/18/2016	20.3	7.50	2.7	30	137	13	1,796	1,100	25		0.11														10	
ANT-MW3d	8/17/2016	20.4	7.39	3.8	42	197	31	1,724	1,100	22		<0.10														17	
ANT-MW3d	11/29/2016	19.0	7.30	3.6	40	131	28	1,818	1,200	36		<0.10														13	
ANT-MW3d	3/16/2017	19.8	7.20	2.9	32	96	20	1,783	1,200	29	<0.050	0.034J	0.23	140	2.9	100	150	180	150	0.52	480	<8.2	<8.2	480	4.8	15	
ANT-MW3d	5/18/2017	20.4	7.25	0.5	5	174	17	1,864	1,200	34		0.078J														19	
ANT-MW3s	8/29/2017	21.0	6.92	2.4	27	109	10	1,703	1,200	35		0.035J														6	
ANT-MW3s	11/21/2017	19.1	7.06	2.1	22	283	9.7	2,182	1,400	55		0.027J														5	
ANT-MW3s	2/21/2018	19.0	7.23	1.9	21	230	11.57	2,246	1,400	59	<0.050	0.026J	0.14J	150	3.5	110	180	230	160	0.20	530	<8.2	<8.2	530	0	3	
ANT-MW3s	5/15/2018	19.8	7.00	1.8	21	211	10	2,247	1,300	55		0.036J														2	
ANT-MW3s	8/20/2018	21.4	6.94	1.2	12	212	6.0	2,139	1,500	45		<0.10														6	
ANT-MW3s	11/15/2018	19.1	6.92	3.2	35	264	8.0	2,402	1,300	67		0.085J														3	
ANT-MW3s	2/26/2019	19.0	7.00	2.6	41	86	7.0	2,238	1,500	63	<0.050	0.067J	0.047J	140	3.7	120	180	250	170	<0.15	550	<8.2	<8.2	550	-2	3	
ANT-MW3s	5/23/2019	20.1	7.09	2.9	36	138	4.0	2,444	1,500	68		0.074J														4	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----				
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ANT-MW3s	8/15/2019	25.7	7.28	3.8	44	111	3.0	1,974	1,200	37		<0.2														7	
ANT-MW3s	11/14/2019	19.6	7.06	1.7	29	121	5.0	2,413	1,400	57*		0.091J														6	H
ANT-MW4s	2/9/2012	20.5	6.94	1.9		194	990	2,290	1,600	34		<0.05														10	
ANT-MW4s	5/10/2012	20.7	6.96	1.8		235	267	2,361	1,400	27	<0.05*	<0.05	0.13J*	150	2.7	160	98	190	150	0.60*	710*	<8.2*	<8.2*	710	0.1	11	H
ANT-MW4s	8/15/2012	22.1	6.85	1.5		211	95	2,321	1,400	28	<0.05	<0.05	0.079J	130	2.4	180	95	210	160	<0.15	720	<8.2	<8.2	720	-0.7	11	
ANT-MW4s	12/10/2012	22.4	7.30	2.0		83	196	2,020	1,500	24		<0.050														7	
ANT-MW4s	3/22/2013	17.9	7.86	2.7	29	167	85	1,654	1,100	21		0.033J														9	
ANT-MW4s	5/30/2013	20.3	7.10	0.8	10	200	9.0	1,777	1,000	21		0.023J														8	
ANT-MW4s	8/27/2013	22.6	7.29	1.1	13	165	16	2,004	1,100	24	0.0078J	0.020J	<0.20	170	2.8	120	120	170	140	0.17	630	<8.2	<8.2	630	2.9	9	
ANT-MW4s	11/14/2013	20.1	7.14	2.7	31	216	361	2,099	1,200	23		<0.050														4	
ANT-MW4s	2/19/2014	18.9	7.47	2.6	28	226	73	2,064	1,200	22		0.024J														1	
ANT-MW4d	5/22/2014	21.9	7.37	3.6	39	120	304	1,558	1,000	14		<0.10														16	
ANT-MW4d	8/21/2014	21.8	7.29	3.9	43	147	184	1,579	920	12	<0.050	<0.10	0.46	120	2.3	77	110	120	130	1.5	440	<8.2	<8.2	440	4	17	
ANT-MW4d	11/7/2014	19.2	7.44	3.6	40	139	926	1,658	1,000	13		<0.10														16	
ANT-MW4d	2/6/2015	19.5	7.42	3.5	38	136	123	1,652	980	15	<0.05	<0.1	4.1	140	2.4	88	120	150	140	26	450	<8.2	<8.2	450	3.6	14	
ANT-MW4d	5/13/2015	20.2	7.30	3.1	40	121	39	1,629	1,000	15		0.058J														13	
ANT-MW4d	8/19/2015	21.9	7.87	2.1	31	99	584	1,667	980	16		<0.10														12	
ANT-MW4d	11/19/2015	*Well Dry*																									
ANT-MW4d	2/24/2016	*Well Dry*																									
ANT-MW4d	5/18/2016	*Well Dry*																									
ANT-MW4d	8/17/2016	21.6	7.36	2.9	33	194	1406	1,776	1,100	18		<0.10														15	
ANT-MW4d	11/29/2016	20.3	7.08	2.6	29	157	516	1,730	1,200	20		<0.10														12	
ANT-MW4d	3/16/2017	20.3	7.15	3.1	34	103	321	1,924	1,200	23	<0.050	0.053J	0.47	190	2.9	110	140	180	160	7.5	610	<8.2	<8.2	610	4	14	
ANT-MW4d	5/18/2017	22.5	7.61	0.4	5	171	188	1,834	1,200	22		0.094J														18	
ANT-MW4s	8/29/2017	22.8	7.22	2.7	32	108	18	2,107	1,700	24		0.043J														5	
ANT-MW4s	11/21/2017	19.6	7.11	2.2	25	290	64.1	2,099	1,300	23		0.020J														4	
ANT-MW4s	2/21/2018	19.8	7.28	2.3	26	227	22.4	2,063	1,300	23	<0.050	0.029J	0.20	210	2.8	110	110	190	150	1.7	690	<8.2	<8.2	690	-0.5	3	
ANT-MW4d	5/15/2018	20.4	7.09	2.3	26	224	266	1,984	1,200	24		0.048J														20	
ANT-MW4s	8/20/2018	22.0	7.00	1.3	13	217	8.0	1,972	1,400	24		<0.10														5	
ANT-MW4d	11/15/2018	19.5	7.01	2.7	30	250	185	1,942	1,100	25		0.078J														21	
ANT-MW4s	2/26/2019	19.6	6.99	3.7	49	119	13	1,999	1,300	24	0.024J	0.056J	0.17J	180	2.8	110	110	190	150	0.063J	710	<8.2	<8.2	710	-4.2	3	
ANT-MW4s	5/23/2019	21.2	7.17	3.5	44	145	16	2,177	1,300	23		<0.2														4	
ANT-MW4s	8/15/2019	26.7	7.17	3.0	32	87	5.0	2,010	1,200	24		<0.2														7	
ANT-MW4s	11/14/2019	19.8	7.12	2.7	38	127	9.0	2,149	1,200	20		0.090J														6	
ANT-MW5s	2/9/2012	20.5	6.99	1.4		170	350	1,395	950	18		<0.05														8	
ANT-MW5s	5/10/2012	19.6	7.02	1.2		223	55	1,927	1,200	26	0.019J*	<0.05	0.67*	120	3.7	100	120	150	100	0.27*	570*	<8.2*	<8.2*	570	-0.1	9	H
ANT-MW5s	8/15/2012	21.0	6.89	1.3		251	13	1,557	920	18	<0.05	0.029J	0.89	110	3.1	85	88	130	110	<0.15	430	<8.2	<8.2	430	1.3	14	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ANT-MW5s	12/10/2012	21.8	7.31	1.2		83	567	1,524	900	22		<0.050														7	
ANT-MW5s	3/22/2013	18.9	7.80	0.9	11	132	300	1,689	1,100	31		0.033J														9	
ANT-MW5s	5/30/2013	19.2	7.48	4.3	45	125	9.0	1,781	1,300	30		0.026J														9	
ANT-MW5s	8/27/2013	20.9	6.92	0.7	8	238	2.0	1,589	940	16	0.015J	0.038J	0.77	110	3.4	96	110	160	120	0.14J	460	<8.2	<8.2	460	2.5	16	
ANT-MW5s	11/14/2013	20.6	7.21	1.3	14	225	92	1,746	1,100	19		0.020J														6	
ANT-MW5d	2/19/2014	18.0	7.62	1.7	18	217	16	1,674	930	21		0.019J														23	
ANT-MW5d	5/22/2014	19.8	7.29	1.4	14	140	16	1,442	910	7.7		<0.10														20	
ANT-MW5d	8/21/2014	20.2	7.22	1.8	21	142	5.0	1,834	1,100	24	<0.050	<0.10	0.39	110	5.4	100	130	160	120	<0.15	500	<8.2	<8.2	500	2.4	21	
ANT-MW5d	11/7/2014	18.7	6.96	1.2	13	159	11	2,205	1,400	39		0.033J														24	
ANT-MW5d	2/6/2015	18.9	7.08	1.6	18	146	14	1,967	1,200	24	<0.05	<0.1	0.45	130	6.1	120	140	200	150	<0.15	540	<8.2	<8.2	540	3.2	20	
ANT-MW5d	5/13/2015	20.2	7.03	1.4	15	123	6.0	2,123	1,400	37		<0.10														21	
ANT-MW5d	8/19/2015	20.3	7.44	0.6	9	85	4.0	1,973	1,100	31		<0.10														22	
ANT-MW5d	11/19/2015	18.9	7.00	2.4	26	109	28	1,697	1,100	16		0.029J														18	
ANT-MW5d	2/24/2016	19.2	7.06	1.9	22	128	358	1,880	1,200	22	<0.050	<0.10	1.8	130	5.0	120	120	190	140	6.8	530	<8.2	<8.2	530	2.3	11	
ANT-MW5d	5/18/2016	21.2	7.10	3.0	33	147	8.0	1,514	890	9.1		0.061J														18	
ANT-MW5s	8/17/2016	21.2	7.38	3.7	42	181	20	2,334	1,500	49		<0.10														2	
ANT-MW5d	11/29/2016	17.9	7.44	1.5	16	155	22	1,018	680	4.2		<0.10														20	
ANT-MW5s	3/16/2017	20.4	7.07	2.4	27	100	7.0	2,194	1,400	46	3.3	0.052J	1.2	140	4.0	130	150	210	130	0.24	630	<8.2	<8.2	630	-0.8	3	
ANT-MW5s	5/18/2017	21.4	7.17	1.0	11	172	10	1,393	970	19		0.041J														2	
ANT-MW5s	8/29/2017	21.2	7.12	1.6	19	102	13	2,096	1,500	41		0.030J														7	
ANT-MW5s	11/21/2017	19.3	7.09	1.1	12	200	10.46	2,311	1,500	40		0.042J														5	
ANT-MW5s	2/21/2018	19.2	7.28	1.0	11	216	7.2	1,779	1,200	24	<0.050	0.023J	0.52	130	5.3	91	130	170	110	<0.15	580	<8.2	<8.2	580	-1.6	2	
ANT-MW5d	5/15/2018	20.3	7.05	1.0	12	172	6.0	1,421	860	9.8		0.035J														24	
ANT-MW5s	8/20/2018	20.7	6.88	1.3	13	185	10	1,948	1,200	32		0.032J														6	
ANT-MW5s	11/14/2018	19.5	6.88	2.3	25	249	16	2,258	1,400	52		0.11														4	
ANT-MW5d	2/26/2019	*Well Not Accessible*																									
ANT-MW5s	5/23/2019	19.9	6.75	2.1	31	144	10	1,407	940	20		0.18J														3	
ANT-MW5s	8/15/2019	23.8	7.10	2.0	21	92	6.0	1,879	1,200	23		<0.2														7	
ANT-MW5s	11/14/2019	19.4	7.05	2.1	34	144	8.0	2,147	1,300	45*		0.13J														7	H
ANT-MW6s	2/9/2012	19.2	7.21	1.3		170	152	1,434	980	18		0.030J														13	
ANT-MW6s	5/10/2012	19.6	7.29	1.8		229	211	1,779	1,100	31	<0.05*	<0.05	0.28*	100	90	88	52	130	120	0.31*	380*	<8.2*	<8.2*	380	1.5	14	H
ANT-MW6s	8/15/2012	19.5	7.06	1.8		229	3.0	1,960	1,200	29	<0.05	<0.05	0.40	120	94	100	73	170	140	<0.15	520	<8.2	<8.2	520	-1.7	20	
ANT-MW6s	12/10/2012	20.9	7.38	1.5		86	11	1,894	1,200	27		<0.050														13	
ANT-MW6s	3/22/2013	19.1	7.98	6.0	69	139	21	1,718	1,100	24		0.025J														15	
ANT-MW6s	5/30/2013	18.0	7.08	0.9	11	204	7.0	1,521	1,000	18		0.028J														20	
ANT-MW6s	8/27/2013	19.8	7.24	1.3	15	196	1.0	1,586	1,000	21	<0.050	0.031J	0.32	110	110	96	71	150	130	0.11J	470	<8.2	<8.2	470	3.3	21	
ANT-MW6s	11/14/2013	21.3	7.38	1.8	20	202	3.0	1,845	1,200	24		<0.050														12	
ANT-MW6s	2/19/2014	18.4	7.84	4.5	49	216	507	1,741	1,100	18		0.037J														7	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ANT-MW6s	5/22/2014	18.2	7.18	5.1	53	196	230	1,598	1,100	14		<0.10														5	
ANT-MW6s	8/21/2014	20.1	7.33	3.8	45	149	59	1,697	1,000	14	<0.050	<0.10	0.53	110	79	83	69	150	150	0.31	400	<8.2	<8.2	400	2.1	8	
ANT-MW6s	11/7/2014	19.2	7.36	3.8	40	145	91	1,778	1,100	16		<0.10														8	
ANT-MW6s	2/6/2015	18.8	7.28	3.9	43	135	284	1,927	1,300	27	<0.05	<0.1	0.42	130	66	110	91	190	160	0.74	470	<8.2	<8.2	470	2.2	4	
ANT-MW6s	5/13/2015	19.5	7.60	2.7	31	121	262	1,749	540	23		<0.10														2	
ANT-MW6s	8/19/2015	21.4	7.82	3.6	50	85	114	1,817	1,200	22		<0.10														6	
ANT-MW6d	11/19/2015	18.6	7.22	2.5	26	97	101	1,970	1,200	36		0.034J														20	
ANT-MW6d	2/24/2016	18.8	7.32	3.3	37	124	154	2,080	1,300	39	<0.050	<0.10	0.25	140	9.8	120	130	230	170	0.89	480	<8.2	<8.2	480	0.6	17	
ANT-MW6d	5/18/2016	19.8	7.32	2.6	29	142	8.0	2,064	1,200	37		0.052J														21	
ANT-MW6s	8/17/2016	21.4	7.20	6.7	75	202	59	1,922	1,300	21		<0.10														8	
ANT-MW6s	11/29/2016	17.5	7.41	5.1	54	160	44	1,684	1,200	26		0.074J														3	
ANT-MW6d	3/16/2017	20.8	7.15	4.0	44	93	9.0	2,012	1,300	37	<0.050	0.046J	0.24	140	13	120	140	220	170	0.32	490	<8.2	<8.2	490	2.4	25	
ANT-MW6s	5/18/2017	20.4	7.15	0.5	6	199	12	1,859	1,300	29		0.068J														7	
ANT-MW6s	8/29/2017	21.0	7.35	5.2	60	99	20	1,312	970	17		0.031J														12	
ANT-MW6s	11/21/2017	20.4	7.39	2.1	24	283	3.3	1,295	790	15		0.027J														10	
ANT-MW6s	2/21/2018	18.9	7.49	4.8	45	229	21.6	1,388	900	20	<0.050	0.029J	0.25	100	64	68	63	110	110	<0.38	400	<8.2	<8.2	400	-0.3	8	
ANT-MW6s	5/15/2018	19.2	7.21	4.0	45	212	28	1,460	850	21		0.044J														6	
ANT-MW6s	8/20/2018	20.6	7.10	2.6	26	189	6.0	1,619	1,200	25		<0.10														12	
ANT-MW6s	11/15/2018	20.6	6.98	3.1	34	264	4.0	1,861	1,200	44		0.088J														9	
ANT-MW6s	2/26/2019	18.1	7.26	5.6	67	153	27	1,512	1,100	30	<0.050	0.069J	0.36	100	70	84	75	150	120	0.10J	410	<8.2	<8.2	410	-0.8	8	
ANT-MW6s	5/23/2019	22.4	7.03	4.3	52	133	9.0	1,829	1,300	37		0.067J														8	
ANT-MW6s	8/15/2019	25.8	7.20	3.0	33	100	2.0	1,957	1,300	44		<0.2														12	
ANT-MW6s	11/14/2019	19.9	7.19	5.1	62	133	31	2,052	1,400	40		0.098J														12	
COR-MW1s	2/10/2012	19.0	7.26	1.5		170	68	3,408	2,200	2.7		0.035J														10	
COR-MW1s	5/11/2012	19.2	7.08	0.4		229	8.0	3,572	2,100	1.7	<0.05*	<0.05	0.82*	560	2.9	82	79	560	210	1.7*	720*	<8.2*	<8.2*	720	0.5	9	H
COR-MW1s	8/17/2012	20.6	6.98	0.5		216	59	3,751	2,300	1.9	<0.05	0.026J	0.63	560	2.7	92	100	690	250	0.26	800	<8.2	<8.2	800	-4.9	9	
COR-MW1s	12/7/2012	20.5	7.29	0.5		130	48	3,679	2,300	1.7		<0.050														9	
COR-MW1s	3/18/2013	20.0	7.22	1.5	16	63	20	3,360	2,200	1.2		0.022J														9	
COR-MW1s	5/29/2013	20.2	7.71	5.4	60	117	6.0	3,185	2,100	1.0		0.031J														9	
COR-MW1s	8/22/2013	22.9	6.46	0.4	5	112	4.0	3,662	2,300	1.4	0.0030J	0.027J	0.79	630	3.0	100	110	660	270	0.32	840	<8.2	<8.2	840	0.1	8	
COR-MW1s	11/12/2013	21.3	7.48	0.3	3	123	7.0	3,531	2,300	0.78		0.020J														8	
COR-MW1s	2/18/2014	19.9	8.05	0.6	7	75	7.0	3,629	2,300	1.2		<0.050														8	
COR-MW1s	5/22/2014	20.0	7.15	0.1	1	57	3.0	3,557	2,100	1.5		<0.10														7	
COR-MW1s	8/28/2014	22.5	7.97	0.2	3	118	4.0	2,964	1,700	1.1	<0.050	<0.10	0.60	550	3.0	58	61	380	210	0.23	690	<8.2	<8.2	690	4.7	6	
COR-MW1s	11/11/2014	25.1	7.47	0.6	8	131	9.0	2,642	1,600	1.0		<0.10														6	
COR-MW1s	2/10/2015	20.7	7.25	4.2	44	100	2.0	2,747	1,800	1.5	<0.050	0.039J	0.84	540	2.4	58	60	380	240	0.38	690	<8.2	<8.2	690	2.8	9	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
COR-MW1s	5/12/2015	21.1	7.26	0.3	5	110	8.0	2,816	1,800	2.8		0.025J														9	
COR-MW1s	8/14/2015	22.3	7.93	0.3	5	64	8.0	3,111	2,200	14		0.032J														5	
COR-MW1s	11/13/2015	22.3	7.57	0.4	4	37	31	3,113	2,000	13		0.063J														4	
COR-MW1s	2/26/2016	20.1	7.41	0.4	5	94	6.0	3,107	1,900	8.0	<0.050	<0.10	0.71	530	2.2	65	68	470	210	0.36	710	<8.2	<8.2	710	-0.9	6	
COR-MW1s	5/17/2016	21.1	7.25	0.4	7	50	8.0	2,972	1,900	13		0.048J														7	
COR-MW1s	8/17/2016	22.4	6.75	1.8	21	140	3.0	3,466	2,100	15		<0.10														8	
COR-MW1s	11/29/2016	22.4	7.40	0.5	6	151	2.0	3,404	2,300	20		<0.10														8	
COR-MW1s	3/14/2017	21.5	7.17	0.5	6	57	4.0	4,000	2,600	35	0.034J	0.050J	0.90	730	3.4	110	110	720	270	0.45	790	<8.2	<8.2	790	2.4	11	
COR-MW1s	5/17/2017	21.0	6.99	0.5	6	238	1.4	4,071	2,800	97		0.14														11	
COR-MW1s	8/23/2017	21.3	7.12	0.8	9	86	3.0	4,689	2,700	56		0.038J														10	
COR-MW1s	11/16/2017	21.2	6.86	1.1	14	267	3.6	4,597	2,900	51		0.024J														9	
COR-MW1s	2/27/2018	19.3	7.19	2.0	31	250	4.0	5,169	3,000	64	0.078	0.061J	1.2	760	2.7	130	130	960	330	0.42	820	<8.2	<8.2	820	-4.4	10	
COR-MW1s	5/16/2018	19.9	7.15	1.4	17	177	5.0	4,640	2,900	50		0.047J														10	
COR-MW1s	8/17/2018	21.2	7.14	0.8	8	159	3.0	4,758	3,000	53		0.050J														9	
COR-MW1s	11/13/2018	20.8	7.27	3.0	32	150	6.0	4,388	2,600	42		0.17														9	
COR-MW1s	3/1/2019	19.6	7.23	2.3	35	156	2.0	4,879	2,800	49	0.024J	<0.20	1.1	690	2.9	110	96	850	310	0.33	820	<8.2	<8.2	820	-6.8	11	
COR-MW1s	5/22/2019	20.3	7.17	0.8	13	151	1.0	4,815	3,000	58		0.11J														10	
COR-MW1s	8/21/2019	21.6	7.30	1.8	25	77	2.0	4,022	2,600	41		<0.2														10	
COR-MW1s	11/14/2019	21.5	7.52	0.9	20	124	3.0	4,491	2,700	41		0.14J														9	
COR-MW2s	2/10/2012	17.9	7.33	1.5		162	8.0	1,640	1,000	6.5		<0.05														12	
COR-MW2s	5/11/2012	17.9	7.20	0.8		210	10	1,774	1,000	5.7	<0.05*	<0.05	<0.2*	160	2.9	62	120	210	180	0.093J*	360*	<8.2*	<8.2*	360	2.4	9	H
COR-MW2s	8/17/2012	21.2	7.14	0.5		212	36	1,497	920	6.4	<0.05	<0.05	0.081J	160	2.9	56	110	200	170	<0.15	330	<8.2	<8.2	330	2.7	8	
COR-MW2s	12/7/2012	19.8	7.55	0.7		126	31	1,773	1,100	4.0		<0.050														10	
COR-MW2s	3/18/2013	19.4	7.28	1.3	15	49	2.0	1,495	970	6.1		<0.050														11	
COR-MW2s	5/29/2013	19.2	7.97	1.6	19	103	3.0	1,401	940	6.1		0.021J														9	
COR-MW2s	8/22/2013	22.9	6.70	0.3	4	119	4.0	1,448	900	5.8	<0.050	0.027J	0.097J	150	2.7	52	98	180	170	0.19	350	<8.2	<8.2	350	-0.8	8	
COR-MW2s	11/12/2013	20.6	7.50	0.5	5	126	6.0	1,569	1,000	26		<0.050														8	
COR-MW2s	2/18/2014	18.4	7.99	0.4	4	80	6.0	1,570	880	3.6		0.019J														9	
COR-MW2s	5/22/2014	18.7	7.21	0.1	1	56	3.0	1,600	920	3.8		<0.10														7	
COR-MW2s	8/28/2014	23.2	7.76	0.3	4	106	2.0	1,647	1,000	3.6	<0.050	<0.10	0.068J	170	3.3	59	110	170	140	0.10J	410	<8.2	<8.2	410	4.9	5	
COR-MW2s	11/11/2014	21.9	7.26	2.0	24	134	4.0	1,573	840	3.2		<0.10														7	
COR-MW2s	2/10/2015	18.8	7.15	5.0	55	124	1.0	1,480	920	4.4	<0.050	<0.10	0.25	170	3.1	61	110	180	150	0.25	370	<8.2	<8.2	370	6.1	9	
COR-MW2s	5/12/2015	21.8	7.25	0.3	5	121	4.0	1,455	820	5.6		0.025J														7	
COR-MW2s	8/14/2015	24.1	7.87	0.2	4	60	2.0	1,672	1,100	5.0		<0.10														5	
COR-MW2s	11/13/2015	22.3	7.51	0.5	6	-94	32	1,653	1,100	2.4		0.20														4	
COR-MW2s	2/26/2016	18.9	7.48	0.4	5	51	8.0	1,704	1,000	3.5	0.086	0.077J	0.27	200	3.3	55	100	220	150	0.53	410	<8.2	<8.2	410	1.4	6	
COR-MW2s	5/17/2016	20.7	7.39	0.5	7	55	10	1,577	1,000	3.7		0.045J														8	
COR-MW2s	8/17/2016	22.9	6.81	2.5	30	146	2.0	1,845	1,100	5.0		<0.10														9	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
COR-MW2s	11/29/2016	21.4	7.66	0.5	6	103	16	1,359	940	3.3		0.040J														9	
COR-MW2s	3/14/2017	19.8	7.13	0.6	7	75	3.0	2,712	1,900	7.2	0.010J	0.048J	0.32	260	4.2	120	230	550	340	0.32	390	<8.2	<8.2	390	2.9	13	
COR-MW2s	5/17/2017	20.3	7.26	0.6	7	221	4.0	2,354	1,700	7.9		0.054J														11	
COR-MW2s	8/23/2017	22.4	7.26	0.6	7	58	3.0	1,914	1,300	3.9		0.031J														11	
COR-MW2s	11/16/2017	21.8	7.38	0.6	8	226	2.4	1,977	1,300	5.1		0.028J														10	
COR-MW2s	2/27/2018	18.3	7.21	1.0	20	249	5.0	2,156	1,300	9.6	<0.050	0.045J	0.34	210	2.8	78	150	330	240	0.22	380	<8.2	<8.2	380	1.1	10	
COR-MW2s	5/16/2018	19.2	7.25	1.4	16	166	5.0	2,177	1,500	10		0.036J														9	
COR-MW2s	8/17/2018	21.7	7.10	0.7	7	155	3.0	2,488	1,800	5.2		0.028J														11	
COR-MW2d	11/13/2018	*Well Not Accessible*																									
COR-MW2s	3/1/2019	17.1	7.24	2.4	41	149	17	2,444	1,500	11	<0.050	<0.20	0.85	210	3.0	84	150	350	270	0.97	400	<8.2	<8.2	400	-1.5	12	
COR-MW2s	5/22/2019	19.8	7.18	0.6	11	144	2.0	1,996	1,200	8.6		<0.2														11	
COR-MW2s	8/21/2019	21.6	7.16	1.6	24	82	2.0	2,192	1,400	11		<0.2														11	
COR-MW2s	11/14/2019	20.9	7.33	1.1	24	132	2.0	2,148	1,300	8.4*		0.12J														10	H
COR-MW3s	2/10/2012	19.6	7.47	1.3		144	3.5	1,498	940	2.0		<0.05														10	
COR-MW3s	5/11/2012	18.4	7.32	0.4		194	26	1,622	920	1.3	<0.05*	<0.05	<0.2*	180	2.1	49	82	190	150	0.11J*	340*	<8.2*	<8.2*	340	2	8	H
COR-MW3s	8/17/2012	21.1	7.23	0.6		229	95	1,824	1,100	0.66	<0.05	<0.05	0.076J	210	2.7	66	120	280	200	<0.15	400	<8.2	<8.2	400	1.3	7	
COR-MW3s	12/7/2012	20.2	7.57	0.7		101	16	2,234	1,400	0.38		<0.050														9	
COR-MW3s	3/18/2013	19.0	6.96	0.7	7	62	4.0	1,865	1,200	0.56		0.021J														9	
COR-MW3s	5/29/2013	18.5	7.95	5.9	64	104	13	1,717	1,000	0.65		0.027J														8	
COR-MW3s	8/22/2013	22.5	6.61	0.4	4	115	6.0	1,716	1,100	0.64	0.0019J	0.027J	0.15J	180	2.5	64	120	220	170	0.18	480	<8.2	<8.2	480	-0.6	7	
COR-MW3s	11/12/2013	20.7	7.43	0.3	3	126	6.0	1,647	1,000	0.70*		<0.050														7	H
COR-MW3s	2/18/2014	19.5	7.96	0.7	8	75	6.0	1,566	1,000	0.97		<0.050														7	
COR-MW3s	5/22/2014	19.1	7.30	0.1	1	48	5.0	1,623	990	1.5		<0.10														6	
COR-MW3s	8/28/2014	24.0	7.65	0.3	4	108	6.0	1,655	980	1.2	<0.050	<0.10	<0.20	170	2.3	51	93	170	130	0.15	420	<8.2	<8.2	420	0.9	4	
COR-MW3s	11/11/2014	22.9	7.39	0.9	11	145	5.0	1,514	860	1.6		<0.10														6	
COR-MW3s	2/10/2015	18.9	7.18	4.6	49	152	2.0	1,656	1,000	4.1	0.011J	<0.10	0.35	220	2.5	59	100	210	170	0.15	400	<8.2	<8.2	400	4.6	8	
COR-MW3s	5/12/2015	20.7	7.22	0.3	5	123	3.0	1,563	890	3.1		0.026J														6	
COR-MW3s	8/14/2015	24.5	7.65	0.2	4	55	3.0	2,197	1,400	8.8		<0.10														6	
COR-MW3s	11/13/2015	22.9	7.31	0.5	6	2	8.0	2,367	1,500	20		0.16														4	
COR-MW3s	2/26/2016	19.4	7.31	0.9	10	145	5.0	2,216	1,300	9.9	0.17	<0.10	0.58	230	2.8	78	140	290	190	0.15	530	<8.2	<8.2	530	0.1	5	
COR-MW3s	5/17/2016	20.5	7.09	0.5	8	57	1.0	2,125	1,300	8.4		0.043J														7	
COR-MW3s	8/17/2016	23.1	6.53	4.2	50	162	3.0	2,600	1,800	13		<0.10														8	
COR-MW3s	11/29/2016	23.5	7.30	0.5	5	115	4.0	1,575	1,000	3.7		<0.10														8	
COR-MW3s	3/14/2017	18.8	7.20	0.5	6	67	3.0	2,257	1,400	7.3	0.25	0.042J	0.62	310	3.1	84	160	350	250	0.13J	460	<8.2	<8.2	460	6.8	11	
COR-MW3s	5/17/2017	20.0	7.27	0.5	6	227	0.9	1,866	1,400	5.1		0.040J														10	
COR-MW3s	8/23/2017	23.0	7.23	0.5	6	41	2.0	1,767	1,000	3.5		0.026J														11	
COR-MW3s	11/16/2017	22.6	7.35	0.5	7	223	2.4	1,844	1,200	3.2		0.028J														9	
COR-MW3s	2/27/2018	19.5	7.19	1.4	25	271	8.0	2,008	1,200	4.0	0.025J	0.026J	0.30	200	2.4	65	120	310	220	0.14J	400	<8.2	<8.2	400	-3.6	9	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																		----Alkalinity as CaCO3----						
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
COR-MW3s	5/16/2018	19.1	7.27	1.5	17	179	6.0	2,048	1,300	4.7		0.036J														8	
COR-MW3s	8/17/2018	23.1	7.07	1.6	22	179	3.0	2,547	1,700	8.2		0.027J														10	
COR-MW3s	11/13/2018	22.9	7.24	2.7	33	153	5.0	2,797	1,500	6.9		0.15														9	
COR-MW3s	3/1/2019	19.5	7.13	2.1	37	148	4.0	2,813	1,600	9.3	0.018J	<0.20	0.68	240	3.2	95	180	430	290	0.068J	570	<8.2	<8.2	570	-5.1	10	
COR-MW3s	5/22/2019	20.0	7.10	0.7	12	151	1.0	2,386	1,400	9.8		<0.2														9	
COR-MW3s	8/21/2019	22.6	7.08	1.9	26	81	2.0	2,454	1,400	11		<0.2														11	
COR-MW3s	11/14/2019	23.0	7.22	0.8	17	125	3.0	2,349	1,300	6.7*		0.13J														9	H
COR-MW4s	2/10/2012	19.4	7.29	1.5		147	5.5	2,009	1,200	4.6		<0.05														11	
COR-MW4s	5/11/2012	19.6	7.28	0.6		208	98	2,088	1,200	4.1	0.017J*	0.028J	<0.2*	240	2.1	67	84	260	190	<0.15*	400*	<8.2*	<8.2*	400	1.6	9	H
COR-MW4s	8/17/2012	22.1	7.19	0.6		212	33	1,863	1,100	4.1	0.042J	<0.05	0.11J	240	2.3	65	110	260	200	0.053J	430	<8.2	<8.2	430	2.3	8	
COR-MW4s	12/7/2012	21.0	7.70	0.4		93	8.0	1,840	1,100	2.7		<0.050														9	
COR-MW4s	3/18/2013	19.3	7.43	2.1	23	69	1.5	1,799	1,100	1.8		0.024J														10	
COR-MW4s	5/29/2013	20.7	7.81	0.6	7	94	9.0	1,716	1,100	1.5		0.031J														9	
COR-MW4s	8/22/2013	24.4	6.72	0.3	4	115	4.0	1,803	1,100	1.4	<0.050	0.025J	<0.20	210	1.9	61	100	250	180	0.18	460	<8.2	<8.2	460	-2.3	7	
COR-MW4s	11/12/2013	23.0	7.50	0.3	4	115	5.0	1,831	1,200	11		0.024J														8	
COR-MW4s	2/18/2014	20.6	7.85	0.7	8	74	7.0	1,815	1,100	2.2		<0.050														8	
COR-MW4s	5/22/2014	20.1	7.29	0.1	2	57	3.0	1,880	1,100	2.5		<0.10														7	
COR-MW4s	8/28/2014	25.9	7.70	0.3	4	101	3.0	1,941	1,200	2.6	<0.050	<0.10	<0.20	210	2.3	61	99	230	160	<0.15	450	<8.2	<8.2	450	0.4	5	
COR-MW4s	11/11/2014	19.7	7.98	0.7	8	135	6.0	1,911	1,000	2.4		<0.10														6	
COR-MW4s	2/10/2015	20.1	7.05	4.7	48	96	1.0	2,302	1,400	13	0.13	<0.10	0.51	290	2.6	92	150	300	230	0.16	510	<8.2	<8.2	510	6.4	9	
COR-MW4s	5/12/2015	21.4	6.89	0.3	5	116	3.0	2,294	1,300	9.8		0.038J														7	
COR-MW4s	8/14/2015	27.4	7.69	0.3	5	68	2.0	1,985	1,300	1.8		<0.10														6	
COR-MW4s	11/13/2015	23.0	7.51	0.4	5	50	12	1,896	1,200	2.4		0.063J														4	
COR-MW4s	2/26/2016	20.2	7.33	0.7	8	108	7.0	1,945	1,100	1.9	<0.050	0.062J	0.27	220	2.2	67	110	240	180	0.14J	510	<8.2	<8.2	510	-0.5	6	
COR-MW4s	5/17/2016	21.4	7.24	0.5	9	57	4.0	1,816	1,100	2.6		0.033J														8	
COR-MW4s	8/17/2016	23.7	6.64	1.5	18	146	2.0	2,410	1,600	12		0.25														9	
COR-MW4s	11/29/2016	22.1	7.51	0.6	7	172	3.0	2,181	1,500	11		<0.10														9	
COR-MW4s	3/14/2017	21.4	7.12	0.6	7	54	3.0	2,668	1,800	44	<0.050	0.033J	0.63	350	3.8	110	170	350	260	0.24	620	<8.2	<8.2	620	3.2	12	
COR-MW4s	5/17/2017	21.7	6.93	0.5	5	179	1.0	2,228	1,500	17		0.028J														11	
COR-MW4s	8/23/2017	23.2	7.20	0.7	9	56	2.0	2,115	1,200	9.5		0.037J														11	
COR-MW4s	11/16/2017	22.7	7.39	0.8	10	232	2.1	2,057	1,300	6.6		0.038J														10	
COR-MW4s	2/27/2018	18.9	7.22	1.4	27	253	4.0	2,173	1,200	12	<0.050	0.020J	0.35	240	2.1	72	120	290	190	0.17	500	<8.2	<8.2	500	-1.3	10	
COR-MW4s	5/16/2018	19.8	7.23	1.9	22	193	5.0	2,050	1,300	5.8		0.024J														9	
COR-MW4s	8/17/2018	24.9	7.15	1.4	16	167	4.0	2,075	1,400	6.1		0.037J														10	
COR-MW4s	11/13/2018	22.6	7.25	2.9	36	152	8.0	2,095	1,200	5.4		0.12														10	
COR-MW4s	3/1/2019	18.7	7.21	2.0	34	156	2.0	2,813	1,700	31	0.12	<0.20	0.79	270	2.6	100	170	440	310	0.091J	470	<8.2	<8.2	470	-3.3	11	
COR-MW4s	5/22/2019	20.8	7.17	0.7	14	127	1.0	2,256	1,400	8.7		<0.2														10	
COR-MW4s	8/21/2019	23.8	7.18	1.7	23	67	2.0	2,187	1,200	7.2		<0.2														11	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----				
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
COR-MW4s	11/14/2019	23.0	7.28	0.9	20	90	3.0	2,342	1,400	6.1*		0.14J														10	H
COR-MW5s	2/10/2012	20.2	7.36	1.9		149	26.5	1,577	1,000	2.9		0.066														11	
COR-MW5s	5/11/2012	20.5	7.30	0.9		204	370	1,878	1,100	2.2	<0.05*	0.058	0.67*	220	16	52	99	220	170	1.7*	410*	<8.2*	<8.2*	410	2.8	9	H
COR-MW5s	8/17/2012	22.2	7.15	0.5		211	126	1,677	1,000	2.4	0.014J	0.055	0.20	240	10	54	110	240	170	0.088J	400	<8.2	<8.2	400	5.5	8	
COR-MW5s	12/7/2012	21.3	7.47	0.5		101	33	2,488	1,600	7.8		0.24														9	
COR-MW5s	3/18/2013	20.1	7.38	3.0	33	74	8.0	1,688	1,100	2.2		0.027J														9	
COR-MW5s	5/29/2013	20.8	7.85	0.6	7	107	11	1,662	1,100	2.1		0.073														9	
COR-MW5s	8/22/2013	22.8	6.60	0.5	6	116	4.0	1,683	1,000	2.1	0.022J	0.025J	0.31	200	4.3	50	100	230	150	0.21	440	<8.2	<8.2	440	-1.8	7	
COR-MW5s	11/12/2013	22.1	7.43	0.6	7	116	11	1,772	1,100	20		0.036J														8	
COR-MW5s	2/18/2014	20.8	8.03	0.7	7	76	8.0	1,812	1,200	1.8		0.049J														8	
COR-MW5s	5/22/2014	20.5	7.26	0.1	2	38	4.0	1,843	1,100	1.6		<0.10														7	
COR-MW5s	8/28/2014	24.1	7.75	0.3	4	111	6.0	1,938	1,100	1.2	0.032J	<0.10	<0.20	200	5.2	55	110	240	140	<0.15	460	<8.2	<8.2	460	-0.3	5	
COR-MW5s	11/11/2014	21.6	7.21	0.6	7	33	12	3,136	1,700	0.21		1.0														6	
COR-MW5s	2/10/2015	20.4	7.18	5.9	65	110	6.0	5,899	3,900	25	0.77	0.37	7.5	730	390	190	200	730	760	5.4	1,200	<8.2	<8.2	1,200	3.8	9	
COR-MW5s	5/12/2015	20.9	7.10	0.4	6	107	12	3,011	1,800	1.4		0.061J														7	
COR-MW5s	8/14/2015	25.7	7.63	0.2	3	24	4.0	2,868	1,900	0.45		0.23														6	
COR-MW5s	11/13/2015	23.6	7.31	0.4	5	-60	16	3,110	1,900	0.30		0.41														4	
COR-MW5s	2/26/2016	20.8	7.23	0.4	5	51	10	3,725	2,000	0.72	0.26	0.12	2.1	380	110	110	160	470	370	0.81	800	<8.2	<8.2	800	-0.9	6	
COR-MW5s	5/17/2016	22.0	6.96	0.6	9	86	5.0	3,194	2,000	5.9		0.13														8	
COR-MW5s	8/17/2016	23.8	6.48	1.8	22	150	4.0	2,958	1,900	2.5		0.052J														9	
COR-MW5s	11/29/2016	21.3	7.35	0.7	8	178	7.0	2,846	2,200	22		0.26														9	
COR-MW5s	3/14/2017	22.2	7.33	0.7	8	47	3.4	3,299	2,500	40	0.81	0.23	3.0	450	290	100	120	400	340	6.9	810	<8.2	<8.2	810	4.5	12	
COR-MW5s	5/17/2017	22.0	7.02	0.6	6	177	5.0	2,371	1,700	10		0.10														11	
COR-MW5s	8/23/2017	23.0	7.25	0.6	8	73	5.0	2,525	1,900	7.5		0.21														11	
COR-MW5s	11/16/2017	22.9	7.23	0.6	7	233	4.9	2,322	1,800	5.9		0.088J														10	
COR-MW5s	2/27/2018	19.8	7.15	1.2	24	233	5.0	2,593	1,600	7.8	0.49	0.053J	1.2	270	76	74	140	330	210	2.4	650	<8.2	<8.2	650	-1.1	10	
COR-MW5s	5/16/2018	20.3	7.24	1.4	16	192	8.0	3,068	2,000	9.2		0.14														9	
COR-MW5s	8/17/2018	24.3	7.10	1.5	18	168	5.0	2,743	1,800	7.8		0.20														10	
COR-MW5s	11/13/2018	22.8	7.20	2.8	36	175	5.0	2,710	1,500	6.8		0.24														10	
COR-MW5s	3/1/2019	18.4	7.49	1.9	33	142	7.0	4,569	3,000	20	4.8	0.45	16	480	460	83	88	450	450	43	990	<8.2	<8.2	990	-1.2	11	
COR-MW5s	5/22/2019	20.4	7.35	0.8	16	55	7.0	3,966	2,900	2.5		0.62														10	
COR-MW5s	8/21/2019	22.8	7.21	1.8	22	74	5.0	3,419	2,400	4.9		0.91														11	
COR-MW5s	11/14/2019	22.6	7.22	1.2	21	120	5.0	3,196	1,700	7.8		0.19J														10	
FG2-MW1s	2/10/2012	19.4	7.07	2.2		209	9.0	6,248	4,000	2.7		0.029J														16	
FG2-MW1s	5/10/2012	19.5	7.08	1.9		198	150	5,538	4,500	1.3	<0.05*	<0.05	0.31*	620	3.5	240	350	470	2,100	0.71*	410*	<8.2*	<8.2*	410	-0.8	17	H
FG2-MW1s	8/15/2012	22.1	6.92	1.4		130	120	4,902	3,700	2.0	0.048J	0.030J	0.53	530	3.7	190	340	470	1,800	0.17	480	<8.2	<8.2	480	-4.1	12	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
FG2-MW1s	12/6/2012	20.4	7.26	1.0		125	140	6,507	5,700	2.7		<0.050														17	
FG2-MW1s	3/22/2013	17.4	7.75	6.0	67	148	3.0	5,007	4,400	2.9		0.029J														15	
FG2-MW1s	5/31/2013	20.3	7.11	0.3	4	126	4.0	5,291	4,800	0.64J		0.020J														16	
FG2-MW1s	8/23/2013	22.3	6.41	0.3	4	136	3.0	4,127	3,200	7.4	0.014J	0.047J	0.56	510	3.6	160	340	470	1,400	<0.15	550	<8.2	<8.2	550	-1.4	17	
FG2-MW1s	11/13/2013	22.4	6.80	0.3	4	153	5.0	4,448	3,500	8.0		<0.050														16	
FG2-MW1s	2/19/2014	19.2	7.12	0.9	11	112	6.0	5,846	5,200	5.2		<0.050														16	
FG2-MW1s	5/23/2014	21.7	7.09	0.4	5	149	3.0	4,335	2,600	6.8		<0.10														15	
FG2-MW1s	8/27/2014	23.9	7.37	3.9	47	151	6.0	4,544	3,200	10	0.020J	0.045J	0.71	520	4.2	140	350	470	1,200	<0.15	510	<8.2	<8.2	510	2.5	16	
FG2-MW1s	11/13/2014	20.8	7.07	0.5	5	118	6.4	7,132	6,000	4.8		<0.10														11	
FG2-MW1s	2/11/2015	21.4	6.92	4.1	41	86	2.0	6,668	6,000	1.8J	<0.050	<0.10	0.48	810	2.2	400	400	560	3,000	<0.15	590	<8.2	<8.2	590	-1.1	11	
FG2-MW1s	5/12/2015	21.9	6.63	0.3	5	121	16	7,062	5,700	1.6		<0.10														10	
FG2-MW1s	8/17/2015	24.5	7.27	0.8	11	67	6.0	6,293	5,200	1.3		<0.10														10	
FG2-MW1s	11/13/2015	20.7	7.30	0.9	10	33	853	8,173	7,200	2.1		0.093J														10	
FG2-MW1s	2/25/2016	21.7	7.12	1.3	16	77	307	7,550	6,100	1.4	<0.050	0.16	0.82	980	1.9J	510	470	750	3,400	1.9	540	<8.2	<8.2	540	2.5	11	
FG2-MW1s	5/17/2016	21.9	7.04	0.6	10	42	87	8,294	7,400	1.2		0.045J														10	
FG2-MW1s	8/15/2016	23.6	7.06	10.9	130	66	1.0	7,236	6,900	0.75		<0.10														11	
FG2-MW1s	11/22/2016								7,400	1.4		0.21															
FG2-MW1s	3/14/2017	21.4	7.05	0.6	7	77	2.0	5,893	5,100	0.70	<0.050	0.083J	0.32	810	2.3	370	320	640	2,700	<0.15	490	<8.2	<8.2	490	-1.4	11	
FG2-MW1s	5/18/2017	20.5	7.19	0.3	3	110	14	6,093	5,600	0.49		0.033J														11	
FG2-MW1s	8/24/2017	21.1	7.00	0.7	9	36	4.0	5,604	4,900	0.32J		0.044J														11	
FG2-MW1s	11/20/2017	21.4	6.98	11.00	124	110	4.7	6,101	5,200	0.13		0.034J														11	
FG2-MW1s	2/23/2018	19.8	7.01	0.7	8	97	14	5,620	4,600	0.19J	<0.050	0.023J	0.46	650	1.7	340	270	530	2,500	0.15	480	<8.2	<8.2	480	-4.7	11	
FG2-MW1s	5/16/2018	19.9	7.04	1.7	20	114	7.0	5,520	4,500	<0.50		0.056J														11	
FG2-MW1s	8/17/2018	21.3	7.01	0.7	7	40	5.0	5,469	4,800	0.031J		0.039J														11	
FG2-MW1s	11/14/2018	22.0	6.95	0.8	9	242	2.0	4,478	3,400	3.0		0.044J														11	
FG2-MW1s	3/1/2019	19.2	7.13	2.2	36	54	11	4,629	3,500	<0.50	<0.050	0.057J	0.48	450	1.7	250	220	360	1,700	<0.15	480	<8.2	<8.2	480	-3.7	12	
FG2-MW1s	5/23/2019	21.7	7.03	0.6	8	141	2.0	3,858	3,300	<0.5		0.11J														12	
FG2-MW1s	8/23/2019	22.9	7.11	0.9	7	157	1.0	3,933	3,200	0.11		0.11J														12	
FG2-MW1s	11/13/2019	23.1	7.02	1.3	15	176	3.0	4,543	3,100	0.94		0.11J														11	
FG2-MW2s	2/10/2012	18.9	7.17	2.8		253	216	3,587	2,700	5.7		<0.05														13	
FG2-MW2s	5/10/2012	19.0	7.18	1.3		218	573	3,792	2,900	5.2	<0.05*	0.025J	0.30*	400	8.8	200	180	260	1,200	1.5*	490*	<8.2*	<8.2*	490	0.6	14	H
FG2-MW2s	8/15/2012	22.1	7.02	0.8		197	356	3,510	2,500	9.2	0.027J	0.025J	0.48	350	13	180	170	300	1,000	0.44	550	<8.2	<8.2	550	-2.6	13	
FG2-MW2s	12/6/2012	21.0	7.30	1.0		128	17	3,306	2,400	7.0		<0.050														14	
FG2-MW2s	3/22/2013	18.2	7.77	7.0	71	145	4.0	3,235	2,600	7.3		0.028J														13	
FG2-MW2s	5/31/2013	20.2	7.30	0.4	5	147	9.0	3,220	2,600	7.0		0.026J														13	
FG2-MW2s	8/23/2013	22.2	6.48	0.2	3	141	4.0	3,090	2,300	8.8	0.031J	0.059	0.50	360	11	190	170	290	880	0.30	590	<8.2	<8.2	590	1.4	15	
FG2-MW2s	11/13/2013	22.9	6.95	0.3	4	142	8.0	3,168	2,400	8.1		<0.050														13	
FG2-MW2s	2/19/2014	18.7	7.36	0.4	4	128	7.0	3,313	2,500	8.9		<0.050														12	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
FG2-MW2s	5/23/2014	22.1	7.30	0.8	10	148	2.0	3,537	3,300	13		<0.10														14	
FG2-MW2s	8/27/2014	24.6	7.50	0.1	2	157	3.0	3,397	2,300	10	0.032J	0.042J	0.67	340	13	180	170	290	780	0.25	570	<8.2	<8.2	570	2.5	16	
FG2-MW2s	11/13/2014	22.4	7.47	1.7	19	192	4.0	2,925	2,500	11		0.041J														14	
FG2-MW2s	2/11/2015	19.6	7.19	5.3	53	103	1.0	3,187	2,400	12	0.018J	<0.10	0.62	350	12	200	170	300	660	0.35	630	<8.2	<8.2	630	6.3	13	
FG2-MW2s	5/12/2015	20.1	6.64	0.2	3	127	4.0	3,035	2,200	12		0.025J														13	
FG2-MW2s	8/17/2015	25.4	7.56	0.2	4	69	5.0	3,068	2,100	13		0.034J														15	
FG2-MW2s	11/13/2015	22.3	7.38	1.2	14	54	104	3,121	2,100	12		0.043J														13	
FG2-MW2s	2/25/2016	20.0	7.25	1.6	18	110	58	3,029	2,200	12	0.043J	0.10	0.77	340	8.8	180	160	360	530	0.64	640	<8.2	<8.2	640	4.1	13	
FG2-MW2s	5/17/2016	20.8	7.08	0.4	7	53	33	2,817	2,200	11		0.053J														14	
FG2-MW2s	8/15/2016	23.4	7.11	4.6	55	70	18	2,843	2,000	11		<0.10														14	
FG2-MW2s	11/22/2016	22.1	7.04	1.1	13	80	33	3,165	2,100	9.4		0.029J														12	
FG2-MW2s	3/14/2017	22.0	7.18	0.6	6	90	1.0	2,908	1,900	7.8	0.011J	0.045J	0.61	320	8.3	190	160	340	550	0.28	680	<8.2	<8.2	680	3.5	15	
FG2-MW2s	5/18/2017	20.6	7.14	0.3	3	217	13	2,842	2,000	8.5		0.060J														13	
FG2-MW2s	8/24/2017	24.0	7.05	0.6	7	73	3.0	3,044	2,000	7.1		0.038J														15	
FG2-MW2s	11/20/2017	23.2	7.08	0.6	7	157	5.3	2,982	2,000	6.5		0.028J														12	
FG2-MW2s	2/23/2018	19.8	7.04	0.6	7	194	3.0	3,194	2,200	6.0	0.023J	0.023J	0.71	330	5.4	190	140	360	630	0.29	690	<8.2	<8.2	690	-0.5	12	
FG2-MW2s	5/16/2018	19.4	7.06	1.8	20	161	9.0	3,123	2,200	6.2		0.045J														13	
FG2-MW2s	8/17/2018	23.6	6.95	0.5	5	132	4.0	3,325	2,500	7.1		<0.10														16	
FG2-MW2s	11/14/2018	23.4	6.93	0.6	8	256	3.0	3,182	2,300	7.1		0.019J														13	
FG2-MW2s	3/1/2019	16.0	7.10	2.1	36	173	15	3,088	2,000	21	0.060	0.067J	1.3	290	11	170	130	310	580	1.5	610	<8.2	<8.2	610	-1.8	14	
FG2-MW2s	5/23/2019	20.4	7.01	0.7	14	171	1.0	3,011	2,200	12		<0.2														15	
FG2-MW2s	8/23/2019	24.7	7.12	2.5	23	251	1.0	2,955	2,100	12		<0.2														15	
FG2-MW2s	11/13/2019	23.9	7.02	1.4	17	184	4.0	2,822	1,700	13		0.13J														14	
FG2-MW3s	2/10/2012	20.3	7.12	2.2		234	3.0	5,327	4,300	15		0.036J														17	
FG2-MW3s	5/10/2012	21.0	7.09	1.6		227	4.0	2,736	4,700	13	0.017J*	<0.05	0.22*	660	2.3	360	200	600	1,800	<0.15*	610*	<8.2*	<8.2*	610	0.6	17	H
FG2-MW3s	8/15/2012	21.6	6.97	0.5		188	5.0	5,807	4,400	13	0.023J	0.027J	0.40	630	2.5	370	210	630	1,900	0.22	640	<8.2	<8.2	640	-1.9	17	
FG2-MW3s	12/6/2012	19.9	7.44	1.0		120	32	5,374	4,300	13		<0.050														17	
FG2-MW3s	3/22/2013	19.4	7.92	6.0	67	147	6.0	5,196	4,500	9.9		0.044J														17	
FG2-MW3s	5/31/2013	20.6	7.19	0.3	4	140	5.0	5,288	4,500	8.3		0.019J														16	
FG2-MW3s	8/23/2013	20.3	6.41	0.3	4	120	3.0	5,449	4,700	8.8	0.025J	0.045J	0.49	690	2.2	420	240	650	2,000	0.11J	650	<8.2	<8.2	650	2	18	
FG2-MW3s	11/13/2013	21.5	6.94	0.5	5	151	6.0	5,459	4,600	11		<0.050														17	
FG2-MW3s	2/19/2014	19.0	7.12	0.5	6	129	7.0	5,503	4,700	8.3		0.019J														17	
FG2-MW3s	5/23/2014	21.5	7.17	0.4	5	150	2.0	5,851	5,100	6.0		<0.10														18	
FG2-MW3s	8/27/2014	23.8	7.32	0.3	4	152	2.0	5,853	4,600	11	0.059	0.038J	0.65	640	3.2	350	230	610	2,000	<0.15	660	<8.2	<8.2	660	-3.3	18	
FG2-MW3s	11/13/2014	21.0	7.42	1.2	14	140	3.0	4,961	4,700	10		0.043J														17	
FG2-MW3s	2/11/2015	21.1	7.04	4.4	44	82	1.0	5,565	4,800	7.5	0.12	0.036J	0.70	650	8.4	400	240	630	1,800	<0.15	680	<8.2	<8.2	680	2.8	17	
FG2-MW3s	5/12/2015	21.5	6.81	0.2	3	132	4.0	5,224	4,100	7.6		<0.10														16	
FG2-MW3s	8/17/2015	23.0	7.57	0.3	5	75	5.0	5,164	4,200	8.7		0.034J														17	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
FG2-MW3s	11/13/2015	21.7	7.27	0.5	6	47	2.0	5,162	4,200	7.0		0.032J														16	
FG2-MW3s	2/25/2016	21.4	7.12	0.9	10	106	6.0	5,282	4,000	5.9	0.27	0.13	0.89	610	20	360	230	640	1,600	1.4	710	<8.2	<8.2	710	1.6	16	
FG2-MW3s	5/17/2016	22.0	6.94	0.6	9	52	1.0	4,821	4,200	6.2		0.090J														16	
FG2-MW3s	8/15/2016	21.9	7.14	2.6	29	52	12	4,734	3,900	9.0		0.027J														17	
FG2-MW3s	11/22/2016	21.8	6.92	0.5	7	3	3.0	5,106	4,000	3.5		0.24														15	
FG2-MW3s	3/14/2017	22.5	7.01	0.6	6	74	3.0	4,776	4,000	6.4	0.21	0.065J	0.93	570	27	330	210	580	1,500	2.9	720	<8.2	<8.2	720	0.5	16	
FG2-MW3s	5/18/2017	19.5	7.41	0.3	3	228	1.5	4,695	4,100	7.8		0.039J														15	
FG2-MW3s	8/24/2017	21.5	7.06	0.6	7	66	2.0	4,865	3,900	7.5		0.030J														16	
FG2-MW3s	11/20/2017	21.8	7.07	0.5	6	143	3.1	4,803	4,000	5.9		0.031J														15	
FG2-MW3s	2/23/2018	20.6	6.90	0.7	7	196	4.0	4,976	3,900	7.0	0.062	0.043J	0.61	550	4.2	350	200	560	1,700	0.44	660	<8.2	<8.2	660	-1.6	14	
FG2-MW3s	5/16/2018	20.8	7.01	1.4	16	137	4.0	5,000	4,200	6.6		0.040J														16	
FG2-MW3s	8/17/2018	22.2	6.96	0.7	7	115	4.0	5,034	4,400	6.3		<0.10														16	
FG2-MW3s	11/14/2018	22.3	6.93	0.8	9	247	1.0	4,891	3,900	4.6		<0.10														15	
FG2-MW3s	3/1/2019	19.8	7.06	2.0	34	215	4.0	5,130	4,100	11	0.19	0.059J	1.7	500	40	330	200	540	1,600	2.6	680	<8.2	<8.2	680	-2.5	16	
FG2-MW3s	5/23/2019	21.1	6.98	0.7	12	176	1.0	4,830	4,100	6.3		0.075J														15	
FG2-MW3s	8/23/2019	23.0	7.10	1.0	8	264	1.0	4,843	4,000	7.4		<0.2														17	
FG2-MW3s	11/13/2019	23.1	6.95	0.8	9	178	3.0	4,683	3,500	6.1		0.097J														15	
FG2-MW4s	2/10/2012	20.7	7.19	2.6		250	4.0	4,518	3,600	16		<0.05														17	
FG2-MW4s	5/10/2012	20.2	7.31	1.8		213	51	4,512	3,300	18	0.023J*	0.027J	0.26*	590	2.8	190	170	440	1,200	0.23*	560*	<8.2*	<8.2*	560	0	16	H
FG2-MW4s	8/15/2012	22.6	7.01	0.7		172	24	4,308	2,900	29	0.027J	<0.05	0.46	510	1.5	180	160	470	1,000	0.11J	630	<8.2	<8.2	630	-4	17	
FG2-MW4s	12/6/2012	21.3	7.60	0.6		108	43	4,165	2,900	33		<0.050														19	
FG2-MW4s	3/22/2013	19.5	7.98	6.0	71	139	5.0	4,168	3,300	26		0.024J														16	
FG2-MW4s	5/31/2013	20.9	7.34	0.1	2	144	3.0	3,817	2,900	31		<0.050														16	
FG2-MW4s	8/23/2013	23.4	6.59	0.4	5	140	4.0	3,840	2,800	33	0.025J	0.047J	0.64	590	1.2	180	160	470	870	0.060J	690	<8.2	<8.2	690	1	20	
FG2-MW4s	11/13/2013	23.0	7.21	0.5	6	142	5.0	4,011	3,000	29		<0.050														17	
FG2-MW4s	2/19/2014	17.6	7.06	0.3	3	112	6.0	4,028	2,500	25		0.028J														16	
FG2-MW4s	5/23/2014	21.8	7.21	0.8	9	142	2.0	4,069	2,800	24		<0.10														16	
FG2-MW4s	8/27/2014	24.6	7.45	0.2	3	137	3.0	4,134	2,800	21	0.018J	<0.10	0.88	540	1.3	170	150	410	860	<0.15	690	12	<8.2	702	0	19	
FG2-MW4s	11/13/2014	23.3	7.11	0.8	9	225	7.2	4,049	2,900	18		<0.10														16	
FG2-MW4s	2/11/2015	21.6	7.20	3.7	38	69	1.5	3,986	2,700	17	0.012J	<0.10	0.71	580	1.0	190	160	430	850	0.49	690	<8.2	<8.2	690	4.3	16	
FG2-MW4s	5/12/2015	21.3	6.85	0.3	4	122	6.0	3,854	2,700	19		0.025J														16	
FG2-MW4s	8/17/2015	24.3	7.58	0.5	9	59	5.0	3,941	2,800	21		0.042J														16	
FG2-MW4s	11/13/2015	22.5	7.32	0.6	7	33	174	3,779	2,600	21		0.043J														16	
FG2-MW4s	2/25/2016	20.6	7.22	1.0	11	116	23	3,767	2,700	20	0.020J	<0.10	0.62	530	0.95J	170	160	460	780	0.15	670	<8.2	<8.2	670	1.1	15	
FG2-MW4s	5/17/2016	21.2	7.04	0.4	7	48	3.0	3,455	2,700	20		0.054J														16	
FG2-MW4s	8/15/2016	23.7	7.14	6.7	79	59	1.0	3,483	2,600	26		<0.10														16	
FG2-MW4s	11/22/2016	22.2	6.94	0.4	6	104	3.0	3,995	2,700	23		0.034J														15	
FG2-MW4s	3/14/2017	19.7	7.03	0.6	7	78	3.6	3,843	2,800	26	0.11	0.059J	0.68	540	11	200	190	490	860	0.36	690	<8.2	<8.2	690	2.4	17	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
FG2-MW4s	5/18/2017	21.0	7.16	0.3	3	203	6.0	3,641	2,800	19		0.052J														14	
FG2-MW4s	8/24/2017	23.2	7.01	0.5	7	55	2.0	3,800	2,600	22		0.025J														17	
FG2-MW4s	11/20/2017	22.6	7.10	12.50	143	136	6.0	3,932	2,900	22		0.025J														15	
FG2-MW4s	2/23/2018	20.5	6.87	0.7	7	134	12	3,986	2,800	25	0.054	0.044J	0.80	510	9.8	190	170	470	900	0.080J	660	<8.2	<8.2	660	-0.5	16	
FG2-MW4s	5/16/2018	20.0	7.03	1.7	20	169	4.0	3,932	2,800	19		0.043J														15	
FG2-MW4s	8/17/2018	22.6	6.96	0.6	6	138	3.0	3,848	2,900	15		<0.10														20	
FG2-MW4s	11/14/2018	23.2	6.92	0.6	7	253	1.0	3,833	2,700	16		<0.10														15	
FG2-MW4s	3/1/2019	19.6	7.12	2.2	37	105	5.0	4,105	2,900	19	0.26	0.066J	2.2	410	77	150	140	460	830	3.7	720	<8.2	<8.2	720	-8.2	16	
FG2-MW4s	5/23/2019	21.1	7.01	0.6	9	170	1.0	3,576	2,600	19		0.090J														18	
FG2-MW4s	8/23/2019	24.3	7.10	0.9	6	226	1.0	3,512	2,500	21		<0.2														18	
FG2-MW4s	11/13/2019	23.9	6.98	1.1	13	177	3.0	3,459	2,500	24		0.12J														15	
FG2-MW5s	2/10/2012	19.7	7.23	2.8		251	18	4,403	3,400	23		<0.05														14	
FG2-MW5s	5/10/2012	18.9	7.14	1.8		222	11	4,265	3,000	27	<0.05*	0.030J	0.64*	490	1.4	210	140	430	950	0.092J*	660*	<8.2*	<8.2*	660	-1.5	13	H
FG2-MW5s	8/15/2012	18.9	7.03	0.5		202	37	3,908	2,300	18	0.67	0.034J	1.1	380	0.93J	180	130	380	620	0.23	750	<8.2	<8.2	750	-2.7	15	
FG2-MW5s	12/6/2012	19.6	7.16	0.6		137	9.0	4,258	3,100	19		<0.050														14	
FG2-MW5s	3/22/2013	18.7	7.74	6.0	65	145	3.0	3,667	2,900	16		0.030J														13	
FG2-MW5s	5/31/2013	19.0	7.21	0.5	6	160	5.0	3,570	2,800	16		0.023J														13	
FG2-MW5s	8/23/2013	19.5	6.57	0.4	4	132	10	3,142	2,300	16	0.042J	0.061	0.91	420	1.0	190	130	330	560	0.13J	830	<8.2	<8.2	830	2.2	15	
FG2-MW5s	11/13/2013	19.8	7.08	0.3	4	157	6.0	3,749	2,800	14		<0.050														14	
FG2-MW5s	2/19/2014	19.6	7.11	1.1	12	128	5.0	3,606	2,600	13		0.018J														13	
FG2-MW5s	5/23/2014	18.8	7.13	0.1	1	27	4.0	4,027	3,000	11		<0.10														14	
FG2-MW5s	8/27/2014	21.6	7.46	0.3	4	137	3.0	3,208	2,100	12	0.016J	0.038J	0.92	400	1.2	180	130	270	470	0.16	780	<8.2	<8.2	780	6.7	15	
FG2-MW5s	11/13/2014	20.2	7.15	0.2	2	265	11.2	3,757	2,600	11		0.035J														14	
FG2-MW5s	2/11/2015	19.3	7.20	4.3	43	91	1.0	4,151	3,100	7.5	0.051	<0.10	0.77	570	1.2	240	170	370	1,200	0.13J	670	<8.2	<8.2	670	3.6	13	
FG2-MW5s	5/12/2015	19.9	6.68	0.3	5	120	3.0	3,773	2,800	7.5		0.027J														13	
FG2-MW5s	8/17/2015	22.7	7.68	0.4	5	83	7.0	3,887	2,800	7.2		<0.10														14	
FG2-MW5s	11/13/2015	19.6	7.29	0.4	4	59	11	3,494	2,400	6.4		0.035J														13	
FG2-MW5s	2/25/2016	20.6	7.24	1.0	12	123	4.0	3,642	2,700	5.3	0.013J	0.038J	0.62	500	1.3	200	150	370	1,000	0.11J	590	<8.2	<8.2	590	2.6	14	
FG2-MW5s	5/17/2016	20.5	7.02	0.4	6	61	2.0	3,230	2,600	7.3		0.10														16	
FG2-MW5s	8/15/2016	20.7	7.21	2.5	29	76	3.0	3,030	2,200	7.4		<0.10														16	
FG2-MW5s	11/22/2016	20.7	7.03	0.7	9	63	4.0	3,447	2,400	7.4		0.034J														13	
FG2-MW5s	3/14/2017	20.5	7.09	0.8	8	95	3.0	3,371	2,500	5.2	0.068	0.11	0.65	490	1.8	190	150	350	930	0.45	610	<8.2	<8.2	610	3.1	14	
FG2-MW5s	5/18/2017	22.6	7.53	0.2	3	199	11	3,536	2,900	4.3		0.032J														14	
FG2-MW5s	8/24/2017	20.2	7.12	0.8	9	70	3.5	3,469	2,500	4.6		0.030J														15	
FG2-MW5s	11/20/2017	21.2	7.14	0.7	9	164	3.5	3,418	2,400	5.4		0.028J														13	
FG2-MW5s	2/23/2018	19.9	6.99	1.0	12	193	5.0	3,271	2,200	6.2	0.11	0.037J	0.66	370	1.3	170	130	340	770	0.25	620	<8.2	<8.2	620	-2.5	15	
FG2-MW5s	5/16/2018	20.1	7.14	1.8	21	167	4.0	3,425	2,400	4.8		0.038J														13	
FG2-MW5s	8/17/2018	20.7	7.08	0.6	6	142	4.0	3,411	2,600	8.3		<0.10														16	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
FG2-MW5s	11/14/2018	21.6	7.06	0.4	6	251	1.0	3,549	2,500	7.6		0.13														13	
FG2-MW5s	3/1/2019	19.2	7.18	2.1	36	127	3.0	3,141	2,100	4.5	0.22	<0.20	0.70	320	1.2	150	110	320	620	0.18	680	<8.2	<8.2	680	-6	14	
FG2-MW5s	5/23/2019	20.1	7.11	0.7	12	135	1.0	3,222	2,400	7.9		0.092J														15	
FG2-MW5s	8/23/2019	22.6	7.21	1.0	9	266	1.0	2,817	1,900	5.6		<0.2														3	
FG2-MW5s	11/13/2019	22.0	7.06	0.9	11	178	4.0	3,171	2,300	5.5		0.083J														16	
GOD-MW1s	2/9/2012	20.4	7.43	1.3		155	7.0	3,114	2,100	2.9		0.081														13	
GOD-MW1s	5/9/2012	19.6	7.40	1.8		63	15	3,025	2,200	1.6	<0.05*	<0.05	0.45*	570	2.0	80	65	310	340	0.45*	910*	<8.2*	<8.2*	910	0.8	14	H
GOD-MW1s	8/20/2012	20.6	7.56	0.5		28	12	2,727	1,900	1.5	0.012J	0.043J	0.53	560	1.8	69	56	340	320	0.38	880	<8.2	<8.2	880	-1.6	16	
GOD-MW1s	12/3/2012	20.8	7.00	1.0		92	6.0	2,923	1,900	0.89		<0.050														12	
GOD-MW1s	3/19/2013	19.0	7.14	3.9	42	152	5.0	2,773	2,000	1.3		0.041J														14	
GOD-MW1s	5/29/2013	18.8	7.07	0.5	6	151	8.0	2,800	2,200	0.83		0.018J														14	
GOD-MW1s	8/21/2013	22.0	6.83	0.4	5	156	5.0	2,904	2,000	0.99	0.0065J	0.040J	0.46	530	1.5	73	60	320	360	0.39	840	<8.2	<8.2	840	-2	14	
GOD-MW1s	11/11/2013	21.1	7.47	0.3	3	125	7.0	2,924	2,100	0.67		0.020J														12	
GOD-MW1s	2/17/2014	19.3	7.75	0.3	3	101	6.0	2,949	2,000	0.54		<0.050														11	
GOD-MW1s	5/21/2014	20.8	7.30	0.2	2	32	12	2,977	2,000	0.71		0.053J														14	
GOD-MW1s	8/29/2014	22.5	7.74	0.3	3	130	6.0	3,052	1,900	0.94J	<0.050	<0.10	0.35	580	1.4	69	56	330	300	0.40	850	<8.2	<8.2	850	1.7	14	
GOD-MW1s	11/10/2014	25.0	7.39	1.0	12	97	7.7	2,915	1,900	1.1		<0.10														12	
GOD-MW1s	2/5/2015	19.7	7.08	1.6	19	24	4.0	2,949	2,000	0.73J	<0.050	<0.10	0.63	590	1.6	71	55	290	240	0.51	930	<8.2	<8.2	930	3.7	12	
GOD-MW1s	5/11/2015	18.3	7.65	3.9	67	170	7.0	2,862	2,000	0.97		0.075J														14	
GOD-MW1s	8/13/2015	22.5	6.72	0.4	6	53	3.0	2,932	1,900	2.5		0.038J														13	
GOD-MW1s	11/12/2015	21.0	7.47	1.9	21	108	315	2,942	1,900	3.8		<0.10														10	
GOD-MW1s	2/26/2016	19.6	7.48	0.6	7	97	19	2,968	1,900	6.9	0.018J	<0.10	0.59	570	1.2	71	56	270	330	0.50	840	<8.2	<8.2	840	2.6	9	
GOD-MW1s	5/16/2016	22.3	7.45	4.3	65	57	26	2,916	1,900	7.7		0.030J														11	
GOD-MW1s	8/16/2016	21.5	7.37	7.3	83	94	3.0	2,714	1,800	13		<0.10														12	
GOD-MW1s	11/21/2016	21.3	7.43	0.6	8	130	5.0	2,677	1,700	14		0.026J														10	
GOD-MW1s	3/13/2017	21.1	7.29	1.0	11	20	4.0	2,823	1,900	9.6	0.051	0.034J	0.38	530	1.3	75	64	270	470	0.38	670	<8.2	<8.2	670	1.5	11	
GOD-MW1s	5/16/2017	20.4	8.12	0.8	9	23	11	2,551	1,800	15		0.021J														12	
GOD-MW1s	8/22/2017	20.8	7.48	0.8	9	45	5.0	2,361	1,700	12		0.054J														15	
GOD-MW1s	11/14/2017	21.3	6.81	1.1	13	299	2.9	2,366	1,600	11		0.039J														12	
GOD-MW1s	2/23/2018	18.5	7.36	1.4	16	178	1.8	3,088	2,000	6.3	0.034J	0.023J	0.32	480	1.2	84	74	350	600	0.29	550	<8.2	<8.2	550	-3.5	13	
GOD-MW1s	5/16/2018	20.3	7.51	1.2	14	171	4.0	2,409	1,600	9.8		0.039J														14	
GOD-MW1s	8/15/2018	21.0	7.48	0.8	0	160	3.0	2,428	1,600	9.8		0.024J														15	
GOD-MW1s	11/15/2018	22.1	7.38	0.8	10	185	1.0	2,494	1,700	9.9		0.32														12	
GOD-MW1s	2/28/2019	19.1	7.46	1.9	31	149	12	2,913	1,900	6.7	0.023J	0.061J	0.32	420	1.6	76	72	300	530	0.31	540	<8.2	<8.2	540	-4.4	14	
GOD-MW1s	5/21/2019	19.8	7.49	0.7	14	148	30	2,446	1,700	9.8		0.070J														17	
GOD-MW1s	8/14/2019	22.2	7.61	0.6	14	70	2.0	2,382	1,600	11		<0.2														16	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
GOD-MW1s	11/14/2019	21.4	8.02	1.7	28	203	4.0	2,288	1,600	12		0.088J														13	
GOD-MW2s	2/9/2012	22.5	7.75	1.1		137	2.0	3,320	2,300	19		<0.05														15	
GOD-MW2s	5/9/2012	20.6	7.59	2.0		111	5.0	3,160	2,400	18	0.019J*	<0.05	0.25*	490	1.4	110	100	440	630	0.39*	440*	<8.2*	<8.2*	440	-0.3	16	H
GOD-MW2s	8/20/2012	21.2	7.85	0.2		34	12	2,305	2,200	17	0.020J	0.034J	0.31	480	1.0	100	96	460	680	0.49	410	<8.2	<8.2	410	-3.7	16	
GOD-MW2s	12/3/2012	21.9	7.25	0.8		109	7.0	3,038	2,100	16		<0.050														14	
GOD-MW2s	3/19/2013	21.3	7.84	4.6	51	104	3.0	2,829	2,000	16		0.029J														15	
GOD-MW2s	5/29/2013	20.2	7.51	0.5	5	131	7.0	3,070	2,200	20		<0.050														15	
GOD-MW2s	8/21/2013	22.5	6.67	0.4	5	135	4.0	3,308	2,400	23	0.026J	0.035J	0.43	560	1.2	110	95	470	660	0.49	470	<8.2	<8.2	470	0.2	15	
GOD-MW2s	11/11/2013	21.7	7.80	0.3	4	133	7.0	3,407	2,400	26		<0.050														14	
GOD-MW2s	2/17/2014	21.2	8.24	0.3	4	72	8.0	3,312	2,300	27		0.025J														12	
GOD-MW2s	5/21/2014	21.5	7.50	0.1	1	-44	5.0	3,368	2,400	27		<0.10														13	
GOD-MW2s	8/29/2014	23.0	7.76	0.3	4	127	3.0	3,368	2,300	25	0.014J	<0.10	0.37	500	1.6	120	99	430	600	0.38	460	<8.2	<8.2	460	1.4	13	
GOD-MW2s	11/10/2014	25.7	7.71	2.1	26	100	4.5	3,000	2,100	19		0.040J														13	
GOD-MW2s	2/5/2015	22.0	7.43	3.0	33	12	7.0	3,234	2,300	28	0.015J	<0.10	0.61	510	1.2	120	100	410	550	0.45	460	<8.2	<8.2	460	4	13	
GOD-MW2s	5/11/2015	22.2	8.00	0.4	5	86	5.6	3,011	2,000	27		0.033J														13	
GOD-MW2s	8/13/2015	25.8	7.59	0.7	11	61	4.0	3,120	2,200	32		0.032J														11	
GOD-MW2s	11/12/2015	22.1	7.58	0.5	6	75	9.0	3,341	2,200	36		<0.10														10	
GOD-MW2s	2/26/2016	21.4	7.64	0.7	9	106	3.0	3,193	2,200	32	<0.050	<0.10	0.51	450	1.2	130	110	420	560	0.32	450	<8.2	<8.2	450	1.4	10	
GOD-MW2s	5/16/2016	22.1	7.38	0.4	7	33	14	3,058	2,100	30		0.039J														11	
GOD-MW2s	8/16/2016	22.3	7.60	2.5	29	79	1.0	3,239	2,300	37		<0.10														12	
GOD-MW2s	11/21/2016	21.6	7.49	0.5	7	124	1.0	3,196	1,800	34		<0.10														10	
GOD-MW2s	3/13/2017	21.7	7.46	0.5	6	47	2.0	3,311	2,300	37	<0.050	0.029J	0.65	470	1.4	130	110	420	550	0.38	530	<8.2	<8.2	530	0.2	14	
GOD-MW2s	5/16/2017	22.1	7.29	0.4	4	228	1.6	3,294	2,200	37		0.037J														13	
GOD-MW2s	8/22/2017	21.7	7.51	0.6	7	45	4.0	3,179	2,400	38		0.057J														14	
GOD-MW2s	11/14/2017	21.8	6.90	0.8	9	262	1.8	3,228	2,100	37		0.046J														13	
GOD-MW2s	2/23/2018	20.8	7.44	1.2	15	197	2.5	3,116	2,100	30	0.011J	0.053J	0.48	430	1.0	120	96	410	550	0.36	430	<8.2	<8.2	430	-0.5	14	
GOD-MW2s	5/16/2018	21.1	7.45	1.2	13	186	5.0	3,255	2,300	35		0.050J														15	
GOD-MW2s	8/15/2018	21.5	7.42	0.7	7	179	4.0	3,284	2,200	36		0.026J														15	
GOD-MW2s	11/15/2018	22.5	7.36	0.7	8	216	1.6	3,279	2,200	36		0.075J														14	
GOD-MW2s	2/28/2019	21.3	7.49	1.6	25	149	3.0	3,238	2,200	35	0.010J	0.090J	0.65	390	1.7	110	92	420	520	0.33	470	<8.2	<8.2	470	-6	15	
GOD-MW2s	5/21/2019	21.3	7.45	0.6	10	185	6.0	3,270	2,300	40		0.070J														16	
GOD-MW2s	8/14/2019	21.9	7.54	0.5	13	93	2.0	3,275	2,400	37		<0.2														16	
GOD-MW2s	11/14/2019	22.0	7.98	1.9	29	198	3.0	3,157	2,300	38		0.10J														14	
GOD-MW3s	2/9/2012	21.3	7.45	1.3		147	5.0	1,549	1,000	11		<0.05														10	
GOD-MW3s	5/9/2012	19.6	7.32	2.1		122	5.0	1,620	1,100	17	<0.05*	<0.05	0.52*	180	2.3	60	110	180	160	0.42*	390*	<8.2*	<8.2*	390	2.5	11	H
GOD-MW3s	8/20/2012	20.7	7.55	0.6		62	11	1,407	1,000	33	<0.05	0.042J	0.61	170	1.9	49	91	110	150	0.42	390	<8.2	<8.2	390	-1.2	10	
GOD-MW3s	12/3/2012	21.8	7.21	1.0		117	15	1,396	940	30		<0.050														9	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
GOD-MW3s	3/19/2013	20.7	7.64	4.6	52	113	3.0	1,280	940	30		0.033J														9	
GOD-MW3s	5/29/2013	19.2	7.20	0.5	6	140	3.0	1,337	960	34		<0.050														10	
GOD-MW3s	8/21/2013	23.6	6.72	0.3	3	138	4.0	1,441	1,100	33	0.0078J	0.046J	0.72	150	2.0	56	99	92	150	0.46	380	<8.2	<8.2	380	1.4	9	
GOD-MW3s	11/11/2013	21.1	7.54	0.4	5	136	10	1,411	1,000	28		<0.050														9	
GOD-MW3s	2/17/2014	20.9	8.14	0.3	4	78	8.0	1,367	960	29		<0.050														7	
GOD-MW3s	5/21/2014	20.3	7.37	0.1	1	-14	4.0	1,330	930	19		<0.10														9	
GOD-MW3s	8/29/2014	23.8	7.82	0.2	3	125	7.0	1,459	800	14	<0.050	<0.10	0.58	140	1.9	43	77	100	110	0.30	320	<8.2	<8.2	320	3.8	6	
GOD-MW3s	11/10/2014	24.3	7.65	1.3	16	97	5.0	1,185	820	15		0.038J														7	
GOD-MW3s	2/5/2015	21.4	7.19	1.6	18	24	11	1,280	930	15	<0.050	<0.10	0.51	140	1.6	51	86	110	130	0.42	310	<8.2	<8.2	310	5.5	8	
GOD-MW3s	5/11/2015	21.0	7.96	0.4	7	79	8.0	1,178	600	15		0.028J														6	
GOD-MW3s	8/13/2015	23.7	7.51	1.1	18	68	5.0	1,227	820	17		0.029J														3	
GOD-MW3s	11/12/2015	21.6	7.46	0.5	6	61	10	1,579	920	22		<0.10														3	
GOD-MW3s	2/26/2016	21.2	7.50	0.5	6	106	13	1,592	1,000	22	<0.050	<0.10	0.41	140	2.0	68	120	140	130	0.43	450	<8.2	<8.2	450	1.4	3	
GOD-MW3s	5/16/2016	21.3	7.14	0.9	14	34	22	2,068	1,300	25		0.039J														4	
GOD-MW3s	8/16/2016	23.0	7.48	3.5	41	88	3.0	1,507	1,000	21		<0.10														2	
GOD-MW3s	11/21/2016	21.8	7.36	0.4	5	127	2.0	1,679	990	20		<0.10														3	
GOD-MW3s	3/13/2017	22.9	7.31	0.7	8	51	2.0	1,591	1,100	22	<0.050	0.037J	0.34	150	2.1	61	110	150	210	0.64	350	<8.2	<8.2	350	-0.3	7	
GOD-MW3s	5/16/2017	21.9	7.04	0.4	5	214	1.5	1,740	1,200	23		0.030J														7	
GOD-MW3s	8/22/2017	21.8	7.36	0.7	8	59	4.0	1,458	1,100	17		0.038J														7	
GOD-MW3s	11/14/2017	22.6	6.73	0.8	10	275	1.9	1,506	960	20		0.025J														8	
GOD-MW3s	2/23/2018	20.3	7.29	1.4	16	177	1.5	1,713	1,200	23	<0.050	<0.10	0.37	160	2.0	67	120	170	210	0.43	390	<8.2	<8.2	390	-0.3	7	
GOD-MW3s	5/16/2018	20.6	7.20	1.3	15	195	5.0	1,758	1,200	22		0.067J														9	
GOD-MW3s	8/15/2018	21.2	7.15	0.8	8	176	3.0	1,560	990	18		0.029J														7	
GOD-MW3s	11/15/2018	22.4	7.01	1.3	17	219	2.0	1,771	1,200	20		0.094J														9	
GOD-MW3s	2/28/2019	21.2	7.20	2.5	34	128	1.0	2,164	1,400	30	0.012J	0.082J	0.52	170	2.4	89	160	230	320	0.36	390	<8.2	<8.2	390	-0.7	10	
GOD-MW3s	5/21/2019	20.6	7.08	0.9	14	167	8.0	2,310	1,600	31		0.099J														11	
GOD-MW3s	8/14/2019	21.0	7.19	1.3	21	99	1.0	2,202	1,500	30		0.069J														10	
GOD-MW3s	11/14/2019	21.5	7.47	2.6	37	209	0.8	2,374	1,800	31		0.12J														9	
GOD-MW4s	2/9/2012	21.1	7.65	1.5		147	10	3,276	2,200	19		<0.05														11	
GOD-MW4s	5/9/2012	20.2	7.56	1.6		89	7.0	3,244	2,400	20	0.011J*	<0.05	0.27*	680	2.0	44	44	320	480	0.77*	770*	<8.2*	<8.2*	770	-0.6	11	H
GOD-MW4s	8/20/2012	22.3	7.71	0.3		39	33	2,961	2,200	25	0.044J	0.042J	0.40	630	1.2	35	35	340	490	0.79	720	<8.2	<8.2	720	-5.8	10	
GOD-MW4s	12/3/2012	22.8	7.22	0.9		101	22	3,056	2,000	20		<0.050														8	
GOD-MW4s	3/19/2013	20.4	7.73	4.3	49	133	5.0	3,018	2,100	22		0.031J														9	
GOD-MW4s	5/29/2013	19.1	7.56	0.3	4	145	2.0	3,037	2,100	21		<0.050														10	
GOD-MW4s	8/21/2013	23.2	6.84	0.3	3	138	5.0	3,024	2,100	21	0.060	0.041J	0.39	630	1.8	47	49	300	390	0.75	790	<8.2	<8.2	790	-0.2	9	
GOD-MW4s	11/11/2013	22.6	7.74	0.5	5	124	28	3,120	2,200	20		<0.050														8	
GOD-MW4s	2/17/2014	21.2	8.19	0.6	7	81	9.0	3,290	2,300	21		<0.050														8	
GOD-MW4s	5/21/2014	21.4	7.39	0.2	2	-8	3.0	3,296	2,100	21		<0.10														10	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
GOD-MW4s	8/29/2014	24.3	7.69	0.3	4	130	2.0	3,500	2,300	23	0.027J	<0.10	0.41	660	2.2	71	75	310	380	0.39	880	<8.2	<8.2	880	3.3	8	
GOD-MW4s	11/10/2014	26.7	7.47	1.3	18	103	4.6	3,446	2,200	21		0.038J														8	
GOD-MW4s	2/5/2015	21.9	7.31	2.4	25	14	6.0	3,346	2,300	21	0.034J	<0.10	0.51	660	2.0	74	75	310	370	2.3	890	<8.2	<8.2	890	3.7	8	
GOD-MW4s	5/11/2015	21.7	8.44	3.3	57	105	8.0	3,333	2,200	22		0.034J														8	
GOD-MW4s	8/13/2015	24.8	7.38	0.6	10	31	34	3,459	2,400	21		0.040J														6	
GOD-MW4s	11/12/2015	21.4	7.45	0.6	7	125	57	3,781	2,400	24		<0.10														5	
GOD-MW4s	2/26/2016	21.4	7.55	0.8	10	109	293	3,945	2,400	23	<0.050	0.077J	0.74	690	2.3	96	100	420	570	1.1	870	<8.2	<8.2	870	0.2	4	
GOD-MW4s	5/16/2016	21.7	7.28	0.6	10	34	38	3,945	2,600	24		0.051J														6	
GOD-MW4s	8/16/2016	22.9	7.44	5.1	60	92	36	4,088	2,700	27		<0.10														5	
GOD-MW4s	11/21/2016	21.8	7.31	0.5	7	108	348	4,254	2,800	27		0.025J														4	
GOD-MW4s	3/13/2017	22.2	7.34	0.7	8	39	4.0	4,198	2,800	27	0.011J	0.033J	0.57	770	2.4	110	120	450	730	0.39	900	<8.2	<8.2	900	0.8	9	
GOD-MW4s	5/16/2017	21.7	8.36	0.7	8	85	2.0	4,027	2,700	24		0.025J														8	
GOD-MW4s	8/22/2017	22.3	7.46	0.5	6	54	5.0	4,081	2,900	22		0.032J														10	
GOD-MW4s	11/14/2017	22.6	6.75	0.8	10	291	4.0	4,210	2,600	21		0.038J														8	
GOD-MW4s	2/23/2018	20.6	7.40	1.8	20	198	2.5	4,362	3,000	20	0.016J	0.029J	0.47	720	1.8	100	110	480	710	0.39	930	<8.2	<8.2	930	-3.5	10	
GOD-MW4s	5/16/2018	22.0	7.30	1.3	16	185	5.0	4,209	2,800	15		0.038J														10	
GOD-MW4s	8/15/2018	22.5	7.28	1.1	11	176	7.0	4,442	2,900	17		0.036J														9	
GOD-MW4s	11/15/2018	21.9	7.24	0.7	8	189	7.0	4,740	3,200	12		0.086J														8	
GOD-MW4s	2/28/2019	21.8	7.38	2.4	34	156	3.0	4,392	2,800	18	0.017J	0.094J	0.79	690	2.8	96	110	470	680	0.43	970	<8.2	<8.2	970	-5.1	11	
GOD-MW4s	5/21/2019	22.6	7.31	0.9	12	166	14	4,450	2,900	18		0.083J														11	
GOD-MW4s	8/14/2019	23.5	7.40	0.4	9	82	2.0	4,562	3,200	20		<0.2														10	
GOD-MW4s	11/14/2019	23.3	7.83	2.2	32	208	2.0	4,334	3,000	19		0.10J														9	
GOD-MW5s	2/9/2012	19.6	7.48	1.5		168	2.0	2,135	1,400	5.5		<0.05														20	
GOD-MW5s	5/9/2012	19.2	7.41	1.8		123	7.0	2,012	1,400	4.6	<0.05*	<0.05	<0.2*	180	1.5	110	120	290	300	0.21*	370*	<8.2*	<8.2*	370	1.7	18	H
GOD-MW5s	8/20/2012	21.1	7.95	0.5		30	8.0	1,741	1,300	5.4	0.014J	0.031J	0.13J	150	1.5	100	110	310	290	0.14J	320	<8.2	<8.2	320	-3.1	20	
GOD-MW5s	12/3/2012	22.0	7.59	0.7		82	3.0	2,007	1,400	4.8		<0.050														17	
GOD-MW5s	3/19/2013	20.8	7.82	4.8	54	102	3.0	1,906	1,400	7.4		<0.050														18	
GOD-MW5s	5/29/2013	19.9	7.67	0.3	4	119	13	2,010	1,400	7.9		<0.050														18	
GOD-MW5s	8/21/2013	23.4	6.67	0.4	4	133	4.0	1,914	1,300	5.3	0.0090J	0.036J	0.27	180	1.3	99	110	290	310	0.18	330	<8.2	<8.2	330	-0.3	19	
GOD-MW5s	11/11/2013	21.2	7.80	0.4	5	145	6.0	1,991	1,400	6.6		<0.050														17	
GOD-MW5s	2/17/2014	19.4	8.23	0.4	4	82	6.0	2,128	1,500	9.0		<0.050														16	
GOD-MW5s	5/21/2014	20.5	7.40	0.2	2	-43	4.0	1,887	1,300	5.8		<0.10														17	
GOD-MW5s	8/29/2014	23.1	7.81	0.3	4	119	3.0	1,872	1,200	5.0	<0.050	<0.10	0.22	180	1.3	86	96	260	260	<0.15	300	<8.2	<8.2	300	1.6	18	
GOD-MW5s	11/10/2014	20.3	7.84	1.2	14	90	3.0	1,758	1,200	5.4		0.038J														17	
GOD-MW5s	2/5/2015	20.4	7.39	1.6	16	22	1.2	1,716	1,200	5.2	<0.050	<0.10	0.31	170	1.0	88	94	240	240	0.25	290	<8.2	<8.2	290	3.8	17	
GOD-MW5s	5/11/2015	21.1	8.35	0.3	5	77	6.0	1,746	1,200	7.4		0.027J														18	
GOD-MW5s	8/13/2015	25.1	7.87	0.9	14	62	3.0	1,628	1,100	3.6		0.040J														17	
GOD-MW5s	11/12/2015	22.6	7.75	0.7	8	45	4.0	1,613	1,100	3.3		<0.10														16	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
GOD-MW5s	2/26/2016	20.7	7.68	0.5	6	117	3.0	1,613	1,100	3.8	<0.050	0.15	0.33	150	1.1	74	81	220	230	0.23	280	<8.2	<8.2	280	-0.5	18	
GOD-MW5s	5/16/2016	21.3	7.42	0.4	6	46	15	1,606	1,100	4.8		0.030J														17	
GOD-MW5s	8/16/2016	22.2	7.72	1.7	20	51	2.0	1,636	1,200	6.0		<0.10														18	
GOD-MW5s	11/21/2016	22.2	7.56	0.8	9	146	8.0	1,667	1,100	11		<0.10														17	
GOD-MW5s	3/13/2017	22.3	7.94	1.0	11	63	1.1	1,841	1,300	7.0	<0.050	0.035J	0.32	190	1.1	100	120	250	290	0.22	340	<8.2	<8.2	340	4.9	18	
GOD-MW5s	5/16/2017	21.7	7.50	0.4	4	250	1.0	2,050	1,500	9.0		0.021J														18	
GOD-MW5s	8/22/2017	22.8	7.54	0.7	9	76	3.5	2,081	1,500	11		0.036J														21	
GOD-MW5s	11/14/2017	22.5	6.91	0.8	10	251	1.6	2,032	1,300	9.2		<0.1														19	
GOD-MW5s	2/23/2018	18.9	7.52	1.2	14	186	7.6	2,235	1,500	10	<0.050	0.020J	0.42	210	0.98J	100	110	300	380	0.27	380	<8.2	<8.2	380	-3.8	19	
GOD-MW5s	5/16/2018	20.1	7.49	1.4	15	202	4.0	2,371	1,700	12		0.037J														18	
GOD-MW5s	8/15/2018	21.7	7.43	0.8	8	193	4.0	2,264	1,500	11		0.026J														19	
GOD-MW5s	11/15/2018	22.4	7.33	0.6	7	231	11	2,399	1,600	12		0.056J														20	
GOD-MW5s	2/28/2019	19.7	7.47	2.0	33	153	2.0	2,444	1,600	12	<0.050	0.058J	0.42	210	1.4	120	130	340	400	0.19	380	<8.2	<8.2	380	-1.6	18	
GOD-MW5s	5/21/2019	21.0	7.41	0.6	9	176	2.0	2,724	1,800	14		0.11J														19	
GOD-MW5s	8/14/2019	22.1	7.53	0.6	11	85	1.0	2,409	1,800	13		<0.2														21	
GOD-MW5s	11/14/2019	22.4	8.00	1.7	25	177	0.7	2,294	1,600	14		0.088J														18	
GOD-MW6s	2/9/2012	21.4	7.50	1.4		147	2.0	4,008	2,900	14		0.025J														18	
GOD-MW6s	5/9/2012	20.0	7.40	2.0		106	103	3,910	3,000	16	0.010J*	<0.05	0.24*	610	1.8	140	130	610	860	0.52*	450*	<8.2*	<8.2*	450	-0.8	16	H
GOD-MW6s	8/20/2012	21.7	7.66	0.2		39	7.0	3,763	2,800	16	0.013J	0.029J	0.41	640	1.4	140	130	640	920	0.32	460	<8.2	<8.2	460	-1.8	18	
GOD-MW6s	12/3/2012	21.9	7.16	0.9		110	87	3,969	2,700	15		<0.050														14	
GOD-MW6s	3/19/2013	20.7	7.74	5.5	61	105	4.0	3,724	2,900	16		<0.050														16	
GOD-MW6s	5/30/2013	20.9	7.50	3.8	42	199	18	3,850	2,600	15		<0.050														16	
GOD-MW6s	8/21/2013	22.2	6.67	0.4	4	133	4.0	3,885	2,800	16	0.0063J	0.050	0.47	600	1.8	140	130	620	860	0.36	460	<8.2	<8.2	460	-1.8	19	
GOD-MW6s	11/11/2013	20.8	7.69	0.4	4	144	6.0	3,904	2,800	17		<0.050														15	
GOD-MW6s	2/17/2014	20.2	8.23	0.5	5	76	8.0	3,916	2,800	15		0.024J														13	
GOD-MW6s	5/21/2014	20.6	7.36	0.1	1	4	3.0	4,094	2,900	14		<0.10														14	
GOD-MW6s	8/29/2014	23.3	7.66	0.6	7	125	5.0	4,139	2,900	15	<0.050	<0.10	0.27	640	1.3	130	130	600	830	0.25	460	<8.2	<8.2	460	0.6	16	
GOD-MW6s	11/10/2014	23.1	7.81	2.3	27	119	3.8	3,937	2,700	15		0.035J														14	
GOD-MW6s	2/5/2015	20.8	7.16	2.0	23	20	5.0	3,819	2,700	13	<0.050	<0.10	0.48	610	1.2	130	120	540	750	0.44	440	<8.2	<8.2	440	3.2	14	
GOD-MW6s	5/11/2015	21.0	8.43	0.7	12	73	9.0	3,543	2,400	14		<0.10														15	
GOD-MW6s	8/13/2015	26.7	7.54	1.9	28	57	3.0	3,623	2,500	15		0.048J														15	
GOD-MW6s	11/12/2015	21.6	7.69	0.6	7	77	5.0	3,706	2,400	18		<0.10														13	
GOD-MW6s	2/26/2016	21.3	7.54	0.6	8	116	3.0	3,843	2,600	21	<0.050	<0.10	0.68	560	1.3	120	120	550	750	0.38	450	<8.2	<8.2	450	-1.7	15	
GOD-MW6s	5/16/2016	21.6	7.34	0.5	7	35	15	4,006	2,700	28		0.037J														14	
GOD-MW6s	8/16/2016	22.1	7.53	2.1	25	82	2.0	4,237	3,100	37		<0.10														15	
GOD-MW6s	11/21/2016	22.2	7.36	0.6	7	133	4.0	4,467	2,900	51		<0.10														13	
GOD-MW6s	3/13/2017	22.0	7.49	0.6	6	72	1.1	4,418	3,100	49	<0.050	0.035J	0.99	680	1.3	170	170	600	920	0.37	510	<8.2	<8.2	510	2.3	15	
GOD-MW6s	5/16/2017	19.8	7.54	0.4	5	256	1.5	4,381	3,100	55		0.029J														15	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
GOD-MW6s	8/22/2017	21.9	7.39	0.6	7	56	4.0	4,146	3,500	52		0.036J														19	
GOD-MW6s	11/14/2017	22.0	6.48	0.8	10	260	1.7	4,165	2,800	53		0.033J														18	
GOD-MW6s	2/23/2018	20.1	7.38	1.5	16	205	1.8	4,319	3,000	53	<0.050	0.036J	0.79	630	1.3	140	140	560	940	0.42	510	<8.2	<8.2	510	-3.6	17	
GOD-MW6s	5/16/2018	20.7	7.34	1.6	18	189	5.0	4,152	3,000	50		0.037J														16	
GOD-MW6s	8/15/2018	21.5	7.31	0.8	8	177	3.0	4,163	2,900	49		0.031J														17	
GOD-MW6s	11/15/2018	22.3	7.26	0.7	8	219	2.0	3,994	2,800	47		0.087J														18	
GOD-MW6s	2/28/2019	20.7	7.46	1.8	30	157	2.0	4,075	2,800	44	<0.050	0.11J	0.92	570	1.4	130	120	490	800	0.48	510	<8.2	<8.2	510	-2.7	16	
GOD-MW6s	5/21/2019	21.1	7.36	0.6	12	173	4.0	3,906	1,800	47		0.080J														17	
GOD-MW6s	8/14/2019	22.3	7.45	0.8	15	75	1.0	3,882	2,800	44		0.12J														17	
GOD-MW6s	11/14/2019	22.1	7.89	1.9	30	178	1.0	3,674	2,700	50		0.12J														16	
GOD-MW7s	2/9/2012	21.2	7.53	1.3		151	1.0	4,194	3,000	2.5		<0.05														19	
GOD-MW7s	5/9/2012	19.9	7.66	1.7		109	83	4,230	3,400	2.9	<0.05*	<0.05	0.11J*	650	1.4	160	120	640	1,100	0.53*	430*	<8.2*	<8.2*	430	-2.4	15	H
GOD-MW7s	8/20/2012	21.7	7.75	0.4		25	17	4,010	3,200	2.5	0.057	0.053	0.26	670	1.1	170	130	670	1,200	0.27	430	<8.2	<8.2	430	-3	19	
GOD-MW7s	12/3/2012	21.8	7.21	0.7		106	6.0	4,141	2,900	1.8		<0.050														15	
GOD-MW7s	3/19/2013	20.8	7.72	5.2	59	95	4.0	3,927	3,000	2.1		<0.050														16	
GOD-MW7s	5/30/2013	21.7	7.61	4.9	54	170	6.0	3,542	2,700	2.0		<0.050														16	
GOD-MW7s	8/21/2013	22.0	6.64	0.3	4	132	4.0	3,469	2,500	2.1	0.019J	0.029J	0.25	500	1.4	140	100	490	880	0.26	400	<8.2	<8.2	400	-2.5	17	
GOD-MW7s	11/11/2013	20.3	7.73	0.4	4	143	7.0	3,174	2,400	2.5		<0.050														15	
GOD-MW7s	2/17/2014	19.5	8.37	0.7	9	77	9.0	3,411	2,500	1.3		0.022J														14	
GOD-MW7s	5/21/2014	20.2	7.44	0.1	1	9	5.0	3,557	2,500	0.98		<0.10														15	
GOD-MW7s	8/29/2014	24.4	7.69	0.9	10	121	3.0	3,602	2,400	0.38J	0.071	0.038J	0.95	550	1.3	140	100	440	710	1.0	640	<8.2	<8.2	640	0.5	17	
GOD-MW7s	11/10/2014	21.8	7.60	1.8	21	58	3.5	3,268	2,100	0.10		0.047J														15	
GOD-MW7s	2/5/2015	20.7	7.30	2.4	27	22	2.0	3,017	2,100	0.50J	0.056	<0.10	0.62	460	1.2	130	96	360	580	0.64	550	<8.2	<8.2	550	3.3	15	
GOD-MW7s	5/11/2015	21.0	8.27	0.5	9	75	7.0	3,295	2,200	0.39		0.050J														15	
GOD-MW7s	8/13/2015	25.2	7.49	1.2	18	51	3.0	3,249	2,200	0.42		0.052J														15	
GOD-MW7s	11/12/2015	21.3	7.57	0.6	6	15	7.0	3,603	2,300	0.55		0.028J														14	
GOD-MW7s	2/26/2016	21.5	7.49	0.6	8	93	4.0	3,868	2,700	0.48J	0.017J	0.028J	0.83	590	1.3	140	100	490	740	0.52	710	<8.2	<8.2	710	-1.5	17	
GOD-MW7s	5/16/2016	21.7	7.27	0.6	10	36	11	4,027	2,700	1.4		0.057J														15	
GOD-MW7s	8/16/2016	22.3	7.53	1.9	22	-7	6.0	3,838	2,600	0.75		0.050J														16	
GOD-MW7s	11/21/2016	22.6	7.36	0.6	8	116	4.0	4,108	2,700	1.9		0.029J														14	
GOD-MW7s	3/13/2017	21.8	7.55	0.6	7	66	2.6	3,897	2,800	1.6	0.083	0.035J	0.81	690	1.4	150	110	480	790	0.47	730	<8.2	<8.2	730	3.4	15	
GOD-MW7s	5/16/2017	21.3	7.55	0.5	5	256	1.5	3,983	2,700	1.8		0.031J														15	
GOD-MW7s	8/22/2017	22.2	7.39	0.6	7	57	4.0	3,707	2,600	2.1		0.053J														20	
GOD-MW7s	11/14/2017	21.6	6.78	0.8	10	255	2.1	3,838	2,500	2.1		0.031J														19	
GOD-MW7s	2/23/2018	20.4	7.34	1.6	17	185	2.5	3,845	2,600	1.3	0.054	0.053J	0.82	610	1.1	130	96	460	720	0.46	820	<8.2	<8.2	820	-2.8	18	
GOD-MW7s	5/16/2018	20.6	7.34	1.4	15	199	5.0	3,810	2,700	1.6		0.048J														16	
GOD-MW7s	8/15/2018	21.5	7.31	0.7	7	184	3.0	3,718	2,400	1.4		0.037J														18	
GOD-MW7s	11/15/2018	21.7	7.24	0.7	8	224	2.0	3,591	2,400	1.0		0.094J														20	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																----Alkalinity as CaCO3----								
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
GOD-MW7s	2/28/2019	20.8	7.49	1.7	27	221	1.0	3,562	2,300	0.65	0.026J	0.10J	0.77	520	1.4	120	88	400	570	0.43	800	<8.2	<8.2	800	-3	17	
GOD-MW7s	5/21/2019	21.2	7.34	0.7	10	183	3.0	3,373	2,300	0.58		0.081J														18	
GOD-MW7s	8/14/2019	22.0	7.44	0.4	12	91	1.0	3,349	2,300	0.83		0.09J														18	
GOD-MW7s	11/14/2019	22.2	7.84	2.0	30	204	0.9	3,238	2,300	1.7		0.10J														16	
MAC-MW1s	2/9/2012	19.2	7.31	1.2		123	3.0	2,516	1,600	14		<0.05														9	
MAC-MW1s	5/11/2012	19.2	7.32	0.5		209	18	2,509	1,500	15	<0.05*	<0.05	0.44*	370	2.7	55	71	250	220	0.81*	570*	<8.2*	<8.2*	570	0.2	11	H
MAC-MW1s	8/17/2012	22.1	7.18	0.6		215	26	2,423	1,600	17	0.10	0.049J	0.50	400	3.1	54	96	280	250	0.59	630	<8.2	<8.2	630	-0.4	10	
MAC-MW1s	12/3/2012	20.6	6.96	0.8		75	1.5	2,461	1,600	20		<0.050														11	
MAC-MW1s	3/18/2013	18.8	7.30	3.8	40	88	3.0	2,462	1,700	22		0.094														9	
MAC-MW1s	5/30/2013	20.0	7.47	3.4	37	141	8.0	2,430	1,800	23		0.028J														9	
MAC-MW1s	8/21/2013	23.5	6.55	0.3	4	138	3.0	2,379	1,600	18	0.13	0.034J	0.41	370	2.3	53	99	260	250	0.53	640	<8.2	<8.2	640	-2.3	11	
MAC-MW1s	11/12/2013	21.2	7.50	0.3	3	119	5.0	2,409	1,700	17		<0.050														9	
MAC-MW1s	2/18/2014	19.1	8.16	0.9	10	57	8.0	2,325	1,600	14		<0.050														10	
MAC-MW1s	5/22/2014	20.0	7.21	0.1	1	21	5.0	2,407	1,700	14		<0.10														10	
MAC-MW1s	8/29/2014	22.5	7.56	0.7	9	153	4.0	2,597	1,600	13	0.066	<0.10	0.61	400	2.2	63	110	290	250	0.52	630	<8.2	<8.2	630	2.2	8	
MAC-MW1s	11/11/2014	21.6	7.69	1.5	19	115	4.0	2,558	1,600	16		<0.10														11	
MAC-MW1s	2/5/2015	20.6	7.10	1.3	15	23	2.0	2,546	1,600	15	0.069	0.045J	0.73	420	2.3	67	130	280	320	0.56	630	<8.2	<8.2	630	3.6	10	
MAC-MW1s	5/11/2015	19.9	7.21	0.5	9	167	8.0	2,507	1,600	14		0.082J														9	
MAC-MW1s	8/14/2015	23.0	7.88	0.3	4	51	3.0	2,668	1,800	15		0.026J														9	
MAC-MW1s	11/12/2015	21.0	7.29	0.8	9	73	4.0	2,942	1,700	18		<0.10														11	
MAC-MW1s	2/26/2016	19.4	7.41	0.6	8	78	3.0	2,837	1,700	17	0.069	0.036J	0.65	410	2.4	79	140	320	340	0.52	670	<8.2	<8.2	670	1	9	
MAC-MW1s	5/16/2016	20.0	7.23	0.8	13	57	6.0	2,867	1,900	17		0.048J														11	
MAC-MW1s	8/16/2016	21.8	7.48	1.7	20	96	4.0	2,972	1,800	20		0.030J														11	
MAC-MW1s	11/21/2016	20.6	7.28	0.6	8	160	2.0	2,912	1,900	20		<0.10														10	
MAC-MW1s	3/13/2017	20.5	7.17	0.7	7	86	2.5	2,914	1,700	24	0.17	0.039J	0.70	380	3.1	100	200	340	390	0.48	720	<8.2	<8.2	720	1.4	11	
MAC-MW1s	5/16/2017	19.7	7.34	0.6	7	265	0.5	2,767	1,800	19		0.024J														11	
MAC-MW1s	8/22/2017	21.5	7.42	1.0	12	91	4.0	2,687	1,800	20		0.032J														11	
MAC-MW1s	11/14/2017	21.0	6.71	0.8	10	187	3.2	2,763	1,600	22		0.046J														9	
MAC-MW1s	2/23/2018	18.3	7.32	1.7	21	175	3.7	2,798	1,800	22	0.061	0.038J	0.81	400	1.8	72	130	300	380	0.44	650	<8.2	<8.2	650	-1.8	10	
MAC-MW1s	5/16/2018	19.3	7.27	0.9	10	123	6.0	2,756	1,800	20		0.036J														10	
MAC-MW1s	8/17/2018	23.1	7.30	1.4	20	159	3.0	2,760	1,800	23		0.026J														12	
MAC-MW1s	11/14/2018	21.1	7.29	1.5	19	90	4.0	2,803	1,800	24		<0.10														10	
MAC-MW1s	2/28/2019	18.0	7.36	2.2	36	79	2.0	3,111	2,000	27	0.12	0.065J	1.0	370	3.1	92	180	350	410	0.52	680	<8.2	<8.2	680	-1.8	10	
MAC-MW1s	5/21/2019	20.1	7.18	0.7	15	203	2.0	2,860	1,700	24		0.10J														9	
MAC-MW1s	8/14/2019	22.2	7.38	0.3	8	96	1.0	2,742	1,700	23		0.093J														11	
MAC-MW1s	11/14/2019	22.4	7.11	1.6	20	132	3.0	2,698	1,800	23*		0.13J														11	H

Table 4-6
Groundwater Quality

		-------Field Measurements-------																		----Alkalinity as CaCO3----						
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
MAC-MW2s	2/9/2012	19.9	7.25	0.9		116	5.5	2,987	2,000	26		0.026J														10	
MAC-MW2s	5/11/2012	20.2	7.05	0.8		222	12	2,976	1,800	14	0.012J*	<0.05	0.36*	490	1.6	72	53	250	140	0.34*	940*	<8.2*	<8.2*	940	0.3	11	H
MAC-MW2s	8/17/2012	20.9	7.01	0.6		218	28	2,619	1,600	17	0.021J	<0.05	0.45	500	1.7	79	75	270	160	0.34	880	<8.2	<8.2	880	3.7	11	
MAC-MW2s	12/3/2012	20.9	7.06	0.9		64	2.0	2,641	1,700	18		<0.050														10	
MAC-MW2s	3/18/2013	20.9	7.25	3.7	41	89	2.0	2,583	1,700	14		0.052														11	
MAC-MW2s	5/30/2013	20.1	7.27	3.0	31	153	8.0	2,383	1,600	18		0.017J														10	
MAC-MW2s	8/21/2013	22.9	6.47	0.3	4	137	4.0	2,517	1,700	15	0.016J	0.025J	0.40	450	1.5	77	73	240	160	0.37	870	<8.2	<8.2	870	1.7	12	
MAC-MW2s	11/12/2013	21.1	7.39	0.6	7	134	6.0	2,697	1,900	26		<0.050														10	
MAC-MW2s	2/18/2014	19.2	8.05	0.6	7	60	8.0	2,704	1,900	23		<0.050														12	
MAC-MW2s	5/22/2014	21.3	7.13	0.1	1	27	8.0	2,733	1,800	20		<0.10														10	
MAC-MW2s	8/29/2014	22.8	7.18	0.3	4	157	4.0	2,832	1,800	36	0.017J	<0.10	0.18J	520	1.7	60	59	270	200	0.58	720	<8.2	<8.2	720	3	9	
MAC-MW2s	11/11/2014	22.9	6.98	1.2	15	125	2.7	2,752	1,600	19		<0.10														12	
MAC-MW2s	2/5/2015	20.7	7.13	2.5	25	28	1.3	2,814	1,800	32	<0.050	<0.10	0.42	530	1.4	71	70	280	220	0.53	800	<8.2	<8.2	800	2.6	10	
MAC-MW2s	5/11/2015	19.8	6.78	0.4	7	224	4.0	3,257	2,200	67		0.044J														9	
MAC-MW2s	8/14/2015	23.9	7.58	0.2	3	55	3.0	2,990	2,200	45		<0.10														9	
MAC-MW2s	11/12/2015	22.4	7.35	0.5	6	40	3.0	2,849	1,800	31		<0.10														12	
MAC-MW2s	2/26/2016	20.3	7.44	0.6	7	51	4.0	2,871	1,800	40	<0.050	0.15	0.088J	510	1.2	72	70	310	210	0.52	710	<8.2	<8.2	710	2.4	9	
MAC-MW2s	5/16/2016	20.3	6.96	0.6	10	50	8.0	2,923	1,900	34		0.036J														11	
MAC-MW2s	8/16/2016	22.3	7.31	1.9	22	93	2.0	2,933	1,900	32		<0.10														11	
MAC-MW2s	11/21/2016	21.6	7.38	0.4	6	160	1.0	3,080	2,000	60		<0.10														10	
MAC-MW2s	3/13/2017	21.5	7.31	0.8	9	79	1.0	2,900	1,800	34	<0.050	0.047J	0.34	530	1.3	81	85	300	200	0.56	890	<8.2	<8.2	890	1.7	11	
MAC-MW2s	5/16/2017	21.2	6.88	0.6	6	224	0.9	3,096	2,000	24		<0.10														12	
MAC-MW2s	8/22/2017	22.5	7.28	0.8	9	67	4.0	2,722	1,900	30		0.025J														11	
MAC-MW2s	11/14/2017	21.6	6.77	0.8	9	191	2.7	2,819	1,800	46		0.048J														10	
MAC-MW2s	2/23/2018	18.9	7.23	2.4	25	162	17.6	3,147	2,000	24	<0.050	0.032J	0.55	510	1.2	100	95	330	180	0.60	1,000	<8.2	<8.2	1,000	0.6	12	
MAC-MW2s	5/16/2018	20.3	7.22	1.2	14	146	6.0	2,910	1,900	35		0.032J														11	
MAC-MW2s	8/17/2018	22.8	7.01	2.0	27	162	2.0	3,177	2,100	26		0.029J														11	
MAC-MW2s	11/14/2018	21.5	7.10	1.9	27	-18	7.0	3,120	2,100	28		<0.10														10	
MAC-MW2s	2/28/2019	19.0	7.42	2.1	32	13	2.0	QM	2,000	39	<0.050	<0.20	0.21	480	1.4	73	74	310	210	0.46	790	<8.2	<8.2	790	-1.8	10	
MAC-MW2s	5/21/2019	20.1	7.20	0.7	14	181	2.0	3,158	2,000	48		<0.2														9	
MAC-MW2s	8/14/2019	22.0	7.08	0.7	11	121	1.0	3,219	2,200	28		<0.2														12	
MAC-MW2s	11/14/2019	22.5	6.94	1.2	14	142	4.0	3,155	2,100	48*		0.10J														10	H
MAC-MW3s	2/9/2012	18.3	7.16	1.5		159	105	9,911	11,000	32		0.065														21	
MAC-MW3s	5/11/2012	18.5	7.10	1.0		225	480	12,150	12,000	33	0.048J*	<0.05	1.1*	2,100	5.8	460	500	720	5,600	3.1*	470*	<8.2*	<8.2*	470	1.8	21	H
MAC-MW3s	8/17/2012	21.5	7.08	0.7		133	193	9,029	8,200	50	0.15	0.034J	1.1	1,500	7.5	340	540	480	4,800	0.40	400	<8.2	<8.2	400	-1.9	21	
MAC-MW3s	12/3/2012	19.7	6.97	0.9		100	4.0	8,316	7,800	48		<0.050														22	
MAC-MW3s	3/18/2013	17.8	7.36	3.9	42	65	42	8,040	8,000	53		0.042J														18	
MAC-MW3s	5/30/2013	19.5	7.46	3.7	41	100	49	8,895	8,500	52		0.038J														20	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
MAC-MW3s	8/21/2013	26.9	6.48	0.6	7	139	8.0	8,156	9,000	52	0.13	0.039J	1.0	1,500	8.5	380	550	500	4,800	0.62	440	<8.2	<8.2	440	-1	19	
MAC-MW3s	11/12/2013	20.6	7.25	0.6	6	123	23	10,450	10,000	49		0.020J														20	
MAC-MW3s	2/18/2014	19.3	7.88	0.7	7	69	10	10,930	11,000	40		0.019J														21	
MAC-MW3s	5/22/2014	20.3	7.18	0.4	5	62	42	11,300	8,900	39		<0.10														20	
MAC-MW3s	8/29/2014	22.6	7.42	0.5	7	143	32	6,959	6,700	82	0.20	<0.10	1.5	940	8.3	280	570	290	3,600	0.35	390	<8.2	<8.2	390	-2.2	21	
MAC-MW3s	11/11/2014	21.9	7.28	1.8	18	161	4.8	9,911	7,200	130		0.042J														22	
MAC-MW3s	2/5/2015	19.3	6.94	3.0	33	46	13	9,230	8,800	56	0.20	0.056J	1.2	1,500	5.0	380	520	470	5,000	0.49	450	<8.2	<8.2	450	-3.1	21	
MAC-MW3s	5/11/2015	19.5	6.56	0.4	7	148	10	8,572	6,100	68		<0.10														21	
MAC-MW3s	8/14/2015	23.5	7.76	0.2	3	44	4.0	8,670	7,000	65		0.057J														21	
MAC-MW3s	11/12/2015	19.4	7.42	1.0	11	91	87	8,048	6,800	85		<0.10														22	
MAC-MW3s	2/26/2016	19.0	7.40	1.1	12	52	50	7,693	7,000	51	0.14	0.064J	0.95	1,200	7.1	300	500	330	3,900	1.9	380	<8.2	<8.2	380	0.1	21	
MAC-MW3s	5/16/2016	20.7	7.09	0.5	8	56	212	7,232	6,200	13		0.058J														21	
MAC-MW3s	8/16/2016	21.6	7.52	1.5	17	95	71	8,733	8,700	46		<0.10														21	
MAC-MW3s	11/21/2016	19.7	7.28	0.8	9	159	144	6,299	5,600	59		0.028J														21	
MAC-MW3s	3/13/2017	19.2	7.32	0.8	9	88	5.0	6,659	6,500	35	0.18	0.054J	0.95	980	6.6	270	620	260	3,600	1.1	310	<8.2	<8.2	310	2.6	21	
MAC-MW3s	5/16/2017	19.8	7.26	0.7	8	269	4.0	8,227	8,200	34		0.029J														21	
MAC-MW3s	8/22/2017	21.6	7.23	0.7	8	101	5.0	8,919	9,500	41		0.048J														21	
MAC-MW3s	11/14/2017	20.0	6.53	0.8	9	175	21.7	11,920	7,400	45		0.058J														20	
MAC-MW3s	2/23/2018	18.1	7.37	1.2	14	197	17.79	7,769	6,900	45	0.13	0.055J	1.1	1,100	6.4	250	510	400	3,900	1.9	340	<8.2	<8.2	340	-4.3	21	
MAC-MW3s	5/16/2018	18.9	7.29	1.4	15	186	7.0	5,397	5,200	59		0.046J														22	
MAC-MW3s	8/17/2018	22.5	7.22	1.3	16	163	9.0	7,494	8,000	51		0.040J														21	
MAC-MW3s	11/14/2018	20.9	7.20	1.7	22	74	11	8,939	7,800	44		<0.10														21	
MAC-MW3s	2/28/2019	18.4	7.39	2.1	32	94	8.0	8,840	8,000	44	0.19	0.057J	1.1	1,200	7.5	330	540	510	4,600	1.1	390	<8.2	<8.2	390	-6.4	22	
MAC-MW3s	5/21/2019	19.8	7.27	0.5	13	197	2.0	5,894	5,300	50		0.13J														21	
MAC-MW3s	8/14/2019	22.1	7.30	0.7	14	107	17	9,793	9,800	35		0.074J														22	
MAC-MW3s	11/14/2019	20.9	7.04	1.4	17	167	21	7,450	7,000	43*		0.14J														21	H
MAC-MW4s	2/9/2012	20.0	7.44	1.5		140	4.0	3,911	2,600	7.7		9.2														20	
MAC-MW4s	5/11/2012	19.7	7.27	0.5		191	17	4,532	3,000	8.8	0.027J*	10	9.9*	750	37	84	66	550	600	3.7*	810*	<8.2*	<8.2*	810	-0.5	21	H
MAC-MW4s	8/17/2012	22.7	7.17	0.6		181	7.0	4,340	2,900	7.3	<0.05	12	13	880	48	98	80	600	620	5.4	920	<8.2	<8.2	920	3.5	21	
MAC-MW4s	12/3/2012	21.1	6.96	1.2		91	35	4,042	2,700	7.9		3.9														22	
MAC-MW4s	3/18/2013	19.5	7.34	3.4	37	90	2.0	4,297	3,000	10		3.7														21	
MAC-MW4s	5/30/2013	20.4	7.47	3.6	40	157	10	3,685	2,500	10		1.5														20	
MAC-MW4s	8/21/2013	22.8	6.46	0.4	5	132	4.0	3,849	2,800	10	0.0042J	0.90	1.5	670	9.7	110	83	510	600	1.4	810	<8.2	<8.2	810	-1.4	21	
MAC-MW4s	11/12/2013	21.1	7.39	0.5	5	114	7.0	3,810	2,700	11		0.68														20	
MAC-MW4s	2/18/2014	20.4	7.82	0.4	4	53	7.0	3,860	2,700	11		0.54														21	
MAC-MW4s	5/22/2014	20.6	7.30	0.1	1	25	7.0	4,100	2,900	10		0.42														21	
MAC-MW4s	8/29/2014	23.2	7.68	0.6	6	139	5.0	4,174	2,800	10	<0.050	0.28	0.86	710	10	99	79	510	610	1.7	810	<8.2	<8.2	810	-0.9	20	
MAC-MW4s	11/11/2014	22.6	7.56	1.2	15	130	2.7	4,004	2,800	13		0.31														22	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
MAC-MW4s	2/5/2015	21.4	7.02	1.2	14	34	1.2	4,231	2,800	12	<0.050	0.18	1.3	810	9.8	110	84	540	680	1.6	850	<8.2	<8.2	850	1.5	21	
MAC-MW4s	5/11/2015	20.0	7.24	0.4	7	132	8.0	3,823	2,600	14		0.14														21	
MAC-MW4s	8/14/2015	24.0	7.86	0.4	7	32	8.0	4,178	3,300	14		0.17														21	
MAC-MW4s	11/12/2015	20.8	7.45	0.6	7	75	3.0	4,126	2,700	16		0.14														22	
MAC-MW4s	2/26/2016	20.7	7.40	0.7	8	61	4.0	4,549	3,000	13	<0.050	0.14	0.78	820	9.6	110	87	570	740	1.1	900	<8.2	<8.2	900	-1.1	21	
MAC-MW4s	5/16/2016	21.2	7.13	1.0	16	57	67	4,331	3,100	14		0.15														21	
MAC-MW4s	8/16/2016	22.5	7.43	1.6	19	86	2.0	4,405	3,100	16		0.077J														22	
MAC-MW4s	11/21/2016	20.7	7.30	0.7	8	159	20	4,350	2,900	16		0.11														20	
MAC-MW4s	3/13/2017	21.0	7.22	0.6	7	80	2.0	4,547	3,200	16	0.019J	0.088J	0.99	880	21	110	92	590	760	1.3	920	<8.2	<8.2	920	0.4	21	
MAC-MW4s	5/16/2017	19.9	7.54	0.6	7	267	0.4	4,282	2,900	17		0.13														21	
MAC-MW4s	8/22/2017	22.0	7.37	0.8	9	85	3.0	4,166	2,900	18		0.087J														21	
MAC-MW4s	11/14/2017	21.3	6.69	0.9	11	179	3.0	4,270	2,900	19		0.12														20	
MAC-MW4s	2/23/2018	19.1	7.35	1.4	16	183	2.8	4,114	2,800	16	<0.050	0.094J	0.76	720	4.7	110	96	510	690	0.55	780	<8.2	<8.2	780	-0.2	21	
MAC-MW4s	5/16/2018	20.2	7.26	1.1	13	170	5.0	4,380	3,000	18		0.12														21	
MAC-MW4s	8/17/2018	23.8	7.25	1.6	17	140	2.0	4,725	3,400	20		0.070J														21	
MAC-MW4s	11/14/2018	21.9	7.23	1.5	18	69	6.0	4,625	3,200	18		0.036J														21	
MAC-MW4s	2/28/2019	19.1	7.30	2.0	31	83	2.0	4,808	3,300	19	0.020J	0.058J	1.1	780	25	110	89	610	770	1.3	900	<8.2	<8.2	900	-4.5	21	
MAC-MW4s	5/21/2019	20.9	7.32	0.7	14	211	1.0	3,961	2,700	17		0.097J														20	
MAC-MW4s	8/14/2019	23.4	7.42	0.4	5	82	1.0	4,360	3,200	19		0.082J														22	
MAC-MW4s	11/14/2019	22.5	7.14	1.2	14	154	4.0	3,909	2,700	17*		0.11J														22	H
MAC-MW5s	2/9/2012	19.9	7.61	1.2		127	10	4,505	3,100	17		7.0														20	
MAC-MW5s	5/11/2012	19.7	7.57	0.5		180	26	4,297	2,900	17	0.53*	0.61	0.65*	810	3.1	61	47	490	580	0.95*	850*	<8.2*	<8.2*	850	-1.7	21	H
MAC-MW5s	8/17/2012	22.2	7.33	0.4		195	672	4,082	2,700	20	<0.05	0.35	1.3	880	3.2	54	45	510	580	0.83	870	<8.2	<8.2	870	-0.3	21	
MAC-MW5s	12/3/2012	21.4	7.05	0.8		84	6.0	4,280	2,900	22		0.13														22	
MAC-MW5s	3/18/2013	19.1	7.54	3.3	36	82	3.0	4,257	3,000	22		0.15														20	
MAC-MW5s	5/30/2013	20.5	7.78	3.0	32	154	9.0	4,090	3,000	20		0.20														20	
MAC-MW5s	8/21/2013	23.5	6.67	0.3	4	129	3.0	4,067	3,000	19	0.0075J	0.19	0.85	810	3.2	66	52	510	610	0.82	860	<8.2	<8.2	860	-2.6	22	
MAC-MW5s	11/12/2013	21.2	7.71	0.2	3	108	5.0	4,134	2,800	20		0.17														20	
MAC-MW5s	2/18/2014	20.5	8.17	0.5	5	48	7.0	4,298	3,000	21		0.057														21	
MAC-MW5s	5/22/2014	20.5	7.42	0.1	1	16	4.0	4,373	3,200	21		0.083J														21	
MAC-MW5s	8/29/2014	22.3	7.80	0.3	4	144	3.0	4,608	3,000	21	<0.050	0.14	0.93	930	3.3	64	51	540	640	0.96	910	<8.2	<8.2	910	0.1	20	
MAC-MW5s	11/11/2014	21.7	7.89	1.3	15	127	3.2	4,191	3,000	17		0.067J														22	
MAC-MW5s	2/5/2015	19.7	7.32	1.4	17	23	2.0	4,440	3,100	19	<0.050	0.19	1.2	940	3.7	63	49	520	680	0.78	920	<8.2	<8.2	920	0	21	
MAC-MW5s	5/11/2015	20.0	7.27	0.7	11	129	16	4,269	3,000	18		0.41														20	
MAC-MW5s	8/14/2015	24.3	8.09	0.3	4	31	13	4,350	3,400	18		0.35														21	
MAC-MW5s	11/12/2015	21.5	7.66	0.5	6	69	3.0	4,347	2,900	19		0.048J														22	
MAC-MW5s	2/26/2016	20.5	7.63	0.5	7	65	4.0	4,408	3,000	20	<0.050	0.13	0.89	900	4.1	60	47	500	670	0.81	920	<8.2	<8.2	920	-1.4	21	
MAC-MW5s	5/16/2016	20.7	7.31	0.7	11	56	148	4,370	3,100	20		0.13														22	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
MAC-MW5s	8/16/2016	21.9	7.69	1.6	19	82	5.0	4,309	3,000	21		0.034J														22	
MAC-MW5s	11/21/2016	20.2	7.58	0.7	9	152	3.0	4,295	2,800	20		0.047J														21	
MAC-MW5s	3/13/2017	22.0	7.61	0.5	6	70	2.5	4,231	3,000	19	<0.050	0.053J	0.64	910	4.2	62	50	500	660	0.72	920	<8.2	<8.2	920	-0.3	21	
MAC-MW5s	5/16/2017	20.5	7.58	0.4	5	256	0.7	4,261	3,000	19		0.034J														22	
MAC-MW5s	8/22/2017	23.0	7.62	0.7	8	91	3.0	4,112	3,000	19		0.12														22	
MAC-MW5s	11/14/2017	21.8	6.89	0.6	7	175	2.5	4,390	2,900	21		0.22														20	
MAC-MW5s	2/23/2018	19.5	7.53	1.4	16	166	3.1	4,312	2,900	19	0.010J	<0.10	0.94	850	3.2	59	46	510	680	0.72	860	<8.2	<8.2	860	-3.2	21	
MAC-MW5s	5/16/2018	20.0	7.57	1.2	13	151	5.0	4,305	3,000	19		0.053J														21	
MAC-MW5s	8/17/2018	22.6	7.59	1.3	16	161	4.0	4,268	3,000	21		0.054J														22	
MAC-MW5s	11/14/2018	22.2	7.46	1.3	17	65	8.8	4,402	3,100	20		0.11														21	
MAC-MW5s	2/28/2019	19.5	7.64	1.8	30	111	2.0	4,430	3,100	22	<0.050	0.056J	0.86	800	1.7	59	47	510	690	0.63	900	<8.2	<8.2	900	-7	21	
MAC-MW5s	5/21/2019	21.2	7.54	0.5	8	204	1.0	4,361	3,000	21		0.090J														20	
MAC-MW5s	8/14/2019	22.0	7.59	0.3	5	90	1.0	3,962	2,700	19		<0.2														22	
MAC-MW5s	11/14/2019	22.9	7.39	1.2	14	128	3.0	4,227	3,000	21*		0.11J														22	H
NUN-MW1s	2/9/2012	20.4	7.36	1.1		132	6.5	6,638	5,100	2.8		0.032J														9	
NUN-MW1s	5/11/2012	20.0	7.25	0.7		201	22	7,200	5,100	1.3	0.015J*	<0.05	0.59*	1,300	2.1	180	130	780	2,000	0.34*	770*	<8.2*	<8.2*	770	-0.8	9	H
NUN-MW1s	8/17/2012	21.4	7.16	0.5		165	7.0	6,470	4,700	1.2	<0.05	<0.05	0.50	1,300	2.8	170	120	800	1,900	0.28	790	<8.2	<8.2	790	-0.9	9	
NUN-MW1s	12/4/2012	20.1	7.45	1.1		120	5.0	6,514	4,700	2.2		<0.050														9	
NUN-MW1s	3/18/2013	18.4	7.27	3.9	42	86	2.0	6,329	4,900	1.5		0.033J														9	
NUN-MW1s	5/30/2013	20.0	7.52	3.5	39	142	6.0	6,161	4,800	1.1		0.046J														9	
NUN-MW1s	8/21/2013	22.9	6.59	0.3	4	131	4.0	6,297	4,900	1.1	0.011J	0.029J	0.59	1,200	1.9J	170	120	760	1,800	0.33	780	<8.2	<8.2	780	-1.6	10	
NUN-MW1s	11/12/2013	21.8	7.47	0.4	5	110	6.0	6,296	4,700	0.94		<0.050														9	
NUN-MW1s	2/17/2014	19.8	8.12	0.9	9	70	6.0	6,236	5,000	1.4		<0.050														8	
NUN-MW1s	5/21/2014	20.3	7.32	0.2	2	-40	5.0	6,700	5,000	1.1		<0.10														10	
NUN-MW1s	8/28/2014	24.0	7.71	0.2	3	101	3.0	6,533	4,700	0.88J	<0.050	<0.10	0.53	1,300	2.3	160	110	730	1,700	0.15	790	<8.2	<8.2	790	2.3	9	
NUN-MW1s	11/7/2014	21.8	7.93	0.8	10	24	4.0	6,477	4,900	1.0		<0.10														11	
NUN-MW1s	2/5/2015	19.8	7.09	1.1	12	12	2.0	7,233	6,000	0.81J	<0.050	<0.10	0.83	1,400	4.9J	220	160	860	2,400	0.35	740	<8.2	<8.2	740	-1.1	11	
NUN-MW1s	5/12/2015	19.9	7.19	0.4	7	208	5.0	7,889	6,600	2.6		0.030J														11	
NUN-MW1s	8/13/2015	22.8	7.32	1.0	15	67	3.0	7,953	6,600	4.2		0.031J														11	
NUN-MW1s	11/13/2015	22.1	7.47	1.0	12	149	40	7,716	6,000	4.4		0.065J														12	
NUN-MW1d	2/26/2016	21.1	7.42	0.6	7	64	28	8,004	5,800	1.2	<0.050	0.046J	0.69	1,500	2.4J	250	180	920	2,600	0.47	760	<8.2	<8.2	760	-0.3	24	
NUN-MW1s	5/17/2016								5,600	5.3		0.059J															
NUN-MW1s	8/16/2016	23.2	7.38	1.6	19	51	2.0	8,045	6,200	1.6		<0.10														10	
NUN-MW1s	11/21/2016	21.5	7.14	0.4	6	152	1.0	7,835	6,200	1.4		<0.10														10	
NUN-MW1s	3/13/2017	19.5	7.27	0.6	6	-32	3.0	6,749	5,100	1.7	<0.050	0.031J	0.57	1,400	5.0	180	140	770	2,100	0.38	820	<8.2	<8.2	820	0.5	10	
NUN-MW1s	5/17/2017	21.1	7.22	0.6	6	196	1.1	6,167	4,900	1.5		0.039J														10	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
NUN-MW1s	8/22/2017	22.5	7.36	0.7	8	93	3.0	6,426	5,200	1.2		0.048J														11	
NUN-MW1s	11/14/2017	22.3	6.80	0.5	6	153	3.3	6,368	4,500	1.4		0.072J														10	
NUN-MW1s	2/23/2018	17.2	7.48	2.4	25	147	9.0	6,027	4,300	1.5	<0.050	0.034J	0.69	1,200	1.6J	140	100	770	1,700	0.54	800	<8.2	<8.2	800	-3.2	10	
NUN-MW1s	5/16/2018	20.0	7.35	1.2	14	146	6.0	6,504	4,800	2.5		0.044J														11	
NUN-MW1s	8/17/2018	22.9	7.30	1.2	17	111	4.0	6,250	4,600	1.5		0.10														10	
NUN-MW1s	11/13/2018	21.8	7.50	2.9	38	83	7.5	6,423	4,600	1.4		0.15														10	
NUN-MW1s	2/28/2019	18.8	7.40	2.0	33	110	3.0	6,260	4,400	2.9	0.022J	0.11J	0.84	1,100	7.6	150	110	710	1,600	0.60	770	<8.2	<8.2	770	-2.3	11	
NUN-MW1s	5/21/2019	20.8	7.46	0.6	11	178	1.0	6,141	4,700	3.8		0.093J														10	
NUN-MW1s	8/14/2019	22.0	7.44	0.4	9	72	2.0	5,950	4,500	3.9		0.1J														11	
NUN-MW1s	11/14/2019	23.2	7.21	2.1	25	177	4.0	5,889	4,300	1.5		0.13J														9	
NUN-MW2s	2/9/2012	18.9	7.45	1.1		130	1.0	3,833	2,900	5.8		0.033J														19	
NUN-MW2s	5/11/2012	18.6	7.30	0.7		193	22	3,987	2,800	4.3	0.031J*	<0.05	0.55*	610	1.7	110	98	380	1,000	0.29*	540*	<8.2*	<8.2*	540	-2.6	19	H
NUN-MW2s	8/17/2012	21.6	7.23	0.4		152	8.0	3,892	2,800	3.7	0.015J	0.025J	0.63	690	2.1	130	120	420	1,100	0.30	520	<8.2	<8.2	520	1.4	19	
NUN-MW2s	12/4/2012	21.5	7.29	1.6		137	7.0	4,132	3,000	1.6		<0.050														20	
NUN-MW2s	3/18/2013	18.0	7.41	4.3	44	94	0.9	3,805	2,900	1.1		0.021J														19	
NUN-MW2s	5/30/2013	19.0	7.48	4.1	43	149	9.0	3,445	2,600	1.5		0.035J														19	
NUN-MW2s	8/21/2013	22.3	6.56	0.4	4	138	5.0	3,515	2,800	1.5	0.041J	0.033J	0.91	560	1.0	120	130	330	1,000	0.26	570	<8.2	<8.2	570	-1.1	19	
NUN-MW2s	11/12/2013	21.2	7.49	0.3	3	117	7.0	3,837	2,900	2.1		0.019J														19	
NUN-MW2s	2/17/2014	19.0	7.93	0.5	5	55	9.0	3,769	2,900	2.2		<0.050														18	
NUN-MW2s	5/21/2014	19.0	7.27	0.2	2	20	7.0	3,810	2,900	3.6		<0.10														20	
NUN-MW2s	8/28/2014	23.4	7.71	0.4	5	98	5.0	3,734	2,600	1.6	0.018J	<0.10	0.92	570	1.5	130	140	310	950	0.15	570	<8.2	<8.2	570	3	19	
NUN-MW2s	11/7/2014	22.8	7.63	1.2	15	89	3.4	3,584	2,600	1.9		<0.10														21	
NUN-MW2s	2/5/2015	19.9	7.02	1.2	13	-35	1.5	3,856	3,100	1.6	0.019J	<0.10	0.88	630	1.2	150	150	360	1,200	0.18	560	<8.2	<8.2	560	0.9	21	
NUN-MW2s	5/12/2015	19.3	7.48	0.3	5	91	10	3,644	2,700	1.5		0.034J														21	
NUN-MW2s	8/13/2015	24.8	7.37	0.6	10	1	3.0	3,748	3,100	1.0		0.032J														21	
NUN-MW2s	11/13/2015	21.0	7.51	0.5	6	-22	7.0	3,893	3,000	1.8		0.21														22	
NUN-MW2s	2/26/2016	19.7	7.44	0.8	9	-60	3.0	3,723	2,900	2.7	0.027J	0.077J	0.76	600	1.1	130	130	330	1,100	0.25	550	<8.2	<8.2	550	-0.1	22	
NUN-MW2s	5/17/2016	19.4	7.27	0.5	8	41	1.0	3,454	2,800	9.1		0.079J														20	
NUN-MW2s	8/16/2016	22.0	7.50	1.6	19	23	1.0	3,737	2,800	5.7		<0.10														19	
NUN-MW2s	11/21/2016	20.5	7.20	0.5	6	-3	36	3,736	2,800	6.3		<0.10														19	
NUN-MW2s	3/13/2017	20.8	7.38	0.6	7	-21	3.0	3,555	2,700	11	0.064	0.040J	0.71	600	1.0	140	140	300	1,100	0.29	530	<8.2	<8.2	530	2.1	19	
NUN-MW2s	5/17/2017	19.3	7.19	0.7	8	62	2.4	3,273	2,700	14		0.063J														19	
NUN-MW2s	8/22/2017	22.8	7.39	1.0	12	-9	6.0	3,376	3,000	7.0		0.053J														20	
NUN-MW2s	11/14/2017	21.5	6.91	0.7	9	89	1.5	3,510	2,600	4.3		0.062J														19	
NUN-MW2s	2/23/2018	17.3	7.39	1.9	20	93	11	3,496	2,500	1.7	0.014J	0.048J	0.77	560	0.72J	130	140	330	1,100	0.53	510	<8.2	<8.2	510	-0.6	19	
NUN-MW2s	5/16/2018	19.7	7.30	1.2	14	31	7.0	3,443	2,500	1.4		0.044J														20	
NUN-MW2s	8/17/2018	22.0	7.27	1.2	21	56	5.0	3,414	2,600	2.1		0.15														20	
NUN-MW2s	11/13/2018	21.3	7.37	2.9	38	3	5.5	3,786	2,800	1.1		0.18														19	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
NUN-MW2s	2/28/2019	18.3	7.19	2.1	35	73	3.0	3,604	2,600	5.5	0.015J	0.12J	0.80	460	1.3	140	140	350	1,000	0.26	490	<8.2	<8.2	490	-2.9	20	
NUN-MW2s	5/21/2019	19.5	7.27	0.5	13	88	1.0	3,732	2,900	18		0.12J														19	
NUN-MW2s	8/14/2019	22.6	7.35	0.3	5	38	8.0	3,766	2,800	10		0.075J														20	
NUN-MW2s	11/14/2019	21.9	7.16	1.9	22	168	3.0	3,808	2,800	6.2		0.12J														20	
NUN-MW3s	2/9/2012	21.2	7.21	0.9		132	27.5	6,850	5,400	8.4		0.036J														9	
NUN-MW3s	5/11/2012	19.7	7.11	0.8		210	25	7,533	5,400	12	0.010J*	<0.05	1.0*	1,300	1.9J	130	180	860	2,100	1.5*	670*	<8.2*	<8.2*	670	-3.8	9	H
NUN-MW3s	8/17/2012	23.7	7.02	0.7		143	77	6,817	5,100	41	0.064	0.047J	1.3	1,400	3.1	140	220	780	2,000	0.21	710	<8.2	<8.2	710	1.6	9	
NUN-MW3s	12/4/2012	20.9	7.13	1.0		129	6.0	6,852	5,100	19		<0.050														9	
NUN-MW3s	3/18/2013	18.4	7.05	3.8	42	108	6.0	6,541	5,100	14		0.022J														9	
NUN-MW3s	5/30/2013	19.7	7.31	3.7	39	148	7.0	6,346	4,900	14		0.038J														9	
NUN-MW3s	8/21/2013	23.7	6.38	0.3	3	136	4.0	6,256	5,000	13	0.057	0.029J	1.0	1,200	1.7J	120	210	690	2,000	0.16	720	<8.2	<8.2	720	-2.6	9	
NUN-MW3s	11/12/2013	22.1	7.27	1.0	11	121	6.0	6,409	5,000	12		<0.050														10	
NUN-MW3s	2/17/2014	19.2	7.77	0.6	6	78	8.0	6,461	5,100	8.5		<0.050														8	
NUN-MW3s	5/21/2014	19.7	7.09	0.2	3	31	7.0	6,705	5,200	7.0		<0.10														10	
NUN-MW3s	8/28/2014	24.8	7.36	0.5	6	104	4.0	6,391	4,800	7.8	0.033J	<0.10	0.98	1,200	2.2	120	200	650	1,800	0.11J	750	<8.2	<8.2	750	0.5	10	
NUN-MW3s	11/7/2014	20.3	8.07	1.0	12	-51	2.8	5,994	4,600	5.0		<0.10														11	
NUN-MW3s	2/5/2015	19.4	6.82	1.0	12	25	2.0	6,376	5,200	4.0	<0.050	0.059J	0.98	1,200	2.1	130	200	720	1,900	0.18	730	<8.2	<8.2	730	-1.2	11	
NUN-MW3s	5/12/2015	19.6	7.16	0.4	6	182	5.0	6,580	4,800	4.7		0.034J														11	
NUN-MW3s	8/13/2015	23.2	7.19	0.8	12	62	3.0	6,959	5,600	5.1		0.030J														11	
NUN-MW3s	11/13/2015	21.4	7.39	0.8	9	118	10	7,135	5,400	6.6		0.066J														12	
NUN-MW3s	2/26/2016	19.4	7.23	0.6	7	92	5.0	6,938	5,200	4.4	<0.050	0.056J	1.1	1,300	3.6	160	230	720	2,100	0.34	870	<8.2	<8.2	870	-0.3	11	
NUN-MW3s	5/16/2016	20.5	6.85	0.6	9	57	4.0	6,799	6,400	50		0.062J														11	
NUN-MW3s	8/16/2016	23.2	7.30	1.7	21	67	2.0	6,779	5,800	12		<0.10														11	
NUN-MW3s	11/21/2016	21.4	6.98	0.5	6	129	5.0	7,142	5,300	5.7		<0.10														10	
NUN-MW3s	3/13/2017	19.2	6.97	0.6	7	-63	3.0	6,681	5,000	7.4	<0.050	0.032J	0.97	1,300	1.4J	140	260	740	2,200	0.25	730	<8.2	<8.2	730	-0.4	10	
NUN-MW3s	5/17/2017	20.4	6.95	0.5	5	217	0.9	6,088	5,200	10		0.073J														10	
NUN-MW3s	8/22/2017	23.9	7.15	0.8	10	99	4.0	6,599	5,600	6.1		0.035J														11	
NUN-MW3s	11/14/2017	22.1	6.49	0.5	6	169	1.9	6,879	5,000	7.7		0.042J														10	
NUN-MW3s	2/23/2018	17.6	7.81	1.2	15	156	5.0	7,118	5,500	7.7	<0.050	0.046J	1.3	1,300	0.79J	150	260	930	2,300	2.1	650	<8.2	<8.2	650	-3.4	10	
NUN-MW3s	5/16/2018	20.1	7.05	1.3	15	150	7.0	6,994	5,100	12		0.040J														11	
NUN-MW3s	8/17/2018	24.7	7.09	1.5	20	131	4.0	6,885	5,500	9.1		0.15														11	
NUN-MW3s	11/13/2018	21.8	7.13	2.8	35	95	3.8	7,063	5,100	12		0.18														10	
NUN-MW3s	2/28/2019	18.0	7.22	2.2	35	124	2.0	6,856	4,900	12	0.045J	0.15J	1.2	1,200	1.3J	130	220	880	1,800	0.23	710	<8.2	<8.2	710	-2.3	11	
NUN-MW3s	5/21/2019	20.3	7.09	0.6	11	179	2.0	6,685	5,000	20		0.13J														9	
NUN-MW3s	8/14/2019	22.8	7.17	0.5	10	88	2.0	6,767	4,900	21		0.09J														10	
NUN-MW3s	11/14/2019	22.9	6.88	1.7	20	204	5.0	6,909	5,200	9.1		0.13J														8	
NUN-MW4s	2/9/2012	20.2	7.21	1.5		137	243	8,715	11,000	1.6J		<0.05														8	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
NUN-MW4s	5/11/2012	19.6	7.07	0.7		210	305	12,100	10,000	0.76J	<0.05*	<0.05	0.91*	2,200	3.1J	270	400	870	5,300	2.3*	560*	<8.2*	<8.2*	560	-2.9	8	H
NUN-MW4s	8/17/2012	23.8	7.08	0.6		165	262	11,820	10,000	6.2	0.084	<0.05	0.69	2,500	4.5J	320	470	880	5,700	0.32	570	<8.2	<8.2	570	1	8	
NUN-MW4s	12/4/2012	19.8	7.27	0.5		130	202	9,990	8,600	1.9		<0.050														8	
NUN-MW4s	3/18/2013	18.8	7.26	4.2	45	190	96	11,110	10,000	0.83J		0.023J														9	
NUN-MW4s	5/30/2013	19.3	7.30	4.0	43	159	120	11,930	11,000	0.96J		0.044J														8	
NUN-MW4s	8/21/2013	23.1	6.40	1.4	16	136	12	11,880	11,000	1.2J	0.033J	0.021J	0.51	2,400	2.3J	300	430	900	5,900	0.51	560	<8.2	<8.2	560	-2.9	8	
NUN-MW4s	11/12/2013	21.8	7.47	1.1	12	114	60	13,230	13,000	<2.0		0.11														8	
NUN-MW4s	2/17/2014	19.2	7.82	0.7	7	81	14	8,031	7,000	1.3		<0.050														7	
NUN-MW4s	5/21/2014	20.9	7.15	0.5	6	31	14	11,400	10,000	1.8J		<0.10														9	
NUN-MW4s	8/28/2014	22.3	7.36	0.3	4	102	16	11,590	9,600	1.0J	0.030J	<0.10	0.47	2,300	2.9J	250	400	860	5,100	0.18	590	<8.2	<8.2	590	-0.6	8	
NUN-MW4s	11/7/2014	20.9	7.73	0.9	10	-43	95	11,890	10,000	0.84		0.073J														8	
NUN-MW4s	2/5/2015	19.5	6.76	1.3	15	41	10.6	7,728	6,300	5.1	0.053	0.043J	0.95	1,300	1.5J	150	470	720	3,200	0.21	600	<8.2	<8.2	600	-3.6	10	
NUN-MW4s	5/12/2015	19.6	6.80	0.4	7	171	11	7,688	6,500	5.7		0.066J														10	
NUN-MW4s	8/13/2015	24.1	7.11	1.0	16	64	10	7,664	6,500	7.4		0.080J														10	
NUN-MW4s	11/13/2015	21.2	7.32	0.8	10	114	13	7,916	6,200	4.7		0.076J														11	
NUN-MW4s	2/26/2016	19.5	7.27	0.6	8	101	24	7,232	5,600	23	0.25	0.034J	1.0	1,200	1.3J	180	540	630	2,900	0.34	610	<8.2	<8.2	610	1.1	10	
NUN-MW4d	5/16/2016	21.3	7.09	0.9	13	37	28	8,114	6,800	13		0.060J														22	
NUN-MW4s	8/16/2016	20.9	7.26	1.6	18	73	8.0	10,280	9,200	5.0		<0.10														9	
NUN-MW4s	11/21/2016	21.0	7.08	0.4	5	68	29	10,280	8,400	4.1		<0.10														9	
NUN-MW4s	3/13/2017	19.7	7.08	0.6	6	-166	4.0	10,820	8,800	5.8	0.021J	1.5	2.3	2,200	5.7	260	470	860	4,800	0.78	640	<8.2	<8.2	640	1.2	9	
NUN-MW4s	5/17/2017	21.1	6.91	0.5	5	-144	2.8	10,090	8,600	3.7		1.4														9	
NUN-MW4s	8/22/2017	22.7	7.31	0.6	7	-146	4.0	11,840	11,000	1.4		0.85														9	
NUN-MW4s	11/14/2017	21.7	6.49	0.6	7	123	9.7	11,240	9,600	1.5		0.047J														8	
NUN-MW4s	2/23/2018	17.6	7.11	0.7	7	146	5.0	11,670	11,000	1.5	0.028J	0.043J	1.2	2,600	2.0J	280	460	950	6,100	0.75	570	<8.2	<8.2	570	-1.9	8	
NUN-MW4s	5/16/2018	19.7	7.17	1.3	15	176	13	12,810	12,000	1.2		0.36														9	
NUN-MW4s	8/17/2018	22.8	7.11	1.1	16	116	7.0	12,260	12,000	2.5		0.12														9	
NUN-MW4s	11/13/2018	21.5	7.15	2.9	34	78	22	12,110	9,800	1.5		0.23														8	
NUN-MW4s	2/28/2019	19.3	7.14	2.2	35	-141	20	12,100	11,000	1.4	0.020J	3.4	5.9	2,400	21	300	400	890	5,800	3.0	610	<8.2	<8.2	610	-2.7	9	
NUN-MW4s	5/21/2019	21.0	7.08	0.7	13	166	1.0	9,514	7,800	3.5		0.10J														8	
NUN-MW4s	8/14/2019	22.2	7.18	1.0	20	34	8.0	11,420	9,700	1.5		<0.2														8	
NUN-MW4s	11/14/2019	22.7	6.69	2.4	27	211	8.0	8,272	6,200	11		0.16J														7	
NUN-MW5s	11/7/2014	23.5	7.87	1.6	19	106	41.5	8,209	6,900	<0.50		0.040J														10	
NUN-MW5s	2/5/2015	18.9	6.98	2.1	24	-2	10.5	8,470	6,800	<2.0	<0.050	0.034J	0.47	1,700	5.8	280	280	620	3,800	0.42	710	<8.2	<8.2	710	0.1	10	
NUN-MW5s	5/12/2015	19.7	7.01	0.3	5	146	58	7,929	6,600	<0.10		0.036J														11	
NUN-MW5s	8/13/2015	24.5	7.19	0.8	12	42	3.0	8,034	6,600	<0.20		0.051J														11	
NUN-MW5s	11/13/2015	21.8	7.40	0.7	8	100	62	8,205	6,500	<1.0		<0.10														11	
NUN-MW5s	2/26/2016	19.6	7.27	0.5	6	104	41	8,230	6,400	<1.0	<0.050	0.15	0.54	1,600	2.4J	290	270	580	3,400	0.59	730	<8.2	<8.2	730	2.5	11	
NUN-MW5s	5/17/2016	20.0	7.13	0.6	9	100	9.0	7,693	5,700	<0.50		0.046J														9	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
NUN-MW5s	8/16/2016	22.3	7.31	1.4	17	79	136	8,370	7,000	<0.50		<0.10														9	
NUN-MW5s	11/21/2016	21.1	7.06	0.5	7	114	469	8,530	7,100	<0.10		0.030J														9	
NUN-MW5s	3/13/2017	20.0	7.17	0.6	7	29	4.3	8,396	7,000	<1.0	<0.050	0.045J	0.44	1,600	2.1J	290	270	690	3,500	0.15	750	<8.2	<8.2	750	-0.2	9	
NUN-MW5s	5/17/2017	18.8	7.04	0.5	6	174	4.0	7,751	6,500	<0.50		0.13														9	
NUN-MW5s	8/22/2017	23.0	7.16	2.6	32	49	3.5	8,030	7,500	<1.0		0.026J														9	
NUN-MW5s	11/14/2017	22.4	6.60	0.6	8	126	7.8	8,327	7,000	<0.5		0.044J														0	
NUN-MW5s	2/23/2018	15.7	7.19	0.8	9	175	6.0	8,489	7,000	<0.10	<0.050	0.039J	0.52	1,700	1.7J	300	280	800	3,600	0.29	690	<8.2	<8.2	690	0.6	9	
NUN-MW5s	5/16/2018	19.3	7.13	1.2	14	164	9.0	8,532	7,000	<0.20		0.039J														9	
NUN-MW5s	8/17/2018	23.3	7.11	1.2	16	173	15	8,453	7,300	<0.10		0.14														9	
NUN-MW5s	11/13/2018	22.2	7.14	2.8	37	61	11.4	8,572	7,200	<0.20		0.14														9	
NUN-MW5s	2/28/2019	18.3	7.26	1.8	32	116	5.0	8,454	7,200	<0.50	<0.050	0.090J	0.51	1,400	1.9J	260	240	670	3,400	0.23	700	<8.2	<8.2	700	-4.7	9	
NUN-MW5s	5/21/2019	21.1	7.15	0.6	11	167	1.0	8,212	6,600	<1		0.086J														9	
NUN-MW5s	8/14/2019	22.9	7.20	1.1	13	73	5.0	8,164	6,600	<0.1		<0.2														9	
NUN-MW5s	11/14/2019	23.4	6.96	1.9	23	172	5.0	8,143	6,100	<0.10*		0.099J														9	H
MOO-MW1	2/26/2012	18.2	7.04	0.6		73	240	2,888	1,900	14		0.41														14	
MOO-MW1	5/11/2012	20.2	7.58	0.8		129	5.0	2,900	1,900	15	0.37*	0.42	0.45*	440	3.6	140	92	290	270	0.14J*	900*	<8.2*	<8.2*	900	3.6	12	H
MOO-MW1	8/14/2012	21.3	7.18	0.8		143	2.0	3,106	1,900	7.7	<0.05	1.3	1.8	410	4.0	130	83	310	280	0.10J	940	<8.2	<8.2	940	-1.6	13	
MOO-MW1	12/10/2012	20.0	7.40	0.6		54	26	2,725	1,800	9.8		0.77														12	
MOO-MW1	3/19/2013	21.1	7.71	1.3	15	146	19.7	2,725	1,800	5.2		1.4														12	
MOO-MW1	5/29/2013	21.1	7.33	5.4	56	141	2.0	2,809	1,800	9.3		1.2														13	
MOO-MW1	8/23/2013	19.4	7.44	1.4	17	134	6.0	2,753	1,800	6.2	0.0099J	0.83	1.2	360	3.3	120	76	270	240	0.26	910	<8.2	<8.2	910	-2.9	14	
MOO-MW1	11/14/2013	18.9	7.32	0.8	8	230	2.0	2,749	1,600	4.8		0.32														12	
MOO-MW1	2/19/2014	18.6	7.60	1.1	11	216	2.0	2,770	1,700	4.5		0.45														10	
MOO-MW1	5/21/2014	17.5	7.56	1.5	16	176	19	2,749	1,600	3.8		0.42														10	
MOO-MW1	8/20/2014	20.9	6.46	0.4	4	169	3.0	2,826	1,600	2.3	0.017J	1.0	1.4	360	3.7	140	76	260	220	<0.15	900	<8.2	<8.2	900	1.7	12	
MOO-MW1	11/6/2014	20.5	7.36	1.3	14	91	15	2,731	1,700	1.6		0.24														11	
MOO-MW1	2/6/2015	18.5	7.55	0.4	5	54	2.0	2,699	1,600	2.1	<0.050	0.22	0.77	360	3.1	160	81	270	220	<0.15	880	<8.2	<8.2	880	4.8	10	
MOO-MW1	5/13/2015	18.3	7.40	0.6	7	101	2.0	2,639	1,600	2.1*		0.29														11	H
MOO-MW1	8/24/2015	20.8	7.40	2.6	28	59	47	2,638	1,500	1.5		0.38														13	
MOO-MW1	11/12/2015	18.1	7.58	0.8	11	126	10	2,581	1,600	2.4		0.16														10	
MOO-MW1	2/25/2016	19.1	7.35	0.8	9	120	7.0	2,642	1,700	2.2	<0.050	0.19	0.57	340	2.7	150	82	280	230	0.24	860	<8.2	<8.2	860	2.1	8	
MOO-MW1	5/18/2016	20.6	7.20	1.5	17	132	6.0	2,741	1,700	2.7		0.12														8	
MOO-MW1	8/17/2016	21.1	7.37	0.9	10	188	2.0	2,660	1,700	2.1		0.063J														11	
MOO-MW1	12/1/2016	17.5	7.19	0.6	7	140	7.0	2,632	1,600	1.4		0.086J														10	
MOO-MW1	3/16/2017	20.4	7.39	0.5	5	64	9.0	2,595	1,600	1.2	0.092	0.067J	1.9	330	2.4	180	94	290	240	0.079J	870	<8.2	<8.2	870	5	12	
MOO-MW1	5/18/2017	19.0	7.26	0.5	6	105	22	2,513	1,800	0.51		0.13														14	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
MOO-MW1	8/29/2017	19.9	7.21	0.5	6	77	3.0	2,606	1,600	2.6		0.085J														16	
MOO-MW1	11/21/2017	19.9	7.30	0.7	8	186	3.7	2,662	1,600	3.0		0.088J														13	
MOO-MW1	2/21/2018	19.2	7.34	0.7	8	186	4.7	2,609	1,800	1.9	0.10	0.059J	0.65	290	2.1	150	80	310	250	0.18	840	<8.2	<8.2	840	-3.1	11	
MOO-MW1	5/15/2018	19.6	7.20	4.1	48	92	5.0	2,628	1,600	2.3		0.11														11	
MOO-MW1	8/20/2018	20.2	7.08	0.5	5	53	4.0	2,665	1,700	1.4		0.58														14	
MOO-MW1	11/13/2018	19.6	7.20	1.4	27	45	5.0	2,685	1,800	1.4		0.89														12	
MOO-MW1	2/26/2019	19.5	7.29	2.2	35	-12	5.0	2,406	1,600	4.0	0.024J	0.28	0.72	250	2.4	160	79	290	260	0.31	800	<8.2	<8.2	800	-3.1	12	
MOO-MW1	5/23/2019	24.0	7.10	2.1	27	113	2.0	2,583	1,600	6.4		0.45														13	
MOO-MW1	8/15/2019	21.7	7.24	1.8	23	5	4.0	2,591	1,600	3.2		1.3														15	
MOO-MW1	11/13/2019	21.1	6.90	1.2	22	14	7.0	2,492	1,400	0.75		1.9														13	
MOO-MW2	2/26/2012	18.7	6.96	0.5		127	340	3,491	2,300	40		0.050														11	
MOO-MW2	5/11/2012	20.6	7.01	1.3		174	29	3,220	2,300	38	<0.05*	<0.05	0.13J*	550	2.7	110	95	370	300	0.35*	870*	<8.2*	<8.2*	870	1.3	8	H
MOO-MW2	8/14/2012	23.0	7.07	2.0		168	121	3,698	2,300	40	<0.05	<0.05	0.30	570	2.8	110	99	440	350	0.094J	880	<8.2	<8.2	880	-1.6	8	
MOO-MW2	12/10/2012	18.5	7.37	0.7		96	173	2,512	1,700	32		0.45														7	
MOO-MW2	3/19/2013	20.7	7.36	3.0	33	160	286	3,217	2,200	36		<0.050														6	
MOO-MW2	5/29/2013	23.2	7.06	0.9	10	139	9.0	3,636	2,400	43		0.030J														10	
MOO-MW2	8/23/2013	21.6	7.23	1.1	13	154	2.0	3,556	2,400	42	0.0054J	0.039J	0.27	480	2.6	130	110	420	380	0.18	880	<8.2	<8.2	880	-4.2	10	
MOO-MW2	11/14/2013	20.8	7.15	1.3	14	239	NM	3,455	2,100	34		0.017J														8	P
MOO-MW2	2/19/2014	21.9	7.27	1.8	21	219	123	3,546	2,300	40		0.027J														6	P
MOO-MW2	5/21/2014	21.6	7.29	1.9	23	197	49	3,001	2,000	27		<0.10														6	P
MOO-MW2	8/20/2014	24.1	6.30	1.2	12	173	8.0	3,419	2,200	28	<0.050	0.047J	0.34	360	3.4	180	130	360	340	0.15	850	<8.2	<8.2	850	1.1	7	PD
MOO-MW2	11/6/2014	24.0	7.16	3.6	41	118	170	3,429	2,100	27		0.044J														7	PD
MOO-MW2	2/6/2015	21.0	7.50	1.8	21	101	99	3,369	2,000	26	<0.050	<0.10	0.60	380	3.5	190	150	370	360	0.17	850	<8.2	<8.2	850	3.9	6	PD
MOO-MW2	5/13/2015	22.0	7.07	2.8	34	122	8.0	3,133	2,000	24*		0.078J														7	HP
MOO-MW2	8/24/2015	23.2	7.34	4.2	51	94	285	3,166	1,900	20		<0.10														8	PD
MOO-MW2	11/12/2015	18.6	7.50	1.0	11	135	95	3,165	1,900	21		<0.10														6	PD
MOO-MW2	2/25/2016	22.2	7.07	1.5	17	112		3,313	2,100	20	<0.050	0.11	0.46	410	3.8	170	140	400	340	0.73	900	<8.2	<8.2	900	1.4	6	P
MOO-MW2	5/18/2016	22.4	7.34	3.2	37	137		2,907	1,900	17		<0.10														4	P
MOO-MW2	8/17/2016	25.2	7.20	1.8	22	196		3,047	1,900	15		<0.10														8	PD
MOO-MW2	11/30/2016	18.8	6.86	0.8	10	189	29.1	3,112	2,000	18		0.046J														6	PD
MOO-MW2	3/16/2017	21.9	7.01	0.9	11	76	10	3,169	2,000	20	<0.050	0.028J	0.86	450	3.2	180	150	370	310	<0.15	940	<8.2	<8.2	940	6.1	12	
MOO-MW2	5/18/2017	20.9	7.12	0.5	5	141	6.0	3,082	2,200	23		0.083J														14	
MOO-MW2	8/29/2017	22.6	7.29	1.1	14	101	12	3,316	2,000	21		0.035J														14	
MOO-MW2	11/21/2017	21.3	7.26	0.8	10	221	952	3,422	2,100	23		0.040J														10	D
MOO-MW2	2/21/2018	20.2	7.33	1.1	13	194	14.4	3,388	2,200	23	<0.050	0.020J	0.40	560	2.7	120	110	380	310	0.27	1,100	<8.2	<8.2	1,100	-1.3	9	D
MOO-MW2	5/15/2018	22.2	7.07	3.0	35	194	8.0	3,309	2,000	20		0.039J														10	D
MOO-MW2	8/21/2018	21.2	6.95	1.2	12	250	9.0	3,362	2,100	21		0.026J														12	
MOO-MW2	11/13/2018	20.4	7.11	2.0	32	49	12	3,415	2,200	23		0.12														9	PD

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
MOO-MW2	2/26/2019	20.6	7.07	4.8	60	45	12	2,984	1,900	30	<0.050	0.090J	0.48	410	2.8	130	120	330	260	0.21	970	<8.2	<8.2	970	-2.4	9	PD
MOO-MW2	5/23/2019	23.3	6.86	3.3	43	125	7.0	3,243	2,000	30		0.090J														11	D
MOO-MW2	8/15/2019	23.4	7.20	2.2	27	66	4.0	3,349	2,100	22		<0.2														12	
MOO-MW2	11/13/2019	23.8	6.81	1.7	26	116	8.0	3,367	2,100	24		0.12J														10	D
MOO-MW3	2/26/2012	17.4	7.06	0.7		160	80	2,306	1,600	16		<0.05														16	
MOO-MW3	5/11/2012	19.8	7.01	1.0		159	8.0	2,331	1,600	13	<0.05*	0.026J	0.20*	250	2.1	150	92	230	260	0.19*	690*	<8.2*	<8.2*	690	2.3	14	H
MOO-MW3	8/14/2012	21.1	7.12	1.7		179	2.0	2,485	1,500	17	<0.05	<0.05	0.28	250	2.2	150	96	250	280	0.089J	690	<8.2	<8.2	690	0.3	16	
MOO-MW3	12/10/2012	19.2	7.38	0.6		122	18	2,192	1,400	10		<0.050														14	
MOO-MW3	3/19/2013	20.6	7.57	0.9	10	144	5.2	2,147	1,400	11		<0.050														13	
MOO-MW3	5/29/2013	20.3	7.32	0.8	9	161	10	2,214	1,400	10		0.020J														15	
MOO-MW3	8/23/2013	19.1	7.41	1.0	11	168	1.0	2,175	1,400	7.9	0.0033J	0.040J	0.24	200	1.7	130	83	220	220	0.15	670	<8.2	<8.2	670	-2.4	18	
MOO-MW3	11/14/2013	18.4	7.34	1.4	15	238	1.0	2,140	1,300	9.6		<0.050														14	
MOO-MW3	2/19/2014	17.6	7.43	1.2	12	221	1.0	2,206	1,300	5.8		0.022J														12	
MOO-MW3	5/21/2014	18.1	7.88	1.0	11	193	1.0	2,231	1,300	5.5		<0.10														13	
MOO-MW3	8/21/2014	20.0	7.25	0.5	6	135	3.0	2,305	1,300	10	<0.050	<0.10	0.36	210	1.8	150	94	220	200	<0.15	670	<8.2	<8.2	670	3.4	15	
MOO-MW3	11/6/2014	21.5	7.34	2.8	30	110	3.0	2,372	1,400	9.8		0.036J														13	
MOO-MW3	2/6/2015	20.0	7.40	0.7	8	98	2.0	2,327	1,400	4.6	<0.050	<0.10	0.45	230	1.9	160	99	260	220	0.11J	690	<8.2	<8.2	690	3.9	13	
MOO-MW3	5/13/2015	19.4	7.47	1.1	13	136	2.0	2,371	1,500	5.2*		<0.1														13	H
MOO-MW3	8/24/2015	21.2	7.32	1.3	15	74	283	2,445	1,400	8.6		0.076J														16	
MOO-MW3	11/12/2015	19.1	7.24	0.8	10	129	6.0	2,338	1,500	7.3		0.026J														12	
MOO-MW3	2/25/2016	18.7	7.27	0.8	9	123	9.0	2,399	1,500	4.7	<0.050	0.10	0.45	240	2.2	150	110	270	230	0.29	740	<8.2	<8.2	740	1.4	9	
MOO-MW3	5/18/2016	19.9	7.17	2.0	22	137	8.0	2,465	1,500	9.0		0.057J														8	
MOO-MW3	8/17/2016	20.8	7.27	0.8	9	195	1.0	2,547	1,600	2.9		<0.10														12	
MOO-MW3	12/1/2016	18.3	7.13	0.8	10	170	6.0	2,447	1,500	3.9		0.071J														11	
MOO-MW3	3/16/2017	20.3	7.12	0.7	7	75	6.0	2,340	1,400	4.2	<0.050	0.052J	0.53	250	2.2	160	120	250	210	<0.15	790	<8.2	<8.2	790	4.5	11	
MOO-MW3	5/18/2017	20.4	7.23	0.4	4	136	7.0	2,259	1,500	4.8		0.078J														13	
MOO-MW3	8/29/2017	21.0	7.19	0.4	5	117	1.0	2,408	1,400	3.9		0.031J														15	
MOO-MW3	11/21/2017	20.5	7.23	0.6	8	232	1.6	2,311	1,400	3.0		0.039J														14	
MOO-MW3	2/21/2018	19.2	7.44	1.0	11	261	4.8	2,346	1,600	2.1	<0.050	0.023J	0.38	230	1.9	130	110	270	220	0.14J	790	<8.2	<8.2	790	-3.5	12	
MOO-MW3	5/15/2018	20.8	7.46	4.1	47	177	5.0	2,427	1,400	3.6		0.036J														12	
MOO-MW3	8/21/2018	20.3	7.05	0.8	8	210	4.0	2,175	1,200	2.5		0.027J														15	
MOO-MW3	11/13/2018	20.2	7.17	1.5	27	96	3.0	2,255	1,400	1.7		0.16														14	
MOO-MW3	2/26/2019	19.7	7.24	2.1	33	84	5.0	1,967	1,200	1.6	<0.050	0.12J	0.35	180	2.0	130	99	200	190	0.12J	740	<8.2	<8.2	740	-2	13	
MOO-MW3	5/23/2019	23.6	6.94	2.3	33	155	2.0	2,069	1,300	2.6		<0.2														15	
MOO-MW3	8/15/2019	22.5	7.13	1.9	25	74	1.0	2,167	1,400	5.6		<0.2														17	
MOO-MW3	11/13/2019	20.6	6.92	1.1	21	124	2.0	2,023	1,400	10		0.14J														15	
MOO-MW4	2/26/2012	18.5	7.07	0.9		159	115	2,423	1,600	9.4		<0.05														13	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
MOO-MW4	5/11/2012	21.0	7.17	0.9		168	9.0	2,236	1,500	12	<0.05*	<0.05	0.16J*	210	1.9	170	60	210	240	0.16*	640*	<8.2*	<8.2*	640	3.1	12	H
MOO-MW4	8/14/2012	20.5	7.17	1.3		184	10	2,485	1,500	11	0.049J	<0.05	0.33	210	2.1	180	89	230	270	0.26	750	<8.2	<8.2	750	1	13	
MOO-MW4	12/10/2012	20.2	7.70	0.6		96	14	1,856	1,200	13		<0.050														11	
MOO-MW4	3/19/2013	20.4	7.79	0.8	10	179	4.5	2,282	1,600	9.6		<0.050														11	
MOO-MW4	5/29/2013	20.0	7.35	1.5	17	167	2.0	2,654	1,700	18		0.026J														12	
MOO-MW4	8/23/2013	19.0	7.28	0.6	6	182	1.0	2,586	1,800	22	0.080	<0.050	0.43	260	2.0	190	94	250	240	0.36	890	<8.2	<8.2	890	0.4	7	
MOO-MW4	11/14/2013	18.4	7.43	0.7	8	239	1.0	2,538	1,500	16		0.022J														11	
MOO-MW4	2/19/2014	19.2	7.65	0.7	9	219	2.0	2,329	1,400	5.0		<0.050														9	
MOO-MW4	5/21/2014	17.7	7.36	1.2	13	194	2.0	2,669	1,600	19		<0.10														10	
MOO-MW4	8/21/2014	21.3	7.09	0.2	3	135	4.0	2,772	1,600	22	0.46	<0.10	1.0	300	1.9	180	80	250	210	0.47	830	<8.2	<8.2	830	3.7	19	
MOO-MW4	11/6/2014	22.1	7.41	3.4	35	114	1.0	2,760	1,700	17		0.042J														9	
MOO-MW4	2/6/2015	18.9	7.68	0.5	5	90	7.0	2,239	1,400	0.82	0.12	0.036J	1.0	210	2.7	170	89	250	190	0.60	710	<8.2	<8.2	710	4.4	11	
MOO-MW4	5/13/2015	19.3	7.22	0.7	8	150	3.0	2,522	1,500	0.49*		0.032J														10	H
MOO-MW4	8/24/2015	21.5	7.37	2.9	33	85	7.0	2,675	1,600	0.93		0.068J														13	
MOO-MW4	11/12/2015	20.7	7.38	1.2	13	117	36	2,269	1,400	3.0		0.027J														9	
MOO-MW4	2/25/2016	21.5	7.42	2.6	30	107	253	2,654	1,500	<0.50	<0.050	0.040J	0.69	310	2.0	180	80	280	240	2.4	900	<8.2	<8.2	900	2.2	6	P
MOO-MW4	5/18/2016	21.1	7.26	2.8	32	157	54	2,678	1,600	0.42		0.10														7	
MOO-MW4	8/17/2016	21.3	7.49	1.1	12	189	4.0	2,378	1,500	1.9		0.98														9	
MOO-MW4	11/30/2016	20.5	7.18	0.8	10	178	35	2,268	1,400	5.4		0.048J														7	D
MOO-MW4	3/16/2017	21.6	7.31	0.6	7	83	3.0	2,327	1,600	5.1	0.13	0.040J	LE	250	1.8	180	84	240	200	0.76	770	<8.2	<8.2	770	5.6	9	
MOO-MW4	5/18/2017	21.4	7.22	0.4	4	172	3.0	2,004	1,400	8.4		0.071J														11	
MOO-MW4	8/29/2017	21.4	7.56	0.6	8	103	4.0	1,980	1,200	11		0.027J														12	
MOO-MW4	11/21/2017	21.3	7.43	0.5	7	249	2.5	2,013	1,300	10		0.040J														10	
MOO-MW4	2/21/2018	20.0	7.27	1.6	17	278	6.2	2,086	1,400	8.4	0.18	0.032J	0.29	200	1.6	130	64	210	200	0.35	690	<8.2	<8.2	690	-4	9	
MOO-MW4	5/15/2018	19.9	7.38	5.0	57	177	5.0	2,109	1,300	9.5		0.042J														11	
MOO-MW4	8/21/2018	20.7	7.23	0.6	6	196	4.0	2,265	1,500	10		0.035J														14	
MOO-MW4	11/13/2018	21.1	7.31	1.3	24	105	3.0	2,227	1,400	10		0.13														11	
MOO-MW4	2/26/2019	20.1	7.49	1.7	28	96	3.0	1,569	1,100	8.3	0.11	0.089J	0.25	130	1.8	120	65	160	190	0.35	500	<8.2	<8.2	500	-0.7	11	
MOO-MW4	5/23/2019	21.9	7.24	1.8	25	137	2.0	1,553	1,200	9.3		0.11J														15	
MOO-MW4	8/15/2019	21.4	7.37	2.0	28	92	2.0	2,160	1,400	5.9		<0.2														15	
MOO-MW4	11/13/2019	22.0	6.95	1.2	16	125	4.0	2,223	1,500	5.1		0.13J														12	
MOO-MW5s	2/9/2012	19.9	7.24	1.1		169	48	2,151	1,400	18		<0.05														20	
MOO-MW5s	5/11/2012	20.0	7.13	0.7		156	54	2,216	1,500	17	<0.05*	<0.05	0.11J*	190	1.5	160	85	230	250	0.43*	580*	<8.2*	<8.2*	580	2.4	18	H
MOO-MW5s	8/14/2012	21.3	7.13	0.7		160	39	2,396	1,400	19	0.012J	<0.05	0.16J	180	1.4	150	93	250	270	0.15	620	<8.2	<8.2	620	-3.1	19	
MOO-MW5s	12/10/2012	17.7	7.30	0.5		164	86	2,074	1,400	17		<0.050														18	
MOO-MW5s	3/19/2013	19.9	7.56	0.4	4	164	6.3	2,184	1,400	17		<0.050														17	
MOO-MW5s	5/29/2013	21.0	7.35	0.7	8	145	6.0	2,286	1,400	18		0.021J														19	
MOO-MW5s	8/23/2013	20.1	7.39	0.6	6	156	1.0	2,278	1,600	20	0.012J	<0.050	0.26	180	1.5	170	100	260	270	0.21	640	<8.2	<8.2	640	-0.6	21	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
MOO-MW5s	11/14/2013	19.4	7.37	0.6	7	235	2.0	2,258	1,300	17		<0.050														19	
MOO-MW5s	2/19/2014	18.6	7.54	1.3	14	219	4.0	2,332	1,400	16		0.025J														16	
MOO-MW5s	5/21/2014	18.4	7.68	0.8	9	191	11	2,324	1,400	17		<0.10														17	
MOO-MW5s	8/21/2014	21.1	7.27	0.3	3	133	4.0	2,358	1,400	17	<0.050	<0.10	0.12J	180	1.2	160	91	230	240	<0.15	630	<8.2	<8.2	630	0.5	19	
MOO-MW5s	11/6/2014	22.3	7.45	3.0	34	108	4.0	2,370	1,500	17		<0.10														17	
MOO-MW5s	2/6/2015	19.7	7.47	0.8	9	99	2.0	2,330	1,400	17	<0.050	<0.10	0.30	190	1.4	170	97	250	260	0.13J	620	<8.2	<8.2	620	2	17	
MOO-MW5s	5/13/2015	19.9	7.43	0.7	8	121	2.0	2,277	1,400	18*		<0.1														17	H
MOO-MW5s	8/24/2015	22.2	7.46	5.8	65	85	7.0	2,282	1,300	18		0.11														20	
MOO-MW5s	11/12/2015	19.6	7.48	0.8	8	129	14	2,193	1,300	18		<0.10														17	
MOO-MW5s	2/25/2016	20.5	7.41	0.9	10	91	17	2,255	1,600	16	0.017J	0.097J	0.22	200	1.6	160	89	240	250	0.34	620	<8.2	<8.2	620	1.6	13	
MOO-MW5s	5/18/2016	20.1	7.39	1.9	21	135	7.0	2,305	1,400	16		<0.10														14	
MOO-MW5s	8/17/2016	21.8	7.53	0.9	10	190	1.0	2,285	1,500	16		<0.10														16	
MOO-MW5s	11/30/2016	19.7	7.15	0.6	7	181	8.0	2,370	1,600	16		0.033J														16	
MOO-MW5s	3/16/2017	20.4	7.29	0.5	6	77	5.0	2,359	1,500	16	0.021J	0.027J	LE	220	1.6	200	110	240	250	1.4	720	<8.2	<8.2	720	6.8	16	
MOO-MW5s	5/18/2017	20.8	7.18	0.4	4	124	4.2	2,249	1,600	17		0.078J														17	
MOO-MW5s	8/29/2017	20.3	7.26	0.6	7	108	3.0	2,355	1,500	18		0.026J														20	
MOO-MW5s	11/21/2017	20.2	7.36	0.6	7	245	4.6	2,415	1,500	18		0.031J														18	
MOO-MW5s	2/21/2018	19.1	7.43	0.8	9	268	5.1	2,432	1,700	16	0.016J	<0.10	0.18J	210	1.4	160	95	270	290	0.22	710	<8.2	<8.2	710	-3.4	17	
MOO-MW5s	5/15/2018	19.9	7.35	5.0	55	175	5.0	2,482	1,600	14		0.046J														17	
MOO-MW5s	8/21/2018	20.0	7.17	0.7	7	200	4.0	2,497	1,500	16		0.024J														19	
MOO-MW5s	11/13/2018	19.5	7.29	1.4	26	83	4.0	2,476	1,700	17		0.10														18	
MOO-MW5s	2/26/2019	19.0	7.42	2.5	37	41	5.0	2,300	1,600	17	0.015J	0.087J	0.27	200	1.5	170	96	270	300	0.23	690	<8.2	<8.2	690	-2.4	18	
MOO-MW5s	5/23/2019	21.0	7.05	2.2	33	172	2.0	2,452	1,600	17		<0.2														19	
MOO-MW5s	8/15/2019	21.4	7.15	1.9	27	72	2.0	2,341	1,600	25		<0.2														21	
MOO-MW5s	11/13/2019	20.3	7.08	0.8	18	138	3.0	2,242	1,400	18		<0.20														20	
MOO-MW6s	2/9/2012	20.4	7.06	1.0		160	>1,000	2,232	1,400	18		0.045J														12	
MOO-MW6s	5/11/2012	20.7	6.99	0.7		173	>1,000	2,400	1,400	23	<0.05*	<0.05	0.97*	190	4.6	130	110	240	210	5.4*	540*	<8.2*	<8.2*	540	1.7	8	H
MOO-MW6s	8/14/2012	20.9	6.83	1.1		210	498	2,141	1,300	3.6	<0.05	<0.05	0.61	140	3.5	100	160	190	200	0.18	680	<8.2	<8.2	680	-2.2	9	
MOO-MW6s	12/10/2012	21.3	7.40	1.6		108	835	2,098	1,400	12		<0.050														9	
MOO-MW6s	3/19/2013	21.0	7.08	0.8	9	148	40.1	2,142	1,400	4.8		0.072														11	
MOO-MW6s	5/29/2013	22.4	7.25	3.5	43	143	46	2,323	1,500	6.2		0.050														13	
MOO-MW6s	8/23/2013	21.3	7.04	0.6	7	152	40	2,257	1,500	7.6	0.071	0.079	1.2	150	4.4	130	200	250	200	1.1	740	<8.2	<8.2	740	1.3	15	
MOO-MW6s	11/14/2013	21.0	7.12	1.6	18	231	135	2,194	1,200	5.7		0.028J														9	
MOO-MW6s	2/19/2014	23.1	7.42	1.3	16	216	164	2,271	1,400	4.1		<0.050														7	
MOO-MW6d	5/21/2014	18.2	7.26	2.4	26	196	6.0	2,517	1,500	7.4		0.038J														24	
MOO-MW6s	8/20/2014	24.5	6.00	1.0	9	175	10	2,648	1,400	1.3	0.023J	0.12	2.2	150	4.4	150	200	280	200	2.4	810	<8.2	<8.2	810	0.9	12	
MOO-MW6s	11/6/2014	20.5	7.34	5.1	58	101	165	2,442	1,400	1.7		0.10														7	
MOO-MW6s	2/6/2015	21.8	7.27	1.4	16	19	56	2,436	1,400	1.8	0.049J	<0.10	0.95	170	4.2	130	210	240	210	1.7	800	<8.2	<8.2	800	2.4	8	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
MOO-MW6s	5/12/2015	22.4	6.98	1.9	23	117	3.0	2,493	1,500	0.82		0.039J														9	
MOO-MW6s	8/24/2015	25.7	7.12	2.7	33	85	72	2,391	1,300	0.41		0.10														12	
MOO-MW6s	11/12/2015	17.8	7.29	5.4	59	96	34	2,340	1,200	0.29		0.068J														6	
MOO-MW6s	2/25/2016	21.9	7.10	1.1	13	16	99	2,401	1,600	0.47	0.033J	0.19	0.91	170	4.1	120	220	260	210	2.6	800	<8.2	<8.2	800	1	7	D
MOO-MW6s	5/18/2016	23.8	6.97	2.0	24	141	18	2,472	1,200	<0.20		0.071J														8	
MOO-MW6s	8/17/2016	24.1	6.94	1.1	13	194	10	2,345	1,600	0.24		0.054J														13	
MOO-MW6d	12/1/2016	17.6	6.84	0.9	10	197	7.0	2,813	1,900	10		0.097J														23	
MOO-MW6s	3/16/2017	21.5	6.99	0.8	9	65	13	2,549	1,700	2.3	0.067	0.047J	LE	200	3.7	180	190	290	230	0.80	840	<8.2	<8.2	840	5	16	
MOO-MW6s	5/18/2017	20.4	6.83	0.5	5	146	99	2,170	1,400	1.1		0.087J														20	
MOO-MW6s	8/29/2017	22.4	6.80	0.6	8	102	16	2,152	990	0.12J		0.066J														15	
MOO-MW6s	11/21/2017	19.3	7.09	0.8	9	252	18.53	2,168	1,300	0.33		0.044J														11	D
MOO-MW6s	2/21/2018	18.6	7.22	0.8	9	212	18.58	2,312	1,500	0.35	<0.050	0.087J	1.2	170	4.1	120	200	270	190	7.7	830	<8.2	<8.2	830	-1.9	10	D
MOO-MW6s	5/15/2018	19.5	6.90	1.6	18	199	10	2,173	1,200	0.94		0.047J														11	PD
MOO-MW6d	8/20/2018	20.2	6.87	0.7	7	190	4.0	2,721	1,900	3.9		0.14														25	
MOO-MW6s	11/13/2018	18.7	7.18	3.9	52	131	31	2,194	1,300	0.29		0.16														10	
MOO-MW6s	2/26/2019	21.7	7.04	3.0	44	110	12	2,616	1,700	5.5	0.087	0.13J	0.95	230	2.9	180	160	310	360	0.42	840	<8.2	<8.2	840	-0.8	10	
MOO-MW6s	5/23/2019	23.7	6.85	2.3	28	152	7.0	2,250	1,500	9.2		0.11J														13	
MOO-MW6s	8/15/2019	24.1	6.94	2.2	24	66	7.0	2,183	1,400	4.7		<0.2														12	
MOO-MW6s	11/13/2019	20.8	6.80	1.3	22	98	14	2,063	1,200	1.8		0.071J														11	
MOO-MW7s	2/9/2012	20.1	7.16	1.1		134	166	2,969	2,200	36		<0.05														9	
MOO-MW7s	5/11/2012	19.6	7.10	1.8		155	>1,000	3,042	2,100	42	<0.05*	<0.05	0.43*	320	13	160	150	340	420	1.1*	650*	<8.2*	<8.2*	650	0.8	6	H
MOO-MW7s	8/14/2012	19.8	7.03	1.4		214	938	3,391	2,200	48	<0.05	<0.05	0.54	340	7.2	170	150	370	460	0.18	740	<8.2	<8.2	740	-2.4	5	
MOO-MW7s	12/10/2012	20.6	7.35	1.2		79	37	2,976	2,100	43		<0.050														6	
MOO-MW7s	3/19/2013	25.4	7.38	1.7	20	149	49.2	2,996	2,100	47		<0.050														6	
MOO-MW7s	5/29/2013	21.7	7.30	4.8	53	151	5.0	3,129	2,000	46		0.023J														9	
MOO-MW7s	8/23/2013	20.7	7.32	1.5	17	156	3.0	2,939	2,000	41	0.011J	0.026J	0.36	320	7.5	160	130	310	370	0.24	770	<8.2	<8.2	770	-1.5	9	
MOO-MW7s	11/14/2013	20.6	7.31	2.1	24	233	7.0	2,806	1,900	40		<0.050														8	
MOO-MW7s	2/19/2014	19.4	7.50	1.5	16	221	22	3,102	2,000	41		<0.050														5	
MOO-MW7s	5/21/2014	19.1	7.43	1.0	11	198	158	3,200	1,500	40		0.036J														4	
MOO-MW7s	8/20/2014	21.7	6.35	0.4	5	168	4.0	3,014	1,800	47	<0.050	0.036J	0.55	240	3.9	190	130	290	300	0.095J	720	<8.2	<8.2	720	0.7	5	
MOO-MW7s	11/6/2014	20.3	7.17	1.4	14	138	50	2,776	1,900	33		0.033J														6	
MOO-MW7s	2/6/2015	19.7	7.21	0.6	7	52	22	2,831	LE	34	<0.050	0.096J	0.73	260	3.7	190	130	290	340	0.25	710	<8.2	<8.2	710	2.5	5	
MOO-MW7s	5/12/2015	19.9	7.25	1.1	11	120	5.0	2,657	1,700	33		0.027J														5	
MOO-MW7s	8/24/2015	21.2	7.14	1.5	16	70	214	2,701	1,600	21		0.067J														5	
MOO-MW7d	11/12/2015	17.7	7.46	7.5	80	122	483	2,728	1,700	25		0.034J														16	
MOO-MW7d	2/25/2016	18.8	7.32	2.4	26	93	608	2,794	1,800	22	0.014J	0.14	0.88	340	4.7	130	140	300	360	1.7	670	<8.2	<8.2	670	2.6	16	
MOO-MW7s	5/18/2016	21.4	7.06	1.7	19	119	43	2,643	1,600	25		0.10														3	
MOO-MW7s	8/17/2016	21.3	7.16	1.3	14	193	7.0	2,609	1,800	16		<0.10														5	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
MOO-MW7d	11/30/2016	15.5	7.10	0.9	11	195		2,730	1,800	19		0.046J														18	D
MOO-MW7s	3/16/2017	18.6	7.05	1.6	17	70	7.0	3,311	2,300	17	<0.050	0.039J	LE	320	6.2	230	180	450	570	1.3	690	<8.2	<8.2	690	2.9	11	
MOO-MW7s	5/18/2017	18.1	6.91	0.7	7	122	6.0	3,847	3,000	33		0.094J														14	
MOO-MW7s	8/29/2017	20.8	7.27	2.1	25	117	5.0	3,093	2,100	24		0.044J														12	
MOO-MW7s	11/21/2017	19.7	7.44	4.7	52	283	19.3	3,409	2,300	39		0.038J														9	
MOO-MW7s	2/21/2018	18.3	7.24	3.2	34	214	12.62	3,087	2,100	21*	<0.050	<0.10	0.89	300	8.4	160	140	380	450	0.31	740	<8.2	<8.2	740	-4.3	8	H
MOO-MW7s	5/15/2018	18.7	7.22	3.6	38	178	6.0	3,080	2,000	32		0.049J														9	
MOO-MW7s	8/20/2018	20.2	7.00	1.5	15	172	7.0	3,167	2,200	28		0.032J														8	
MOO-MW7s	11/13/2018	19.8	7.14	2.0	33	114	7.0	3,144	2,100	29		0.13														7	
MOO-MW7s	2/26/2019	19.4	7.31	2.6	39	131	8.0	2,865	2,100	38	<0.050	0.087J	0.91	260	21	200	150	270	520	0.26	800	<8.2	<8.2	800	-1.9	7	
MOO-MW7s	5/23/2019	21.2	7.04	2.7	36	178	3.0	2,919	2,100	39		0.099J														8	
MOO-MW7s	8/15/2019	21.0	7.20	2.7	34	81	4.0	3,005	2,100	40		<0.2														10	
MOO-MW7s	11/13/2019	20.9	6.91	2.3	32	105	5.0	2,769	1,700	42		<0.20														8	
MOO-MW8s	2/9/2012	19.5	7.14	1.8		186	80	2,518	1,700	22		<0.05														8	
MOO-MW8s	5/11/2012	19.7	7.07	2.1		141	>1,000	1,810	1,200	15	<0.05*	<0.05	0.46*	220	4.9	82	85	150	200	2.6*	530*	<8.2*	<8.2*	530	1.3	6	H
MOO-MW8s	8/14/2012	19.8	7.28	2.9		180	108	1,235	740	4.6	<0.05	<0.05	0.13J	150	3.4	44	45	72	98	0.16	400	<8.2	<8.2	400	0.3	6	
MOO-MW8s	12/10/2012	23.3	7.61	2.5		85	101	1,031	650	2.9		<0.050														6	
MOO-MW8s	3/19/2013	20.6	7.59	2.3	26	150	30.2	1,185	740	6.9		<0.050														6	
MOO-MW8s	5/29/2013	20.3	7.31	2.2	19	153	10	2,457	1,500	18		<0.050														10	
MOO-MW8s	8/23/2013	20.7	7.35	2.1	24	154	6.0	3,143	2,100	42	0.0036J	0.027J	0.23	410	5.8	130	120	360	440	0.68	690	<8.2	<8.2	690	-2.1	9	
MOO-MW8s	11/14/2013	20.5	7.33	0.9	11	230	12	2,892	1,900	37		0.023J														8	
MOO-MW8s	2/19/2014	19.7	7.59	1.7	19	217	25	3,094	2,000	35		<0.050														5	
MOO-MW8s	5/21/2014	18.9	7.53	1.9	21	182	15	3,117	1,900	31		<0.10														5	
MOO-MW8s	8/20/2014	21.7	6.85	0.7	9	156	4.0	3,196	2,000	49	<0.050	0.041J	0.47	370	5.6	150	99	320	320	0.42	680	<8.2	<8.2	680	1.1	7	
MOO-MW8s	11/6/2014	20.3	7.39	0.9	11	141	46	3,127	2,000	41		<0.10														6	
MOO-MW8s	2/6/2015	20.6	7.49	0.6	7	69	11	2,867	1,900	31	<0.050	<0.10	0.88	240	5.4	210	110	310	300	0.74	750	<8.2	<8.2	750	1.7	5	
MOO-MW8s	5/12/2015	20.4	7.53	1.6	18	96	25	3,389	2,200	42		0.027J														5	
MOO-MW8d	8/24/2015	21.0	7.40	3.4	38	82	610	3,181	1,900	32		0.042J														17	
MOO-MW8d	11/12/2015	17.3	7.48	3.4	36	138	376	3,074	1,900	32		<0.10														16	
MOO-MW8d	2/25/2016	19.2	7.35	2.9	32	95	307	3,160	2,000	29	<0.050	0.12	0.37	420	4.5	130	130	360	420	2.3	650	<8.2	<8.2	650	2.2	16	
MOO-MW8d	5/18/2016	22.3	7.52	2.3	26	128	40	3,242	2,000	30		<0.10														16	
MOO-MW8d	8/17/2016	22.3	7.29	1.1	13	191	33	3,210	2,100	29		<0.10														16	
MOO-MW8d	11/30/2016	18.0	7.11	1.7	19	196	197	3,118	2,000	27		0.093J														16	
MOO-MW8s	3/16/2017	17.4	7.45	3.4	36	67	7.0	986	710	5.7	<0.050	0.032J	1.0	140	0.73J	30	33	54	130	0.49	300	<8.2	<8.2	300	-2	18	
MOO-MW8s	5/18/2017	17.2	7.15	0.9	9	100	6.0	986	700	23		0.077J														15	
MOO-MW8s	8/29/2017	20.1	7.44	2.3	26	120	13	1,942	1,300	17		0.044J														10	
MOO-MW8d	11/21/2017	18.4	7.63	3.1	34	268	170	2,544	1,600	16		0.031J														21	
MOO-MW8s	2/21/2018	18.0	7.76	1.7	19	214	39.6	929	670	4.5*	<0.050	0.074J	4.2	120	2.0	39	32	68	110	17	250	<4.1	<4.1	250	0.1	7	H

Table 4-6
Groundwater Quality

		-------Field Measurements-------																		----Alkalinity as CaCO3----						
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
MOO-MW8d	5/15/2018	19.3	7.39	2.6	29	177	350	2,461	1,500	17		0.050J														20	
MOO-MW8d	8/20/2018	20.4	7.38	0.8	8	157	38	1,999	1,300	12		<0.10														19	
MOO-MW8d	11/13/2018	19.7	7.41	1.3	26	98	35	2,034	1,400	14		0.14														18	
MOO-MW8d	2/26/2019	19.1	7.54	2.3	35	97	6.0	1,847	1,300	11	<0.050	0.068J	0.28	240	3.4	86	73	190	330	0.19	460	<8.2	<8.2	460	-2.2	19	
MOO-MW8d	5/23/2019	21.0	7.50	2.3	33	184	3.0	2,059	1,400	14		0.11J														21	
MOO-MW8d	8/15/2019	23.0	7.60	2.0	25	97	5.0	1,944	1,200	13		2.1														21	
MOO-MW8d	11/13/2019	20.8	7.15	0.9	21	103	8.0	1,854	1,200	12		<0.20														20	
TON-MW1s	2/10/2012	20.9	7.03	2.4		228	6.5	3,776	2,200	3.3		73														15	
TON-MW1s	5/10/2012	19.8	6.99	1.8		219	7.0	4,027	2,000	3.6	30*	68	66*	350	190	140	73	400	54	<0.75*	1,200*	<8.2*	<8.2*	1,200	1.7	15	H
TON-MW1s	8/16/2012	20.2	6.94	1.0		236	32	4,024	2,000	0.64	<0.05	66	69	370	200	140	71	440	78	0.080J	1,300	<8.2	<8.2	1,300	1.1	11	
TON-MW1s	12/7/2012	20.2	7.12	0.5		135	17	3,832	2,000	0.63		75														13	
TON-MW1s	3/22/2013	19.7	7.68	5.0	55	126	5.0	3,619	2,100	0.53		67														15	
TON-MW1s	5/29/2013	20.8	6.65	0.7	8	149	8.0	3,522	2,000	1.1		80														14	
TON-MW1s	8/22/2013	21.8	6.36	0.3	3	141	4.0	3,430	1,900	14	<0.050	64	61	350	170	120	66	360	140	<0.75	1,200	<8.2	<8.2	1,200	-1	11	
TON-MW1s	11/13/2013	21.7	6.75	0.6	6	127	9.0	3,480	1,900	9.9		62														12	
TON-MW1s	2/19/2014	21.8	6.49	0.7	8	122	6.0	3,424	1,900	6.6		63														13	
TON-MW1s	5/23/2014	20.3	7.01	0.1	1	55	37	3,622	1,900	0.56		64														10	
TON-MW1d	8/28/2014	22.3	7.20	0.5	5	38	39	3,699	1,800	0.47J	<0.05	47	50	330	110	140	100	430	58	<0.75	1,200	<8.2	<8.2	1,200	-0.4	16	
TON-MW1s	11/12/2014	23.4	6.70	1.0	12	133	34	3,711	1,900	2.1		73														6	
TON-MW1s	2/10/2015	21.3	6.92	4.6	47	74	1.0	3,848	2,100	<1.0	<0.050	67	80	410	210	160	97	450	61	<0.75	1,400	<8.2	<8.2	1,400	4.6	11	
TON-MW1s	5/13/2015	21.8	6.78	0.3	5	153	5.0	3,753	2,200	0.97		73														6	
TON-MW1s	8/17/2015	24.8	7.69	1.2	19	58	16	3,501	2,000	7.0		70														2	
TON-MW1s	11/19/2015	21.2	7.08	0.9	10	65	47	3,403	2,100	1.2		61														3	
TON-MW1s	2/25/2016	21.0	7.13	0.6	7	8	18	3,358	1,900	3.5	<0.050	1.3	58	360	170	120	79	380	100	<0.75	1,100	<8.2	<8.2	1,100	-1.6	6	
TON-MW1s	5/17/2016	22.9	7.05	0.7	12	72	6.0	3,173	2,000	1.8		52														8	
TON-MW1d	8/15/2016	22.5	6.99	3.7	44	70	6.0	3,046	1,700	0.43		46														12	
TON-MW1s	11/22/2016	21.2	6.86	0.6	8	145	98	3,584	2,000	12		53														4	
TON-MW1s	3/14/2017	22.5	6.86	0.6	7	89	4.0	3,490	1,900	4.6	0.023J	55	52	380	170	150	100	440	110	0.35J	1,200	<8.2	<8.2	1,200	3.8	11	
TON-MW1s	5/17/2017	20.4	6.56	0.4	4	214	6.0	3,401	2,100	5.3		58														12	
TON-MW1s	8/23/2017	21.7	6.99	0.5	7	16	9.0	3,367	1,700	11		55														12	
TON-MW1s	11/16/2017	21.6	7.05	0.7	9	129	4.3	3,566	2,100	9.0		48														11	
TON-MW1s	2/27/2018	19.9	6.96	1.5	26	219	4.0	3,619	1,800	8.5	0.063	53	52	350	140	130	85	380	130	0.35J	1,100	<8.2	<8.2	1,100	2	17	
TON-MW1s	5/15/2018	20.5	7.04	2.8	32	188	7.0	3,628	1,900	9.0		59														14	
TON-MW1s	8/17/2018	21.3	6.98	0.8	8	189	5.0	3,396	1,900	32		52														13	
TON-MW1s	11/14/2018	21.7	7.03	0.8	10	107	7.0	3,295	1,900	35		49														10	
TON-MW1s	3/1/2019	19.0	7.12	2.8	42	146	8.0	3,314	1,800	26	<0.050	43	45	310	130	110	72	330	160	0.27	970	<8.2	<8.2	970	-2.1	17	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
TON-MW1s	5/22/2019	21.5	7.04	0.7	12	141	1.0	3,263	1,800	29		48														16	
TON-MW1s	8/21/2019	22.0	7.10	1.6	23	103	3.0	3,151	1,800	46		47														9	
TON-MW1s	11/14/2019	21.8	6.86	1.3	15	83	6.0	3,045	1,700	38		45														10	
TON-MW2s	2/10/2012	20.4	7.15	3.0		257	9.5	4,568	3,000	23		0.13														16	
TON-MW2s	5/10/2012	19.7	7.09	1.8		217	3.0	4,890	2,700	22	0.30*	0.13	1.2*	670	33	190	56	610	270	1.2*	1,300*	<8.2*	<8.2*	1,300	-2	15	H
TON-MW2s	8/16/2012	20.7	7.06	0.9		252	24	4,335	2,900	28	0.27	0.034J	0.87	710	30	170	92	640	300	1.6	1,200	<8.2	<8.2	1,200	-0.1	16	
TON-MW2s	12/6/2012	19.8	7.26	0.5		106	48	4,627	2,900	28		<0.050														14	
TON-MW2s	3/22/2013	19.1	7.88	5.0	53	107	2.0	4,380	3,000	27		0.63														15	
TON-MW2s	5/29/2013	20.4	6.80	0.4	5	150	2.0	4,140	3,000	29		0.046J														15	
TON-MW2s	8/22/2013	22.2	6.53	0.5	6	123	3.0	4,234	2,900	30	0.69	0.067	1.4	680	37	170	79	610	290	2.3	1,200	<8.2	<8.2	1,200	-1.1	14	
TON-MW2s	11/13/2013	21.9	6.94	0.5	6	119	6.0	4,310	2,900	30		0.048J														13	
TON-MW2s	2/19/2014	21.7	6.90	0.5	5	111	6.0	4,147	2,200	33		0.11														17	
TON-MW2s	5/23/2014	19.8	7.10	0.1	2	-82	12	5,355	4,000	22		1.6														14	
TON-MW2s	8/28/2014	22.8	7.39	0.6	7	132	15	5,448	3,400	14	0.55	0.42	2.7	820	67	220	100	780	320	4.4	1,500	<8.2	<8.2	1,500	0.6	14	
TON-MW2s	11/12/2014	23.7	7.00	1.2	14	178	3.6	5,318	3,500	16		0.13														13	
TON-MW2s	2/10/2015	21.2	7.08	4.7	48	87	1.0	5,018	3,300	43	1.4	0.076J	1.8	830	62	210	100	740	370	2.8	1,300	<8.2	<8.2	1,300	1.8	14	
TON-MW2s	5/13/2015	21.7	6.96	0.3	5	151	4.0	4,934	3,300	43		0.063J														12	
TON-MW2s	8/17/2015	23.4	7.80	0.4	6	57	7.0	4,367	2,900	37		0.046J														11	
TON-MW2s	11/19/2015	20.5	7.25	0.8	9	77	2.0	4,592	2,900	37		0.048J														12	
TON-MW2s	2/25/2016	20.0	7.20	0.5	6	-140	47	4,547	3,000	0.54	0.078	19	23	680	95	190	95	570	180	17	1,600	<8.2	<8.2	1,600	1.3	13	
TON-MW2s	5/17/2016	22.0	7.25	0.3	6	-148	351	5,010	3,200	1.6		72														14	
TON-MW2s	8/15/2016	22.4	7.11	3.4	39	-86	23	4,314	3,100	2.8		15														11	
TON-MW2s	11/22/2016	21.1	6.96	0.4	6	-138	20	4,270	2,700	0.81		14														12	
TON-MW2s	3/14/2017	21.7	7.12	0.6	7	87	1.0	4,266	2,800	46	0.15	3.4	5.5	660	110	200	110	490	220	4.0	1,400	<8.2	<8.2	1,400	3.8	14	
TON-MW2s	5/17/2017	22.1	6.99	0.4	5	150	3.0	4,079	3,000	15		3.3														13	
TON-MW2s	8/23/2017	23.1	7.09	0.6	7	-125	7.0	4,314	2,600	19		5.0														16	
TON-MW2s	11/16/2017	21.9	7.10	0.4	6	-106	4.6	4,448	2,800	6.7		4.4														14	
TON-MW2s	2/27/2018	20.2	7.04	1.8	30	53	8.0	4,685	3,000	23	0.33	2.2	3.8	690	71	200	91	580	260	4.4	1,500	<8.2	<8.2	1,500	-0.5	15	
TON-MW2s	5/15/2018	20.0	7.12	2.0	22	105	6.0	4,704	3,100	17		1.7														15	
TON-MW2s	8/17/2018	22.3	7.10	0.5	5	160	7.0	4,815	3,200	22		9.1														14	
TON-MW2s	11/14/2018	22.4	7.12	2.0	22	79	12	4,492	2,900	20		1.3														15	
TON-MW2s	3/1/2019	19.9	7.01	0.5	5	29	9.0	4,663	2,900	24	0.47	4.9	8.4	610	100	200	100	570	240	20	1,500	<8.2	<8.2	1,500	-2.4	16	
TON-MW2s	5/22/2019	21.3	7.11	0.8	12	18	4.0	4,709	3,200	28		1.8														17	
TON-MW2s	8/21/2019	22.6	7.16	1.5	20	34	5.0	4,117	3,000	21		0.8														14	
TON-MW2s	11/14/2019	22.4	6.90	1.0	12	-52	9.0	4,292	2,900	16		1.6														13	
TON-MW3s	2/10/2012	19.9	7.21	2.6		232	2.5	2,578	1,700	29		<0.05														14	
TON-MW3s	5/10/2012	19.4	7.13	1.8		213	28	2,912	1,700	31	0.015J*	<0.05	0.41*	370	1.4	97	54	310	180	0.12J*	650*	<8.2*	<8.2*	650	-1.7	12	H

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
TON-MW3s	8/16/2012	20.4	7.06	1.4		217	6.0	3,001	1,800	36	0.017J	<0.05	0.34	420	1.7	99	93	370	210	0.18	750	<8.2	<8.2	750	-2	6	
TON-MW3s	12/6/2012	19.9	7.25	0.5		104	28	2,845	1,800	26		0.12														11	
TON-MW3s	3/22/2013	19.3	7.83	5.0	58	122	4.0	3,026	2,000	28		0.047J														10	
TON-MW3s	5/29/2013	19.4	6.78	0.6	7	158	4.0	2,910	2,000	28		0.034J														8	
TON-MW3s	8/22/2013	23.8	6.47	0.3	3	146	3.0	2,825	1,800	29	0.043J	0.026J	0.56	420	1.4	110	98	340	200	0.15	800	<8.2	<8.2	800	0.7	6	
TON-MW3s	11/13/2013	21.5	6.98	0.6	6	133	7.0	2,844	1,900	28		0.032J														7	
TON-MW3s	2/19/2014	19.6	6.83	0.5	6	121	7.0	2,759	1,700	27		<0.050														10	
TON-MW3s	5/23/2014	19.5	7.07	0.3	3	40	42	2,972	1,700	27		0.034J														4	
TON-MW3d	8/27/2014	20.5	7.81	0.6	7	134	42	2,745	1,600	21	<0.050	0.040J	0.50	360	1.8	99	110	310	190	0.46	720	<8.2	<8.2	720	1.3	18	
TON-MW3s	11/12/2014	23.6	6.62	1.9	23	155	9.1	3,019	1,800	24		<0.10														4	
TON-MW3s	2/10/2015	20.7	6.92	6.3	70	73	1.0	3,000	1,800	27	<0.050	<0.10	0.72	440	1.7	130	120	400	210	0.093J	820	<8.2	<8.2	820	2.7	10	
TON-MW3d	5/13/2015	20.2	6.99	0.3	5	171	4.0	2,707	1,500	31		0.026J														16	
TON-MW3d	8/17/2015	21.4	7.59	1.4	20	64	99	2,708	1,700	38		0.12														6	
TON-MW3d	11/19/2015	19.3	6.89	0.6	7	98	13	2,836	1,800	43*		0.030J														17	H
TON-MW3s	2/25/2016	21.7	7.12	2.7	32	62	50	2,836	2,200	28	<0.050	0.076J	0.78	450	3.3	140	130	390	220	0.46	970	<8.2	<8.2	970	0.9	2	
TON-MW3s	5/17/2016	22.8	7.12	1.0	15	68		2,934	1,900	28		0.11														3	
TON-MW3d	8/15/2016	19.9	7.13	3.3	36	51	706	2,631	1,700	46		0.042J														7	
TON-MW3d	11/22/2016	19.3	6.90	0.8	9	105	5.0	2,959	1,900	9.5		0.090J														18	
TON-MW3s	3/14/2017	21.2	6.63	0.6	7	-122	17	5,353	3,600	13	0.23	2.6	12	730	30	230	220	990	230	4.5	1,300	<8.2	<8.2	1,300	2.3	9	
TON-MW3s	5/17/2017	20.4	6.73	0.4	5	-9	6.0	4,440	3,100	25		0.99														6	
TON-MW3d	8/23/2017	20.8	6.95	0.6	7	75	4.0	2,813	1,600	47		0.021J														18	
TON-MW3s	11/16/2017	22.1	6.91	0.7	8	37	2.6	3,614	2,300	32		0.045J														6	
TON-MW3s	2/27/2018	20.1	6.92	1.3	25	101	3.0	3,408	2,100	32	0.72	0.037J	0.98	440	6.4	130	110	430	240	0.80	930	<8.2	<8.2	930	-3.5	9	
TON-MW3s	5/15/2018	19.9	6.89	2.3	26	-73	9.0	5,276	3,100	7.6		2.0														9	
TON-MW3d	8/17/2018	21.0	6.89	0.8	8	163	4.0	3,013	1,900	49		0.047J														18	
TON-MW3s	11/14/2018	22.6	6.80	2.3	26	-94	82	4,870	3,000	3.8		2.2														5	
TON-MW3s	3/1/2019	20.6	6.79	0.3	4	23	45	6,373	4,100	9.5	0.30	7.2	27	730	180	230	200	1,200	150	12	1,600	<8.2	<8.2	1,600	-3.1	14	
TON-MW3s	5/22/2019	20.8	6.87	0.8	13	-6	19	5,626	3,300	9.0		4.0														9	
TON-MW3d	8/21/2019	24.6	7.05	1.8	22	166	113	2,774	1,700	47		<0.2														16	
TON-MW3s	11/14/2019	22.9	6.59	1.3	16	-42	3.0	3,646	2,300	28		0.77														7	
TON-MW4s	2/10/2012	21.2	7.13	2.7		243	5.5	3,544	2,300	26		0.035J														12	
TON-MW4s	5/10/2012	20.3	7.03	1.4		204	18	3,928	2,300	28	<0.05*	<0.05	0.32*	460	2.8	130	120	630	340	0.15*	570*	<8.2*	<8.2*	570	-2	12	H
TON-MW4s	8/16/2012	20.3	7.00	0.5		220	44	3,923	2,400	48	<0.05	0.029J	0.46	520	2.7	140	150	590	320	0.15	750	<8.2	<8.2	750	0	3	
TON-MW4s	12/7/2012	20.0	7.28	0.7		137	24	3,607	2,200	52		<0.050														9	
TON-MW4s	3/22/2013	18.7	8.17	5.0	56	126	5.0	3,476	2,300	50		0.051														11	
TON-MW4s	5/29/2013	20.2	6.63	0.5	6	154	5.0	3,438	2,300	50		0.025J														8	
TON-MW4s	8/22/2013	23.3	6.43	0.4	4	141	4.0	3,314	2,100	46	<0.050	0.021J	0.60	430	2.0	130	130	470	250	0.092J	780	<8.2	<8.2	780	-1.9	4	
TON-MW4s	11/13/2013	20.7	6.93	0.8	9	134	5.0	3,468	2,200	53		0.030J														4	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
TON-MW4s	2/19/2014	21.8	6.39	0.7	8	128	7.0	3,419	2,200	58		<0.050														9	
TON-MW4s	5/23/2014	20.1	6.98	0.1	1	48	28	3,669	2,300	58		0.035J														4	
TON-MW4d	8/27/2014	22.3	7.38	1.1	12	135	14	3,305	1,700	40	<0.050	0.056J	0.34	400	2.6	110	130	480	250	0.46	510	<8.2	<8.2	510	1.8	11	
TON-MW4d	11/12/2014	21.0	6.69	0.8	9	133	5.6	3,238	1,900	42		0.033J														18	
TON-MW4s	2/10/2015	21.0	6.94	5.4	60	96	2.0	3,416	2,100	53	0.088	<0.10	0.66	480	2.7	150	150	480	230	0.093J	790	<8.2	<8.2	790	3.6	7	
TON-MW4d	5/13/2015	20.4	6.96	0.5	8	221	5.0	3,276	2,000	48		0.071J														15	
TON-MW4d	8/17/2015	21.3	6.97	1.2	17	65	113	3,121	1,900	44		0.027J														6	
TON-MW4d	11/19/2015	20.6	6.96	0.8	9	93	9.0	3,298	2,100	42		0.065J														14	
TON-MW4s	2/25/2016	22.5	6.98	1.2	15	75	6.0	3,541	2,300	46	<0.050	0.11	0.66	460	2.5	140	150	480	210	0.11J	900	<8.2	<8.2	900	-0.1	1	
TON-MW4s	5/17/2016	23.1	6.91	0.9	14	74	13	3,212	2,100	38		0.040J														3	
TON-MW4d	8/15/2016	21.8	7.11	3.5	41	74	65	2,926	1,800	33		<0.10														6	
TON-MW4d	11/22/2016	20.3	6.79	0.9	12	120	2.0	3,412	2,200	36		0.029J														16	
TON-MW4s	3/14/2017	22.6	6.79	0.8	10	47	4.6	3,333	2,000	44	<0.050	0.030J	0.60	470	9.1	160	170	470	210	0.19	900	<8.2	<8.2	900	4.4	7	
TON-MW4s	5/17/2017	20.7	6.79	0.4	5	121	5.0	3,614	2,500	55		0.035J														8	
TON-MW4s	8/23/2017	23.0	6.99	1.4	18	46	8.0	2,969	1,700	33		0.029J														3	
TON-MW4s	11/16/2017	22.0	7.01	1.3	15	113	1.7	3,736	2,400	37		0.12														7	
TON-MW4s	2/27/2018	20.3	7.05	2.1	31	190	5.0	3,621	2,100	36	<0.050	<0.10	0.21	450	7.6	140	130	560	310	0.22	670	<8.2	<8.2	670	-0.6	10	
TON-MW4s	5/15/2018	21.2	7.02	3.3	38	21.2	6.0	3,938	2,500	45		0.047J														10	
TON-MW4s	8/17/2018	22.4	6.88	0.9	9	171	5.0	3,540	2,400	36		0.019J														2	
TON-MW4s	11/14/2018	22.2	6.98	2.7	29	38	6.5	3,754	2,500	38		0.021J														5	
TON-MW4s	3/1/2019	20.8	7.14	3.1	45	158	3.0	3,721	2,100	32	<0.050	0.093J	0.49	440	14	140	150	610	370	0.14J	570	<8.2	<8.2	570	-0.1	15	
TON-MW4s	5/22/2019	21.6	6.97	1.3	18	156	1.0	3,849	2,400	40		0.084J														11	
TON-MW4d	8/21/2019	22.2	7.20	2.0	23	114	2.0	3,252	2,100	35		<0.2														18	
TON-MW4s	11/14/2019	22.7	6.85	1.5	18	182	4.0	3,206	2,000	28		0.13J														6	
TON-MW5s	2/10/2012	20.7	7.14	2.4		236	5.5	3,151	2,100	52		0.029J														13	
TON-MW5s	5/10/2012	20.9	7.11	1.7		215	38	3,394	1,700	54	0.012J*	<0.05	0.33*	410	2.3	120	71	380	210	<0.15*	660*	<8.2*	<8.2*	660	-1.3	12	H
TON-MW5s	8/16/2012	21.4	6.94	0.6		216	5.0	3,386	2,100	75	<0.05	<0.05	0.78	390	2.8	130	130	370	240	0.15	770	<8.2	<8.2	770	-2.8	7	
TON-MW5s	12/6/2012	21.4	7.37	0.7		102	12	3,169	2,000	69		<0.050														10	
TON-MW5s	3/22/2013	20.0	7.82	5.0	58	123	5.0	2,968	2,000	57		0.031J														11	
TON-MW5s	5/29/2013	20.3	6.71	0.4	4	153	11	2,911	2,000	55		0.025J														8	
TON-MW5s	8/22/2013	23.9	6.48	0.3	4	143	10	2,988	2,000	61	0.0062J	0.030J	0.73	380	2.3	120	120	330	210	0.15	790	<8.2	<8.2	790	-2.1	5	
TON-MW5s	11/13/2013	21.6	6.98	0.6	7	131	5.0	3,018	1,900	52		0.034J														6	
TON-MW5s	2/19/2014	21.4	6.85	0.5	6	117	6.0	3,000	1,700	48		<0.050														10	
TON-MW5s	5/23/2014	20.8	7.04	0.1	1	41	12	3,107	2,000	50		<0.10														5	
TON-MW5d	8/27/2014	22.3	7.36	1.3	15	139	15	3,269	2,000	65	<0.050	0.057J	0.98	400	2.6	130	130	300	200	<0.15	680	<8.2	<8.2	680	5.8	18	
TON-MW5s	11/12/2014	23.8	6.71	1.3	16	154	8.0	3,139	1,800	71		<0.10														3	
TON-MW5s	2/10/2015	21.8	6.95	6.8	78	86	2.0	3,163	2,000	72	0.028J	<0.10	1.0	430	2.8	150	140	330	200	<0.15	790	<8.2	<8.2	790	5.1	8	
TON-MW5d	5/13/2015	21.9	7.35	0.3	5	163	6.0	3,106	1,900	77		0.031J														18	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
TON-MW5d	8/17/2015	22.0	7.47	1.4	21	64	64	3,333	2,000	71		0.031J														10	
TON-MW5d	11/19/2015	20.4	7.07	0.7	8	84	9.0	3,313	2,100	66		0.030J														18	
TON-MW5s	2/25/2016	21.4	7.05	0.5	6	16	13	3,325	2,200	67	<0.050	0.10	0.90	420	3.5	150	150	400	230	0.21	780	<8.2	<8.2	780	2.3	5	
TON-MW5s	5/17/2016	22.8	6.98	0.4	7	56	22	3,010	2,000	65		0.048J														6	
TON-MW5d	8/15/2016	21.2	7.12	3.6	41	45	351	2,977	2,000	61		<0.10														10	
TON-MW5s	11/22/2016	21.5	6.84	0.6	8	23	9.0	3,406	2,200	64		0.041J														3	
TON-MW5s	3/14/2017	22.5	6.83	0.6	7	20	3.0	3,241	2,000	65	0.044J	0.053J	0.75	460	2.8	150	150	400	210	0.72	840	<8.2	<8.2	840	3.6	9	
TON-MW5s	5/17/2017	21.3	6.76	0.4	4	221	2.0	3,218	2,300	67		0.062J														7	
TON-MW5s	8/23/2017	22.7	7.03	0.5	7	59	7.0	3,043	1,700	66		0.029J														4	
TON-MW5s	11/16/2017	22.0	7.18	0.8	10	218	3.7	3,203	2,100	65		0.032J														9	
TON-MW5s	2/27/2018	20.7	6.99	1.4	24	205	6.0	3,333	1,900	66	0.015J	0.024J	0.50	440	2.4	130	120	370	170	0.11J	870	<8.2	<8.2	870	-0.3	9	
TON-MW5s	5/15/2018	20.8	7.04	2.6	29	111	4.0	3,266	2,000	65		0.042J														10	
TON-MW5s	8/17/2018	23.4	6.91	0.7	7	161	4.0	3,282	2,100	70		0.027J														4	
TON-MW5s	11/14/2018	21.8	7.08	2.0	25	131	8.0	3,263	2,100	77		0.018J														6	
TON-MW5s	3/1/2019	20.8	7.04	2.3	35	157	4.0	3,363	2,000	75	0.017J	<0.20	0.82	420	2.9	130	130	340	160	<0.15	860	<8.2	<8.2	860	0.1	14	
TON-MW5s	5/22/2019	21.7	6.93	0.8	12	111	1.0	3,396	2,000	75		0.086J														11	
TON-MW5d	8/21/2019	22.7	7.01	1.3	11	115	3.0	2,965	1,900	4.8		0.067J														20	
TON-MW5s	11/14/2019	23.1	6.78	1.7	21	178	3.0	3,101	2,000	87		0.17J														7	
TON-MW6s	2/10/2012	19.7	7.55	2.4		237	12	2,767	1,900	6.5		0.033J														18	
TON-MW6s	5/10/2012	18.5	7.57	1.8		253	15	2,476	1,500	5.6	<0.05*	<0.05	<0.2*	370	4.0	62	53	320	330	1.3*	410*	<8.2*	<8.2*	410	-1.2	18	H
TON-MW6s	8/16/2012	19.9	7.38	1.0		207	3.0	3,018	1,800	8.6	0.20	0.025J	0.27	470	6.5	74	60	410	370	1.9	560	<8.2	<8.2	560	-2.4	17	
TON-MW6s	12/6/2012	19.8	8.09	0.7		95	220	2,184	1,300	4.2		<0.050														16	
TON-MW6s	3/22/2013	18.2	8.42	6.0	59	115	7.0	2,413	1,600	15		0.40														16	
TON-MW6s	5/29/2013	20.7	7.50	0.4	6	138	13	2,370	1,600	5.0		0.032J														16	
TON-MW6s	8/22/2013	23.4	6.72	0.5	5	132	3.0	2,500	1,700	6.6	0.30	0.060	0.42	430	12	68	54	340	320	3.0	530	<8.2	<8.2	530	-0.2	18	
TON-MW6s	11/13/2013	22.1	7.26	0.4	4	125	6.0	2,327	1,600	12		0.046J														17	
TON-MW6s	2/19/2014	20.6	7.39	0.5	6	104	6.0	2,139	1,300	5.8		<0.050														17	
TON-MW6s	5/23/2014	18.2	7.30	0.1	2	37	3.0	2,420	1,800	13		<0.10														20	
TON-MW6s	8/28/2014	21.6	7.48	0.4	5	144	12	3,004	1,900	22	0.46	0.054J	1.2	380	28	110	84	320	220	5.9	750	<8.2	<8.2	750	0.2	17	
TON-MW6s	11/12/2014	23.5	7.13	1.2	14	141	4.0	2,969	2,000	5.8		0.18														15	
TON-MW6s	2/10/2015	20.6	7.35	4.1	43	99	2.0	2,672	1,800	17	0.93	<0.10	0.75	450	13	98	75	320	220	2.8	730	<8.2	<8.2	730	3.5	15	
TON-MW6s	5/13/2015	19.8	7.09	0.4	7	153	10	2,702	1,800	22		0.31														17	
TON-MW6s	8/17/2015	22.5	8.37	0.4	6	73	5.0	1,770	1,200	8.1		0.054J														14	
TON-MW6s	11/19/2015	20.5	7.29	0.6	7	82	3.0	2,802	1,800	13		0.074J														13	
TON-MW6s	2/25/2016	19.7	7.33	0.6	7	148	4.0	3,118	2,000	9.9	0.79	0.13	1.3	460	14	130	97	370	290	3.1	880	<8.2	<8.2	880	1.4	15	
TON-MW6s	5/17/2016	20.9	7.36	0.5	9	0	4.0	2,513	1,700	16		0.088J														15	
TON-MW6s	8/15/2016	21.1	7.24	2.3	27	108	2.0	3,181	2,300	25		0.030J														17	
TON-MW6s	11/22/2016	20.5	7.06	0.7	9	139	1.0	3,752	2,500	16		0.058J														19	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
TON-MW6s	3/14/2017	21.3	7.29	0.6	7	85	3.0	2,390	1,500	16	0.51	0.047J	0.58	370	12	110	80	290	200	3.4	690	<8.2	<8.2	690	3.6	16	
TON-MW6s	5/17/2017	20.9	7.19	0.4	5	216	0.7	2,685	2,000	56		0.042J														18	
TON-MW6s	8/23/2017	22.1	7.25	0.7	7	115	2.0	2,975	1,900	31		0.072J														19	
TON-MW6s	11/20/2017	22.3	7.24	5.4	62	164	4.7	2,753	1,900	23		0.030J														18	
TON-MW6s	2/27/2018	19.2	7.15	1.2	26	220	5.0	3,240	2,100	31	0.24	0.27	2.2	390	33	150	100	320	250	10	910	<8.2	<8.2	910	0.3	20	
TON-MW6s	5/15/2018	19.8	7.32	3.9	44	228	6.0	2,593	1,700	17		0.051J														20	
TON-MW6s	8/17/2018	22.7	7.23	0.8	8	184	4.0	2,749	1,800	27		0.21														21	
TON-MW6s	11/14/2018	22.0	7.30	2.8	31	132	5.0	3,119	2,000	6.1		0.032J														17	
TON-MW6s	3/1/2019	19.3	7.38	1.9	34	140	2.0	2,992	1,900	6.9	0.22	0.052J	0.56	400	14	110	88	400	400	3.7	560	<8.2	<8.2	560	-0.4	18	
TON-MW6s	5/22/2019	19.8	7.41	0.6	12	183	1.0	3,227	2,200	6.3		0.078J														17	
TON-MW6s	8/21/2019	23.6	7.43	1.4	19	80	2.0	2,100	1,500	6.7		0.16J														17	
TON-MW6s	11/14/2019	22.4	7.13	1.8	21	86	2.0	2,853	1,800	9.8		0.12J														18	
TON-MW7s	2/10/2012	21.9	7.97	2.4		229	20	1,389	810	0.85		0.025J														18	
TON-MW7s	5/10/2012	20.4	7.97	1.4		218	6.0	1,208	680	0.30	<0.05*	<0.05	<0.2*	210	1.0	18	14	91	75	0.50*	330*	37*	<8.2*	367	-0.7	21	H
TON-MW7s	8/16/2012	21.7	7.65	0.7		190	7.0	1,845	1,000	5.6	0.26	<0.05	0.30	290	2.0	38	29	210	130	0.67	480	<8.2	<8.2	480	-4	19	
TON-MW7s	12/7/2012	22.8	7.95	0.5		110	20	1,169	740	0.093J		0.15														18	
TON-MW7s	3/22/2013	20.0	8.75	6.0	66	105	5.0	1,110	780	0.16		0.027J														17	
TON-MW7s	5/29/2013	20.9	7.70	0.7	8	154	6.0	1,073	690	0.090J		0.027J														17	
TON-MW7s	8/22/2013	23.7	7.18	0.3	4	122	4.0	1,117	720	<0.10	<0.050	0.028J	<0.20	200	0.74J	22	17	140	74	0.39	310	<8.2	<8.2	310	-1.4	17	
TON-MW7s	11/13/2013	23.7	7.69	0.5	6	109	5.0	1,172	660	0.028J		0.040J														18	
TON-MW7s	2/19/2014	22.0	7.88	0.4	5	95	5.0	1,151	710	0.040J		<0.050														18	
TON-MW7s	5/23/2014	22.6	7.76	0.2	3	-20	3.0	1,191	830	0.076J		<0.10														18	
TON-MW7s	8/28/2014	22.6	8.02	0.3	4	131	5.0	1,290	740	0.2J	0.055	<0.1	<0.2	180	1	36	27	150	72	0.27	320	<8.2	<8.2	320	0	19	
TON-MW7s	11/12/2014	23.0	7.62	1.3	15	130	4.2	1,230	760	0.17		<0.10														18	
TON-MW7s	2/10/2015	21.8	7.73	4.2	43	79	2.0	1,192	790	0.046J	<0.050	<0.10	0.10J	190	1.2	43	31	160	81	0.28	300	<8.2	<8.2	300	4.6	17	
TON-MW7s	5/13/2015	22.0	7.75	0.3	5	122	4.1	1,316	830	2.0		0.19														17	
TON-MW7s	8/17/2015	22.7	8.36	0.3	5	51	7.0	1,294	860	<0.10		0.034J														17	
TON-MW7s	11/19/2015	23.0	7.88	0.6	7	63	8.0	1,332	840	0.10		0.043J														18	
TON-MW7s	2/25/2016	21.7	7.84	0.5	6	119	3.0	1,347	840	0.37	0.015J	0.11	0.20	180	1.4	54	39	190	95	0.32	320	<8.2	<8.2	320	1.7	18	
TON-MW7s	5/17/2016	22.9	7.75	0.4	7	19	1.0	1,253	840	0.32		0.040J														17	
TON-MW7s	8/15/2016	22.9	8.17	5.6	67	80	1.0	1,235	860	0.35		<0.10														19	
TON-MW7s	11/22/2016	22.8	7.62	0.6	8	96	1.0	1,522	920	0.062J		<0.10														18	
TON-MW7s	3/14/2017	22.4	7.97	0.6	7	67	3.0	1,566	1,000	0.73	<0.050	0.039J	0.089J	190	1.4	74	54	290	95	0.36	310	<8.2	<8.2	310	2	18	
TON-MW7s	5/17/2017	21.9	7.88	0.5	6	239	1.0	1,567	1,100	0.35		0.037J														17	
TON-MW7s	8/23/2017	23.2	7.71	0.6	7	108	2.0	1,616	1,000	2.4		<0.10														21	
TON-MW7s	11/16/2017	22.8	7.74	1.0	12	59	1.6	1,573	990	0.34		0.044J														21	
TON-MW7s	2/27/2018	20.7	7.66	1.0	20	218	5.0	1,480	920	0.16J	0.010J	<0.10	<0.20	190	1.7	60	41	230	75	0.34	340	<8.2	<8.2	340	1.4	19	
TON-MW7s	5/15/2018	21.3	7.75	2.9	35	187	5.0	1,428	880	0.11J		0.022J														18	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
TON-MW7s	8/17/2018	22.3	7.65	0.8	8	235	5.0	1,417	880	0.40		0.019J														21	
TON-MW7s	11/14/2018	22.9	7.70	2.0	25	105	4.0	1,397	830	0.037J		<0.10														19	
TON-MW7s	3/1/2019	21.6	7.62	0.7	8	137	1.0	1,551	950	1.7	<0.050	<0.20	0.17J	180	1.3	62	44	290	71	0.29	310	<8.2	<8.2	310	-2.7	18	
TON-MW7s	5/22/2019	21.3	7.70	0.4	9	170	2.0	1,539	980	0.51		<0.2														18	
TON-MW7s	8/21/2019	23.1	7.79	1.4	17	130	2.0	1,546	1,100	0.91		<0.2														21	
TON-MW7s	11/14/2019	22.3	7.76	1.6	28	110	3.0	1,637	920	0.84		<0.20														19	
TON-MW8s	2/10/2012	19.3	7.16	2.7		267	277	5,834	4,300	17		0.037J														17	
TON-MW8s	5/10/2012	19.0	7.29	1.9		252	751	6,641	4,200	16	<0.05*	<0.05	0.45*	780	3.8	290	210	1,100	1,300	1.5*	610*	<8.2*	<8.2*	610	-2.2	17	H
TON-MW8s	8/16/2012	20.5	7.04	0.5		213	28	6,036	3,900	17	<0.05	0.025J	0.58	800	4.5	250	190	960	1,200	0.70	710	<8.2	<8.2	710	-1.9	15	
TON-MW8s	12/7/2012	18.8	7.27	0.7		127	53	5,697	3,900	24		<0.050														17	
TON-MW8s	3/22/2013	18.3	8.03	6.0	66	128	5.0	5,222	4,000	20		0.031J														15	
TON-MW8s	5/29/2013	19.6	6.95	0.6	6	161	13	4,612	3,800	23		0.020J														17	
TON-MW8s	8/22/2013	22.3	6.55	0.4	5	136	3.0	4,120	2,800	19	0.031J	0.031J	0.65	650	3.6	150	110	620	600	1.1	810	<8.2	<8.2	810	-1.5	16	
TON-MW8s	11/13/2013	20.7	6.98	0.3	3	137	5.0	4,781	3,400	23		0.038J														17	
TON-MW8s	2/19/2014	19.9	7.03	0.5	6	120	5.0	5,078	3,200	20		<0.050														17	
TON-MW8s	5/23/2014	21.1	7.05	0.2	3	17	4.0	5,687	4,300	17		<0.10														17	
TON-MW8s	8/28/2014	21.5	7.27	0.4	5	146	6.0	4,332	2,800	30	0.052	<0.1	0.58	630	4.3	140	100	590	460	1.1	870	<8.2	<8.2	870	-2	19	
TON-MW8s	11/12/2014	22.1	7.12	1.2	14	140	4.0	4,252	2,700	19		<0.10														17	
TON-MW8s	2/10/2015	19.7	7.16	4.7	48	96	2.0	4,659	3,200	22	0.035J	<0.10	0.66	740	4.0	190	150	740	770	0.74	740	<8.2	<8.2	740	1.9	17	
TON-MW8s	5/13/2015	20.0	7.30	0.4	7	147	5.0	4,718	3,100	21		0.040J														16	
TON-MW8s	8/17/2015	21.5	7.83	0.4	6	65	14	4,027	2,600	20		0.042J														16	
TON-MW8s	11/19/2015	20.9	7.30	0.6	6	69	5.0	4,197	2,800	27		0.056J														17	
TON-MW8s	2/25/2016	20.1	7.36	0.6	7	137	4.0	4,070	2,600	30	0.067	0.13	0.89	640	3.5	140	97	590	480	0.94	810	<8.2	<8.2	810	-0.8	17	
TON-MW8s	5/17/2016	21.5	7.31	0.5	8	25	2.0	3,603	2,400	31		0.067J														17	
TON-MW8s	8/15/2016	22.0	7.42	3.1	36	92	1.0	3,689	2,700	29		<0.10														17	
TON-MW8s	11/22/2016	20.3	7.16	0.6	8	122	2.0	4,246	2,800	30		0.030J														17	
TON-MW8s	3/14/2017	21.4	7.27	0.7	8	80	2.0	4,371	3,000	28	0.67	0.028J	0.61	720	4.8	190	140	720	630	1.1	780	<8.2	<8.2	780	2.8	19	
TON-MW8s	5/17/2017	20.0	7.34	0.5	5	253	1.2	4,354	3,200	32		0.032J														17	
TON-MW8s	8/23/2017	23.0	7.27	0.5	6	95	2.0	4,128	2,300	53		0.050J														17	
TON-MW8s	11/16/2017	20.7	7.31	0.6	8	40	2.3	5,082	3,300	37		0.038J														17	
TON-MW8s	2/27/2018	19.8	7.08	1.2	25	227	7.0	5,996	3,800	25	0.090	0.041J	0.68	760	4.1	250	200	980	1,100	0.90	750	<8.2	<8.2	750	-2.8	17	
TON-MW8s	5/15/2018	20.2	7.15	2.5	28	222	6.0	5,950	4,100	24		0.055J														18	
TON-MW8s	8/17/2018	21.2	7.09	0.8	8	181	5.0	5,561	4,000	29		0.031J														17	
TON-MW8s	11/14/2018	21.0	7.13	2.5	29	130	6.0	5,225	3,600	31		<0.10														17	
TON-MW8s	3/1/2019	19.5	7.15	2.1	35	166	2.0	6,031	4,000	32	0.034J	<0.20	0.85	780	4.4	240	210	990	1,100	0.66	760	<8.2	<8.2	760	-3.1	18	
TON-MW8s	5/22/2019	20.8	7.11	0.8	13	166	1.0	5,730	3,900	35		0.094J														18	
TON-MW8s	8/21/2019	22.4	7.26	1.6	22	99	1.0	4,337	2,900	46		0.083J														21	
TON-MW8s	11/14/2019	21.6	6.92	1.4	17	116	2.0	5,354	3,700	40		0.12J														17	

Table 4-6
Groundwater Quality

Well	Date	-------Field Measurements------- T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	----Alkalinity as CaCO3---- Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
North Area																											
BRE-MW1s	3/18/2013	17.3	8.35	4.8	53	QM	79	401	310	12		0.069														14	
BRE-MW1s	5/13/2013	20.0	6.11	5.3	82	QM	19	390	270	14		0.022J														14	
BRE-MW1s	8/12/2013	20.8	6.30	6.3	82	29	344	402	190	7.1	0.0077J	0.037J	<0.20	17	0.34J	17	17	13	18	0.79	84	<4.1	<4.1	84	0.7	13	
BRE-MW1s	11/26/2013	21.2	6.36	5.6	63	32	>1,000	398	250	6.9		<0.050														4	
BRE-MW1d	2/21/2014	19.6	7.33	6.4	70	48.5	>1,000	326	210	3.8		<0.050														28	
BRE-MW1d	5/21/2014	21.1	7.30	5.8	62	181.0	>1,000	322	230	3.6		<0.10														34	
BRE-MW1s	8/11/2014	22.0	6.53	6.0	80	291	36	372	250	6.3	<0.050	<0.10	0.50	27	0.48J	21	21	15	16	0.33	130	<4.1	<4.1	130	1.9	12	
BRE-MW1s	11/10/2014	20.6	7.25	6.0	82	294	40	378	230	3.8		<0.10														10	
BRE-MW1d	2/26/2015	18.1	7.19	8.6	90	175.0	>1,000	361	220	4.1	<0.050	0.066J	1.8	21	0.72J	20	22	12	12	11	120	<4.1	<4.1	120	0.7	45	
BRE-MW1d	5/21/2015	20.4	7.10	6.5	72	154.0	>1,000	324	200	3.5		0.056J														32	
BRE-MW1s	8/27/2015	22.4	6.06	4.4	54	194	>1,000	425	270	6.7		<0.10														14	
BRE-MW1s	11/24/2015	19.5	6.51	6.2	68	-312	>1,000	461	320	5.0		0.030J														11	
BRE-MW1s	2/25/2016	16.1	6.54	3.1	34	222.0	>1,000	399	270	8.2	<0.050	0.13	1.3	26	0.63J	26	23	14	26	12	120	<4.1	<4.1	120	1.6	14	
BRE-MW1s	5/27/2016	21.8	6.38	3.0	34	200.0		410	280	11		<0.10														11	
BRE-MW1s	8/22/2016	21.8	6.27	6.4	73	-173.0	>1,000	450	330	7.5		0.030J														14	
BRE-MW1s	11/3/2016	21.4	6.63	5.0	63	41	407	401	250	4.3		<0.10														12	
BRE-MW1s	3/13/2017	21.3	6.65	5.7	64	48	517	417	220	6.5	<0.050	0.031J	0.093J	22	0.60J	22	22	11	21	0.37	110	<4.1	<4.1	110	6.3	15	
BRE-MW1s	5/15/2017	15.4	6.61	6.8	68	97	39	308	280	9.5		0.024J														19	
BRE-MW1s	8/25/2017	24.2	6.50	5.7	67	116	233	457.4	310	4.9		0.079J														16	
BRE-MW1s	11/30/2017	19.7	6.31	5.5	68	-121	63	516	320	5.8		0.040J														11	
BRE-MW1s	2/12/2018	19.9	6.51	5.5	59	185.6	421	552.8	350	8.3	<0.050	0.036J	0.15J	30	0.69J	32	33	23	79	0.86	140	<4.1	<4.1	140	-0.9	4	
BRE-MW1d	5/29/2018	22.1	7.03	1.7	36	125	106	QM	260	0.99		0.25														31	
BRE-MW1d	8/13/2018	*Well Not Accessible*																									
BRE-MW1s	11/19/2018	21.3	6.46	5.7	63	128.1	59.3	411	270	4.3		<0.10														7	
BRE-MW1s	2/12/2019	NM	6.50	5.2	61	125.1	35	463	280	8.2	<0.050	<0.20	0.19J	22	0.64J	25	25	17	37	0.49	120	<4.1	<4.1	120	0.3	12	
BRE-MW1d	5/8/2019	*Well Not Accessible*																									
BRE-MW1s	8/16/2019	21.0	7.40	5.0	59	100.9	2.3	535	340	8.4		0.074J														16	
BRE-MW1d	11/25/2019	20.1	7.28	6.0	67	73.2	94.48	480	280	5.0		<0.20														33	E
BRE-MW2s	3/18/2013	20.5	7.82	3.6	45	QM	24	363	220	3.1		0.034J														43	
BRE-MW2s	5/13/2013	21.1	6.74	6.4	72	QM	>1,000	336	230	3.2		<0.050														29	
BRE-MW2s	8/12/2013	20.6	6.60	5.4	65	8	>1,000	340	230	3.0	0.0081J	0.019J	0.20	22	0.59J	16	28	16	12	2.0	140	<4.1	<4.1	140	-1.2	15	
BRE-MW2s	11/26/2013	20.1	6.73	4.8	53	25	>1,000	347	310	2.9		0.017J														34	
BRE-MW2s	2/21/2014	20.1	7.33	5.4	58	36.7	>1,000	341	230	2.9		<0.050														36	
BRE-MW2s	5/21/2014	20.1	7.27	6.6	73	-24.0	731	346	220	2.9		0.036J														28	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
BRE-MW2s	8/11/2014	21.3	7.38	10.68	120	259	>1,000	340	210	2.8	<0.050	0.038J	0.53	25	0.59J	17	24	15	11	0.56	130	<4.1	<4.1	130	3.2	13	
BRE-MW2s	11/10/2014	19.4	7.48	10.39	117	250.0	981	346	210	2.8		<0.10														26	
BRE-MW2s	2/26/2015	19.3	7.26	6.6	71	232.0	257	382	240	2.8	<0.050	0.060J	0.14J	24	0.77J	18	27	16	11	0.60	130	<4.1	<4.1	130	5.4	40	
BRE-MW2s	5/21/2015	20.1	7.13	7.1	77	155.0	>1,000	354	230	3		0.05J														25	
BRE-MW2s	8/27/2015	20.5	6.70	8.4	95	226	>1,000	335	230	2.6		<0.10														12	
BRE-MW2s	11/24/2015	19.6	6.91	6.2	68	-314	288	368	250	2.9		<0.10														27	
BRE-MW2s	2/25/2016	16.9	7.15	6.5	67	202.0	>1,000	354	230	2.9	<0.050	<0.10	<0.20	24	0.75J	16	26	17	11	0.82	130	<4.1	<4.1	130	1.9	37	
BRE-MW2s	5/27/2016	21.1	7.57	6.6	76	209.0	143	345	220	2.9		0.046J														31	
BRE-MW2s	8/22/2016	20.3	6.73	6.4	72	-248.0	287	356	230	3.0		<0.10														11	
BRE-MW2s	11/3/2016	17.3	6.97	7.6	78	58	>1,000	345	200	2.9		<0.10														26	
BRE-MW2s	3/13/2017	18.6	7.05	7.5	79	59	>1,000	346	230	3.0	<0.050	0.024J	0.86	24	0.68J	18	29	19	12	7.4	130	<4.1	<4.1	130	2	46	
BRE-MW2s	5/15/2017	18.6	7.07	4.4	47	80	>1,000	276	250	2.8		0.029J														39	
BRE-MW2s	8/25/2017	21.5	7.05	6.8	79	119	393	367.2	230	3.0		0.061J														16	
BRE-MW2s	11/30/2017	20.4	6.53	4.4	64	-241	196	372	230	3.1		0.024J														34	
BRE-MW2s	2/12/2018	20.2	7.07	6.7	69	97.7	163	363.1	220	3.3	<0.050	<0.10	<0.20	22	0.55J	16	25	22	13	0.42	130	<4.1	<4.1	130	-2.8	38	
BRE-MW2s	5/29/2018	22.8	6.57	0.8	19	-129	96	QM	260	0.98		0.022J														25	
BRE-MW2d	8/13/2018	21.0	6.45	6.9	79	127	>1,000	382.5	250	3.2		0.034J														29	
BRE-MW2s	11/19/2018	20.3	6.96	6.5	67	126.1	454	356.7	240	3.4		0.032J														19	
BRE-MW2s	2/12/2019	17.5	7.04	8.3	70	139.1	526	357.9	240	4.2	<0.050	0.063J	0.17J	22	0.74J	17	27	21	12	4.0	120	<4.1	<4.1	120	0.8	34	
BRE-MW2d	5/8/2019	*Well Not Accessible*																									
BRE-MW2s	8/16/2019	20.0	7.25	4.2	47	114.4	10.0	355.0	230	3.5		<0.2														15	
BRE-MW2d	11/25/2019	17.5	7.61	7.4	82	68.4	271.3	370.6	220	3.9		0.094J														48	
BRE-MW3s	3/18/2013	19.8	7.50	3.6	39	46.8	>1,000	QM	190	0.18		0.022J														48	
BRE-MW3s	5/13/2013	18.7	6.04	1.9	30	-103	>1,000	372	210	2.4		<0.050														33	
BRE-MW3s	8/12/2013	20.9	6.60	5.5	65	20	>1,000	337	240	9.0	0.0063J	0.020J	<0.20	22	0.40J	21	22	17	24	0.36	110	<4.1	<4.1	110	-0.5	19	
BRE-MW3s	11/26/2013	19.5	6.86	4.8	53	24	125	313	200	2.6		0.017J														39	
BRE-MW3s	2/21/2014	19.5	7.56	1.9	28	3.2	>1,000	318	190	2.2		<0.050														30	
BRE-MW3s	5/21/2014	19.9	7.48	1.9	28	142.0	237	304	200	2.3		<0.10														32	
BRE-MW3s	8/11/2014	21.4	7.13	7.2	81	284	27	307	180	2.3	<0.050	<0.10	0.36J	24	0.59J	14	23	10	8.5	0.35	120	<4.1	<4.1	120	5.1	19	
BRE-MW3s	11/10/2014	19.2	7.66	7.2	81	282	16	313	190	2.6		<0.10														33	
BRE-MW3s	2/26/2015	18.6	7.36	6.1	65	255.0	274	338	220	2.6	<0.050	0.064J	0.094J	23	0.67J	15	25	10	9.0	0.14J	120	<4.1	<4.1	120	6.8	45	
BRE-MW3s	5/21/2015	19.9	7.01	6.0	65	167.0	156	313	200	2.5		0.033J														31	
BRE-MW3s	8/27/2015	20.2	7.06	8.4	91	253	672	304	210	2.7		<0.10														18	
BRE-MW3s	11/24/2015	17.4	7.19	6.1	63	-320	89	345	220	3.0		<0.10														33	
BRE-MW3s	2/25/2016	17.7	7.30	5.8	61	148.0	106	309	210	3.0	<0.050	0.088J	<0.20	24	0.42J	16	22	10	9.7	0.44	120	<4.1	<4.1	120	5.5	43	
BRE-MW3s	5/27/2016	22.6	7.70	5.0	57	128.0	931	295	210	2.5		0.030J														36	
BRE-MW3s	8/22/2016	19.6	6.87	6.7	73	-260.0	60	317	200	2.7		<0.10														17	
BRE-MW3s	11/3/2016	19.0	6.92	7.2	77	80	>1,000	301	180	2.7		<0.10														32	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
BRE-MW3s	3/13/2017	18.6	6.84	7.1	77	86	126	314	200	2.8	<0.050	0.024J	<0.20	24	0.71J	15	26	10	9.5	1.0	130	<4.1	<4.1	130	4.1	51	
BRE-MW3s	5/15/2017	19.1	7.26	5.7	59	67	378	221	200	2.6		0.024J														43	
BRE-MW3s	8/25/2017	20.3	7.27	6.7	77	112	141	319.8	190	2.5		0.034J														23	
BRE-MW3s	11/30/2017	19.7	6.92	5.6	71	-310	126	337	190	2.6		0.026J														38	
BRE-MW3s	2/12/2018	19.5	7.22	6.6	67	97	221	311	210	2.6	<0.050	<0.10	<0.20	20	0.58J	13	22	11	9.3	<0.15	120	<4.1	<4.1	120	-0.6	44	
BRE-MW3s	5/29/2018	23.4	6.70	0.7	13	-110	86	QM	260	0.97		<0.10														30	
BRE-MW3s	8/13/2018	21.0	6.81	7.3	82	119	>1,000	325.6	210	2.7		0.042J														15	
BRE-MW3s	11/19/2018	19.9	6.98	5.8	69	123.7	22.8	312	210	3.0		<0.10														26	
BRE-MW3s	2/12/2019	18.0	7.13	7.1	75	42.0	324	305.9	200	2.7	<0.050	<0.20	0.31	19	0.67J	14	24	12	9.2	1.6	120	<4.1	<4.1	120	0.3	39	
BRE-MW3s	5/8/2019	19.6	7.23	9.9	66	121.5	774	311	230	2.9		<0.2														39	
BRE-MW3s	8/16/2019	19.0	7.42	2.9	32	127.3	6.6	316.7	210	2.9		<0.2														21	
BRE-MW3s	11/25/2019	17.4	7.75	7.4	79	80.9	98.7	330.7	220	3.2		0.074J														23	
CRE-MW1s	3/18/2013	15.5	6.54	1.6	17	QM	141	861	490	2.3		0.031J														12	
CRE-MW1s	5/13/2013	17.9	6.17	2.2	23	QM	33	724	500	4.9		0.026J														12	
CRE-MW1s	8/12/2013	22.5	6.60	2.1	23	-6	19	759	490	2.2	0.0055J	0.028J	0.34	57	2.1	42	45	46	63	0.12J	280	<4.1	<4.1	280	-0.8	13	
CRE-MW1s	11/26/2013	19.2	6.30	0.4	5	13	38	803	530	3.2		<0.050														13	
CRE-MW1s	2/21/2014	15.7	6.59	1.3	13	108.6	14	835	520	4.3		0.040J														14	
CRE-MW1s	5/20/2014	18.2	6.59	4.5	47	86.0	18	861	590	5.3		<0.10														12	
CRE-MW1s	8/11/2014	23.2	6.45	3.5	39	298	17	863	530	3.2	0.018J	<0.10	0.16J	68	1.7	53	51	66	66	0.22	290	<4.1	<4.1	290	3.3	9	
CRE-MW1s	11/10/2014	21.7	7.05	3.3	38	299	9.0	812	760	2.3		<0.10														11	
CRE-MW1s	2/26/2015	15.5	6.58	2.8	29	156.0	21	836	510	4.7	<0.050	0.063J	0.28	63	1.7	56	52	62	56	0.20	280	<4.1	<4.1	280	6	13	
CRE-MW1s	5/21/2015	18.8	6.45	3.5	37	234.0	16	946	600	6.1		0.03J														12	
CRE-MW1s	8/27/2015	24.0	6.65	4.5	57	262	41	832	560	11		<0.10														9	
CRE-MW1s	11/24/2015	20.2	6.46	2.8	32	-374	39	1,112	670	9.5		0.049J														9	
CRE-MW1s	2/25/2016	16.1	6.91	3.6	37	152.0	73	1,123	750	13	<0.050	0.093J	0.58	62	1.4	70	62	140	59	0.37	280	<8.2	<8.2	280	-0.5	12	
CRE-MW1s	5/27/2016	22.9	7.14	3.6	36	105.0	61	1,210	730	14		0.14														13	
CRE-MW1s	8/22/2016	23.0	6.73	3.5	39	-329.0	6.0	1,363	960	23		0.092J														12	
CRE-MW1s	11/3/2016	21.1	6.85	6.7	76	127	103	1,365	1,100	21		0.041J														11	
CRE-MW1s	3/13/2017	21.0	6.89	6.8	79	131	92	1,358	820	14	<0.050	0.038J	0.69	62	3.3	75	74	150	81	1.9	240	<8.2	<8.2	240	3.6	12	
CRE-MW1s	5/19/2017	18.3	7.08	0.9	11	87	108	1,527	1,000	18		0.050J														13	
CRE-MW1s	8/29/2017	24.3	6.57	1.1	14	-31	6.0	1,918	950	17		0.041J														11	
CRE-MW1s	11/30/2017	19.6	6.75	1.1	12	27	67	1,570	960	15		0.031J														12	
CRE-MW1s	2/12/2018	17.1	6.25	2.2	31	53	38	1,640	1,000	14	0.015J	<0.10	0.76	83	1.4	98	91	140	110	0.12J	520	<8.2	<8.2	520	-4.1	11	
CRE-MW1s	5/30/2018	18.7	6.61	1.8	19	61	80	1,509	1,100	15		0.034J														11	
CRE-MW1s	8/13/2018	24.0	6.41	1.0	12	73	>1,000	1,516	1,000	17		0.031J														13	
CRE-MW1s	11/19/2018	20.0	6.83	1.8	20	8.21	78	1,477	820	35		0.054J														10	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
CRE-MW1s	2/13/2019	13.4	6.48	1.3	13	76.9	351	1,438	770	52	<0.050	0.10J	0.39	73	1.8	88	84	110	84	0.16	320	<8.2	<8.2	320	-1	15	
CRE-MW1s	5/7/2019	16.3	7.40	1.9	19	91.6	21	1,441	990	58		0.11J														11	E
CRE-MW1s	8/16/2019	24.0	6.68	2.0	21	-15.6	28.2	1,804	1,000	94*		<0.2														11	H
CRE-MW1s	11/25/2019	20.4	7.23	2.1	23	99.9	27.6	1,653	1,000	76		0.19J														10	
CRE-MW2s	3/18/2013	15.3	6.50	1.9	20	QM	>1,000	QM	430	17		0.041J														16	
CRE-MW2s	5/13/2013	17.0	6.31	2.4	52	QM	165	575	460	17		<0.050														15	
CRE-MW2s	8/12/2013	21.4	6.70	3.4	39	30	20	699	480	13	0.0056J	0.057	0.26	59	1.4	35	34	45	70	0.56	180	<4.1	<4.1	180	-0.6	17	
CRE-MW2s	11/26/2013	18.0	6.64	2.0	21	10	17	698	500	15		<0.050														15	
CRE-MW2s	2/21/2014	15.6	6.81	3.0	29	106.6	156	771	500	13		0.028J														16	
CRE-MW2s	5/20/2014	16.9	6.83	3.8	40	47.0	246	691	490	15		<0.10														14	
CRE-MW2s	8/11/2014	21.7	6.64	4.2	49	301	>1,000	671	420	14	<0.050	0.084J	0.18J	56	1.1	35	32	44	60	2.2	150	<4.1	<4.1	150	2.9	13	
CRE-MW2s	11/10/2014	20.5	7.13	4.2	49	299	23	698	480	15		<0.10														15	
CRE-MW2s	2/26/2015	15.9	6.89	4.9	49	164.0	838	711	450	14	<0.050	0.070J	0.40	58	0.99J	37	36	50	60	1.6	150	<4.1	<4.1	150	4.9	16	
CRE-MW2s	5/21/2015	18.1	6.90	5.4	58	217.0	171	703	490	15		0.036J														14	
CRE-MW2s	8/27/2015	22.3	6.61	4.7	56	671	541	711	460	16		<0.10														12	
CRE-MW2s	11/24/2015	19.6	6.65	3.4	37	-367	118	856	550	17		0.078J														13	
CRE-MW2s	2/25/2016	17.1	7.19	4.6	48	145.0	166	717	450	16	<0.050	0.082J	0.26	48	0.67J	35	34	47	56	1.1	150	<4.1	<4.1	150	0.1	15	
CRE-MW2s	5/27/2016	21.5	7.14	4.3	45	125.0	201	704	490	17		<0.10														15	
CRE-MW2s	8/22/2016	21.0	6.36	3.5	39	-147.0	180	839	540	17		<0.10														15	
CRE-MW2s	11/3/2016	20.9	6.71	5.1	58	89	307	845	620	17		0.048J														14	
CRE-MW2s	3/13/2017	20.8	6.79	5.2	59	87	201	840	590	17	<0.050	<0.10	0.27	60	0.72J	47	47	64	67	0.64	190	<4.1	<4.1	190	3.6	14	
CRE-MW2s	5/19/2017	18.3	7.02	1.0	12	104	386	922	610	20		0.037J														15	
CRE-MW2s	8/29/2017	21.8	6.90	2.2	26	111	74	1,050	650	16		0.046J														14	
CRE-MW2s	11/30/2017	17.2	7.30	2.2	23	30	65	954	620	16		0.050J														14	
CRE-MW2s	2/12/2018	15.6	6.81	3.0	31	70	29	932	560	17	<0.050	0.032J	0.20	64	0.57J	46	47	85	78	0.38	230	<4.1	<4.1	230	-4.9	15	
CRE-MW2s	5/30/2018	18.1	6.24	2.8	31	44	96	876	580	17		0.033J														14	
CRE-MW2s	8/13/2018	25.0	6.60	3.0	34	58	>1,000	882.4	610	17		0.14														16	
CRE-MW2s	11/19/2018	16.5	6.90	3.7	37	29.4	>1,000	875	590	17		0.054J														13	
CRE-MW2s	2/13/2019	11.7	6.65	3.8	35	72.6	263	1,096	600	28	<0.050	0.071J	0.58	75	1.1	58	58	96	100	0.85	230	<8.2	<8.2	230	-2	17	
CRE-MW2s	5/7/2019	15.9	8.29	2.9	29	63.1	37	855	560	17		<0.2														14	E
CRE-MW2s	8/16/2019	23.1	6.79	2.3	29	-44.4	215	887	510	17		<0.2														15	
CRE-MW2s	11/25/2019	18.4	7.04	2.8	28	179	147	1,251	560	16		0.15J														13	
CRE-MW3s	3/18/2013	15.7	6.90	1.3	13	46.9	95	QM	950	0.88		0.041J														13	
CRE-MW3s	5/13/2013	17.5	6.56	2.8	32	QM	188	1,303	950	0.64		0.024J														12	
CRE-MW3s	8/12/2013	20.9	6.80	3.0	33	38	14	1,533	920	0.77	0.021J	0.030J	0.31	73	1.0	110	110	99	79	0.17	670	<8.2	<8.2	670	-0.4	12	
CRE-MW3s	11/26/2013	19.0	6.49	0.9	10	17	59	1,640	1,100	1.2		<0.050														12	
CRE-MW3s	2/21/2014	16.1	6.80	2.4	24	91.3		1,516	960	1.4		0.068														13	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
CRE-MW3s	5/21/2014	18.4	7.02	2.5	25	63.0	17	1,517	980	1.6		0.046J														12	
CRE-MW3s	8/11/2014	21.3	6.83	3.0	31	287	9.0	1,618	1,000	1.3	0.024J	<0.10	0.18J	95	1.1	120	120	110	81	0.52	710	<8.2	<8.2	710	2.4	10	
CRE-MW3s	11/10/2014	21.9	6.85	4.2	37	281	18	1,253	920	0.36		0.033J														10	
CRE-MW3s	2/26/2015	16.5	6.80	1.6	16	59.0	9.0	1,513	920	0.75	<0.050	0.082J	0.41	83	0.98J	120	130	94	71	0.24	680	<8.2	<8.2	680	5.9	11	
CRE-MW3s	5/21/2015	19.1	6.82	2.4	26	110.0	14	1,619	840	0.55		0.059J														10	
CRE-MW3s	8/27/2015	21.3	6.63	7.1	80	252	18	1,420	760	0.75		<0.10														7	
CRE-MW3s	11/24/2015	19.6	6.74	1.7	18	-424	6.0	1,727	820	0.37		0.027J														9	
CRE-MW3s	2/25/2016	16.2	7.04	2.1	21	44.0	16	1,590	1,000	0.94*	<0.050	0.10	0.49	74	0.85J	110	120	100	66	0.78	700	<8.2	<8.2	700	0	11	H
CRE-MW3s	5/27/2016	19.5	6.98	2.5	25	46.0	162	1,585	1,000	1.7		0.034J														10	
CRE-MW3s	8/22/2016	19.9	6.31	1.8	20	-186.0	16	1,481	760	0.18		0.041J														11	
CRE-MW3s	11/3/2016								980	0.13		0.061J															
CRE-MW3s	3/13/2017	20.2	6.78	1.3	16	126	54	1,449	780	4.1	<0.050	0.027J	0.62	76	0.88J	120	130	110	66	2.5	670	<8.2	<8.2	670	3.8	12	
CRE-MW3s	5/19/2017	*Well Not Accessible*																									
CRE-MW3s	8/29/2017	*Well Not Accessible*																									
CRE-MW3s	11/30/2017	16.9	7.27	3.2	32	36	229	1,496	900	1.4		0.035J														12	
CRE-MW3s	2/12/2018	17.7	7.30	0.8	12	65	394	772	860	1.9	<0.050	0.029J	0.52	67	0.86J	98	100	110	47	3.1	650	<8.2	<8.2	650	-4	12	
CRE-MW3s	5/30/2018	18.9	6.47	1.1	19	92	79	1,440	280	1.0		0.030J														11	
CRE-MW3s	8/13/2018	21.0	6.45	2.0	20	50	>1,000	1,686	1,000	0.16		0.070J														12	
CRE-MW3s	11/19/2018	18.4	6.78	1.4	15	-15.7	>1,000	1,672	870	0.049J		0.13														9	
CRE-MW3s	2/13/2019	11.9	6.78	1.5	14	85.8	478	1,433	840	0.51	<0.050	0.099J	0.44	74	0.92J	110	120	110	46	0.98	700	<8.2	<8.2	700	0.5	14	
CRE-MW3s	5/7/2019	16.9	6.65	3.5	36	169	38	1,574	1,000	5.8		0.077J														11	E
CRE-MW3s	8/16/2019	21.3	6.82	1.8	21	-42.1	9.6	1,702	980	4.8		<0.2														11	
CRE-MW3s	11/25/2019	17.6	7.17	1.5	18	288	177	1,466	700	0.20		0.15J														10	
MTS-MW1	3/18/2013	18.4	7.06	3.8	41	102.1	>1,000	700	520	13		0.024J														27	
MTS-MW1	5/13/2013	20.1	6.69	6.2	69	QM	642	626	460	11		<0.050														24	
MTS-MW1	8/12/2013	18.7	6.60	5.9	63	69	575	1,051	640	49	0.0049J	0.020J	0.30	31	1.2	49	110	50	50	1.3	260	<4.1	<4.1	260	-1.3	17	
MTS-MW1	11/26/2013	18.4	6.67	5.4	58	66	>1,000	712	450	14		<0.050														19	
MTS-MW1	2/21/2014	18.7	7.26	5.2	56	60.7	>1,000	717	470	15		0.048J														18	
MTS-MW1	5/20/2014	18.7	7.12	4.5	48	81.0	135	692	430	11		<0.10														14	
MTS-MW1	8/11/2014	20.8	6.95	6.6	74	280	>1,000	754	450	18	<0.050	0.066J	<0.20	28	1.1	37	75	31	38	2.4	240	<4.1	<4.1	240	1.3	7	
MTS-MW1	11/10/2014	19.1	7.46	6.6	74	285	>1,000	737	470	17		<0.10														9	
MTS-MW1	2/26/2015	18.8	7.02	5.9	65	32.0	214	788	440	14	<0.050	0.096J	0.19J	26	1.1	39	74	29	34	0.92	240	<4.1	<4.1	240	4.6	18	
MTS-MW1	5/21/2015	19.5	7.09	7.3	80	170.0	>1,000	799	480	20		0.034J														12	
MTS-MW1	8/27/2015	20.4	6.85	3.3	41	414	>1,000	726	430	15		<0.10														1	
MTS-MW1	11/24/2015	18.5	6.97	5.9	59	-214	773	740	410	13		0.053J														4	
MTS-MW1	2/25/2016	19.2	7.41	6.5	71	176.0	>1,000	638	410	12	<0.050	<0.10	0.21	25	1.1	32	63	25	28	1.0	220	<4.1	<4.1	220	2.4	9	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
MTS-MW1	5/31/2016	20.0	6.65	4.4	47	47.2	344	796	470	16		0.028J														9	
MTS-MW1	8/22/2016	19.7	6.10	5.7	60	-304.0	220	1,108	700	63		0.029J														9	
MTS-MW1	11/3/2016	20.1	6.78	5.9	64	97	501	898	570	42		<0.10														9	
MTS-MW1	3/13/2017	20.6	6.85	5.8	65	98	702	897	510	31	<0.050	0.051J	0.49	28	1.0	41	82	36	38	4.3	230	<4.1	<4.1	230	-0.2	23	
MTS-MW1	5/19/2017	22.9	6.97	2.7	31	155	406	834	490	23		0.032J														27	
MTS-MW1	8/29/2017	20.1	6.75	3.5	42	-27	113	1,136	620	45		0.034J														23	
MTS-MW1	11/30/2017	19.0	7.08	5.0	54	36	350	827	540	26		0.032J														21	
MTS-MW1	2/12/2018	18.8	6.49	6.1	65	54	111	838	480	26	<0.050	<0.10	0.21	27	1.0	37	77	39	58	0.41	210	<4.1	<4.1	210	-1.8	22	
MTS-MW1	5/30/2018	18.9	6.43	1.8	20	48	56	895	560	32		0.024J														19	
MTS-MW1	8/13/2018	22.0	6.57	4.0	44	91	>1,000	867.1	560	30		0.024J														15	
MTS-MW1	11/19/2018	19.3	7.22	6.0	65	37.3	283	841	480	23		0.059J														11	
MTS-MW1	2/13/2019	14.6	6.88	5.9	65	101.9	453	873	410	22	<0.050	0.052J	0.24	28	0.96J	36	73	30	38	1.1	220	<4.1	<4.1	220	1.4	18	
MTS-MW1	5/7/2019	19.7	7.66	5.7	58	83.6	278	795	490	20		0.069J														0	E
MTS-MW1	8/16/2019	23.0	7.03	3.4	42	8.7	179	1,216	530	24		<0.2														24	
MTS-MW1	11/25/2019	17.6	7.04	3.1	37	108	61	880	520	25		<0.20														19	E
MTS-MW2d	3/18/2013	17.0	6.84	3.9	40	60.9	>1,000	701	440	15		0.024J														18	
MTS-MW2d	5/13/2013	20.4	6.65	3.6	73	QM	>1,000	611	420	12		0.021J														15	
MTS-MW2d	8/12/2013	18.2	6.60	6.0	62	-8	>1,000	716	470	15	0.0093J	0.032J	0.14J	29	0.96J	36	68	32	45	0.97	240	<4.1	<4.1	240	-0.6	8	
MTS-MW2d	11/26/2013	17.7	6.50	4.1	43	53	>1,000	695	440	11		<0.050														9	
MTS-MW2d	2/21/2014	*Well Dry*																									
MTS-MW2s	5/20/2014	18.3	6.50	4.3	45	150.00	105	1,164	740	64		0.052J														3	
MTS-MW2d	8/11/2014	*Well Dry*																									
MTS-MW2d	11/10/2014	*Well Dry*																									
MTS-MW2d	2/26/2015	18.5	6.77	5.8	62	56.00	>1,000	1,090	610	36	<0.050	0.068J	0.52	37	1.2	53	96	45	40	1.7	260	<4.1	<4.1	260	4.2	8	
MTS-MW2d	5/21/2015	*Well Dry*																									
MTS-MW2d	8/27/2015	*Well Dry*																									
MTS-MW2s	11/24/2015	*Well Dry*																									
MTS-MW2d	2/25/2016	*Well Dry*																									
MTS-MW2s	5/31/2016	19.8	6.24	3.7	41	67.50	29	1,150	690	61		0.042J														4	
MTS-MW2d	8/22/2016	*Well Dry*																									
MTS-MW2d	11/3/2016	*Well Dry*																									
MTS-MW2d	3/13/2017	*Well Dry*																									
MTS-MW2d	5/19/2017	22.1	6.85	5.9	74	153	782	913	560	28		0.11														17	
MTS-MW2s	8/29/2017	22.4	6.50	3.7	42	-57	174	1,155	740	50		0.037J														4	
MTS-MW2d	11/30/2017	18.4	6.90	4.7	50	36	>1,000	820	500	19		0.068J														11	
MTS-MW2d	2/12/2018	16.7	6.28	5.2	54	68	651	781	470	24	<0.050	0.038J	0.45	34	1.1	34	65	29	40	1.5	230	<4.1	<4.1	230	-3	12	
MTS-MW2d	5/30/2018	21.1	6.81	4.1	49	142	861	784	530	28		<0.10														10	
MTS-MW2d	8/13/2018	*Well Dry*																									

Table 4-6
Groundwater Quality

Well	Date	-------Field Measurements------- T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	----Alkalinity as CaCO3---- Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
MTS-MW2d	11/19/2018	*Well Dry*																									
MTS-MW2d	2/13/2019	*Well Dry*																									
MTS-MW2d	5/7/2019	18.6	7.49	5.0	50	88.1	262	793	490	22		0.057J														17	E
MTS-MW2d	8/16/2019	20.5	6.79	3.5	42	-4.3	159	913	500	22		<0.2														14	
MTS-MW2d	11/25/2019	17.9	7.13	3.3	39	123	481	790	470	21		0.073J														9	E
MTS-MW3d	3/18/2013	17.3	6.50	3.5	40	88.5	>1,000	QM	520	35		0.019J														22	
MTS-MW3d	5/13/2013	19.0	6.24	4.6	54	QM	>1,000	755	490	33		0.023J														19	
MTS-MW3d	8/12/2013	18.8	6.50	5.2	56	47	>1,000	749	450	26	0.0044J	0.022J	0.11J	32	1.1	36	68	35	31	0.70	210	<4.1	<4.1	210	0.4	13	
MTS-MW3d	11/26/2013	18.0	6.34	2.8	30	49	>1,000	844	440	32		<0.050														14	
MTS-MW3d	2/21/2014	17.3	6.95	4.4	47	-71.8	>1,000	858	510	31		0.026J														13	
MTS-MW3d	5/20/2014	18.0	6.70	4.4	47	181.0	>1,000	777	500	30		<0.10														11	
MTS-MW3d	8/11/2014	20.1	6.38	6.0	68	275	>1,000	862	530	31	<0.050	0.044J	2.6	37	1.3	43	82	38	37	13	230	<4.1	<4.1	230	1.2	2	
MTS-MW3d	11/10/2014	19.5	7.09	6.0	68	253	>1,000	866	540	31		<0.10														4	
MTS-MW3d	2/26/2015	18.9	6.70	4.6	49	53.0	>1,000	956	530	31	<0.050	0.078J	0.71	35	1.3	45	84	36	36	2.2	230	<4.1	<4.1	230	4.5	13	
MTS-MW3d	5/21/2015	19.4	6.69	5.7	61	207.0	>1,000	868	550	31		1.9														7	
MTS-MW3d	8/27/2015	*Well Dry*																									
MTS-MW3s	11/24/2015	*Well Dry*																									
MTS-MW3d	2/25/2016	*Well Dry*																									
MTS-MW3d	5/31/2016	20.9	6.30	3.5	37	39.8	>1,000	925	540	34		0.038J														6	
MTS-MW3d	8/22/2016	21.0	6.22	4.7	46	82.0	>1,000	1,013	610	48		0.026J														4	
MTS-MW3d	11/3/2016	19.7	6.57	3.4	37	111	>1,000	870	550	40		<0.10														4	
MTS-MW3d	3/13/2017	21.2	6.56	3.4	38	106	>1,000	884	570	41	<0.050	0.028J	0.13J	36	1.3	45	88	43	37	0.26	230	<4.1	<4.1	230	0.9	5	
MTS-MW3d	5/19/2017	22.6	6.68	4.0	52	155	702	972	600	44		0.056J														21	
MTS-MW3d	8/29/2017	21.2	6.59	3.6	41	-29	213	1,209	610	43		0.048J														19	
MTS-MW3d	11/30/2017	18.6	6.70	4.6	49	37	>1,000	896	580	38		0.17														16	
MTS-MW3d	2/12/2018	18.7	6.46	3.9	40	65	NM	866	520	35	<0.050	0.031J	0.91	32	1.0	38	74	39	41	0.93	230	<4.1	<4.1	230	-4.9	16	
MTS-MW3d	5/30/2018	21.0	6.48	3.4	39	117	>1,000	828	480	20		0.034J														14	
MTS-MW3d	8/14/2018	20.0	6.03	3.5	39	125	>1,000	837.5	630	27		0.018J														9	
MTS-MW3d	11/19/2018	*Well Dry*																									
MTS-MW3d	2/13/2019	*Well Dry*																									
MTS-MW3d	5/7/2019	19.9	7.25	5.2	52	101.2	>1,000	829	530	31		<0.2														20	E
MTS-MW3d	8/16/2019	21.5	6.55	3.5	38	20.2	113	1,007	530	32		<0.2														18	
MTS-MW3d	11/25/2019	18.0	6.95	1.0	13	93	288	890	520	34		<0.20														13	E

South Area

AUK-MW1	12/14/2006								930	41.9	<0.1		<1	115.0	1.0	12.5	128.0	203.0	59.3		229.0	<1					

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
AUK-MW1	3/21/2013	18.8	6.94	4.5	61	QM	>1,000	1,707	1,200	43		0.086														30	
AUK-MW1	5/16/2013	19.4	6.86	3.0	32	QM	>1,000	1,749	1,300	43		0.023J														29	
AUK-MW1	8/14/2013	20.8	6.58	7.3	80	80	>1,000	1,794	1,400	42	<0.050	0.032J	0.71	170	0.70J	23	220	34	420	4.9	390	<8.2	<8.2	390	-0.9	26	
AUK-MW1	11/22/2013	17.7	6.90	5.7	60	129	>1,000	1,819	1,300	44		<0.050														26	
AUK-MW1	2/18/2014	18.7	6.86	5.6	60	50	>1,000	1,923	1,300	41		0.034J														24	
AUK-MW1	5/29/2014	18.2	7.08	3.0	32	91.6	>1,000	1,903	1,400	47		<0.10														20	
AUK-MW1	8/21/2014	18.9	6.88	7.1	77	113	881	1,750	1,300	42	<0.050	0.037J	0.15J	190	0.89J	25	240	27	470	1.5	380	<8.2	<8.2	380	2.6	15	
AUK-MW1	11/11/2014	18.9	6.92	6.5	70	140	>1,000	1,848	1,400	47		<0.10														17	
AUK-MW1	2/18/2015	18.6	6.88	6.5	68	9	>1,000	2,316	1,300	51	<0.050	<0.10	0.35	210	0.75J	25	240	32	410	1.4	370	<8.2	<8.2	370	6.1	17	
AUK-MW1	5/12/2015	19.1	7.03	6.1	68	149	279	1,875	1,200	57		0.07J														14	
AUK-MW1	8/26/2015	19.3	6.86	2.0	25	147	186	1,842	1,300	56		<0.10														10	
AUK-MW1	11/18/2015	16.4	6.92	5.7	57	211		2,211	1,200	55		0.031J														14	
AUK-MW1	2/23/2016	18.9	7.18	6.1	65	185	>1,000	1,878	1,200	57	<0.050	0.025J	0.44	180	0.68J	22	210	39	340	0.81	390	<8.2	<8.2	390	0.2	12	
AUK-MW1	5/4/2016	19.1	6.91	5.1	56	-42	100	1,980	1,200	57		0.032J														12	
AUK-MW1	8/10/2016	19.8	6.77	3.0	29	-11	32	QM	1,400	57		<0.10														7	
AUK-MW1	11/9/2016	19.3	7.16	6.1	64	148	507	1,861	1,100	55		0.033J														10	
AUK-MW1	3/28/2017	19.4	6.96	6.8	74	148.9	601	1,557	1,100	57	<0.050	0.029J	0.52	210	0.79J	23	200	44	300	0.36	390	<8.2	<8.2	390	4.1	10	
AUK-MW1	5/17/2017	*Well Not Accessible*																									
AUK-MW1	8/22/2017	*Well Not Accessible*																									
AUK-MW1	11/21/2017	*Well Not Accessible*																									
AUK-MW1	2/13/2018	18.3	6.91	8.3	90	-91.9	>1,000	1,810	1,200	58	<0.050	0.055J	0.81	160	0.95J	19	190	51	330	6.7	390	<8.2	<8.2	390	-6.3	29	
AUK-MW1	5/16/2018	19.2	6.70	8.0	87	124.3	>1,000	1,400	1,300	58		0.034J														27	
AUK-MW1	8/6/2018	20.0	7.10	0.6	7	216.4	>1,000	1,628	1,200	59		<0.10														23	
AUK-MW1	11/15/2018	19.0	7.90	7.4	74	95	>1,000	1,784	1,200	62		0.080J														24	
AUK-MW1	2/20/2019	20.4	7.12	3.9	55	137	>1,000	1,505	1,100	56	<0.050	0.12J	0.42	150	0.72J	18	170	42	210	0.94	400	<8.2	<8.2	400	-3.1	25	
AUK-MW1	5/14/2019	20.6	7.08	2.0	18	37.6	126	1,231	1,300	54		<0.2														27	
AUK-MW1	8/13/2019	19.7	6.98	5.8	67	-0.2	>1,000	1,695	1,200	56		<0.2														30	
AUK-MW1	11/20/2019	19.4	6.48	2.5	27	195	61	1,740	1,100	55		<0.20														37	E
AUK-MW2	12/14/2006								800	21.1	<0.1		<1	111.0	0.9	12.6	114.0	227.0	54.7		206.0	<1					
AUK-MW2	3/21/2013	18.8	6.71	3.6	42	QM	>1,000	1,595	1,000	46		0.032J														31	
AUK-MW2	5/16/2013	19.5	6.61	1.9	20	QM	>1,000	1,550	1,000	48		<0.050														29	
AUK-MW2	8/14/2013	21.4	6.38	3.1	36	55	NM	1,761	1,100	31	0.0016J	0.031J	0.46	160	0.81J	23	200	82	56	3.2	640	<8.2	<8.2	640	0.7	24	
AUK-MW2	11/22/2013	18.6	6.60	2.2	24	65	>1,000	1,760	1,000	32		0.020J														24	
AUK-MW2	2/18/2014	19.3	6.61	2.2	23	-3	>1,000	1,708	900	29		<0.050														21	
AUK-MW2	5/29/2014	19.0	6.61	2.8	31	73.6	>1,000	1,790	1,200	38		<0.10														21	
AUK-MW2	8/21/2014	19.5	6.49	5.6	62	77	>1,000	1,647	1,000	28	<0.050	<0.10	0.20	160	1.0	25	240	78	43	3.0	690	<8.2	<8.2	690	5.1	18	
AUK-MW2	11/11/2014	19.3	6.49	4.4	47	106	>1,000	1,880	1,200	31		<0.10														18	
AUK-MW2	2/18/2015	19.6	6.55	2.4	26	-32	>1,000	2,358	1,100	24	<0.050	<0.10	0.43	180	0.82J	28	210	99	40	1.4	720	<8.2	<8.2	720	2.1	16	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
AUK-MW2	5/12/2015	19.7	6.72	3.7	41	139	308	1,766	1,100	34		0.084J														14	
AUK-MW2	8/26/2015	20.6	6.63	5.1	57	216	>1,000	1,630	700	24		<0.10														12	
AUK-MW2	11/18/2015	17.4	6.62	1.3	13	88	68	2,154	880	24		0.028J														12	
AUK-MW2	2/23/2016	19.0	6.85	3.6	37	148	>1,000	1,813	1,000	24	<0.050	0.029J	0.37	160	0.78J	24	220	100	39	0.85	720	<8.2	<8.2	720	0.4	10	
AUK-MW2	5/4/2016	19.5	6.51	2.0	21	-198	73	1,775	1,000	37		0.026J														12	
AUK-MW2	8/10/2016	20.4	6.62	11.50	133	-42	159	QM	1,100	32		<0.10														9	
AUK-MW2	11/9/2016	19.4	6.73	3.6	37	131	>1,000	1,793	1,100	38		<0.10														12	
AUK-MW2	3/28/2017	20.6	6.45	4.5	49	171.7	>1,000	1,446	880	29	<0.050	0.028J	0.29	150	0.77J	24	160	87	46	0.34	620	<8.2	<8.2	620	-4	14	
AUK-MW2	5/17/2017	16.9	6.53	2.0	21	67	>1,000	1,172	700	26		0.13														21	
AUK-MW2	8/22/2017	20.0	6.57	7.3	81	85.7	>1,000	1,570	1,000	41		0.030J														30	
AUK-MW2	11/21/2017	19.7	6.67	4.3	47	-41	329	1,930	1,400	74		0.053J														32	
AUK-MW2	2/13/2018	19.1	6.61	5.2	56	-57.6	822	1,976	1,400	65	<0.050	0.030J	0.30	160	0.72J	24	220	61	280	1.2	460	<8.2	<8.2	460	-3.6	30	
AUK-MW2	5/16/2018	19.5	6.40	5.7	60	129.3	550	1,368	1,400	73		0.038J														28	
AUK-MW2	8/6/2018	20.0	6.86	4.9	51	149.8	>1,000	1,715	1,400	72		<0.10														28	
AUK-MW2	11/15/2018	18.1	7.74	5.6	56	131	124	1,912	1,200	75		0.10														27	
AUK-MW2	2/20/2019	20.3	7.20	3.5	44	100	639	1,341	1,400	73	<0.050	0.086J	0.58	150	0.73J	24	220	55	240	3.0	420	<8.2	<8.2	420	-1.9	30	
AUK-MW2	5/14/2019	18.7	6.68	2.1	20	62.1	206	1,195	1,300	71		<0.2														27	
AUK-MW2	8/13/2019	20.3	6.68	4.6	52	4.5	151	1,739	1,100	67		<0.2														34	
AUK-MW2	11/20/2019	18.7	7.35	4.2	45	180	139	1,620	1,100	67		0.13J														40	E
AUK-MW3	12/14/2006								885	26.4	<0.1		<1	181.0	0.9	11.7	81.7	231.0	68.5		219.0	<1					
AUK-MW3	3/21/2013	19.4	6.71	3.4	40	QM	878	1,858	1,100	42		0.036J														37	
AUK-MW3	5/16/2013	20.2	6.69	1.1	13	QM	211	1,945	1,300	40		<0.050														36	
AUK-MW3	8/14/2013	21.2	6.44	3.9	45	40	>1,000	1,881	1,300	41	0.0035J	0.035J	0.43	280	0.71J	21	140	70	140	1.5	640	<8.2	<8.2	640	0.6	34	
AUK-MW3	11/22/2013	18.9	6.62	3.1	33	32	>1,000	2,068	1,200	28		<0.050														32	
AUK-MW3	2/18/2014	19.6	6.61	1.4	15	-19	417	2,209	1,100	27		<0.050														29	
AUK-MW3	5/29/2014	19.2	6.78	2.8	30	74.3	419	2,067	1,300	32		<0.10														28	
AUK-MW3	8/21/2014	19.9	6.69	6.1	67	50	588	1,708	1,200	45	<0.050	0.034J	0.15J	270	0.74J	22	140	35	140	0.33	610	<8.2	<8.2	610	3.1	28	
AUK-MW3	11/11/2014	19.4	6.72	4.1	44	141	18	1,842	1,300	47		<0.10														25	
AUK-MW3	2/18/2015	19.3	6.52	1.9	20	-8	575	2,559	1,400	44	<0.050	<0.10	0.53	320	0.81J	26	150	52	120	0.35	730	<8.2	<8.2	730	4.1	23	
AUK-MW3	5/12/2015	20.1	6.69	2.1	23	126	89	2,035	1,300	41		0.067J														21	
AUK-MW3	8/26/2015	20.3	6.76	5.6	63	210	>1,000	1,776	1,000	46		<0.10														21	
AUK-MW3	11/18/2015	17.3	6.96	3.7	39	69	143	2,167	1,100	44		0.036J														19	
AUK-MW3	2/23/2016	19.2	7.10	3.8	41	165	121	1,781	1,000	38	<0.050	0.028J	0.38	230	0.69J	22	140	54	110	0.52	620	<8.2	<8.2	620	-0.3	17	
AUK-MW3	5/4/2016	19.8	6.84	3.7	41	-68	120	1,731	1,100	38		0.026J														18	
AUK-MW3	8/10/2016	20.4	6.60	4.0	40	-69	35	QM	1,200	42		<0.10														18	
AUK-MW3	11/9/2016	19.1	7.06	3.8	38	150	201	1,785	1,200	44		0.042J														19	
AUK-MW3	3/28/2017	19.7	6.68	4.6	49	152.7	110	1,573	1,000	50	<0.050	0.020J	0.16J	280	0.71J	23	120	41	130	0.27	580	<8.2	<8.2	580	2.7	24	
AUK-MW3	5/17/2017	17.0	6.88	5.6	57	70	108	1,281	980	51		0.047J														30	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
AUK-MW3	8/22/2017	21.0	6.84	4.9	54	135	124	1,742	1,100	50		<0.10														39	
AUK-MW3	11/21/2017	19.7	6.82	3.9	43	-83	87	1,852	1,200	49		<0.1														37	
AUK-MW3	2/13/2018	20.3	6.65	4.8	57	-105.1	222	1,900	1,200	48	<0.050	<0.10	0.46	250	0.67J	21	140	45	150	1.2	680	<8.2	<8.2	680	-4.5	35	
AUK-MW3	5/16/2018	19.8	6.51	5.1	55	144.2	70.1	1,468	1,200	44		0.040J														33	
AUK-MW3	8/6/2018	20.0	6.89	9.4	95	159.9	100	1,663	1,200	53		<0.10														34	
AUK-MW3	11/15/2018	16.7	7.33	5.1	53	120	120	1,831	1,100	55		0.12														32	
AUK-MW3	2/20/2019	18.5	6.95	3.9	53	138	25	1,960	1,200	53	<0.050	0.062J	0.36	250	0.69J	19	130	43	140	0.41	580	<8.2	<8.2	580	-1.5	35	
AUK-MW3	5/14/2019	19.1	6.87	2.7	39	60.4	86	1,373	1,000	33		<0.2														32	
AUK-MW3	8/13/2019	21.9	6.83	3.1	35	-6.3	229	1,700	1,000	56		<0.2														39	
AUK-MW3	11/20/2019	18.5	6.81	5.0	54	180	219	1,600	1,100	53		0.081J														42	E
DLF-MW1	3/23/2004								360	7.2	<0.1		0.4	28.1	6.9	11.2	70.2	12.0	25.7		243.0	<0.1					
DLF-MW1	3/4/2005								379	8.0	<0.1		1.0	26.6	1.4	11.0	76.3	16.5	25.5		234.0	<0.1					
DLF-MW1	3/21/2013	*Well Dry*																									
DLF-MW1	5/16/2013	*Well Dry*																									
DLF-MW1	8/14/2013	*Well Dry*																									
DLF-MW1	11/21/2013	*Well Dry*																									
DLF-MW1	2/18/2014	*Well Dry*																									
DLF-MW1	5/29/2014	*Well Dry*																									
DLF-MW1	8/13/2014	*Well Dry*																									
DLF-MW1	11/11/2014	*Well Dry*																									
DLF-MW1	2/16/2015	*Well Dry*																									
DLF-MW1	5/12/2015	*Well Dry*																									
DLF-MW1	8/20/2015	*Well Dry*																									
DLF-MW1	11/16/2015	*Well Dry*																									
DLF-MW1	2/22/2016	*Well Dry*																									
DLF-MW1	5/3/2016	*Well Dry*																									
DLF-MW1	8/9/2016	*Well Dry*																									
DLF-MW1	11/9/2016	*Well Dry*																									
DLF-MW1	3/29/2017	*Well Dry*																									
DLF-MW1	5/17/2017	*Well Dry*																									
DLF-MW1	8/22/2017	*Well Dry*																									
DLF-MW1	11/21/2017	*Well Dry*																									
DLF-MW1	2/6/2018	*Well Dry*																									
DLF-MW1	5/15/2018	*Well Dry*																									
DLF-MW1	8/7/2018	*Well Dry*																									
DLF-MW1	11/15/2018	*Well Dry*																									

Table 4-6
Groundwater Quality

		-------Field Measurements-------																		----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
DLF-MW1	2/14/2019	*Well Dry*																									
DLF-MW1	5/14/2019	*Well Dry*																									
DLF-MW1	8/13/2019	*Well Dry*																									
DLF-MW1	11/20/2019	*Well Dry*																									
DLF-MW2	3/23/2004								350	7.8	<0.1		1.1	25.5	5.0	9.0	68.8	19.0	26.0		183.0	<0.1					
DLF-MW2	7/5/2005								497	23.7	<0.1		4.5	31.1	2.1	13.7	99.2	36.8	29.7		227.0	<1					
DLF-MW2	3/21/2013	*Well Dry*																									
DLF-MW2	5/16/2013	*Well Dry*																									
DLF-MW2	8/14/2013	*Well Dry*																									
DLF-MW2	11/21/2013	*Well Dry*																									
DLF-MW2	2/18/2014	*Well Dry*																									
DLF-MW2	5/29/2014	*Well Dry*																									
DLF-MW2	8/13/2014	*Well Dry*																									
DLF-MW2	11/11/2014	*Well Dry*																									
DLF-MW2	2/16/2015	*Well Dry*																									
DLF-MW2	5/12/2015	*Well Dry*																									
DLF-MW2	8/20/2015	*Well Dry*																									
DLF-MW2	11/16/2015	*Well Dry*																									
DLF-MW2	2/22/2016	*Well Dry*																									
DLF-MW2	5/3/2016	*Well Dry*																									
DLF-MW2	8/9/2016	*Well Dry*																									
DLF-MW2	11/9/2016	*Well Dry*																									
DLF-MW2	3/29/2017	*Well Dry*																									
DLF-MW2	5/17/2017	*Well Dry*																									
DLF-MW2	8/22/2017	*Well Dry*																									
DLF-MW2	11/21/2017	*Well Dry*																									
DLF-MW2	2/6/2018	*Well Dry*																									
DLF-MW2	5/15/2018	*Well Dry*																									
DLF-MW2	8/7/2018	*Well Dry*																									
DLF-MW2	11/15/2018	*Well Dry*																									
DLF-MW2	2/14/2019	*Well Dry*																									
DLF-MW2	5/14/2019	*Well Dry*																									
DLF-MW2	8/13/2019	19.5	6.63	2.6	33	89.8	17	985	600	31		0.11J														30	E
DLF-MW2	11/20/2019	*Well Dry*																									
DLF-MW3	3/23/2004								483	20.4	<0.1		1.6	33.1	3.7	12.1	100.0	32.8	22.0		251.0	<0.1					
DLF-MW3	3/21/2013	*Well Dry*																									
DLF-MW3	5/16/2013	*Well Dry*																									

Table 4-6
Groundwater Quality

		-------Field Measurements-------																		----Alkalinity as CaCO3----						
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
DLF-MW3	8/14/2013	*Well Dry*																									
DLF-MW3	11/21/2013	*Well Dry*																									
DLF-MW3	2/18/2014	*Well Dry*																									
DLF-MW3	5/29/2014	*Well Dry*																									
DLF-MW3	8/13/2014	*Well Dry*																									
DLF-MW3	11/11/2014	*Well Dry*																									
DLF-MW3	2/16/2015	*Well Dry*																									
DLF-MW3	5/12/2015	*Well Dry*																									
DLF-MW3	8/20/2015	*Well Dry*																									
DLF-MW3	11/16/2015	*Well Dry*																									
DLF-MW3	2/22/2016	*Well Dry*																									
DLF-MW3	5/3/2016	*Well Dry*																									
DLF-MW3	8/9/2016	*Well Dry*																									
DLF-MW3	11/9/2016	*Well Dry*																									
DLF-MW3	3/29/2017	*Well Dry*																									
DLF-MW3	5/17/2017	*Well Dry*																									
DLF-MW3	8/22/2017	*Well Dry*																									
DLF-MW3	11/21/2017	*Well Dry*																									
DLF-MW3	2/6/2018	*Well Dry*																									
DLF-MW3	5/15/2018	*Well Dry*																									
DLF-MW3	8/7/2018	*Well Dry*																									
DLF-MW3	11/15/2018	*Well Dry*																									
DLF-MW3	2/14/2019	*Well Dry*																									
DLF-MW3	5/14/2019	*Well Dry*																									
DLF-MW3	8/13/2019	*Well Dry*																									
DLF-MW3	11/20/2019	*Well Dry*																									
DLF-MW4C	3/21/2013	19.8	8.20	2.6	29	140	400	812	380	8.1		0.063														26	
DLF-MW4C	5/16/2013	19.5	7.10	0.8	8	QM	>1,000	717	420	9.2		0.038J														18	
DLF-MW4C	8/14/2013	20.1	7.00	3.6	42	116	>1,000	737	440	9.1	<0.050	0.043J	0.50	31	2.5	11	94	31	20	2.2	260	<4.1	<4.1	260	-1.4	13	
DLF-MW4C	11/21/2013	17.7	7.27	5.8	61	97	345	683	410	9.5		0.018J														15	
DLF-MW4C	2/18/2014	16.1	7.38	6.7	69	16	812	740	410	9.2		<0.050														16	
DLF-MW4C	5/29/2014	22.0	8.03	2.4	27	121.8	897	611	380	8.8		0.050J														7	
DLF-MW4C	8/13/2014	*Well Dry*																									
DLF-MW4C	11/11/2014	*Well Dry*																									
DLF-MW4C	2/16/2015	22.7	7.91	6.0	72	-107	>1,000	649	290	9.8	<0.050	<0.10	0.39	29	2.3	7.6	64	33	25	0.21	130	<4.1	<4.1	130	3.9	4	
DLF-MW4C	5/12/2015	*Well Dry*																									
DLF-MW4C	8/20/2015	*Well Dry*																									
DLF-MW4C	11/16/2015	*Well Dry*																									

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
DLF-MW4C	2/22/2016	*Well Dry*																									
DLF-MW4C	5/3/2016	*Well Dry*																									
DLF-MW4C	8/9/2016	*Well Dry*																									
DLF-MW4C	11/9/2016	*Well Dry*																									
DLF-MW4C	3/29/2017	*Well Dry*																									
DLF-MW4C	5/17/2017	*Well Dry*																									
DLF-MW4C	8/22/2017	*Well Dry*																									
DLF-MW4C	11/21/2017	*Well Dry*																									
DLF-MW4C	2/6/2018	*Well Dry*																									
DLF-MW4C	5/15/2018	*Well Dry*																									
DLF-MW4C	8/7/2018	*Well Dry*																									
DLF-MW4C	11/15/2018	*Well Dry*																									
DLF-MW4C	2/14/2019	*Well Dry*																									
DLF-MW4C	5/14/2019	*Well Dry*																									
DLF-MW4A	8/13/2019	20.6	6.85	5.8	69	-1.7	16.7	995	640	37		<0.2														23	E
DLF-MW4B	11/20/2019	17.2	7.20	5.5	56	115.6	86	993	450	23		<0.20														22	
DLF-MW5B	3/21/2013	19.3	7.70	2.9	31	131	>1,000	590	380	12		0.041J														8	
DLF-MW5C	5/16/2013	22.5	7.90	0.9	10	QM	>1,000	QM	420	14		0.027J														11	
DLF-MW5C	8/14/2013	20.2	6.80	3.8	42	75	>1,000	684	370	12	<0.050	0.025J	0.41	37	2.6	8.9	87	22	25	1.8	230	<4.1	<4.1	230	0.7	4	
DLF-MW5C	11/21/2013	16.8	7.18	5.5	58	120	128	710	430	14		0.021J														4	
DLF-MW5C	2/18/2014	18.3	7.47	6.1	65	-88.7	166	692	410	14		<0.050														7	
DLF-MW5C	5/29/2014	20.8	7.49	5.0	56	95	>1,000	700	460	14		0.034J														2	
DLF-MW5C	8/13/2014	*Well Dry*																									
DLF-MW5C	11/11/2014	*Well Dry*																									
DLF-MW5C	2/16/2015	*Well Dry*																									
DLF-MW5C	5/12/2015	*Well Dry*																									
DLF-MW5C	8/20/2015	*Well Dry*																									
DLF-MW5C	11/16/2015	*Well Dry*																									
DLF-MW5C	2/22/2016	*Well Dry*																									
DLF-MW5C	5/3/2016	*Well Dry*																									
DLF-MW5C	8/9/2016	*Well Dry*																									
DLF-MW5C	11/9/2016	*Well Dry*																									
DLF-MW5C	3/29/2017	*Well Dry*																									
DLF-MW5C	5/17/2017	*Well Dry*																									
DLF-MW5C	8/22/2017	*Well Dry*																									
DLF-MW5C	11/21/2017	*Well Dry*																									
DLF-MW5C	2/6/2018	*Well Dry*																									
DLF-MW5C	5/15/2018	*Well Dry*																									

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
DLF-MW5C	8/7/2018	*Well Dry*																									
DLF-MW5C	11/15/2018	*Well Dry*																									
DLF-MW5C	2/14/2019	*Well Dry*																									
DLF-MW5A	5/14/2019	19.7	7.30	0.9	17	-36.3	46	307	200	6.3		<0.2														44	E
DLF-MW5B	8/13/2019	22.3	7.19	7.1	82	8.4	10.3	646	430	20		<0.2														45	E
DLF-MW5A	11/20/2019	17.9	7.53	5.5	56	111.9	>1,000	864	590	27		0.090J														26	E
DLF-MW6B	3/21/2013	20.5	7.39	4.1	60	QM	887	1,248	810	54		0.032J														14	
DLF-MW6B	5/16/2013	21.6	6.92	2.0	22	QM	>1,000	1,308	820	55		<0.050														9	
DLF-MW6C	8/14/2013	20.5	6.50	3.9	43	52	88	1,211	780	46	0.0048J	0.020J	0.38	54	2.9	20	160	33	47	0.10J	350	<8.2	<8.2	350	-0.6	30	
DLF-MW6B	11/21/2013	19.1	7.01	5.1	55	141	81	1,192	800	52		0.020J														12	
DLF-MW6B	2/18/2014	18.7	7.15	5.2	56	-68.7	127	1,208	780	51		<0.050														6	
DLF-MW6B	5/29/2014	20.4	6.97	5.8	64	51	240	1,291	920	56		<0.10														4	
DLF-MW6B	8/13/2014	21.6	6.88	5.9	74	236	214	1,088	780	52	<0.050	0.10	0.43	63	3.4	17	170	36	71	1.9	290	<8.2	<8.2	290	2.6	4	
DLF-MW6B	11/11/2014	17.4	7.37	2.5	27	156	588	1,276	880	54		0.046J														9	
DLF-MW6B	2/16/2015	22.8	6.95	4.7	56	-52.0	42	1,347	860	54	<0.050	<0.10	<0.20	68	3.4	21	180	33	85	<0.15	290	<8.2	<8.2	290	5.4	5	
DLF-MW6C	5/12/2015	19.9	6.98	5.7	62	102	21	1,382	830	55		0.030J														23	
DLF-MW6B	8/20/2015	21.0	6.88	4.7	54	246	50	1,046	700	45		0.047J														7	
DLF-MW6B	11/16/2015	19.5	6.68	5.5	60	60	6.0	1,498	980	63		0.033J														10	
DLF-MW6B	2/22/2016	18.8	7.07	5.4	58	129.0	85	1,472	940	60	<0.050	<0.10	<0.20	76	3.5	22	210	36	130	0.069J	340	<8.2	<8.2	340	2.9	5	
DLF-MW6C	5/3/2016	21.0	6.63	4.4	50	-6.0	32	1,356	830	53		<0.10														21	
DLF-MW6B	8/9/2016	20.0	6.73	3.6	44	-173.0	18	1,512	680	55		<0.10														5	
DLF-MW6B	11/9/2016	19.9	7.00	5.4	58	128	66	1,451	500	32		0.030J														14	
DLF-MW6D	3/29/2017	21.6	6.98	6.0	68	89.6	0.1	755	770	60	<0.050	0.029J	0.41	84	3.3	23	190	38	95	0.096J	340	<8.2	<8.2	340	3.3	65	
DLF-MW6D	5/17/2017	*Well Dry*																									
DLF-MW6A	8/22/2017	23.1	6.92	3.6	42	-194.3	174	1,270	750	49		0.027J														14	
DLF-MW6A	11/21/2017	19.6	7.04	5.3	52	-135	573	1,493	950	66		0.042J														19	
DLF-MW6B	2/6/2018	19.7	7.63	1.5	22	-56	66	1,219	900	66	0.016J	<0.10	<0.20	71	2.9	21	190	43	120	0.25	340	<8.2	<8.2	340	-2.9	11	
DLF-MW6C	5/15/2018	20.4	6.66	6.6	71	78.6	39.7	1,232	1,000	75		0.044J														26	
DLF-MW6B	8/7/2018	22.5	6.87	5.1	57	136	104	1,524	980	73		<0.10														11	
DLF-MW6C	11/15/2018	18.5	7.78	4.8	46	122	122	1,131	910	74		0.18														29	
DLF-MW6C	2/14/2019	17.2	6.95	5.4	64	167	310	910	800	59	<0.050	<0.20	0.28	74	3.2	20	170	34	88	0.60	310	<8.2	<8.2	310	0.8	10	
DLF-MW6C	5/14/2019	18.2	7.05	1.8	20	-50.9	36	334	230	7.7		<0.2														29	E
DLF-MW6C	8/13/2019	21.0	6.73	3.4	39	52.4	12.1	1,208	900	68		<0.2														31	E
DLF-MW6D	11/20/2019	18.6	7.20	2.2	23	133.4	279	1,452	900	69		<0.20														80	
ELK-MW1	3/19/2013	19.8	7.20	3.2	35	170	800	QM	1,300	65		<0.050														24	
ELK-MW1	5/14/2013	20.1	6.86	3.7	42	QM	58	1,790	1,300	59		0.025J														18	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ELK-MW1	8/16/2013	*Well Dry*																									
ELK-MW1	11/20/2013	19.2	6.50	2.5	28	53	180	1,790	1,300	57		<0.050														10	
ELK-MW1	2/20/2014	15.4	7.23	4.3	45	184	83	1,747	1,200	58		<0.050														6	
ELK-MW1	5/28/2014	*Well Dry*																									
ELK-MW1	8/19/2014	*Well Dry*																									
ELK-MW1	11/14/2014	*Well Dry*																									
ELK-MW1	2/17/2015	*Well Dry*																									
ELK-MW1	5/14/2015	*Well Dry*																									
ELK-MW1	8/19/2015	*Well Dry*																									
ELK-MW1	11/17/2015	*Well Dry*																									
ELK-MW1	2/23/2016	*Well Dry*																									
ELK-MW1	5/4/2016	*Well Dry*																									
ELK-MW1	8/9/2016	*Well Dry*																									
ELK-MW1	11/9/2016	*Well Dry*																									
ELK-MW1	3/22/2017	*Well Dry*																									
ELK-MW1	5/18/2017	*Well Dry*																									
ELK-MW1	8/24/2017	*Well Dry*																									
ELK-MW1	11/28/2017	*Well Dry*																									
ELK-MW1	2/22/2018	*Well Dry*																									
ELK-MW1	5/11/2018	*Well Dry*																									
ELK-MW1	8/7/2018	*Well Dry*																									
ELK-MW1	11/15/2018	*Well Dry*																									
ELK-MW1	3/13/2019	*Well Dry*																									
ELK-MW1	5/16/2019	*Well Dry*																									
ELK-MW1	8/15/2019	*Well Dry*																									
ELK-MW1	11/22/2019	*Well Dry*																									
ELK-MW2B	3/19/2013	20.0	7.50	3.3	36	144	>1,000	QM	1,200	57		<0.050														16	
ELK-MW2B	5/14/2013	20.3	7.19	4.2	47	QM	74	1,415	980	47		0.023J														15	
ELK-MW2B	8/16/2013	19.7	6.80	6.6	73	55	>1,000	1,507	1,000	52	<0.050	0.030J	1.2	140	5.1	50	120	98	92	16	380	<8.2	<8.2	380	-0.5	3	
ELK-MW2B	11/20/2013	19.8	6.49	2.3	26	64	520	1,612	1,100	61		0.024J														10	
ELK-MW2B	2/20/2014	*Well Dry*																									
ELK-MW2B	5/28/2014	*Well Dry*																									
ELK-MW2B	8/19/2014	*Well Dry*																									
ELK-MW2B	11/14/2014	*Well Dry*																									
ELK-MW2B	2/17/2015	*Well Dry*																									
ELK-MW2B	5/14/2015	*Well Dry*																									
ELK-MW2B	8/19/2015	*Well Dry*																									
ELK-MW2B	11/17/2015	*Well Dry*																									

Table 4-6
Groundwater Quality

Well	Date	-------Field Measurements------- T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	----Alkalinity as CaCO3---- Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ELK-MW2B	2/23/2016	*Well Dry*																									
ELK-MW2B	5/4/2016	*Well Dry*																									
ELK-MW2B	8/9/2016	*Well Dry*																									
ELK-MW2B	11/9/2016	*Well Dry*																									
ELK-MW2B	3/22/2017	*Well Dry*																									
ELK-MW2B	5/18/2017	*Well Dry*																									
ELK-MW2B	8/24/2017	*Well Dry*																									
ELK-MW2B	11/28/2017	*Well Dry*																									
ELK-MW2B	2/22/2018	*Well Dry*																									
ELK-MW2B	5/11/2018	*Well Dry*																									
ELK-MW2B	8/7/2018	*Well Dry*																									
ELK-MW2B	11/15/2018	*Well Dry*																									
ELK-MW2B	3/13/2019	*Well Dry*																									
ELK-MW2B	5/16/2019	*Well Dry*																									
ELK-MW2B	8/15/2019	*Well Dry*																									
ELK-MW2B	11/22/2019	*Well Dry*																									
ELK-MW3B	3/19/2013	21.5	9.77	3.4	39	QM	>1,000	1,814	1,200	13		<0.050														22	
ELK-MW3B	5/14/2013	22.7	6.90	1.6	19	QM	511	1,703	1,300	13		0.027J														15	
ELK-MW3B	8/16/2013	*Well Dry*																									
ELK-MW3B	11/20/2013	*Well Dry*																									
ELK-MW3B	2/20/2014	*Well Dry*																									
ELK-MW3B	5/28/2014	*Well Dry*																									
ELK-MW3B	8/19/2014	*Well Dry*																									
ELK-MW3B	11/14/2014	*Well Dry*																									
ELK-MW3B	2/17/2015	*Well Dry*																									
ELK-MW3B	5/14/2015	*Well Dry*																									
ELK-MW3B	8/19/2015	*Well Dry*																									
ELK-MW3B	11/17/2015	*Well Dry*																									
ELK-MW3B	2/23/2016	*Well Dry*																									
ELK-MW3B	5/4/2016	*Well Dry*																									
ELK-MW3B	8/9/2016	*Well Dry*																									
ELK-MW3B	11/9/2016	*Well Dry*																									
ELK-MW3B	3/22/2017	*Well Dry*																									
ELK-MW3B	5/18/2017	*Well Dry*																									
ELK-MW3B	8/24/2017	*Well Dry*																									
ELK-MW3B	11/28/2017	*Well Dry*																									
ELK-MW3B	2/22/2018	*Well Dry*																									
ELK-MW3B	5/11/2018	*Well Dry*																									

Table 4-6
Groundwater Quality

		-------Field Measurements-------																	----Alkalinity as CaCO3----						
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ELK-MW3B	8/7/2018	*Well Dry*																									
ELK-MW3B	11/15/2018	*Well Dry*																									
ELK-MW3B	3/13/2019	*Well Dry*																									
ELK-MW3B	5/16/2019	*Well Dry*																									
ELK-MW3B	8/15/2019	*Well Dry*																									
ELK-MW3B	11/22/2019	*Well Dry*																									
ELK-MW4	3/19/2013	*Well Dry*																									
ELK-MW4	5/14/2013	*Well Dry*																									
ELK-MW4	8/16/2013	*Well Dry*																									
ELK-MW4	11/20/2013	*Well Dry*																									
ELK-MW4	2/20/2014	*Well Dry*																									
ELK-MW4	5/28/2014	*Well Dry*																									
ELK-MW4	8/19/2014	*Well Dry*																									
ELK-MW4	11/14/2014	*Well Dry*																									
ELK-MW4	2/17/2015	*Well Dry*																									
ELK-MW4	5/14/2015	*Well Dry*																									
ELK-MW4	8/19/2015	*Well Dry*																									
ELK-MW4	11/17/2015	*Well Dry*																									
ELK-MW4	2/23/2016	*Well Dry*																									
ELK-MW4	5/4/2016	*Well Dry*																									
ELK-MW4	8/9/2016	*Well Dry*																									
ELK-MW4	11/9/2016	*Well Dry*																									
ELK-MW4	3/22/2017	*Well Dry*																									
ELK-MW4	5/18/2017	*Well Dry*																									
ELK-MW4	8/24/2017	*Well Dry*																									
ELK-MW4	11/28/2017	*Well Dry*																									
ELK-MW4	2/22/2018	*Well Dry*																									
ELK-MW4	5/11/2018	*Well Dry*																									
ELK-MW4	8/7/2018	*Well Dry*																									
ELK-MW4	11/15/2018	*Well Dry*																									
ELK-MW4	3/13/2019	*Well Dry*																									
ELK-MW4	5/16/2019	*Well Dry*																									
ELK-MW4	8/15/2019	*Well Dry*																									
ELK-MW4	11/22/2019	*Well Dry*																									
ZZI-MW1A	3/22/2013	20.1	7.90	2.4	26	-30	200	990	490	2.0		0.034J														4	
ZZI-MW1C	5/17/2013	19.4	8.30	0.8	9	QM	>1,000	278	200	2.0		0.037J														22	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ZZI-MW1C	8/15/2013	20.9	7.40	1.6	18	45	>1,000	413	300	1.7	0.031J	0.052	<0.20	92	0.18J	1.8	10	16	17	0.17	170	<4.1	<4.1	170	3.6	18	
ZZI-MW1C	11/20/2013	19.9	7.41	0.2	6	-3	334	874	710	16		0.021J														16	
ZZI-MW1C	2/19/2014	20.1	8.24	3.9	43	5	38	507	330	2.3		<0.050														16	
ZZI-MW1A	5/28/2014	21.2	6.85	6.8	70	-107.5	>1,000	2,706	1,900	0.24		50														4	
ZZI-MW1A	8/19/2014	25.1	6.55	4.9	59	-59	>1,000	2,490	1,300	0.98	0.038J	25	31	320	68	65	160	220	100	27	1,100	<8.2	<8.2	1,100	-0.7	3	
ZZI-MW1C	11/12/2014	23.4	6.87	3.0	32	-54.3	>1,000	QM	330	1.7		<0.10														9	
ZZI-MW1C	2/24/2015	20.4	8.35	1.6	18	70	227	401	240	1.5	0.011J	<0.1	0.12J	73	0.27J	1.2	6.6	7.1	7.6	1.5	150	<4.1	<4.1	150	1.4	9	
ZZI-MW1C	5/13/2015	19.6	7.43	1.2	14	35	319	886	280	1.9*		0.028J														8	H
ZZI-MW1C	8/25/2015	22.5	7.88	3.8	45	243	>1,000	403	280	1.8		<0.10														6	
ZZI-MW1C	11/17/2015	19.0	7.86	1.6	17	-153	109	331	250	1.5		0.044J														4	
ZZI-MW1C	2/23/2016	19.0	8.30	1.6	18	52	118	340	270	1.6	<0.050	<0.10	<0.20	70	0.27J	1.3	7.2	9.6	9.1	0.50	150	<4.1	<4.1	150	-1	5	
ZZI-MW1D	5/11/2016	20.1	7.81	3.8	44	240	322	402	300	0.73		0.028J														13	
ZZI-MW1D	8/10/2016	20.2	7.90	2.8	30	-104	17	469	250	1.3		<0.10														11	
ZZI-MW1D	11/10/2016	19.1	8.12	1.6	18	39	78	509	250	1.2		0.042J														9	
ZZI-MW1D	3/30/2017	*Well Dry*																									
ZZI-MW1D	5/18/2017	*Well Dry*																									
ZZI-MW1D	8/24/2017	*Well Dry*																									
ZZI-MW1A	11/28/2017	*Well Not Accessible*																									
ZZI-MW1C	2/22/2018	20.7	7.91	2.6	28	35	21	671	280	1.9	0.011J	0.051J	0.17J	78	0.69J	1.3	9.7	12	13	0.51	160	<4.1	<4.1	160	0.6	21	
ZZI-MW1C	5/29/2018	20.9	8.39	1.2	13	17.6	128.3	839	440	3.0		0.030J														21	
ZZI-MW1A	8/8/2018	*Well Not Accessible*																									
ZZI-MW1D	11/27/2018	*Well Not Accessible*																									
ZZI-MW1A	3/28/2019	*Field Error-No attempt to sample deeper wells*																									
ZZI-MW1D	5/22/2019	19.5	8.00	1.6	19	71	81	451	290	1.7		0.076J														30	E
ZZI-MW1C	8/14/2019	20.4	7.83	0.6	7	-31.9	22.5	730	400	2.8		<0.2														21	
ZZI-MW1D	11/21/2019	19.0	8.31	3.4	35	110.8	138	712	410	2.9		<0.20														33	
ZZI-MW2A	3/22/2013	20.3	8.10	0.8	9	-1.5	100	1,570	850	9.5		0.022J														5	
ZZI-MW2C	5/17/2013	20.0	7.60	0.7	7	QM	>1,000	1,100	700	8.7		0.036J														24	
ZZI-MW2C	8/15/2013	21.2	7.11	3.7	44	7	38	1,087	690	9.6	0.40	0.047J	0.30	180	0.47J	11	52	60	61	0.22	380	<8.2	<8.2	380	0.3	20	
ZZI-MW2C	11/20/2013	20.2	7.31	0.3	6	-7	311	849	450	5.1		<0.050														19	
ZZI-MW2C	2/19/2014	18.6	7.94	2.0	22	-26	40	679	400	3.5		<0.050														19	
ZZI-MW2A	5/27/2014	22.7	6.75	5.6	66	69	224	2,881	1,900	28		2.5														5	
ZZI-MW2A	8/19/2014	21.1	6.39	1.8	21	139	175	2,533	1,600	32	0.019J	3.2	5.4	420	35	55	140	210	120	0.42	1,000	<8.2	<8.2	1,000	0.3	6	
ZZI-MW2A	11/12/2014	21.1	6.71	3.0	30	164	140	2,576	1,600	32		2.9														6	
ZZI-MW2A	2/24/2015	19.5	6.83	1.7	19	-22	>1,000	2,942	1,600	26	<0.05	2.6	4.2	380	32	62	120	190	100	3.9	970	<8.2	<8.2	970	-0.3	5	
ZZI-MW2A	5/13/2015	21.0	6.81	1.2	13	-128	342	2,698	1,700	22*		2.1														5	H
ZZI-MW2A	8/25/2015	22.1	6.87	3.0	35	266	249	2,637	1,500	22		3.3														6	
ZZI-MW2A	11/17/2015	20.1	6.68	1.5	17	-119	192	2,240	1,600	26		4.2														5	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ZZI-MW2A	2/23/2016	21.5	6.83	1.2	13	162	>1,000	2,610	1,500	20	<0.050	3.8	5.3	340	38	66	160	210	100	0.46	1,000	<8.2	<8.2	1,000	0	5	
ZZI-MW2A	5/11/2016	19.2	6.85	3.0	35	253	304	2,637	1,400	15		2.0														5	
ZZI-MW2A	8/10/2016	22.0	6.74	1.8	20	-116	105	3,132	1,800	23		4.2														5	
ZZI-MW2A	11/10/2016	20.6	6.66	1.2	12	146	>1,000	2,546	1,600	20		4.7														6	
ZZI-MW2A	3/30/2017	21.4	6.71	1.2	14	112.5	433	2,468	1,800	25	<0.050	7.2	7.9	390	42	70	160	200	100	2.0	1,000	<8.2	<8.2	1,000	4.4	5	
ZZI-MW2D	5/18/2017	19.8	7.71	3.6	41	9	113	421	290	16		0.046J														18	
ZZI-MW2C	8/24/2017	20.9	8.20	0.8	9	-9.1	36	308	220	0.66		0.026J														10	
ZZI-MW2C	11/28/2017	20.0	8.00	2.0	22	8	90	416	280	0.80		<0.1														15	
ZZI-MW2C	2/22/2018	19.5	7.66	2.3	25	88	21	681	370	1.4	0.083	0.035J	<0.20	93	0.36J	2.2	16	31	37	0.16	160	<4.1	<4.1	160	0.8	24	
ZZI-MW2C	5/29/2018	21.2	7.81	2.1	24	47.2	186	1,257	550	3.7		<0.10														23	
ZZI-MW2C	8/8/2018	22.7	6.68	1.0	13	137	89	QM	630	3.9		<0.10														21	
ZZI-MW2D	11/27/2018	19.7	8.04	2.0	17	34.5	79	388.4	280	1.8		<0.20														35	
ZZI-MW2D	3/28/2019	16.5	7.64	3.6	37	69	296	401	240	1.8	0.11	<0.20	0.20	61	0.24J	1.3	8.2	11	14	0.24	130	<4.1	<4.1	130	-2.6	40	E
ZZI-MW2C	5/22/2019	19.8	8.69	1.6	17	-45.4	23	332	240	1.7		<0.2														22	E
ZZI-MW2C	8/14/2019	21.5	7.71	0.9	10	-69.7	19.3	358	250	1.6		<0.2														24	
ZZI-MW2C	11/21/2019	21.7	8.71	2.8	32	70.5	178	340.7	220	1.3		<0.20														25	
ZZI-MW3A	3/22/2013	18.4	7.10	1.2	13	-105	>1,000	QM	1,900	<0.50		210														1	D
ZZI-MW3B	5/17/2013	19.8	7.40	0.8	8	QM	>1,000	1,300	840	17		<0.050														25	
ZZI-MW3B	8/15/2013	21.0	7.06	1.4	16	20	40	1,288	840	17	0.48	0.036J	0.41	220	0.52J	12	67	75	74	0.066J	440	<8.2	<8.2	440	0.8	21	
ZZI-MW3B	11/20/2013	19.7	7.22	0.2	3	-20	221	1,262	820	17		0.024J														14	
ZZI-MW3A	2/19/2014	17.8	7.20	3.7	40	-32.1	>1,000	3,318	1,700	<0.50		210														1	
ZZI-MW3A	5/27/2014	22.5	6.94	5.8	71	-139	>1,000	4,580	2,200	0.19J		260														1	
ZZI-MW3A	8/19/2014	24.2	6.46	1.4	16	-83	>1,000	4,501	2,100	<1.0	<0.25	300	290	260	460	74	110	220	3.8J	170	2,100	<8.2	<8.2	2,100	2.2	1	
ZZI-MW3A	11/12/2014	21.6	6.97	1.4	15	-37	>1,000	4,386	2,400	<0.10		210														1	
ZZI-MW3B	2/24/2015	19.3	7.25	1.5	16	-29	47	1,236	680	9.1	0.37	<0.1	0.35	190	0.53J	11	49	56	45	<0.15	400	<8.2	<8.2	400	1.9	12	
ZZI-MW3B	5/13/2015	19.9	7.51	3.2	36	183	51	905	550	7.1*		<0.10														11	H
ZZI-MW3B	8/25/2015	21.3	7.26	3.2	35	112	21	1,065	640	8.5		<0.10														8	
ZZI-MW3B	11/17/2015	19.2	7.30	1.2	12	-153	70.4	923	570	6.6		0.11														7	
ZZI-MW3B	2/23/2016	19.8	7.42	1.8	20	143	41	795	590	5.1	0.23	<0.10	0.23	130	0.45J	7.2	37	40	30	0.11J	320	<4.1	<4.1	320	-2.6	8	
ZZI-MW3B	5/10/2016	21.0	7.71	1.0	12	-146	65	658	430	3.8		0.031J														6	
ZZI-MW3B	8/10/2016	20.2	7.86	4.0	45	-82	27	763	430	4.0		<0.10														4	
ZZI-MW3B	11/10/2016	*Well Dry*																									
ZZI-MW3B	3/30/2017	*Well Dry*																									
ZZI-MW3B	5/18/2017	*Well Dry*																									
ZZI-MW3B	8/24/2017	21.0	7.09	1.6	18	-254.6	136	804	540	3.6		0.031J														8	
ZZI-MW3B	11/28/2017	19.6	7.61	1.3	14	15	11	557	380	5.0		0.024J														12	
ZZI-MW3B	2/22/2018	18.9	7.78	1.9	21	91	46	579	330	3.1	0.018J	0.020J	0.13J	82	0.26J	2.3	14	17	20	0.14J	160	<4.1	<4.1	160	1.6	22	
ZZI-MW3B	5/29/2018	20.8	7.38	1.5	16	65.4	20.7	833	450	8.0		0.026J														23	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ZZI-MW3B	8/8/2018	23.2	6.70	2.7	30	120	48	QM	580	9.3		0.034J														20	
ZZI-MW3B	11/27/2018	19.5	7.64	0.8	9	40.1	7.0	762	510	13		<0.20														20	
ZZI-MW3B	4/17/2019	17.0	7.28	3.9	44	123	59	798	520	13	0.030J	<0.20	0.30	130	0.23J	5.2	33	38	37	0.070J	260	<4.1	<4.1	260	-1.5	18	E
ZZI-MW3B	5/22/2019	19.4	8.01	1.2	13	-9.1	52	859	570	13		<0.2														22	E
ZZI-MW3B	8/14/2019	18.0	7.42	1.2	13	133.5	4.7	867	510	13		<0.2														23	
ZZI-MW3B	11/21/2019	19.8	8.24	2.5	21	60.2	42	941	510	13		<0.20														24	
ZZI-MW5C	3/22/2013	17.5	7.80	3.6	38	51	100	QM	1,400	65		1.6														13	
ZZI-MW5C	5/17/2013	18.3	7.50	1.2	12	QM	>1,000	2,072	1,400	60		0.045J														11	
ZZI-MW5C	8/15/2013	20.5	7.30	7.5	84	31	>1,000	2,167	1,400	68	0.0052J	0.040J	0.79	380	0.87J	21	100	140	130	2.4	530	<8.2	<8.2	530	2.4	6	
ZZI-MW5C	11/20/2013	18.7	7.17	1.9	21	49	151	2,168	1,400	70		<0.050														5	
ZZI-MW5C	2/19/2014	18.7	7.24	3.3	35	-17	44	2,356	1,400	69		0.24														5	
ZZI-MW5D	5/28/2014	18.6	7.26	6.7	71	190	214	1,904	1,400	63		0.20														6	
ZZI-MW5D	8/19/2014	20.2	7.03	4.3	50	-23	178	1,748	1,000	53	0.089	<0.10	0.60	360	0.85J	18	55	110	100	<0.15	510	<8.2	<8.2	510	1.9	10	
ZZI-MW5D	11/12/2014	19.0	7.96	9.9	75	131	163	1,844	1,200	71		0.21														8	
ZZI-MW5D	2/24/2015	18.6	8.00	7.0	75	-54	221	2,117	1,300	71	<0.05	<0.1	0.72	360	0.82J	19	33	110	100	0.13J	350	<8.2	<8.2	350	4.5	8	
ZZI-MW5D	5/13/2015	19.3	7.80	5.8	64	104	112	1,834	1,200	53*		<0.10														7	H
ZZI-MW5D	8/26/2015	20.3	7.31	3.9	48	278	186	1,784	1,100	30		<0.10														5	
ZZI-MW5D	11/17/2015	16.9	7.46	3.9	38	150	126	1,999	1,100	31		0.069J														3	
ZZI-MW5D	2/23/2016	18.4	7.97	6.5	69	110	130	1,695	1,100	51	<0.050	<0.10	0.66	320	0.60J	15	24	110	98	<0.15	400	<8.2	<8.2	400	-1.3	4	
ZZI-MW5D	5/10/2016	20.7	7.54	5.2	56	-108	322	1,600	1,100	46		0.035J														3	
ZZI-MW5D	8/10/2016	*Well Dry*																									
ZZI-MW5D	11/10/2016	*Well Dry*																									
ZZI-MW5D	3/30/2017	*Well Dry*																									
ZZI-MW5D	5/18/2017	*Well Dry*																									
ZZI-MW5D	8/24/2017	*Well Dry*																									
ZZI-MW5D	11/28/2017	18.5	7.34	2.1	21	6	76	1,700	1,200	50		0.020J														4	
ZZI-MW5D	2/22/2018	19.1	7.32	3.1	33	99	257	QM	1,100	40	<0.050	0.040J	0.61	320	0.65J	11	46	95	95	0.086J	470	<8.2	<8.2	470	0.7	10	
ZZI-MW5D	5/29/2018	19.9	7.43	1.0	10	70.7	30.5	QM	1,100	36		0.018J														14	
ZZI-MW5D	8/8/2018	22.9	7.48	1.9	21	66	104	QM	1,000	35		0.039J														6	
ZZI-MW5D	11/27/2018	19.1	7.29	3.3	34	41.4	51	1,721	1,000	49		<0.20														13	
ZZI-MW5C	3/28/2019	16.0	7.80	1.0	20	49	179	1,482	990	36	<0.050	<0.20	0.98	280	1.1	11	45	96	85	0.16	470	<8.2	<8.2	470	-3.4	7	E
ZZI-MW5D	5/22/2019	18.8	7.61	4.5	48	-7.7	42	1,632	1,100	46		0.097J														-45	E
ZZI-MW5D	8/14/2019	18.0	7.42	2.8	30	97.2	2.3	1,673	950	34		<0.2														15	
ZZI-MW5D	11/21/2019	20.2	8.06	5.8	59	41.4	NM	1,662	980	33		0.13J														16	
ZZI-MW6C	3/22/2013	18.0	7.90	2.5	25	44	100	QM	1,100	9.8		0.085														4	
ZZI-MW6D	5/17/2013	18.9	7.50	1.2	12	QM	>1,000	1,717	1,100	12		0.036J														24	
ZZI-MW6D	8/15/2013	19.6	7.13	0.8	10	30.5	87	1,753	1,100	10	0.030J	0.036J	0.41	350	0.63J	8.5	69	95	220	0.10J	540	<8.2	<8.2	540	1.6	19	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ZZI-MW6D	11/20/2013	19.1	7.32	0.5	7	49	203	1,761	1,200	12		<0.050														19	
ZZI-MW6D	2/19/2014	19.3	7.55	1.7	19	-76.9	112	1,785	1,200	15		0.032J														19	
ZZI-MW6D	5/28/2014	19.1	7.23	4.3	44	146	187	1,737	1,200	18		0.045J														16	
ZZI-MW6D	8/19/2014	20.7	6.70	5.2	59	-7	243	1,635	1,200	19	0.017J	<0.10	0.50	360	0.69J	7.6	62	110	170	<0.15	550	<8.2	<8.2	550	1	13	
ZZI-MW6D	11/12/2014	19.4	7.49	6.2	66	145	219	1,732	1,100	21		0.040J														13	
ZZI-MW6D	2/24/2015	19.3	7.26	4.3	47	-42	357	2,166	1,200	24	<0.05	<0.1	0.44	360	0.66J	9.1	42	110	160	0.68	560	<8.2	<8.2	560	-2.2	12	
ZZI-MW6D	5/13/2015	19.5	7.47	5.9	65	109	318	1,791	1,100	23*		<0.10														11	H
ZZI-MW6D	8/26/2015	20.3	7.46	4.4	49	270	82	1,648	1,000	18		<0.10														8	
ZZI-MW6D	11/17/2015	17.3	7.67	4.6	46	-13	67	1,955	1,000	17		0.053J														7	
ZZI-MW6D	2/23/2016	19.1	7.99	6.4	70	131	157	1,553	1,000	18	0.030J	0.030J	0.43	310	0.56J	6.5	19	120	150	0.25	400	<8.2	<8.2	400	-2.7	8	
ZZI-MW6D	5/10/2016	*Well Dry*																									
ZZI-MW6D	8/10/2016	20.4	7.70	6.2	68	-107	214	1,790	1,000	16		<0.10														3	
ZZI-MW6D	11/10/2016	*Well Dry*																									
ZZI-MW6D	3/30/2017	*Well Dry*																									
ZZI-MW6D	5/18/2017	*Well Dry*																									
ZZI-MW6D	8/24/2017	*Well Dry*																									
ZZI-MW6D	11/28/2017	20.9	7.47	4.4	51	41	>1,000	QM	1,300	42		<0.1														8	
ZZI-MW6D	2/22/2018	19.8	7.31	2.9	32	62	7.0	QM	1,400	46	<0.050	0.024J	1.1	380	0.91J	21	96	140	140	0.13J	680	<8.2	<8.2	680	-1.4	17	
ZZI-MW6D	5/29/2018	20.0	7.33	2.2	26	66.2	48.3	QM	1,300	42		<0.10														18	
ZZI-MW6D	8/8/2018	22.3	6.79	2.8	33	85	641	1,640	1,300	39		0.080J														14	
ZZI-MW6D	11/27/2018	19.2	7.00	2.2	24	52.8	67	2,130	1,200	38		<0.20														17	
ZZI-MW6D	4/17/2019	17.5	7.35	0.8	21	100	247	1,981	1,200	40	<0.050	0.086J	0.85	350	0.79J	20	86	140	150	<0.15	640	<8.2	<8.2	640	-3.5	17	E
ZZI-MW6D	5/22/2019	19.1	7.92	3.2	36	4.4	32	2,066	1,300	42		0.092J														19	E
ZZI-MW6D	8/14/2019	20.1	7.06	4.0	43	-6.6	15.8	2,020	1,200	39		<0.2														18	
ZZI-MW6D	11/21/2019	19.4	7.55	4.2	49	63.8	NM	2,062	1,300	35		<0.20														20	
ZZI-MW7B	3/22/2013	17.2	7.70	1.4	14	23	50	QM	1,100	15		0.067														8	
ZZI-MW7B	5/17/2013	19.4	7.60	0.9	10	QM	>1,000	1,619	1,000	16		0.039J														6	
ZZI-MW7C	8/15/2013	20.2	7.19	1.7	20	6	28	1,645	1,100	16	0.21	0.041J	0.36	360	0.57J	8.6	48	120	120	0.20	530	<8.2	<8.2	530	3.1	17	
ZZI-MW7C	11/20/2013	19.4	7.57	0.2	3	3	301	1,666	1,100	15		<0.050														16	
ZZI-MW7C	2/19/2014	19.3	7.77	1.3	14	-51.1	>1,000	1,644	1,000	13		0.018J														16	
ZZI-MW7C	5/27/2014	20.7	7.23	1.2	13	-73	165	1,621	1,000	13		0.21														13	
ZZI-MW7C	8/19/2014	20.9	7.17	2.6	33	-50	192	1,528	1,100	12	0.34	<0.10	0.57	360	0.57J	8.5	49	120	120	1.7	530	<8.2	<8.2	530	3.9	10	
ZZI-MW7C	11/12/2014	21.1	7.54	3.4	37	-13.4	221	1,675	1,100	13		0.038J														9	
ZZI-MW7C	2/24/2015	18.4	7.61	2.3	24	-74	111	1,966	1,100	13	0.24	0.041J	0.45	350	0.5J	9.3	38	110	110	0.83	560	<8.2	<8.2	560	1	9	
ZZI-MW7C	5/13/2015	19.7	7.62	2.4	27	104	288	1,731	1,100	13*		0.026J														8	H
ZZI-MW7C	8/25/2015	20.3	7.45	4.6	51	188	418	1,695	1,000	13		<0.10														5	
ZZI-MW7C	11/17/2015	17.7	7.55	1.8	18	-23	83	2,074	1,100	14		0.053J														4	
ZZI-MW7C	2/23/2016	18.4	7.58	3.3	36	87	124	1,640	1,000	14	0.14	<0.10	0.46	320	0.47J	8.6	46	110	100	<0.15	550	<8.2	<8.2	550	-0.8	5	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ZZI-MW7C	5/11/2016	19.7	7.57	1.5	16	-112	244	1,396	790	9.5		<0.10														3	
ZZI-MW7D	8/10/2016	20.1	7.35	2.5	28	-140	167	1,671	920	16		<0.10														14	
ZZI-MW7D	11/10/2016	18.2	7.56	3.3	36	89	559	1,642	840	7.4		0.030J														12	
ZZI-MW7D	3/30/2017	21.2	7.32	1.1	13	87.4	194	1,375	940	15	0.55	0.028J	0.42	300	0.74J	11	59	96	74	1.5	530	<8.2	<8.2	530	2.8	14	
ZZI-MW7D	5/18/2017	*Well Dry*																									
ZZI-MW7D	8/24/2017	21.2	7.60	1.9	21	-207.3	224	1,473	960	15		0.038J														17	
ZZI-MW7C	11/28/2017	19.3	7.60	2.7	27	3	33	1,468	970	10		0.023J														7	
ZZI-MW7D	2/22/2018	19.5	7.37	1.9	21	108	108	QM	910	20	0.53	0.043J	0.39	280	0.64J	7.4	50	93	83	0.61	470	<8.2	<8.2	470	0.2	30	
ZZI-MW7D	5/29/2018	20.5	7.79	0.9	9	54.2	100.8	QM	890	16		0.021J														26	
ZZI-MW7C	8/8/2018	23.0	7.17	5.1	55	105	765	1,340	880	16		<0.10														13	
ZZI-MW7D	11/27/2018	19.3	7.72	1.3	14	46.5	>1,000	1,141	700	12		<0.20														29	
ZZI-MW7C	3/28/2019	16.6	7.65	1.3	14	72	96	1,397	900	5.7	<0.050	0.051J	0.90	270	0.44J	5.7	32	95	81	1.5	510	<8.2	<8.2	510	-4.1	11	E
ZZI-MW7D	5/22/2019	19.3	8.24	1.4	15	-28.9	>1,000	1,049	670	13		0.070J														31	E
ZZI-MW7C	8/14/2019	18.0	7.56	0.8	9	100.0	4.5	1,500	880	7.5		<0.2														17	
ZZI-MW7D	11/21/2019	22.2	8.19	5.2	59	29.3	241	1,096	680	12		<0.20														33	
ZZI-MW9C	3/22/2013	18.1	7.80	0.7	8	-40	100	QM	820	28		0.032J														15	
ZZI-MW9C	5/17/2013	19.3	8.30	0.8	9	QM	>1,000	250	180	1.5		0.033J														12	
ZZI-MW9C	8/15/2013	21.1	7.38	2.5	30	-28	107	862	580	16	0.11	0.034J	0.29	130	0.42J	9.9	52	39	46	0.16	290	<4.1	<4.1	290	0.4	7	
ZZI-MW9C	11/20/2013	19.5	7.40	0.3	3	-41	96	859	590	16		<0.050														7	
ZZI-MW9C	2/19/2014	18.1	7.71	0.8	8	-75	37	1,075	650	19		0.029J														7	
ZZI-MW9C	5/27/2014	21.0	7.51	1.7	19	47	299	571	390	9.0		0.048J														5	
ZZI-MW9D	8/19/2014	20.3	7.44	1.8	20	120	109	447	340	7.0	0.12	<0.10	0.19J	100	0.42J	3.4	19	19	21	0.26	170	<4.1	<4.1	170	6.7	21	
ZZI-MW9D	11/12/2014	19.9	8.27	3.4	36	119	86	459	330	6.6		0.054J														20	
ZZI-MW9D	2/24/2015	18.0	7.87	1.1	12	287	97	490	290	5.6	0.089	0.037J	0.11J	78	0.23J	2.5	15	14	17	0.26	140	<4.1	<4.1	140	4.7	19	
ZZI-MW9D	5/13/2015	19.2	8.30	1.5	16	109	26	546	340	7.7*		0.027J														18	H
ZZI-MW9D	8/25/2015	20.9	7.56	4.8	55	267	38	191	220	3.1		<0.10														15	
ZZI-MW9D	11/17/2015	17.7	8.03	3.2	33	-37	48	327	190	1.6		0.056J														14	
ZZI-MW9D	2/23/2016	20.9	8.41	1.0	10	98	45	239	180	1.2	<0.050	<0.10	<0.20	47	0.25J	0.98	5.6	5.7	8.1	0.51	100	<4.1	<4.1	100	-0.4	15	
ZZI-MW9D	5/10/2016	20.2	8.01	1.8	25	-127	96	257	190	1.6		0.056J														13	
ZZI-MW9D	8/10/2016	20.1	7.83	3.1	35	-156	49	288	190	1.6		<0.10														11	
ZZI-MW9D	11/10/2016	20.0	8.43	0.9	10	99	>1,000	240	170	1.4		<0.10														9	
ZZI-MW9D	3/30/2017	20.0	8.04	1.0	11	22.9	13	342	280	5.3	0.026J	0.028J	<0.20	77	0.23J	2.4	14	15	17	0.31	130	6.1	<4.1	136.1	4.5	11	
ZZI-MW9D	5/18/2017	*Well Not Accessible*																									
ZZI-MW9D	8/24/2017	19.9	7.83	2.8	31	44.4	6.0	387	290	4.6		0.030J														19	
ZZI-MW9C	11/28/2017	21.7	6.13	1.1	17	-31	161	1,341	1,200	46		0.021J														8	
ZZI-MW9D	2/22/2018	19.4	6.66	4.6	49	156	77	QM	350	8.3	0.029J	0.031J	0.18J	95	0.33J	3.2	19	27	27	0.27	160	<4.1	<4.1	160	2.2	35	
ZZI-MW9C	5/29/2018	20.1	7.00	0.9	10	57.1	31.5	QM	600	17		0.028J														14	
ZZI-MW9C	8/8/2018	22.9	8.21	1.0	13	106	204	312	480	12		0.030J														13	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																		----Alkalinity as CaCO3----						
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ZZI-MW9D	11/27/2018	19.8	8.03	0.9	10	19.6	48	399.1	260	2.5		<0.20														30	
ZZI-MW9C	4/17/2019	17.5	7.47	4.4	50	125	>1,000	434	260	5.4	<0.050	0.066J	0.75	70	0.30J	3.1	16	20	20	8.0	140	<4.1	<4.1	140	-3.6	9	E
ZZI-MW9D	5/22/2019	19.7	8.40	1.0	11	101	NM	356	250	2.4		<0.2														32	E
ZZI-MW9C	8/14/2019	20.1	7.75	1.0	11	-48.5	7.4	438	290	5		<0.2														14	
ZZI-MW9D	11/21/2019	21.0	8.07	5.1	54	27.5	NM	386.4	240	2.2		<0.20														36	
HOL-MW1	7/28/2005								400	7.2	<0.05	<1	2.1	120.0	<2	1.6	22.0	43.0	60.0		160.0	<1					
HOL-MW1	12/14/2006								420	8.1	<0.1		<1	106.0	1.4	1.7	26.6	35.2	65.6		160.0	<1					
HOL-MW1	3/21/2013	20.1	7.76	5.5	65	QM	>1,000	810	500	12		0.018J														22	
HOL-MW1	5/16/2013	20.8	7.91	2.9	33	QM	>1,000	799	510	12		0.026J														19	
HOL-MW1	8/14/2013	21.2	7.33	6.2	70	61	>1,000	691	480	10	0.0038J	0.037J	0.28	120	0.38J	2.4	37	41	120	3.3	160	<4.1	<4.1	160	-2.7	14	
HOL-MW1	11/21/2013	20.2	7.91	3.4	39	189	>1,000	747	500	10		<0.050														13	
HOL-MW1	2/18/2014	19.8	8.04	5.3	58	-41.0	>1,000	759	510	11		0.022J														11	
HOL-MW1	5/29/2014	20.3	7.73	2.5	28	110.2	891	741	480	11		<0.10														8	
HOL-MW1	8/20/2014	21.1	7.49	5.6	63	117	>1,000	645	460	11	<0.050	0.052J	0.26	120	0.59J	2.5	36	42	99	<0.15	160	<4.1	<4.1	160	0.1	5	
HOL-MW1	11/11/2014	20.1	7.36	6.0	59	116.8	>1,000	870	430	9.5		0.044J														4	
HOL-MW1	2/18/2015	*Well Dry*																									
HOL-MW1	5/12/2015	*Well Dry*																									
HOL-MW1	8/26/2015	*Well Dry*																									
HOL-MW1	11/19/2015	*Well Dry*																									
HOL-MW1	2/25/2016	*Well Dry*																									
HOL-MW1	5/4/2016	*Well Dry*																									
HOL-MW1	8/11/2016	*Well Dry*																									
HOL-MW1	11/9/2016	*Well Dry*																									
HOL-MW1	3/28/2017	*Well Dry*																									
HOL-MW1	5/17/2017	*Well Dry*																									
HOL-MW1	8/22/2017	*Well Dry*																									
HOL-MW1	11/22/2017	*Well Dry*																									
HOL-MW1	2/7/2018	*Well Dry*																									
HOL-MW1	5/16/2018	*Well Dry*																									
HOL-MW1	8/6/2018	*Well Dry*																									
HOL-MW1	11/15/2018	*Well Dry*																									
HOL-MW1	3/14/2019	*Well Dry*																									
HOL-MW1	5/14/2019	*Well Dry*																									
HOL-MW1	8/14/2019	*Well Dry*																									
HOL-MW1	11/20/2019	19.0	7.53	4.9	52	153	99	1,249	530	12		<0.20														19	
HOL-MW2	7/28/2005								460	5.9	<0.05	<1	2.0	130.0	<2	2.9	25.0	60.0	88.0		160.0	<1					

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
HOL-MW2	12/14/2006								658	19.7	<0.1		<1	143.0	1.0	3.5	54.2	5.1	160.0		226.0	<1					
HOL-MW2	3/21/2013	20.1	7.90	4.1	68	QM	>1,000	1,054	650	17		0.032J														24	
HOL-MW2	5/16/2013	21.0	7.86	2.0	23	QM	>1,000	1,103	720	18		0.026J														23	
HOL-MW2	8/14/2013	21.3	7.24	4.6	55	20	318	751	640	15	<0.050	0.041J	0.19J	150	0.47J	3.4	52	74	180	0.61	140	<4.1	<4.1	140	-1.6	17	
HOL-MW2	11/21/2013	20.3	7.66	3.5	38	124	>1,000	1,040	750	18		0.019J														15	
HOL-MW2	2/18/2014	19.9	8.08	5.3	57	-21.8	>1,000	933	600	16		<0.050														12	
HOL-MW2	5/29/2014	21.4	7.95	1.8	22	133.5	>1,000	1,001	620	17		0.055J														11	
HOL-MW2	8/20/2014	*Well Dry*																									
HOL-MW2	11/11/2014	*Well Dry*																									
HOL-MW2	2/18/2015	*Well Dry*																									
HOL-MW2	5/12/2015	*Well Dry*																									
HOL-MW2	8/26/2015	*Well Dry*																									
HOL-MW2	11/19/2015	*Well Dry*																									
HOL-MW2	2/25/2016	*Well Dry*																									
HOL-MW2	5/4/2016	*Well Dry*																									
HOL-MW2	8/11/2016	*Well Dry*																									
HOL-MW2	11/9/2016	*Well Dry*																									
HOL-MW2	3/28/2017	*Well Dry*																									
HOL-MW2	5/17/2017	*Well Dry*																									
HOL-MW2	8/22/2017	*Well Dry*																									
HOL-MW2	11/22/2017	*Well Dry*																									
HOL-MW2	2/7/2018	*Well Dry*																									
HOL-MW2	5/16/2018	*Well Dry*																									
HOL-MW2	8/6/2018	*Well Dry*																									
HOL-MW2	11/15/2018	*Well Dry*																									
HOL-MW2	3/14/2019	*Well Dry*																									
HOL-MW2	5/14/2019	*Well Dry*																									
HOL-MW2	8/14/2019	*Well Dry*																									
HOL-MW2	11/20/2019	18.8	7.22	4.0	43	146	397	2,421	960	37		<0.20														20	
HOL-MW3	7/28/2005								430	4.7	<0.05	<1	3.9	110.0	<2	4.1	39.0	77.0	62.0		140.0	<1					
HOL-MW3	12/14/2006								403	14.2	<0.1		<1	72.0	0.8	3.3	51.8	11.5	45.1		185.0	<1					
HOL-MW3	3/21/2013	19.2	7.46	4.4	58	QM	>1,000	1,336	920	28		0.041J														21	
HOL-MW3	5/16/2013	21.0	7.24	2.1	23	QM	>1,000	1,324	920	28		0.021J														18	
HOL-MW3	8/14/2013	24.5	7.50	5.4	65	15	>1,000	1,266	850	26	<0.050	0.040J	4.2	120	0.48J	7.9	130	67	230	43	190	<8.2	<8.2	190	-5.1	11	
HOL-MW3	11/21/2013	17.6	7.56	4.6	56	93	>1,000	1,182	840	25		0.021J														10	
HOL-MW3	2/18/2014	*Well Dry*																									
HOL-MW3	5/29/2014	*Well Dry*																									
HOL-MW3	8/20/2014	*Well Dry*																									

Table 4-6
Groundwater Quality

		-------Field Measurements-------							----												----Alkalinity as CaCO3----				
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
HOL-MW3	11/11/2014	*Well Dry*																									
HOL-MW3	2/18/2015	*Well Dry*																									
HOL-MW3	5/12/2015	*Well Dry*																									
HOL-MW3	8/26/2015	*Well Dry*																									
HOL-MW3	11/19/2015	*Well Dry*																									
HOL-MW3	2/25/2016	*Well Dry*																									
HOL-MW3	5/4/2016	*Well Dry*																									
HOL-MW3	8/11/2016	*Well Dry*																									
HOL-MW3	11/9/2016	*Well Dry*																									
HOL-MW3	3/28/2017	*Well Dry*																									
HOL-MW3	5/17/2017	*Well Dry*																									
HOL-MW3	8/22/2017	*Well Dry*																									
HOL-MW3	11/22/2017	*Well Dry*																									
HOL-MW3	2/7/2018	*Well Dry*																									
HOL-MW3	5/16/2018	*Well Dry*																									
HOL-MW3	8/6/2018	*Well Dry*																									
HOL-MW3	11/15/2018	*Well Dry*																									
HOL-MW3	3/14/2019	*Well Dry*																									
HOL-MW3	5/14/2019	*Well Dry*																									
HOL-MW3	8/14/2019	*Well Dry*																									
HOL-MW3	11/20/2019	*Well Dry*																									
HYN-MW3	3/21/2013	18.5	6.72	4.6	61	QM	>1,000	1,833	1,400	57		0.033J														4	
HYN-MW3	5/16/2013	*Well Dry*																									
HYN-MW3	8/14/2013	*Well Dry*																									
HYN-MW3	11/21/2013	*Well Dry*																									
HYN-MW3	2/19/2014	*Well Dry*																									
HYN-MW3	5/29/2014	*Well Dry*																									
HYN-MW3	8/13/2014	*Well Dry*																									
HYN-MW3	11/13/2014	*Well Dry*																									
HYN-MW3	2/18/2015	*Well Dry*																									
HYN-MW3	5/12/2015	*Well Dry*																									
HYN-MW3	8/19/2015	*Well Dry*																									
HYN-MW3	11/16/2015	*Well Dry*																									
HYN-MW3	2/23/2016	*Well Dry*																									
HYN-MW3	5/4/2016	*Well Dry*																									
HYN-MW3	8/9/2016	*Well Dry*																									

Table 4-6
Groundwater Quality

		-------Field Measurements-------							----												----Alkalinity as CaCO3----				
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
HYN-MW3	11/9/2016	*Well Dry*																									
HYN-MW3	3/23/2017	*Well Dry*																									
HYN-MW3	5/16/2017	*Well Dry*																									
HYN-MW3	8/22/2017	*Well Dry*																									
HYN-MW3	11/28/2017	*Well Dry*																									
HYN-MW3	2/6/2018	*Well Dry*																									
HYN-MW3	5/16/2018	*Well Dry*																									
HYN-MW3	8/7/2018	*Well Dry*																									
HYN-MW3	11/15/2018	*Well Dry*																									
HYN-MW3	3/14/2019	*Well Dry*																									
HYN-MW3	5/15/2019	*Well Dry*																									
HYN-MW3	8/14/2019	*Well Dry*																									
HYN-MW3	11/20/2019	*Well Dry*																									
HYN-MW4	3/21/2013	18.3	7.34	4.7	52	QM	>1,000	553	450	27		0.031J														4	
HYN-MW4	5/16/2013	*Well Dry*																									
HYN-MW4	8/14/2013	*Well Dry*																									
HYN-MW4	11/21/2013	*Well Dry*																									
HYN-MW4	2/19/2014	*Well Dry*																									
HYN-MW4	5/29/2014	*Well Dry*																									
HYN-MW4	8/13/2014	*Well Dry*																									
HYN-MW4	11/13/2014	*Well Dry*																									
HYN-MW4	2/18/2015	*Well Dry*																									
HYN-MW4	5/12/2015	*Well Dry*																									
HYN-MW4	8/19/2015	*Well Dry*																									
HYN-MW4	11/16/2015	*Well Dry*																									
HYN-MW4	2/23/2016	*Well Dry*																									
HYN-MW4	5/4/2016	*Well Dry*																									
HYN-MW4	8/9/2016	*Well Dry*																									
HYN-MW4	11/9/2016	*Well Dry*																									
HYN-MW4	3/23/2017	*Well Dry*																									
HYN-MW4	5/16/2017	*Well Dry*																									
HYN-MW4	8/22/2017	*Well Dry*																									
HYN-MW4	11/28/2017	*Well Dry*																									
HYN-MW4	2/6/2018	*Well Dry*																									
HYN-MW4	5/16/2018	*Well Dry*																									
HYN-MW4	8/7/2018	*Well Dry*																									
HYN-MW4	11/15/2018	*Well Dry*																									
HYN-MW4	3/14/2019	*Well Dry*																									

Table 4-6
Groundwater Quality

Well	Date	-------Field Measurements------- T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	----Alkalinity as CaCO3---- Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
HYN-MW4	5/15/2019	*Well Dry*																									
HYN-MW4	8/14/2019	*Well Dry*																									
HYN-MW4	11/20/2019	*Well Dry*																									
HYN-MW5	3/21/2013	19.4	7.39	4.4	61	QM	>1,000	315	220	2.8		0.033J														6	
HYN-MW5	5/16/2013	21.1	7.32	4.0	45	QM	>1,000	325	390	2.8		0.023J														3	
HYN-MW5	8/14/2013	*Well Dry*																									
HYN-MW5	11/21/2013	*Well Dry*																									
HYN-MW5	2/19/2014	*Well Dry*																									
HYN-MW5	5/29/2014	*Well Dry*																									
HYN-MW5	8/13/2014	*Well Dry*																									
HYN-MW5	11/13/2014	*Well Dry*																									
HYN-MW5	2/18/2015	*Well Dry*																									
HYN-MW5	5/12/2015	*Well Dry*																									
HYN-MW5	8/19/2015	*Well Dry*																									
HYN-MW5	11/16/2015	*Well Dry*																									
HYN-MW5	2/23/2016	*Well Dry*																									
HYN-MW5	5/4/2016	*Well Dry*																									
HYN-MW5	8/9/2016	*Well Dry*																									
HYN-MW5	11/9/2016	*Well Dry*																									
HYN-MW5	3/23/2017	*Well Dry*																									
HYN-MW5	5/16/2017	*Well Dry*																									
HYN-MW5	8/22/2017	*Well Dry*																									
HYN-MW5	11/28/2017	*Well Dry*																									
HYN-MW5	2/6/2018	*Well Dry*																									
HYN-MW5	5/16/2018	*Well Dry*																									
HYN-MW5	8/7/2018	*Well Dry*																									
HYN-MW5	11/15/2018	*Well Dry*																									
HYN-MW5	3/14/2019	*Well Dry*																									
HYN-MW5	5/15/2019	*Well Dry*																									
HYN-MW5	8/14/2019	*Well Dry*																									
HYN-MW5	11/20/2019	*Well Dry*																									
JAD-MW1	1/20/2004									21.0	<0.4	<1.0															
JAD-MW1	12/21/2007									19.0																	
JAD-MW1	3/21/2013	18.5	7.10	2.5	27	214	>1,000	1,010	720	25		0.018J														11	
JAD-MW1	5/16/2013	18.7	6.90	1.0	11	-110	>1,000	1,247	900	47		<0.050														15	
JAD-MW1	8/14/2013	21.0	6.70	5.1	58	51	>1,000	1,159	790	23	0.0051J	0.030J	0.63	80	0.69J	17	140	34	85	3.8	370	<8.2	<8.2	370	0	5	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
JAD-MW1	11/22/2013	16.4	6.98	5.8	60	121	>1,000	1,147	760	24		0.018J														3	
JAD-MW1	2/18/2014	*Well Dry*																									
JAD-MW1	5/29/2014	*Well Dry*																									
JAD-MW1	8/13/2014	*Well Dry*																									
JAD-MW1	11/11/2014	*Well Dry*																									
JAD-MW1	2/18/2015	*Well Dry*																									
JAD-MW1	5/12/2015	*Well Dry*																									
JAD-MW1	8/20/2015	*Well Dry*																									
JAD-MW1	11/18/2015	*Well Dry*																									
JAD-MW1	2/23/2016	*Well Dry*																									
JAD-MW1	5/3/2016	*Well Dry*																									
JAD-MW1	8/24/2016	*Well Dry*																									
JAD-MW1	11/9/2016	*Well Dry*																									
JAD-MW1	3/23/2017	*Well Dry*																									
JAD-MW1	5/18/2017	*Well Dry*																									
JAD-MW1	8/22/2017	*Well Dry*																									
JAD-MW1	11/27/2017	*Well Dry*																									
JAD-MW1	2/6/2018	*Well Dry*																									
JAD-MW1	5/15/2018	*Well Dry*																									
JAD-MW1	8/8/2018	*Well Dry*																									
JAD-MW1	11/15/2018	*Well Dry*																									
JAD-MW1	3/14/2019	*Well Dry*																									
JAD-MW1	5/14/2019	*Well Dry*																									
JAD-MW1	8/13/2019	*Well Dry*																									
JAD-MW1	11/20/2019	*Well Dry*																									
JAD-MW2	1/20/2004									3.9	<0.4	<1.0															
JAD-MW2	12/21/2007									40.0																	
JAD-MW2	3/21/2013	19.5	6.80	1.3	14	205	>1,000	1,435	990	55		0.022J														9	
JAD-MW2	5/16/2013	19.6	6.80	0.9	10	-110	>1,000	1,630	1,000	52		<0.050														7	
JAD-MW2	8/14/2013	*Well Dry*																									
JAD-MW2	11/22/2013	*Well Dry*																									
JAD-MW2	2/18/2014	*Well Dry*																									
JAD-MW2	5/29/2014	*Well Dry*																									
JAD-MW2	8/13/2014	*Well Dry*																									
JAD-MW2	11/11/2014	*Well Dry*																									
JAD-MW2	2/18/2015	*Well Dry*																									
JAD-MW2	5/12/2015	*Well Dry*																									
JAD-MW2	8/20/2015	*Well Dry*																									

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
JAD-MW2	11/18/2015	*Well Dry*																									
JAD-MW2	2/23/2016	*Well Dry*																									
JAD-MW2	5/3/2016	*Well Dry*																									
JAD-MW2	8/24/2016	*Well Dry*																									
JAD-MW2	11/9/2016	*Well Dry*																									
JAD-MW2	3/23/2017	*Well Dry*																									
JAD-MW2	5/18/2017	*Well Dry*																									
JAD-MW2	8/22/2017	*Well Dry*																									
JAD-MW2	11/27/2017	*Well Dry*																									
JAD-MW2	2/6/2018	*Well Dry*																									
JAD-MW2	5/15/2018	*Well Dry*																									
JAD-MW2	8/8/2018	*Well Dry*																									
JAD-MW2	11/15/2018	*Well Dry*																									
JAD-MW2	3/14/2019	*Well Dry*																									
JAD-MW2	5/14/2019	*Well Dry*																									
JAD-MW2	8/13/2019	*Well Dry*																									
JAD-MW2	11/20/2019	*Well Dry*																									
JAD-MW3	1/20/2004									15.0	<0.4	<1.0															
JAD-MW3	12/21/2007									16.0																	
JAD-MW3	3/21/2013	18.4	7.30	3.0	31	183	250	1,104	900	48		0.019J														22	
JAD-MW3	5/16/2013	18.7	7.20	1.0	11	-105	>1,000	1,244	840	47		<0.050														22	
JAD-MW3	8/14/2013	19.2	6.60	7.3	80	43	>1,000	1,163	800	35	0.0059J	0.025J	<0.20	78	0.86J	18	140	25	99	0.57	330	<8.2	<8.2	330	0	16	
JAD-MW3	11/22/2013	17.2	7.08	6.0	61	125	684	1,089	770	28		0.020J														14	
JAD-MW3	2/18/2014	18.2	7.04	5.6	59	21	43	1,135	750	26		<0.050														12	
JAD-MW3	5/29/2014	19.5	7.03	4.6	51	44	327	1,059	780	23		<0.10														6	
JAD-MW3	8/13/2014	19.3	6.69	6.4	72	285	471	946	700	21	<0.050	0.033J	0.088J	78	0.94J	17	130	22	100	0.62	330	<8.2	<8.2	330	2.2	3	
JAD-MW3	11/11/2014	18.6	7.14	3.8	39	161.4	116	953	590	18		<0.10														0	
JAD-MW3	2/18/2015	*Well Dry*																									
JAD-MW3	5/12/2015	*Well Dry*																									
JAD-MW3	8/20/2015	*Well Dry*																									
JAD-MW3	11/18/2015	*Well Dry*																									
JAD-MW3	2/23/2016	*Well Dry*																									
JAD-MW3	5/3/2016	*Well Dry*																									
JAD-MW3	8/24/2016	*Well Dry*																									
JAD-MW3	11/9/2016	*Well Dry*																									
JAD-MW3	3/23/2017	*Well Dry*																									
JAD-MW3	5/18/2017	*Well Dry*																									
JAD-MW3	8/22/2017	*Well Dry*																									

Table 4-6
Groundwater Quality

		-------Field Measurements-------																		----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
JAD-MW3	11/27/2017	*Well Dry*																									
JAD-MW3	2/6/2018	*Well Dry*																									
JAD-MW3	5/15/2018	19.4	6.74	8.4	91	92.8	59.4	732	610	23		0.022J														4	
JAD-MW3	8/7/2018	*Well Dry*																									
JAD-MW3	11/15/2018	*Well Dry*																									
JAD-MW3	3/14/2019	*Well Dry*																									
JAD-MW3	5/14/2019	*Well Dry*																									
JAD-MW3	8/13/2019	19.2	7.03	6.5	65	-7.0	13.6	1,085	760	33		<0.2														10	
JAD-MW3	11/20/2019	*Well Dry*																									
JAD-MW4s	3/21/2013	18.9	7.40	2.8	29	188	>1,000	880	540	11		0.018J														8	
JAD-MW4s	5/16/2013	19.1	7.20	0.9	10	-94	>1,000	992	630	11		<0.050														7	
JAD-MW4d	8/14/2013	20.2	6.60	7.0	77	45	>1,000	996	600	10	<0.050	0.025J	0.17J	77	0.69J	14	120	22	51	0.59	410	<4.1	<4.1	410	-0.5	18	
JAD-MW4s	11/22/2013	15.3	7.20	6.9	71	122	>1,000	970	590	10		0.018J														1	
JAD-MW4d	2/18/2014	18.2	7.05	5.7	61	43		1,057	600	11		<0.050														14	
JAD-MW4d	5/29/2014	19.5	7.11	4.3	47	43	119	938	630	11		<0.10														11	
JAD-MW4d	8/13/2014	20.1	6.80	6.0	70	261	>1,000	872	540	11	<0.050	0.038J	<0.20	79	0.87J	15	130	21	50	0.16	400	<4.1	<4.1	400	3.5	9	
JAD-MW4d	11/11/2014	19.0	7.16	2.3	25	175	341	925	450	10		0.033J														6	
JAD-MW4d	2/18/2015	18.1	6.96	5.8	60	136	399	1,146	500	11	<0.050	<0.10	0.28	83	0.99J	15	120	19	47	<0.15	360	<4.1	<4.1	360	6.7	4	
JAD-MW4d	5/12/2015	19.1	7.07	5.9	64	140	36	987	540	11		<0.1														2	
JAD-MW4d	8/20/2015	*Well Dry*																									
JAD-MW4d	11/18/2015	*Well Dry*																									
JAD-MW4d	2/23/2016	*Well Dry*																									
JAD-MW4d	5/3/2016	*Well Dry*																									
JAD-MW4d	8/24/2016	*Well Dry*																									
JAD-MW4d	11/9/2016	*Well Dry*																									
JAD-MW4d	3/23/2017	*Well Dry*																									
JAD-MW4d	5/18/2017	*Well Dry*																									
JAD-MW4d	8/22/2017	*Well Dry*																									
JAD-MW4d	11/27/2017	23.6	6.63	0.8	19	28	281	1,371	170	0.90		0.073J														2	
JAD-MW4d	2/6/2018	20.3	7.73	2.7	35	117	165	650	530	11	0.017J	0.028J	0.28	67	0.74J	12	110	31	57	0.47	360	<4.1	<4.1	360	-3.3	6	
JAD-MW4d	5/15/2018	20.0	6.85	7.7	84	74.7	32.0	740	550	9.5		0.031J														7	
JAD-MW4d	8/8/2018	20.9	7.25	3.3	38	85	126	1,712	450	11		0.023J														6	
JAD-MW4d	11/26/2018	18.9	6.85	5.3	56	68.5	145	1,065	730	15		0.058J														8	
JAD-MW4d	3/14/2019	19.2	7.66	6.3	68	13.6	131	929	520	14	<0.050	0.063J	0.25	77	0.68J	10	100	25	54	<0.15	330	<4.1	<4.1	330	-1.3	8	
JAD-MW4d	5/14/2019	20.2	6.99	0.7	13	-64.4	96	1,203	560	12		<0.2														10	
JAD-MW4d	8/13/2019	20.1	7.25	6.3	70	-18.8	18.1	556	350	3.9		<0.2														0	
JAD-MW4d	11/20/2019	18.0	7.71	7.1	74	98.3	>1,000	756	410	5.9		<0.20														11	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----				
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
JAD-MW5s	3/21/2013	19.2	8.30	1.6	17	198	>1,000	1,122	800	15		0.026J														21	D
JAD-MW5s	5/16/2013	19.4	7.80	1.0	10	-89	>1,000	1,115	690	16		<0.050														20	
JAD-MW5s	8/14/2013	21.1	6.80	3.0	34	58	>1,000	1,063	660	15	<0.050	0.022J	0.64	130	2.5	13	79	34	78	8.1	360	<8.2	<8.2	360	-1.7	17	
JAD-MW5s	11/22/2013	15.3	7.54	4.0	41	127	>1,000	1,132	700	15		0.022J														15	
JAD-MW5s	2/18/2014	18.6	7.69	2.8	28	-60.3	>1,000	1,115	730	15		<0.050														13	
JAD-MW5s	5/29/2014	20.6	7.63	4.7	54	37	>1,000	1,154	750	15		<0.10														10	
JAD-MW5s	8/13/2014	23.2	7.28	4.2	50	240	>1,000	1,045	680	15	<0.050	<0.10	0.78	150	2.0	16	98	35	82	8.9	420	<8.2	<8.2	420	1.3	7	
JAD-MW5s	11/11/2014	21.6	7.28	7.7	79	226	>1,000	1,270	590	15		0.048J														5	
JAD-MW5s	2/18/2015	15.8	7.30	5.4	55	183.0	>1,000	1,434	700	15	<0.050	<0.10	1.0	130	7.3	19	100	32	83	9.5	420	<8.2	<8.2	420	0	3	
JAD-MW5s	5/12/2015	*Well Dry*																									
JAD-MW5s	8/20/2015	*Well Dry*																									
JAD-MW5s	11/18/2015	*Well Dry*																									
JAD-MW5s	2/23/2016	*Well Dry*																									
JAD-MW5s	5/3/2016	*Well Dry*																									
JAD-MW5s	8/24/2016	*Well Dry*																									
JAD-MW5s	11/9/2016	*Well Dry*																									
JAD-MW5s	3/23/2017	*Well Dry*																									
JAD-MW5s	5/18/2017	*Well Dry*																									
JAD-MW5s	8/22/2017	*Well Dry*																									
JAD-MW5s	11/27/2017	23.4	6.59	0.5	27	-21	71	1,267	190	0.89		0.031J														12	
JAD-MW5s	2/6/2018	20.1	7.62	2.5	26	-98	NM	1,657	600	14	0.018J	0.050J	1.5	74	1.9	18	120	36	93	16	350	<8.2	<8.2	350	-3.2	12	D
JAD-MW5s	5/15/2018	*Well Dry*																									
JAD-MW5s	8/8/2018	*Well Dry*																									
JAD-MW5s	11/26/2018	*Well Dry*																									
JAD-MW5s	3/14/2019	*Well Dry*																									
JAD-MW5s	5/14/2019	20.7	7.36	0.9	16	-57.4	102	1,091	630	15		<0.2														8	
JAD-MW5s	8/13/2019	*Well Dry*																									
JAD-MW5s	11/20/2019	18.5	7.52	5.4	51	99.8	NM	1,055	510	16		<0.20														13	
JAD-MW6s	3/21/2013	18.3	10.60	2.5	26	169	>1,000	557	450	14		0.032J														11	
JAD-MW6s	5/16/2013	18.4	8.50	1.0	11	-93	>1,000	796	510	18		0.030J														9	
JAD-MW6s	8/14/2013	20.3	6.60	5.1	56	45	>1,000	1,500	1,100	36	<0.050	0.022J	0.49	110	2.3	26	200	64	250	4.1	370	<8.2	<8.2	370	-0.4	6	
JAD-MW6s	11/22/2013	15.1	7.06	4.9	50	142	>1,000	1,497	940	35		0.024J														5	
JAD-MW6d	2/18/2014	18.4	6.97	5.6	60	-46.0	386	1,506	960	39		<0.050														24	
JAD-MW6d	5/29/2014	18.9	6.64	5.9	64	71	400	1,503	1,100	39		<0.10														19	
JAD-MW6d	8/13/2014	19.5	6.68	6.1	68	283	>1,000	1,331	1,000	35	<0.050	<0.10	0.13J	110	1.9	14	200	60	180	1.2	370	<8.2	<8.2	370	1.9	16	
JAD-MW6d	11/11/2014	18.9	6.91	6.2	67	273	212	1,442	820	35		0.062J														17	
JAD-MW6d	2/18/2015	17.5	6.79	5.8	61	232	252	1,784	900	36	0.037J	<0.10	0.33	130	1.9	13	190	64	160	0.35	360	<8.2	<8.2	360	4.3	14	
JAD-MW6d	5/12/2015	18.7	6.93	5.9	65	130	387	1,423	580	35		<0.1														11	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
JAD-MW6d	8/21/2015	18.5	6.91	6.2	66	205	>1,000	1,114	770	27		0.054J														7	
JAD-MW6d	11/18/2015	18.3	6.83	5.5	60	-91	589	1,160	700	26		<0.10														6	
JAD-MW6d	2/24/2016	15.2	6.83	3.4	34	210	>1,000	1,153	760	26	<0.050	0.037J	0.43	100	1.9	7.1	150	38	100	1.8	350	<8.2	<8.2	350	1.7	5	
JAD-MW6d	5/3/2016	20.2	7.26	6.2	74	-95	>1,000	1,206	640	27		<0.10														3	
JAD-MW6d	8/24/2016	*Well Dry*																									
JAD-MW6d	11/9/2016	*Well Dry*																									
JAD-MW6d	3/23/2017	*Well Dry*																									
JAD-MW6d	5/18/2017	*Well Dry*																									
JAD-MW6d	8/22/2017	20.0	6.98	8.7	96	87.3	14	1,180	740	27		<0.10														14	
JAD-MW6d	11/27/2017	22.3	6.95	0.9	15	-116	161	1,104	700	25		<0.1														19	
JAD-MW6d	2/6/2018	20.3	6.91	2.4	28	-93	116	1,279	800	21	0.016J	0.040J	0.31	88	1.7	4.7	140	37	110	0.29	290	<8.2	<8.2	290	2.8	22	
JAD-MW6d	5/15/2018	19.4	6.79	8.6	91	91.3	20.7	1,010	820	32		0.023J														23	
JAD-MW6d	8/8/2018	20.2	6.95	4.1	46	130	64	1,412	520	28		0.062J														18	
JAD-MW6d	11/26/2018	18.7	6.91	5.2	56	66.2	84	1,285	860	27		0.073J														14	
JAD-MW6d	3/14/2019	18.0	7.00	6.8	71	130.8	28.1	1,243	760	26	<0.050	0.057J	0.41	110	1.7	6.5	140	54	120	<0.15	310	<8.2	<8.2	310	1.1	14	
JAD-MW6d	5/14/2019	20.1	7.07	1.3	21	-32.0	160	812	620	18		<0.2														19	
JAD-MW6d	8/13/2019	17.0	7.19	5.5	61	196.0	3.3	1,597	720	25		<0.2														22	
JAD-MW6d	11/20/2019	18.4	7.63	6.8	75	90.2	NM	1,480	850	31		<0.20														24	
JAD-MW7s	3/21/2013	18.1	7.30	2.4	23	211	>1,000	1,283	980	18		0.022J														3	
JAD-MW7d	5/16/2013	18.6	6.90	1.2	12	-105	>1,000	1,422	1,000	18		0.026J														14	
JAD-MW7d	8/14/2013	19.3	6.20	5.9	65	60	349	1,446	1,000	19	0.0016J	0.023J	0.39	110	1.3	23	190	47	250	1.1	390	<8.2	<8.2	390	1.5	11	
JAD-MW7d	11/22/2013	16.9	6.95	5.6	58	145	>1,000	1,420	930	23		0.023J														10	
JAD-MW7d	2/18/2014	18.1	7.02	4.8	50	-46.8	516	1,399	930	24		0.036J														6	
JAD-MW7d	5/29/2014	*Well Dry*																									
JAD-MW7d	8/13/2014	*Well Dry*																									
JAD-MW7d	11/11/2014	*Well Dry*																									
JAD-MW7d	2/18/2015	*Well Dry*																									
JAD-MW7d	5/12/2015	*Well Dry*																									
JAD-MW7d	8/20/2015	*Well Dry*																									
JAD-MW7d	11/18/2015	*Well Dry*																									
JAD-MW7d	2/23/2016	*Well Dry*																									
JAD-MW7d	5/3/2016	*Well Dry*																									
JAD-MW7d	8/24/2016	*Well Dry*																									
JAD-MW7d	11/9/2016	*Well Dry*																									
JAD-MW7d	3/23/2017	*Well Dry*																									
JAD-MW7d	5/18/2017	*Well Dry*																									
JAD-MW7d	8/22/2017	*Well Dry*																									
JAD-MW7d	11/27/2017	*Well Dry*																									

Table 4-6
Groundwater Quality

		-------Field Measurements-------																		----Alkalinity as CaCO3----						
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
JAD-MW7d	2/6/2018	*Well Dry*																									
JAD-MW7d	5/15/2018	*Well Dry*																									
JAD-MW7d	8/8/2018	*Well Dry*																									
JAD-MW7d	11/26/2018	*Well Dry*																									
JAD-MW7d	3/14/2019	*Well Dry*																									
JAD-MW7d	5/14/2019	*Well Dry*																									
JAD-MW7d	8/13/2019	*Well Dry*																									
JAD-MW7d	11/20/2019	18.6	7.32	4.4	52	80.2	NM	1,357	740	26		<0.20														9	
LON-MW1B	3/20/2013	20.5	7.90	2.5	27	137	>1,000	QM	720	24		0.022J														17	
LON-MW1B	5/15/2013	20.8	7.28	2.3	25	QM	11	1,210	720	25		0.020J														16	
LON-MW1B	8/15/2013	20.6	6.80	2.8	30	49	>1,000	1,144	660	20	0.0036J	0.040J	0.56	120	0.54J	7.4	100	120	57	4.5	270	<8.2	<8.2	270	-3.1	11	
LON-MW1B	11/20/2013	20.2	7.25	3.3	36	78	261	1,132	740	24		0.025J														10	
LON-MW1B	2/19/2014	20.2	7.23	3.2	35	6	286	1,277	690	24		0.019J														9	
LON-MW1B	5/28/2014	20.1	7.41	6.2	69	106	142	1,115	750	25		0.047J														7	
LON-MW1B	8/14/2014	22.4	7.06	3.9	44	3	>1,000	978	620	23*	<0.050	<0.10	<0.20	120	1.1	7.0	97	100	51	<0.15	260	<8.2	<8.2	260	-0.3	4	H
LON-MW1C	11/12/2014	20.5	7.79	4.1	42	135	>1,000	1,116	670	19		0.039J														27	
LON-MW1C	2/20/2015	19.2	7.08	1.4	15	-6	150	1,118	580	17	<0.050	<0.10	0.27	120	0.62J	7.6	110	110	44	0.15	250	<8.2	<8.2	250	5.2	27	
LON-MW1C	5/13/2015	20.6	7.28	1.5	16	-34	36	1,154	670	18		<0.1														25	
LON-MW1C	8/25/2015	20.6	7.17	3.2	35	242	31	1,145	600	19		<0.10														22	
LON-MW1C	11/17/2015	19.5	7.19	2.0	21	-132	136	1,021	620	17		0.052J														20	
LON-MW1C	2/23/2016	19.6	7.18	2.4	26	148	60	811	470	11	0.15	<0.10	<0.20	92	0.41J	3.9	69	110	44	0.11J	160	<4.1	<4.1	160	-1.5	20	
LON-MW1C	5/5/2016	19.5	7.32	2.8	31	-85	94	1,078	570	18		0.11														19	
LON-MW1C	8/11/2016	20.0	6.69	3.4	37	-90	37	QM	600	17		<0.10														17	
LON-MW1C	11/10/2016	19.5	7.20	2.4	26	150	207	810	620	19		<0.10														15	
LON-MW1C	3/31/2017	19.1	7.54	1.0	11	103	19	648	460	10	0.17	0.040J	<0.20	90	0.43J	3.6	69	88	40	<0.15	160	<4.1	<4.1	160	2.9	16	
LON-MW1C	5/11/2017	20.2	7.52	7.1	74	-20.6	104	769	450	10		0.053J														17	
LON-MW1C	8/23/2017	21.5	7.50	2.5	28	-1.8	25	744	660	10		0.027J														22	
LON-MW1C	11/28/2017	20.1	7.48	1.0	11	7	29	819	500	10		0.020J														27	
LON-MW1C	2/22/2018	19.8	7.52	2.4	27	73	70	QM	520	13	<0.050	0.025J	0.17J	98	0.45J	4.4	72	100	41	0.096J	200	<4.1	<4.1	200	-2.2	29	
LON-MW1C	5/30/2018	20.8	6.65	1.3	14	117.8	21.0	QM	460	13		<0.10														28	
LON-MW1C	8/9/2018	21.0	7.03	1.2	13	191.3	20	865	590	14		<0.10														25	
LON-MW1C	11/27/2018	20.4	7.21	2.9	32	41.5	38	957	530	16		0.12J														24	
LON-MW1C	4/17/2019	15.7	7.53	2.5	36	80	89	916	490	14	<0.050	<0.20	0.14J	95	0.50J	4.5	75	87	38	<0.15	220	<4.1	<4.1	220	-2.3	25	
LON-MW1C	5/22/2019	19.6	7.18	2.3	24	182	238	689	410	11		<0.2														24	E
LON-MW1C	8/14/2019	20.0	7.44	0.8	9	83.1	6.3	775	480	12		<0.2														26	
LON-MW1C	11/22/2019	18.9	7.35	0.7	9	135	56	780	510	12		<0.20														27	E

Table 4-6
Groundwater Quality

		-------Field Measurements-------																		----Alkalinity as CaCO3----						
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
LON-MW2B	3/20/2013	20.5	6.80	1.1	12	153	100	QM	1,400	2.1		0.024J														9	
LON-MW2B	5/15/2013	21.2	6.42	1.1	12	QM	14	2,316	1,300	2.3		0.019J														8	
LON-MW2C	8/15/2013	21.1	6.40	3.0	34	133	94	1,583	940	5.9	0.051	0.064	0.54	190	0.87J	11	150	190	29	0.72	510	<8.2	<8.2	510	0.2	23	
LON-MW2B	11/20/2013	20.4	6.59	1.0	11	58	4.8	1,953	1,200	6.1		0.024J														3	
LON-MW2B	2/19/2014	20.3	6.57	0.9	10	-46		2,016	1,100	6.3		<0.050														3	
LON-MW2C	5/28/2014	20.3	6.67	2.4	27	87	71	1,531	880	9.1		0.066J														19	
LON-MW2C	8/14/2014	21.8	6.49	2.1	25	-18	15	1,529	820	10	0.031J	<0.10	0.18J	190	0.90J	12	160	200	33	<0.15	520	<8.2	<8.2	520	-0.5	16	
LON-MW2C	11/12/2014	21.0	6.80	3.1	31	124	19	1,699	900	9.7		0.036J														14	
LON-MW2C	2/20/2015	19.8	6.55	1.4	15	108	23	2,055	900	12	0.049J	0.038J	0.38	220	1.0	14	190	190	35	<0.15	580	<8.2	<8.2	580	4.3	14	
LON-MW2C	5/13/2015	20.9	6.83	4.3	48	16	28	1,748	1,000	12		<0.1														12	
LON-MW2C	8/25/2015	21.4	6.70	2.0	23	270	18	1,714	850	12		0.038J														9	
LON-MW2C	11/17/2015	20.4	6.76	4.6	51	-123	16	1,824	930	13		0.030J														8	
LON-MW2C	2/23/2016	20.7	6.95	1.7	18	117	36	1,664	940	8.7	0.098	0.034J	0.44	190	0.87J	12	170	210	33	<0.15	520	<8.2	<8.2	520	0.4	8	
LON-MW2C	5/5/2016	19.7	6.66	1.3	14	-60	74	1,889	870	11		0.043J														7	
LON-MW2C	8/11/2016	20.6	6.68	1.6	18	-135	27	QM	940	12		<0.10														5	
LON-MW2C	11/10/2016	*Well Dry*																									
LON-MW2C	3/31/2017	20.0	6.70	1.5	16	111	21	1,513	900	12	0.065	0.030J	0.25	210	0.81J	12	180	210	45	<0.15	500	<8.2	<8.2	500	3.8	4	
LON-MW2C	5/11/2017	*Well Dry*																									
LON-MW2C	8/23/2017	22.3	6.91	2.6	30	65.4	19	1,697	650	13		0.034J														9	
LON-MW2C	11/28/2017	19.6	7.05	2.3	25	35	20	1,488	860	13		<0.1														14	
LON-MW2C	2/22/2018	20.1	6.95	3.1	34	122	32	QM	840	12	0.067	0.025J	0.32	150	0.63J	9.0	130	190	49	<0.15	410	<8.2	<8.2	410	-5.7	16	
LON-MW2C	5/30/2018	21.8	6.68	1.8	21	100.2	12.1	QM	670	7.7		<0.10														15	
LON-MW2C	8/9/2018	21.0	6.55	0.8	9	176.7	15	1,280	770	7.8		<0.10														12	
LON-MW2C	11/27/2018	*Well Dry*																									
LON-MW2C	3/28/2019	15.1	6.75	2.0	23	65	710	1,219	700	6.4	<0.050	0.28	0.49	140	0.82J	8.8	130	230	51	0.48	320	<8.2	<8.2	320	-3.9	18	E
LON-MW2C	5/22/2019	19.6	7.00	3.4	39	57.3	88	1,200	690	6.4		<0.2														12	E
LON-MW2C	8/14/2019	*Well Dry*																									
LON-MW2C	11/22/2019	19.3	7.32	1.9	25	183	80	1,472	810	7.1		<0.20														14	
LON-MW3B	3/20/2013	20.8	7.60	1.6	18	136	125	QM	610	4.8		0.017J														32	
LON-MW3B	5/15/2013	21.8	7.40	0.9	87	QM	45	868	470	3.7		0.020J														32	
LON-MW3B	8/15/2013	20.9	7.00	0.7	9	35	>1,000	1,085	650	5.5	0.23	0.049J	1.8	130	0.51J	5.1	94	140	76	2.2	230	<8.2	<8.2	230	0.8	27	
LON-MW3B	11/20/2013	21.0	7.44	1.3	14	13	31	1,148	720	5.6		0.021J														26	
LON-MW3B	2/19/2014	20.1	7.44	1.6	18	-39.4	14	1,182	630	5.5		<0.050														26	
LON-MW3B	5/28/2014	20.7	7.40	5.0	56	97	74	1,281	820	5.8		0.035J														23	
LON-MW3B	8/14/2014	21.5	7.11	2.2	25	-8	127	1,160	760	6.0	0.26	<0.10	0.11J	160	0.66J	6.4	110	200	100	<0.15	250	<8.2	<8.2	250	-0.7	20	
LON-MW3B	11/12/2014	21.0	7.57	3.5	38	129	95	990	600	4.0		<0.10														18	
LON-MW3B	2/20/2015	20.0	7.18	1.5	17	9	33	1,331	720	5.9	0.24	<0.10	0.34	150	0.60J	7.3	120	190	100	<0.15	230	<8.2	<8.2	230	2.5	18	
LON-MW3B	5/13/2015	21.1	7.41	2.5	28	-1	44	1,375	820	6.2		<0.1														16	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
LON-MW3B	8/25/2015	21.5	7.26	3.6	41	232	81	1,328	760	8.1		<0.10														13	
LON-MW3B	11/17/2015	20.7	7.22	2.7	30	-149	89	1,480	860	10		0.068J														12	
LON-MW3B	2/23/2016	20.0	7.43	3.6	40	151	28	1,385	780	7.6	0.26	0.056J	0.44	140	0.58J	7.7	130	230	110	0.049J	220	<8.2	<8.2	220	-1.9	12	
LON-MW3B	5/5/2016	19.3	7.25	3.7	43	225	91	1,364	930	11*		0.025J														11	H
LON-MW3B	8/11/2016	20.7	7.15	3.4	37	-116	16	QM	880	12		<0.10														9	
LON-MW3C	11/10/2016	20.2	7.29	3.4	39	161	>1,000	1,290	880	11		<0.10														17	
LON-MW3B	3/31/2017	19.9	7.12	1.1	12	127	16	1,315	880	15	0.22	0.036J	0.23	180	0.62J	9.2	150	230	110	<0.15	270	<8.2	<8.2	270	2.6	8	
LON-MW3B	5/11/2017	22.7	7.25	3.6	40	166	26	1,297	910	15		0.030J														9	
LON-MW3B	8/23/2017	21.8	7.20	2.6	30	31.2	22	1,601	740	13		0.030J														14	
LON-MW3B	11/28/2017	19.6	7.27	2.3	25	26	29	1,661	1,000	12		<0.1														16	
LON-MW3B	2/22/2018	20.5	7.27	2.1	23	70	86	QM	840	10	0.030J	0.039J	0.66	140	1.2	7.2	110	190	120	0.68	250	<8.2	<8.2	250	-5.4	19	
LON-MW3B	5/30/2018	21.3	6.47	0.7	7	133.7	9.8	QM	850	11		0.018J														18	
LON-MW3B	8/9/2018	21.2	7.64	1.7	17	61	NM	QM	1,000	12		<0.10														16	
LON-MW3C	11/27/2018	*Well Dry*																									
LON-MW3C	3/28/2019	15.1	6.99	2.2	31	50	509	1,707	1,100	13	0.27	<0.20	0.75	180	0.76J	9.4	170	330	140	1.8	260	<8.2	<8.2	260	-3.7	32	
LON-MW3B	5/22/2019	20.0	7.79	7.0	76	-26.7	52	1,726	1,100	14		<0.2														16	E
LON-MW3B	8/14/2019	21.0	7.19	2.2	36	112.9	7.3	1,738	1,000	11		<0.2														18	
LON-MW3C	11/22/2019	19.1	7.29	2.4	29	160	107	1,511	940	11		0.084J														28	
LON-MW4B	3/20/2013	19.7	7.50	2.5	27	130	>1,000	QM	1,300	58		0.020J														18	
LON-MW4B	5/15/2013	21.2	6.93	2.0	24	QM	>1,000	2,008	1,200	52		0.022J														16	
LON-MW4C	8/15/2013	21.3	6.76	4.1	48	126	150	2,236	1,400	41	0.0087J	0.032J	0.66	290	1.0	17	170	310	130	2.9	390	<8.2	<8.2	390	0.6	37	
LON-MW4B	11/20/2013	19.1	7.09	1.6	18	127	102	2,002	1,300	44		0.063														10	
LON-MW4B	2/19/2014	19.9	7.04	2.3	26	-5	217	2,165	1,200	41		0.030J														10	
LON-MW4C	5/28/2014	20.1	6.88	1.5	17	79	429	2,300	1,500	51		0.037J														33	
LON-MW4C	8/14/2014	20.8	6.69	2.1	24	-26	136	2,167	1,400	50	0.012J	0.034J	<0.20	260	0.96J	19	240	330	200	<0.15	350	<8.2	<8.2	350	1.7	30	
LON-MW4C	11/12/2014	20.1	6.95	2.3	25	-18.9	163	1,802	1,400	56		0.033J														29	
LON-MW4C	2/20/2015	18.9	6.87	1.8	19	254	78	2,696	1,400	53	0.018J	<0.10	0.40	270	1.0	20	240	350	190	<0.15	340	<8.2	<8.2	340	2	29	
LON-MW4C	5/13/2015	20.0	7.03	3.0	33	13	21	2,321	1,700	53		0.031J														27	
LON-MW4C	8/25/2015	21.0	6.93	1.9	22	240	16	2,345	1,300	54		<0.10														24	
LON-MW4C	11/17/2015	18.2	6.97	1.8	18	-11	22	2,856	1,400	54		0.034J														22	
LON-MW4C	2/23/2016	21.3	7.19	2.4	27	117	17	2,357	1,300	51	0.015J	0.037J	0.31	240	0.88J	18	220	350	170	<0.15	350	<8.2	<8.2	350	-2.4	23	
LON-MW4C	5/5/2016	19.1	6.83	3.2	36	66	261	2,878	1,800	53*		0.025J														22	H
LON-MW4C	8/11/2016	19.9	6.87	3.0	31	-191	37	QM	1,500	53		0.030J														26	
LON-MW4D	11/10/2016	21.2	7.06	2.4	26	107	991	2,291	1,600	54		<0.10														28	
LON-MW4C	3/31/2017	19.0	6.87	2.0	22	119	24	2,024	1,500	50	0.019J	0.038J	0.15J	270	0.94J	20	240	330	190	<0.15	350	<8.2	<8.2	350	3.2	18	
LON-MW4C	5/11/2017	24.3	7.18	3.0	35	125.8	728	2,296	1,400	47		<0.10														18	
LON-MW4C	8/23/2017	23.3	7.23	2.6	30	122.8	>1,000	2,327	1,500	39		0.027J														19	
LON-MW4C	11/28/2017	19.8	7.32	2.0	22	31	85	2,688	1,700	55		<0.1														21	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
LON-MW4C	2/22/2018	19.5	7.11	3.3	36	147	233	QM	1,600	55	<0.050	0.045J	0.44	260	0.98J	17	230	400	160	0.16	400	<8.2	<8.2	400	-4.6	23	
LON-MW4C	5/30/2018	20.3	5.79	1.0	10	159.4	122.8	QM	1,700	52		<0.10														24	
LON-MW4D	8/9/2018	20.1	7.25	1.5	15	95	311	QM	1,700	53		0.051J														33	
LON-MW4D	11/27/2018	*Well Dry*																									
LON-MW4C	3/28/2019	15.3	6.92	3.8	43	81	209	2,206	1,400	57	<0.050	<0.20	0.33	250	1.1	20	200	390	110	<0.15	360	<8.2	<8.2	360	-4.3	32	E
LON-MW4D	5/22/2019	18.8	6.65	2.3	24	49.9	>1,000	2,193	1,300	49		<0.2														30	E
LON-MW4C	8/14/2019	20.0	7.10	3.9	46	77.0	6.8	2,465	1,500	51		<0.2														24	
LON-MW4D	11/22/2019	19.6	7.37	2.1	24	127.9	>1,000	2,523	1,600	53		<0.20														35	
LON-MW5B	3/20/2013	20.4	7.80	3.8	42	127	>1,000	QM	1,300	36		0.019J														7	
LON-MW5C	5/15/2013	20.8	7.05	2.3	29	QM	>1,000	2,407	1,400	28		0.023J														22	
LON-MW5C	8/15/2013	22.2	6.90	4.6	57	82	>1,000	2,100	1,300	27	0.0020J	0.030J	0.51	330	1.1	13	130	310	150	3.2	420	<8.2	<8.2	420	-0.8	17	
LON-MW5C	11/20/2013	18.3	7.18	3.6	39	126	144	2,105	1,400	31		0.019J														16	
LON-MW5C	2/19/2014	19.7	7.10	4.0	44	21	188	2,342	1,300	36		0.022J														16	
LON-MW5C	5/28/2014	20.0	6.99	2.2	24	65	223	1,985	1,200	33		0.035J														14	
LON-MW5C	8/14/2014	21.2	6.86	2.1	27	-8	46	1,827	1,200	33*	<0.050	0.040J	0.073J	280	0.99J	11	140	290	110	<0.15	380	<8.2	<8.2	380	-0.8	10	H
LON-MW5C	11/12/2014	21.1	6.83	2.4	25	-13.1	55	1,710	1,200	32		0.093J														10	
LON-MW5C	2/20/2015	18.4	6.95	2.3	25	261	272	2,466	1,300	30	<0.050	<0.10	0.32	320	1.0	14	170	360	120	0.16	390	<8.2	<8.2	390	2.1	12	
LON-MW5C	5/13/2015	19.8	7.02	3.6	41	28	108	2,314	1,700	33		0.24														9	
LON-MW5C	8/25/2015	20.9	7.15	2.9	33	249	641	2,067	1,200	34		<0.10														6	
LON-MW5C	11/17/2015	18.2	7.15	4.0	41	8	538	2,435	1,200	36		0.060J														5	
LON-MW5C	2/23/2016	21.1	7.34	5.3	58	138	202	2,140	1,300	37	<0.050	<0.10	0.28	280	0.82J	12	150	310	110	0.29	390	<8.2	<8.2	390	-1.9	6	
LON-MW5C	5/4/2016	20.1	6.94	3.6	40	-20	197	2,270	1,300	37		<0.10														5	
LON-MW5C	8/11/2016	20.2	6.88	4.1	47	-193	333	QM	1,400	35		<0.10														3	
LON-MW5C	11/10/2016	*Well Dry*																									
LON-MW5C	3/31/2017	*Well Dry*																									
LON-MW5C	5/11/2017	*Well Dry*																									
LON-MW5C	8/23/2017	*Well Dry*																									
LON-MW5C	11/28/2017	*Well Dry*																									
LON-MW5C	2/22/2018	*Well Dry*																									
LON-MW5C	5/30/2018	20.4	6.89	2.9	32	115.8	40.9	QM	1,100	32		<0.10														5	
LON-MW5C	8/9/2018	*Well Dry*																									
LON-MW5C	11/27/2018	*Well Dry*																									
LON-MW5C	3/28/2019	*Well Dry*																									
LON-MW5C	5/22/2019	*Well Dry*																									
LON-MW5C	8/14/2019	*Well Dry*																									
LON-MW5C	11/22/2019	*Well Dry*																									
LON-MW6B	3/20/2013	19.9	7.70	3.1	36	120	>1,000	QM	1,200	36		<0.050														3	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
LON-MW6C	5/15/2013	22.0	7.44	2.4	26	QM	>1,000	2,143	1,300	33		0.023J														21	
LON-MW6C	8/15/2013	25.5	7.00	5.3	63	32	>1,000	1,928	1,200	30	0.0038J	0.026J	0.63	210	1.3	15	170	340	69	10	300	<8.2	<8.2	300	-1.6	16	
LON-MW6C	11/20/2013	18.2	7.36	5.3	57	100	421	1,538	1,100	17		<0.050														15	
LON-MW6C	2/19/2014	19.8	7.30	1.3	15	-66	137	1,751	1,100	15		0.020J														15	
LON-MW6C	5/28/2014	19.7	7.38	1.5	16	52	461	1,450	1,100	15		0.041J														12	
LON-MW6C	8/14/2014	23.1	6.58	1.7	18	-138	>1,000	1,488	1,100	15*	0.012J	0.042J	0.094J	150	0.78J	8.6	140	350	59	0.56	120	<8.2	<8.2	120	-1.2	9	H
LON-MW6C	11/12/2014	*Well Dry*																									
LON-MW6C	2/20/2015	19.0	7.48	1.6	17	255	326	1,703	1,000	13	0.32	<0.10	0.43	160	0.81J	8.7	140	330	57	0.71	130	<8.2	<8.2	130	2.1	10	
LON-MW6C	5/13/2015	20.0	7.53	2.0	23	37	204	1,526	940	15		0.027J														8	
LON-MW6C	8/25/2015	21.3	7.36	5.4	61	237	>1,000	1,556	920	14		<0.10														5	
LON-MW6C	11/17/2015	18.1	7.55	2.9	30	-27	67	1,879	940	13		0.070J														4	
LON-MW6C	2/23/2016	19.9	7.94	4.3	46	132	485	1,477	980	13	0.34	0.027J	0.32	140	0.64J	7.9	130	320	52	0.80	140	<8.2	<8.2	140	-2.4	6	
LON-MW6C	5/4/2016	19.9	7.33	2.1	23	148	115	1,518	1,100	13		0.033J														5	
LON-MW6C	8/11/2016	*Well Dry*																									
LON-MW6C	11/10/2016	*Well Dry*																									
LON-MW6C	3/31/2017	*Well Dry*																									
LON-MW6C	5/11/2017	*Well Dry*																									
LON-MW6C	8/23/2017	*Well Dry*																									
LON-MW6C	11/28/2017	*Well Dry*																									
LON-MW6C	2/22/2018	*Well Dry*																									
LON-MW6C	5/30/2018	19.8	7.31	5.6	62	115.8	24.5	QM	1,100	38		<0.10														6	
LON-MW6C	8/9/2018	*Well Dry*																									
LON-MW6C	11/27/2018	*Well Dry*																									
LON-MW6C	3/28/2019	*Well Dry*																									
LON-MW6C	5/22/2019	*Well Dry*																									
LON-MW6C	8/14/2019	*Well Dry*																									
LON-MW6C	11/22/2019	*Well Dry*																									
LON-MW7D	3/20/2013	20.8	8.10	2.5	23	151	>1,000	QM	1,400	64		0.019J														30	
LON-MW7D	5/15/2013	21.4	6.91	2.1	23	QM	239	2,277	1,400	63		0.025J														29	
LON-MW7D	8/15/2013	19.9	6.60	2.8	31	23	>1,000	2,211	1,400	59	0.0033J	0.032J	0.41	300	0.92J	17	190	250	110	2.4	420	<8.2	<8.2	420	4.2	25	
LON-MW7D	11/20/2013	19.4	7.14	3.3	36	45	288	2,204	1,500	63		<0.050														24	
LON-MW7D	2/19/2014	19.7	6.96	1.8	19	-27	104	2,422	1,300	60		0.020J														24	
LON-MW7D	5/28/2014	21.0	6.96	1.8	21	82	975	2,194	1,500	59		0.037J														21	
LON-MW7D	8/14/2014	21.0	6.88	2.7	32	-8	274	2,048	1,300	56	<0.050	0.066J	<0.20	270	1.0	18	190	280	130	0.12J	390	<8.2	<8.2	390	0.7	19	
LON-MW7D	11/12/2014	21.3	6.99	3.2	34	-62.1	188	2,086	1,500	52		<0.10														17	
LON-MW7D	2/20/2015	19.3	6.89	2.3	24	132	78	2,816	1,500	49	<0.050	<0.10	0.36	310	1.0	21	220	420	150	0.18	330	<8.2	<8.2	330	2.2	17	
LON-MW7D	5/13/2015	20.3	7.12	4.2	47	14	181	2,329	1,600	58		<0.1														16	
LON-MW7D	8/25/2015	20.7	6.92	5.4	60	271	125	2,289	1,300	65		<0.10														12	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																----Alkalinity as CaCO3----							
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
LON-MW7D	11/17/2015	20.0	6.94	2.4	26	-146	182	2,396	1,500	59		0.041J														11	
LON-MW7D	2/23/2016	20.5	7.37	5.3	56	126	121	2,323	1,400	52	<0.050	0.054J	0.38	270	0.88J	19	180	370	130	0.24	340	<8.2	<8.2	340	-2.9	12	
LON-MW7D	5/5/2016	19.2	7.05	4.8	53	10	329	2,347	1,400	61*		0.11														10	H
LON-MW7A	8/11/2016	22.2	6.60	2.1	25	-147	>1,000	QM	2,500	75		320														4	
LON-MW7A	11/10/2016	20.2	7.40	5.3	56	122	>1,000	QM	2,800	19		240														5	
LON-MW7D	3/31/2017	18.5	6.97	3.4	37	129	65	2,056	1,400	50	<0.050	<0.10	0.33	300	1.0	21	210	370	160	0.24	330	<8.2	<8.2	330	2.7	8	
LON-MW7C	5/11/2017	20.6	6.35	5.8	61	-13.7	>1,000	2,281	1,500	17		0.70														4	
LON-MW7C	8/23/2017	24.1	6.25	4.8	57	-42.9	>1,000	2,419	1,300	9.1		0.060J														5	
LON-MW7D	11/28/2017	*Well Dry*																									
LON-MW7D	2/22/2018	19.1	7.29	3.4	37	141	65	QM	1,900	47	<0.050	0.026J	0.30	290	1.0	24	220	580	160	0.54	300	<8.2	<8.2	300	-6.3	15	
LON-MW7D	5/30/2018	20.6	6.60	4.0	45	120.1	18	QM	1,400	51		0.027J														15	
LON-MW7D	8/9/2018	21.0	6.21	2.4	27	182.0	26	2,075	1,300	25		0.020J														13	
LON-MW7D	11/27/2018	*Well Dry*																									
LON-MW7D	3/27/2019	*Well Dry*																									
LON-MW7D	5/22/2019	*Well Dry*																									
LON-MW7D	8/14/2019	*Well Dry*																									
LON-MW7D	11/22/2019	*Well Dry*																									
ADO-MW1s	3/19/2013	20.3	7.70	5.6	62	210	210	1,929	680	18		<0.050														15	
ADO-MW1s	5/14/2013	21.0	7.33	2.4	21	QM	>1,000	1,014	680	16		0.022J														13	
ADO-MW1s	8/16/2013	24.0	7.30	6.2	71	54	>1,000	1,175	740	22	0.0047J	0.026J	0.22	59	7.7	64	120	61	38	1.6	450	<8.2	<8.2	450	3.3	6	
ADO-MW1s	11/19/2013	20.7	7.58	2.4	27	-11	398	1,127	750	20		0.022J														4	
ADO-MW1s	2/21/2014	18.8	7.16	4.0	42	11	124	1,285	730	21		0.019J														6	
ADO-MW1s	5/22/2014	20.6	7.31	4.7	52	17	>1,000	1,205	840	22		<0.10														3	
ADO-MW1d	8/22/2014	21.4	7.44	3.6	41	180	27	1,047	660	18	<0.050	<0.10	0.40	42	6.9	61	120	48	47	<0.15	420	<8.2	<8.2	420	4	15	
ADO-MW1d	11/14/2014	20.9	7.25	3.0	31	180	36	1,112	680	18		<0.10														13	
ADO-MW1d	2/25/2015	20.5	7.18	3.8	43	51	32	1,585	630	24	<0.050	<0.10	0.27	49	8.4	77	130	64	47	<0.15	490	<8.2	<8.2	490	3	15	
ADO-MW1d	5/18/2015	24.6	7.56	2.5	28	-7	>1,000	1,158	740	20		0.058J														13	
ADO-MW1d	8/25/2015	*Well Not Accessible*																									
ADO-MW1d	11/16/2015	MI	MI	MI	MI	MI	MI	MI	690	19		0.033J															
ADO-MW1d	2/25/2016	*Well Not Accessible*																									
ADO-MW1d	5/9/2016	*Well Not Accessible*																									
ADO-MW1d	8/23/2016	*Well Dry*																									
ADO-MW1d	11/11/2016	20.3	7.31	3.3	38	147	60	1,295	640	12		<0.10														8	
ADO-MW1d	4/6/2017	20.0	7.05	5.2	57	174.1	30	984	560	13	<0.050	0.025J	0.26	37	6.7	55	110	48	45	0.19	430	<8.2	<8.2	430	-0.1	12	
ADO-MW1d	5/10/2017	17.4	7.26	3.4	38	156	42	1,308	550	13		0.044J														12	
ADO-MW1d	8/24/2017	20.2	7.16	4.0	44	133.1	25	1,287	710	14		0.032J														12	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ADO-MW1d	11/29/2017	18.4	7.12	3.7	38	200	113	1,403	620	19		0.046J														13	
ADO-MW1d	2/23/2018	17.3	6.75	5.4	56	195	48	1,550	860	18	<0.050	0.034J	0.20	46	8.0	77	150	76	40	0.20	620	<8.2	<8.2	620	-1.9	15	
ADO-MW1d	5/18/2018	20.8	7.10	7.0	77	151.2	74.6	977	780	21		0.036J														15	
ADO-MW1d	8/15/2018	24.0	6.58	4.0	45	76	>1,000	1,514	760	21		0.026J														40	
ADO-MW1d	12/21/2018	20.3	7.32	3.0	30	147	74	1,296	940	31		0.11J														13	
ADO-MW1d	3/31/2019	20.5	6.97	5.5	64	102.4	19.7	1,254	760	24	<0.050	0.092J	0.32	42	6.9	59	120	92	64	0.21	390	<8.2	<8.2	390	-2.3	14	
ADO-MW1d	5/23/2019	18.9	7.31	3.3	36	157	62	1,295	780	25		0.15J														14	
ADO-MW1d	8/15/2019	*Well Dry*																									
ADO-MW1d	11/22/2019	*Well Dry*																									
ADO-MW2s	3/19/2013	19.9	7.00	5.9	78	78.1	154	1,097	690	19		<0.050														14	
ADO-MW2s	5/14/2013	20.7	7.19	1.8	16	QM	>1,000	1,109	740	19		0.022J														11	
ADO-MW2d	8/16/2013	20.1	7.10	7.2	79	50	>1,000	1,179	740	17	0.0047J	0.030J	0.23	55	7.4	62	120	68	59	0.87	420	<8.2	<8.2	420	3.4	24	
ADO-MW2d	11/19/2013	20.1	7.65	3.5	38	-24	81	1,122	750	17		0.017J														22	
ADO-MW2s	2/21/2014	19.4	7.24	3.7	40	23	897	1,194	720	17		<0.050														4	
ADO-MW2d	5/22/2014	20.5	7.42	5.0	57	14	>1,000	1,009	730	15		<0.10														19	
ADO-MW2d	8/22/2014	19.8	7.35	5.7	63	202	58	901	590	13	<0.050	0.058J	2.1	46	7.0	50	93	36	46	0.53	380	<4.1	<4.1	380	2	16	
ADO-MW2d	11/14/2014	19.6	7.40	5.6	57	187	101	895	650	13		<0.10														15	
ADO-MW2d	2/25/2015	21.4	7.50	6.0	68	52	117	1,266	520	13	<0.050	0.12	0.72	58	8.4	52	99	37	41	0.38	390	<8.2	<8.2	390	5.9	17	
ADO-MW2d	5/18/2015	24.7	7.57	5.1	62	-24	146	1,032	580	11		0.055J														15	
ADO-MW2d	8/25/2015	*Well Not Accessible*																									
ADO-MW2d	11/16/2015	MI	MI	MI	MI	MI	MI	MI	680	13		0.046J															
ADO-MW2d	2/25/2016	*Well Not Accessible*																									
ADO-MW2d	5/9/2016	*Well Not Accessible*																									
ADO-MW2d	8/23/2016	*Well Dry*																									
ADO-MW2d	11/11/2016	20.3	7.27	3.2	35	141	50	1,294	630	12		0.028J														10	
ADO-MW2d	4/6/2017	19.8	7.19	6.0	66	178.7	654	977	550	10	0.010J	0.025J	0.44	38	7.0	52	100	45	27	1.6	450	<8.2	<8.2	450	-2.2	14	
ADO-MW2d	5/10/2017	17.8	7.33	3.4	37	137	206	1,295	540	10		0.069J														14	
ADO-MW2d	8/24/2017	20.4	7.03	5.7	63	230.5	645	759	470	8.0		0.026J														14	
ADO-MW2d	11/29/2017	16.0	7.31	6.3	64	189	497	952	500	11		0.036J														15	
ADO-MW2d	2/23/2018	16.2	7.41	4.2	44	149.7	672	943	600	18	<0.050	0.040J	0.16J	41	7.0	47	89	75	39	2.9	370	<4.1	<4.1	370	-6.5	16	
ADO-MW2d	5/18/2018	20.3	7.01	6.9	74	226.5	>1,000	764	630	11		0.039J														16	
ADO-MW2d	8/9/2018	27.0	7.44	1.4	14	147.0	84	1,106	660	12		<0.10														15	
ADO-MW2d	12/21/2018	20.3	7.29	2.9	29	140	67	1,285	660	13		0.21														14	
ADO-MW2d	3/31/2019	20.5	6.39	4.5	50	134.2	167	1,189	700	15	<0.050	0.084J	0.31	44	6.6	58	110	83	44	0.18	430	<8.2	<8.2	430	-2.3	16	
ADO-MW2d	5/23/2019	18.9	7.26	3.7	36	152	47	1,290	690	15		0.15J														16	
ADO-MW2d	8/15/2019	*Well Dry*																									
ADO-MW2d	11/22/2019	*Well Dry*																									

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
MAL-MW1	3/20/2013	19.7	8.10	1.9	18	131	>1,000	2,989	1,100	27		0.023J														12	
MAL-MW1	5/15/2013	20.4	7.79	1.3	14	QM	>1,000	1,608	1,100	28		0.041J														11	
MAL-MW1	8/15/2013	20.4	7.73	2.6	29	118	304	1,521	1,100	23	0.062	0.060	0.22	360	0.56J	5.4	18	26	240	2.6	430	<8.2	<8.2	430	2.9	10	
MAL-MW1	11/20/2013	20.5	7.80	0.9	10	29	148	1,562	1,100	23		<0.050														10	
MAL-MW1	2/20/2014	19.5	7.77	1.2	13	-38	112	1,731	1,100	23		0.020J														10	
MAL-MW1	5/28/2014	18.9	7.70	2.0	22	16.0	688	1,650	1,100	24		0.047J														10	
MAL-MW1	8/20/2014	21.9	7.97	3.7	42	-17	>1,000	1,618	1,200	27	0.029J	<0.10	0.30	390	0.62J	7.0	22	31	260	1.7	490	<8.2	<8.2	490	1.6	9	
MAL-MW1	11/12/2014	21.7	7.66	3.1	34	-33.4	>1,000	1,694	1,200	23		0.12														9	
MAL-MW1	2/19/2015	19.1	7.64	1.9	21	-15	>1,000	2,564	1,300	30	0.021J	0.065J	0.80	450	0.78J	8.9	27	38	280	4.5	520	<8.2	<8.2	520	5.1	9	
MAL-MW1	5/14/2015	19.7	7.74	1.1	12	27	482	2,128	1,300	32		0.029J														9	
MAL-MW1	8/21/2015	21.0	7.75	2.0	22	198	>1,000	1,801	760	27		<0.10														8	
MAL-MW1	11/19/2015	20.4	7.62	1.6	17	-253	>1,000	1,623	1,200	24*		0.039J														9	H
MAL-MW1	2/24/2016	19.7	8.01	2.5	28	123	>1,000	2,253	1,600	37	0.013J	0.044J	0.49	490	0.64J	9.8	31	51	340	5.2	610	<8.2	<8.2	610	0.4	9	
MAL-MW1	5/10/2016	20.0	7.90	3.5	40	-36	>1,000	2,306	1,600	39		0.032J														10	
MAL-MW1	8/23/2016	20.0	7.90	3.5	40	-36	>1,000	2,306	1,900	52		0.034J														10	
MAL-MW1	11/10/2016	19.5	7.96	2.5	27	107	>1,000	2,239	1,600	37		<0.10														11	
MAL-MW1	3/24/2017	20.1	7.59	5.5	62	58	>1,000	2,584	2,100	35	0.31	0.10	0.89	720	1.0	18	56	83	400	27	970	<8.2	<8.2	970	3.2	12	
MAL-MW1	5/18/2017	21.8	7.85	2.5	29	106	>1,000	2,228	2,100	32		0.042J														12	
MAL-MW1	8/23/2017	22.8	7.90	3.0	34	119.3	>1,000	2,231	2,000	31		0.052J														12	
MAL-MW1	11/27/2017	21.0	7.79	1.6	18	-23	>1,000	3,046	2,000	31		<0.1														13	
MAL-MW1	2/7/2018	20.1	8.30	4.0	44	61	116	3,114	2,200	32	0.092	0.047J	0.81	670	0.69J	9.5	33	60	290	7.0	1,200	<8.2	<8.2	1,200	-4	13	
MAL-MW1	5/17/2018	20.8	7.80	4.7	52	48.2	NM	2,180	2,100	30		0.043J														13	
MAL-MW1	8/7/2018	22.6	7.89	3.0	29	95	70	2,113	2,000	31		0.17														14	
MAL-MW1	11/28/2018	19.7	7.94	1.4	16	32.7	74	3,129	2,200	37		0.15J														13	
MAL-MW1	3/21/2019	18.7	7.88	1.9	21	125	>1,000	2,120	2,100	44	0.017J	0.059J	0.60	580	0.90J	8.3	30	76	410	3.5	950	<8.2	<8.2	950	-9.1	13	
MAL-MW1	5/15/2019	21.2	7.80	2.0	30	73.1	756	2,040	1,800	33		0.083J														14	
MAL-MW1	8/15/2019	20.0	7.81	1.8	15	116.7	10.0	2,112	1,500	25		<0.2														14	
MAL-MW1	11/21/2019	20.2	7.85	2.4	27	129	253	2,920	1,300	23		0.069J														14	
MAL-MW2	3/20/2013	19.8	7.58	1.4	52	QM	519	2,481	1,600	7.5		0.024J														15	
MAL-MW2	5/15/2013	20.6	7.23	1.1	12	QM	>1,000	2,267	1,600	7.7		0.038J														15	
MAL-MW2	8/15/2013	20.4	7.23	5.0	55	190	150	2,331	1,500	8.4	0.11	0.051	0.33	400	0.76J	39	130	94	150	0.057J	1,100	<8.2	<8.2	1,100	-2.3	15	
MAL-MW2	11/20/2013	21.1	7.16	1.1	12	21	49	2,408	1,700	10		<0.050														15	
MAL-MW2	2/20/2014	18.5	7.24	1.0	11	-71	72	2,618	1,500	13		0.022J														15	
MAL-MW2	5/28/2014	19.6	7.11	2.5	28	20.8	381	2,534	1,900	16		0.044J														15	
MAL-MW2	8/20/2014	21.6	7.32	2.5	30	4	343	2,316	1,400	21	0.27	<0.10	0.40	430	0.90J	44	150	120	190	0.36	990	<8.2	<8.2	990	2	15	
MAL-MW2	11/12/2014	21.5	7.22	1.9	19	15.4	401	2,363	1,500	26		0.036J														15	
MAL-MW2	2/19/2015	20.3	7.11	0.8	9	-7	215	3,708	1,700	42	0.52	<0.10	0.85	470	0.89J	48	120	140	230	0.36	910	<8.2	<8.2	910	0.7	15	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
MAL-MW2	5/14/2015	19.9	7.14	1.4	14	15	136	2,661	1,700	44		0.031J														15	
MAL-MW2	8/21/2015	21.7	7.25	2.0	23	247	281	2,809	1,800	53		<0.10														15	
MAL-MW2	11/19/2015	19.5	7.30	1.1	12	46	79	3,290	1,800	59*		0.028J														15	H
MAL-MW2	2/24/2016	20.0	7.46	1.5	16	112	307	2,882	1,900	67*	0.47	0.054J	0.66	460	0.84J	47	160	170	230	0.94	870	<8.2	<8.2	870	0.1	14	H
MAL-MW2	5/10/2016	20.3	7.31	0.7	8	-100	174	3,070	1,900	70		0.026J														14	
MAL-MW2	8/23/2016	20.3	7.31	-100.0	8	112	174	3,070	2,000	84		0.030J														14	
MAL-MW2	11/10/2016	20.1	7.45	1.5	16	110	>1,000	2,879	2,100	91		<0.10														14	
MAL-MW2	3/24/2017	20.0	7.14	4.4	48	78	>1,000	2,799	2,100	94	0.54	0.11	0.66	560	1.0	57	190	200	240	5.6	870	<8.2	<8.2	870	4.9	12	
MAL-MW2	5/18/2017	18.6	7.41	2.0	21	-15	>1,000	3,018	2,100	99		0.059J														16	
MAL-MW2	8/23/2017	21.2	7.27	1.6	19	135.3	327	3,371	1,900	110		0.091J														16	
MAL-MW2	11/27/2017	21.0	7.26	0.9	10	-3	178	3,346	2,200	120		<0.1														16	
MAL-MW2	2/7/2018	20.6	7.70	1.3	14	68	65	3,461	2,300	130	0.74	<0.10	<0.20	550	0.90J	52	180	220	240	0.36	860	<8.2	<8.2	860	-0.7	17	
MAL-MW2	5/17/2018	20.2	7.17	1.2	13	161.1	37.5	2,676	2,400	120		0.051J														15	
MAL-MW2	8/7/2018	21.0	7.00	3.0	34	189.8	100	3,577	2,500	140		0.038J														17	
MAL-MW2	11/28/2018	20.1	7.18	1.3	14	38.9	>1,000	4,002	2,400	150		0.13J														16	
MAL-MW2	3/21/2019	18.6	7.45	1.5	16	112	185	2,782	2,600	160	1.1	0.053J	0.80	500	1.2	63	200	240	250	1.2	930	<8.2	<8.2	930	-6.5	17	
MAL-MW2	5/15/2019	20.3	7.22	25.5	21	-32.0	801	2,812	2,500	150		0.11J														16	
MAL-MW2	8/15/2019	19.0	7.30	1.0	11	115.7	8.3	4,173	2,800	170		0.079J														19	
MAL-MW2	11/21/2019	20.9	7.20	0.6	7	127	99	4,301	2,500	160		0.12J														18	
MAL-MW3	3/20/2013	18.8	7.93	3.3	42	QM	>1,000	3,693	2,400	38		0.055														12	
MAL-MW3	5/15/2013	21.5	7.29	1.5	17	QM	>1,000	3,811	2,400	34		0.051														11	
MAL-MW3	8/15/2013	20.3	7.25	2.1	24	160	312	4,108	2,700	66	1.3	0.076	<0.20	830	2.3	54	160	330	200	0.45	1,400	<8.2	<8.2	1,400	2.4	11	
MAL-MW3	11/20/2013	21.0	7.06	0.6	7	18	440	4,299	3,100	67		0.053														11	
MAL-MW3	2/20/2014	19.3	7.27	2.2	25	24.8	156	5,474	3,600	100		0.083														11	
MAL-MW3	5/28/2014	*Well Not Accessible*																									
MAL-MW3	8/20/2014	21.3	7.14	1.8	21	-15	182	3,935	2,400	21	0.99	<0.10	2.6	830	2.5	52	150	400	140	0.62	1,600	<8.2	<8.2	1,600	0.2	11	
MAL-MW3	11/12/2014	21.3	7.21	2.0	24	-20.5	145	3,834	2,700	39		0.081J														11	
MAL-MW3	2/19/2015	18.6	6.96	1.4	16	-27	118	6,514	3,200	34	1.4	0.088J	5.2	1,100	2.7	58	86	540	180	1.0	1,900	<8.2	<8.2	1,900	-2.2	11	
MAL-MW3	5/14/2015	19.8	7.09	0.7	7	25	284	4,392	2,900	29		0.047J														11	
MAL-MW3	8/21/2015	20.9	7.00	1.8	21	238	567	4,756	2,800	11		0.092J														10	
MAL-MW3	11/19/2015	18.6	6.95	2.7	28	-197	64	4,594	3,000	53*		0.076J														10	H
MAL-MW3	2/24/2016	20.4	7.34	3.6	40	172	95	4,879	3,300	16	1.8	0.065J	3.6	960	2.2	65	180	470	140	0.86	2,000	<8.2	<8.2	2,000	-1.2	11	
MAL-MW3	5/10/2016	18.5	6.99	1.1	12	-105	>1,000	5,041	3,200	7.1		0.039J														11	
MAL-MW3	8/23/2016	18.5	6.99	1.1	12	-105	>1,000	5,041	3,200	49		0.071J														11	
MAL-MW3	11/10/2016	20.2	7.37	3.6	40	143	527	4,268	3,300	64		0.096J														10	
MAL-MW3	3/24/2017	17.4	6.87	1.7	19	-138	>1,000	4,825	4,200	0.12J	0.49	30	60	1,400	120	48	91	430	11	41	2,900	<8.2	<8.2	2,900	2	12	PD
MAL-MW3	5/18/2017	19.7	7.43	3.7	42	161	>1,000	4,211	4,300	0.088J		24														12	
MAL-MW3	8/23/2017	21.5	7.08	2.5	29	-111.6	601	6,412	4,000	13		16														12	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----				
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
MAL-MW3	11/27/2017	20.8	7.73	1.4	18	-33	>1,000	3,904	3,800	12		3.6														12	
MAL-MW3	2/7/2018	19.4	7.50	3.2	37	170	>1,000	4,080	3,900	36	0.45	0.23	9.3	1,300	30	49	120	560	190	7.9	2,400	<8.2	<8.2	2,400	-2.3	13	
MAL-MW3	5/17/2018	19.5	7.12	3.9	42	-92.3	375	4,628	4,300	16		3.0														13	
MAL-MW3	8/7/2018	22.4	7.82	4.2	48	165	>1,000	4,511	3,700	36		0.73														13	
MAL-MW3	11/28/2018	*Well Not Accessible*																									
MAL-MW3	3/21/2019	*Well Not Accessible*																									
MAL-MW3	5/15/2019	19.2	7.21	2.9	39	137.9	680	4,091	4,800	5.8		0.59														11	
MAL-MW3	8/15/2019	21.0	7.50	1.9	22	90.7	7.7	4,080	5,000	49		0.44														13	
MAL-MW3	11/21/2019	20.3	7.27	1.0	10	119	779	6,600	4,200	44		0.37														12	E
MAL-MW4	3/20/2013	19.4	7.90	1.0	11	118	>1,000	3,985	1,500	19		0.021J														12	
MAL-MW4	5/15/2013	20.9	7.63	1.6	18	QM	>1,000	2,308	1,600	18		0.037J														12	
MAL-MW4	8/15/2013	20.3	7.38	1.9	21	140	421	2,841	1,800	16	0.011J	0.048J	0.20	670	0.88J	14	49	82	250	0.23	1,100	<8.2	<8.2	1,100	3.3	11	
MAL-MW4	11/20/2013	20.5	7.32	2.0	22	17	889	2,273	1,400*	18		0.022J														11	H
MAL-MW4	2/20/2014	19.2	7.93	1.5	16	27.6	>1,000	2,203	1,500	18		0.030J														12	
MAL-MW4	5/28/2014	19.1	7.51	2.8	31	21.9	434	2,508	1,800	28		0.051J														11	
MAL-MW4	8/20/2014	21.9	7.70	1.9	22	-42	840	2,422	1,600	20	0.15	<0.10	0.72	590	1.1	12	43	71	230	1.1	1,000	<8.2	<8.2	1,000	1	11	
MAL-MW4	11/12/2014	21.1	7.68	2.8	28	141	>1,000	2,407	1,400	17		0.047J														11	
MAL-MW4	2/19/2015	20.6	7.55	2.8	31	-27	371	3,510	1,700	17	0.077	0.040J	1.2	610	1.4J	14	47	66	200	2.8	1,100	<8.2	<8.2	1,100	1.2	11	
MAL-MW4	5/14/2015	19.7	7.58	2.3	25	5	102	2,410	1,500	16		0.032J														11	
MAL-MW4	8/21/2015	22.1	7.53	1.4	16	220	852	2,627	1,800	15		<0.10														11	
MAL-MW4	11/19/2015	21.7	7.39	1.4	16	-241	516	2,561	1,800	13		0.027J														10	
MAL-MW4	2/24/2016	21.5	8.03	0.8	17	80	>1,000	3,029	2,000	13	0.022J	0.036J	0.69	680	1.3J	14	50	81	190	2.6	1,300	<8.2	<8.2	1,300	0	11	
MAL-MW4	5/10/2016	19.0	7.53	1.5	17	212	>1,000	2,544	2,100	14		0.076J														11	
MAL-MW4	8/23/2016	19.0	7.53	1.5	17	212	>1,000	2,544	2,200	16		0.034J														11	
MAL-MW4	11/10/2016	20.2	7.97	1.0	18	75	>1,000	3,021	2,200	17		<0.10														11	
MAL-MW4	3/24/2017	*Well Dry*																									
MAL-MW4	5/18/2017	22.0	7.89	0.8	19	80	>1,000	3,027	2,600	23		0.058J														12	
MAL-MW4	8/23/2017	23.6	7.37	1.8	22	201.2	583	3,867	2,400	26		0.061J														13	
MAL-MW4	11/27/2017	21.0	7.48	1.5	15	-4	220	3,457	2,400	12		<0.1														13	
MAL-MW4	2/7/2018	*Well Not Accessible*																									
MAL-MW4	5/17/2018	22.3	7.59	1.5	18	27.5	>1,000	2,877	2,500	16		0.033J														14	
MAL-MW4	8/7/2018	*Well Not Accessible*																									
MAL-MW4	12/21/2018	21.5	7.65	1.6	18	208.7	142	4,100	2,400	36		0.12J														13	
MAL-MW4	3/21/2019	19.0	7.72	0.9	18	83	81	3,179	2,600	40	0.059	0.055J	1.2	750	1.3	12	47	180	270	2.0	1,500	<8.2	<8.2	1,500	-9.6	13	
MAL-MW4	5/15/2019	19.4	7.81	0.7	28	56.3	450	2,823	2,500	160		0.10J														14	
MAL-MW4	8/15/2019	21.0	7.51	0.9	11	112.3	7.6	2,703	1,800	8		<0.2														14	
MAL-MW4	11/21/2019	21.0	7.35	0.7	10	100	419	3,224	1,700	7.2		<0.20														14	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																		----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
MAL-MW5	3/20/2013	20.6	7.80	1.3	23	QM	>1,000	4,140	3,000	22		0.047J														16	
MAL-MW5	5/15/2013	20.7	7.27	1.3	14	QM	581	4,050	3,000	55		0.049J														16	
MAL-MW5	8/15/2013	20.4	6.80	2.0	23	54	101	4,252	2,700	66	0.68	0.044J	0.62	840	1.7	45	160	220	350	0.086J	1,400	<8.2	<8.2	1,400	2.1	15	
MAL-MW5	11/20/2013	21.6	6.93	0.4	5	19	410	4,666	3,500	130		0.036J														15	
MAL-MW5	2/20/2014	20.3	7.09	0.4	5	-80	148	4,883	3,100	120		0.052														16	
MAL-MW5	5/28/2014	19.8	7.01	2.6	29	40.1	204	4,749	3,400	130		0.063J														15	
MAL-MW5	8/20/2014	21.7	7.18	1.6	18	-21	773	4,181	2,900	120	1.9	0.077J	2.0	920	2.0	45	160	230	230	0.86	1,600	<8.2	<8.2	1,600	-0.2	15	
MAL-MW5	11/12/2014	21.5	7.38	1.9	21	-33.6	686	4,271	3,100	120		0.082J														16	
MAL-MW5	2/19/2015	21.0	7.03	0.7	8	50	212	6,841	3,500	140	2.1	0.062J	3.1	1,100	1.9J	46	100	290	270	1.3	1,700	<8.2	<8.2	1,700	-1.1	16	
MAL-MW5	5/14/2015	19.9	7.10	1.4	15	51	4.8	4,511	3,100	140		0.047J														16	
MAL-MW5	8/21/2015	21.0	7.11	1.2	13	235	521	5,559	3,800	170		0.21														15	
MAL-MW5	11/19/2015	19.8	7.32	0.8	10	11	105	7,169	4,200	170		<0.10														0	
MAL-MW5	2/24/2016	20.6	7.47	1.8	21	144	>1,000	5,574	3,900	180	2.5	0.054J	2.6	1,200	1.9J	34	120	340	200	4.0	1,800	<8.2	<8.2	1,800	-1.5	15	
MAL-MW5	5/10/2016	20.4	7.29	1.5	17	-76	>1,000	5,849	4,300	240		0.056J														15	P
MAL-MW5	8/23/2016	21.1	7.22	2.1	24	17	205	4,705	4,200	210		0.082J														15	
MAL-MW5	11/10/2016	20.4	7.36	1.0	17	87	>1,000	2,790	4,100	200		0.10														15	
MAL-MW5	3/24/2017	20.0	7.12	3.8	46	19.8	>1,000	4,221	3,400	140	2.0	0.076J	2.4	1,000	1.6J	42	140	280	190	3.4	1,600	<8.2	<8.2	1,600	-0.1	17	
MAL-MW5	5/18/2017	18.3	7.16	1.2	12	-28	>1,000	5,297	3,800	190		0.14														16	
MAL-MW5	8/23/2017	20.7	7.21	1.4	17	92.7	282	5,798	3,600	180		0.029J														16	
MAL-MW5	11/27/2017	20.2	7.26	3.3	31	9	329	6,204	4,900	280		0.062J														17	
MAL-MW5	2/7/2018	19.3	7.19	1.0	11	-25	NM	5,548	4,900	250	2.2	0.075J	2.9	1,500	2.2J	40	140	470	440	4.3	2,000	<8.2	<8.2	2,000	-3.2	17	
MAL-MW5	5/17/2018	21.0	7.42	5.3	59	65.1	NM	4,935	5,000	270		0.027J														17	
MAL-MW5	8/7/2018	23.0	7.23	6.8	79	150.9	>1,000	5,460	3,900	170		0.17														17	
MAL-MW5	11/28/2018	20.0	7.20	2.0	18	30.1	>1,000	5,998	4,500	240		0.23														16	
MAL-MW5	3/21/2019	18.8	7.43	1.1	11	90	135	2,799	4,600	260	3.3	0.12J	2.6	1,100	2.3	50	160	420	250	1.8	1,900	<8.2	<8.2	1,900	-10.4	17	
MAL-MW5	5/15/2019	20.3	7.12	1.2	18	-19.8	841	4,973	4,700	270		0.28														18	
MAL-MW5	8/15/2019	22.0	7.19	0.6	7	-8.5	125.9	5,460	5,500	330		0.23														16	
MAL-MW5	11/21/2019	20.5	7.00	1.3	14	199	103	6,409	5,600	350		0.26														18	
MAL-MW6	3/20/2013	18.7	7.20	0.5	6	120	>1,000	3,950	1,500	77		0.025J														16	
MAL-MW6	5/15/2013	20.8	7.34	0.8	9	40.7	>1,000	2,086	1,300	70		0.032J														16	
MAL-MW6	8/15/2013	20.4	6.90	0.8	9	45	195	2,144	1,400	73	0.47	0.044J	<0.20	290	1.6	38	110	120	97	<0.15	590	<8.2	<8.2	590	-2.7	18	
MAL-MW6	11/20/2013	21.5	6.96	1.0	11	66	194	2,410	1,700	75		<0.050														16	
MAL-MW6	2/20/2014	18.8	7.05	0.3	4	-51	39	2,488	1,500	72		0.028J														16	
MAL-MW6	5/28/2014	19.2	7.18	2.5	28	42.5	91	2,295	1,700	67		0.046J														16	
MAL-MW6	8/20/2014	21.8	7.22	2.6	30	-30	383	2,343	1,500	72	0.15	<0.10	0.68	370	2.1	53	150	160	130	0.91	760	<8.2	<8.2	760	0.7	17	
MAL-MW6	11/12/2014	20.8	7.07	1.8	20	179	205	2,580	1,600	66		<0.10														17	
MAL-MW6	2/19/2015	20.3	6.89	0.8	9	-50	96	4,116	1,900	73	0.093	<0.10	1.2	470	1.9	65	190	240	210	1.1	800	<8.2	<8.2	800	4.3	16	
MAL-MW6	5/14/2015	19.7	7.37	2.3	26	52	182	3,926	2,200	79		0.11														16	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
MAL-MW6	8/21/2015	21.6	7.11	1.6	17	263	289	2,561	1,500	71		0.075J														16	
MAL-MW6	11/19/2015	19.4	7.22	0.8	10	23	97	3,290	1,800	72		0.026J														16	
MAL-MW6	2/24/2016	19.6	7.34	1.8	20	131	141	3,246	2,200	70	0.13	<0.10	0.99	490	1.9	60	180	270	300	1.4	840	<8.2	<8.2	840	-0.6	15	
MAL-MW6	5/10/2016	20.8	7.08	1.5	17	240	207	2,581	2,000	71		0.039J														16	
MAL-MW6	8/23/2016	20.8	7.08	1.5	17	240	207	2,581	1,600	78		0.033J														16	
MAL-MW6	11/10/2016	19.2	7.12	1.0	12	43	702	3,119	1,600	77		<0.10														16	
MAL-MW6	3/24/2017	18.6	6.99	2.6	29	67.6	>1,000	3,479	2,900	79	0.13	0.10	1.5	620	2.4	100	290	480	530	6.6	840	<8.2	<8.2	840	2.6	17	
MAL-MW6	5/18/2017	20.7	7.15	1.0	13	48	862	3,112	3,400	79		0.068J														17	
MAL-MW6	8/23/2017	22.4	7.10	1.2	13	-117.2	961	3,228	3,400	74		0.038J														18	
MAL-MW6	11/27/2017	21.5	7.18	1.5	16	1	111	6,643	4,900	90		0.069J														17	
MAL-MW6	2/7/2018	19.7	7.41	1.3	14	70	80	6,751	4,500	90	0.30	0.043J	1.9	920	2.8	160	450	860	1,500	1.1	1,000	<8.2	<8.2	1,000	-4	16	
MAL-MW6	5/17/2018	19.2	7.00	3.4	37	219.3	48.3	3,998	3,700	100		0.065J														17	
MAL-MW6	8/7/2018	19.0	6.99	2.0	22	185.1	49	2,535	1,900	75		<0.10														19	
MAL-MW6	11/28/2018	19.8	7.05	0.9	20	32.5	385	4,167	2,600	74		0.17J														16	
MAL-MW6	3/21/2019	18.4	7.13	0.9	11	51	328	3,214	2,400	73	0.26	<0.20	1.8	480	2.3	65	180	310	510	1.7	870	<8.2	<8.2	870	-8.8	15	
MAL-MW6	5/15/2019	20.3	7.04	1.0	17	46.9	201	2,635	1,800	35		0.16J														17	
MAL-MW6	8/15/2019	19.7	7.10	1.6	18	2.5	78.2	2,532	1,900	76		<0.2														18	
MAL-MW6	11/21/2019	19.2	6.80	0.9	9	122	80	3,228	1,800	70		0.11J														17	
MAL-MW7	3/20/2013	19.0	7.75	1.4	25	QM	>1,000	1,802	1,200	26		0.098														21	
MAL-MW7	5/15/2013	19.4	6.84	0.6	10	QM	>1,000	1,972	1,300	21		0.039J														21	
MAL-MW7	8/15/2013	19.2	6.40	1.0	10	50	>1,000	2,558	1,800	30	0.018J	0.037J	5.2	230	1.3	63	240	240	490	4.3	500	<8.2	<8.2	500	-3.6	22	
MAL-MW7	11/20/2013	19.8	6.82	1.0	11	57	44	3,116	2,300	39		<0.050														22	
MAL-MW7	2/20/2014	18.8	6.75	0.4	5	-30	71	3,835	2,600	51		0.022J														22	
MAL-MW7	5/28/2014	18.9	6.86	2.8	31	88.7	328	4,043	3,100	70		0.034J														21	
MAL-MW7	8/20/2014	21.4	6.80	2.8	33	-15	649	4,566	3,900	120	0.13	0.033J	1.2	410	2.1	170	640	470	1,400	0.66	690	<8.2	<8.2	690	-0.8	22	
MAL-MW7	11/12/2014	20.3	6.49	2.5	28	171	618	5,094	3,600	110		<0.10														22	
MAL-MW7	2/19/2015	19.7	6.44	0.6	7	38	64	6,611	3,400	120	0.11	<0.10	1.5	450	1.9	180	680	450	1,500	0.61	680	<8.2	<8.2	680	1.7	22	
MAL-MW7	5/14/2015	19.2	6.59	1.2	13	45	74	4,648	3,000	160		0.047J														22	
MAL-MW7	8/21/2015	20.7	6.59	2.4	28	260	675	4,771	3,400	150		<0.10														22	
MAL-MW7	11/19/2015	18.8	6.72	0.9	10	64	128	5,579	3,200	160*		<0.10														22	H
MAL-MW7	2/24/2016	20.2	7.01	2.0	23	157	415	4,893	3,500	130	0.069	0.044J	1.0	430	2.4	150	590	340	1,200	2.4	760	<8.2	<8.2	760	1.2	21	
MAL-MW7	5/10/2016	19.7	6.87	0.8	8	-93	143	4,248	2,700	81		0.035J														22	
MAL-MW7	8/23/2016	19.7	6.87	0.8	8	-93	143	4,248	3,400	120		0.033J														22	
MAL-MW7	11/10/2016	18.5	6.70	0.8	10	65	627	5,580	3,400	100		<0.10														22	
MAL-MW7	3/24/2017	18.9	6.72	3.0	33	86.7	>1,000	3,431	2,900	85	0.061	0.12	1.0	400	2.0	130	460	300	970	11	680	<8.2	<8.2	680	2.4	23	
MAL-MW7	5/18/2017	22.6	6.71	0.8	12	74	782	5,397	1,500	21		0.048J														23	
MAL-MW7	8/23/2017	*Well Not Accessible*																									
MAL-MW7	11/27/2017	19.9	7.22	1.0	11	11	211	2,681	2,200	65		<0.1														23	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
MAL-MW7	2/7/2018	19.4	7.32	1.6	17	71	730	3,824	3,000	110	0.062	0.022J	<0.20	380	1.9	110	390	260	810	1.0	720	<8.2	<8.2	720	-1.5	22	
MAL-MW7	5/17/2018	19.4	6.87	1.6	18	177.3	120	2,776	2,800	88		0.043J														22	
MAL-MW7	8/7/2018	21.0	6.98	NM	NM	171.7	176	3,590	2,800	120		0.074J														24	
MAL-MW7	11/28/2018	18.9	6.84	1.2	10	34.6	>1,000	4,153	2,600	120		0.30														23	
MAL-MW7	3/21/2019	18.7	6.61	0.9	11	70	537	5,476	1,600	26	0.11	0.16J	1.8	210	2.0	62	210	160	550	3.7	520	<8.2	<8.2	520	-6.7	22	
MAL-MW7	5/15/2019	19.9	6.83	1.0	20	65.7	506	3,613	1,800	34		0.14J														23	
MAL-MW7	8/15/2019	19.0	6.97	1.4	16	108.4	10.0	2,380	1,800	73		<0.2														24	
MAL-MW7	11/21/2019	20.8	7.22	1.3	12	120	481	3,748	2,100	87		0.15J														24	
MAL-MW8	3/20/2013	19.4	9.17	1.1	34	QM	>1,000	1,757	1,200	29		0.056														24	
MAL-MW8	5/15/2013	21.6	8.82	0.8	9	QM	>1,000	1,844	1,200	32		0.041J														25	
MAL-MW8	8/15/2013	19.4	8.60	0.9	10	48	245	1,830	1,200	38	0.43	0.052	1.1	420	0.41J	0.74	2.7	46	140	20	540	53	<8.2	593	-2.5	26	
MAL-MW8	11/20/2013	19.1	8.74	0.9	10	50	64	1,873	1,300	43		<0.050														24	
MAL-MW8	2/20/2014	19.0	8.78	0.4	5	-91	94	2,065	1,300	46		0.032J														25	
MAL-MW8	5/28/2014	19.5	8.68	2.6	29	2.0	704	1,959	1,200	52		0.062J														25	
MAL-MW8	8/20/2014	20.0	8.65	1.4	16	-53	242	1,820	1,300	56	0.51	0.056J	0.62	470	0.55J	0.86	3.0	66	120	4.4	540	51	<8.2	591	0.8	26	
MAL-MW8	11/12/2014	19.2	7.86	2.3	23	206	197	2,088	1,600	59		0.039J														25	
MAL-MW8	2/19/2015	19.0	8.63	0.8	9	-16	115	2,607	1,400	62	0.56	0.033J	0.90	520	0.44J	1.0	3.6	77	120	4.7	550	51	<8.2	601	3.6	24	
MAL-MW8	5/14/2015	19.2	8.16	1.1	11	54	58	1,977	1,500	70		0.057J														25	
MAL-MW8	8/21/2015	19.7	8.68	1.5	17	172	426	2,110	1,500	66		<0.10														25	
MAL-MW8	11/19/2015	19.9	8.50	1.1	13	-269	212	2,225	1,600	71		0.029J														24	
MAL-MW8	2/24/2016	18.9	9.02	2.1	23	97	236	2,269	1,600	72*	0.59	0.046J	0.70	520	0.57J	1.0	3.5	88	110	4.2	580	61	<8.2	641	0	23	H
MAL-MW8	5/10/2016	19.3	8.80	1.3	13	-71	85	2,337	1,700	75		0.032J														25	
MAL-MW8	8/23/2016	19.3	8.80	1.3	13	-71	85	2,337	1,700	82		0.042J														25	
MAL-MW8	11/10/2016	20.1	8.51	1.2	12	270	721	2,219	1,600	82		0.029J														22	
MAL-MW8	3/24/2017	19.5	8.52	6.1	67	47.7	>1,000	2,094	1,800	82	0.89	0.12	0.78	610	0.61J	1.4	5.0	100	110	7.5	600	72	<8.2	672	4.3	23	
MAL-MW8	5/18/2017	21.6	8.60	1.0	13	-245	906	2,213	1,700	79		0.12														24	
MAL-MW8	8/23/2017	22.7	8.41	1.0	11	-186.5	775	2,240	1,800	78		0.054J														26	
MAL-MW8	11/27/2017	19.3	8.81	2.0	22	-8	137	2,348	1,800	79		0.086J														24	P
MAL-MW8	2/7/2018	19.5	9.00	1.0	11	49	35	2,461	1,700	78	0.98	0.051J	1.1	540	0.41J	1.6	5.5	98	94	4.3	630	68	<8.2	698	-1.1	24	
MAL-MW8	5/17/2018	19.8	8.57	2.7	28	129.3	91.4	1,813	1,800	73		0.046J														25	
MAL-MW8	8/7/2018	20.0	8.57	2.3	26	175.9	21	2,174	1,700	74		0.067J														26	
MAL-MW8	11/28/2018	19.5	8.75	1.0	20	37.3	248	2,430	1,800	73		0.19J														24	
MAL-MW8	3/21/2019	18.5	8.38	1.8	19	-86.0	125	2,421	1,700	75	0.75	0.059J	1.5	460	0.61J	1.9	6.7	98	100	4.4	660	58	<8.2	718	-9.3	22	
MAL-MW8	5/15/2019	21.5	8.27	0.9	16	-111.0	801	2,128	1,800	36		0.11J														24	
MAL-MW8	8/15/2019	19.0	8.69	1.8	20	62.2	6.8	2,406	1,700	67		0.082J														26	
MAL-MW8	11/21/2019	21.2	7.22	0.8	10	129	133	2,440	1,700	74		0.13J														24	E

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
MAP-MW8	11/14/2002									12		<1									220.0	<1					
MAP-MW8	1/31/2003									11		<1									220.0	<1					
MAP-MW8	5/13/2003									14		<1									170.0	<1					
MAP-MW8	12/17/2003									9.5		<1									260.0	<1					
MAP-MW8	7/28/2004									12		<1									260.0	<1					
MAP-MW8	11/17/2004									11		<1									230.0	<1					
MAP-MW8	6/16/2006								680	23.50	<0.1		<1	121	2.2	2.0	91.3	41	51.1		341.0	<1					
MAP-MW8	3/20/2013	18.5	8.40	3.6	74	48.9	233	1,016	670	55		0.022J														4	D
MAP-MW8	5/15/2013	19.8	6.90	4.5	50	QM	210	1,023	700	54		0.039J														4	
MAP-MW8	8/16/2013	*Well Dry*																									
MAP-MW8	11/19/2013	*Well Dry*																									
MAP-MW8	2/20/2014	*Well Dry*																									
MAP-MW8	5/23/2014	*Well Dry*																									
MAP-MW8	8/18/2014	*Well Dry*																									
MAP-MW8	11/13/2014	*Well Dry*																									
MAP-MW8	2/24/2015	*Well Dry*																									
MAP-MW8	5/15/2015	*Well Dry*																									
MAP-MW8	8/24/2015	*Well Dry*																									
MAP-MW8	11/18/2015	*Well Dry*																									
MAP-MW8	2/24/2016	*Well Dry*																									
MAP-MW8	5/6/2016	*Well Dry*																									
MAP-MW8	8/8/2016	*Well Dry*																									
MAP-MW8	11/11/2016	*Well Dry*																									
MAP-MW8	3/31/2017	*Well Dry*																									
MAP-MW8	5/10/2017	*Well Dry*																									
MAP-MW8	8/24/2017	*Well Dry*																									
MAP-MW8	11/28/2017	*Well Dry*																									
MAP-MW8	2/14/2018	*Well Dry*																									
MAP-MW8	5/11/2018	*Well Dry*																									
MAP-MW8	8/8/2018	*Well Dry*																									
MAP-MW8	11/15/2018	*Well Dry*																									
MAP-MW8	2/20/2019	*Well Dry*																									
MAP-MW8	5/21/2019	*Well Dry*																									
MAP-MW8	8/14/2019	*Well Dry*																									
MAP-MW8	11/21/2019	*Well Dry*																									
MAP-MW9	11/14/2002									9.7		<1									170.0	<1					
MAP-MW9	1/31/2003									8.2		<1									210.0	<1					
MAP-MW9	5/13/2003									8		<1									200.0	<1					

Table 4-6
Groundwater Quality

		-------Field Measurements-------																----Alkalinity as CaCO3----								
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
MAP-MW9	12/17/2003									7.7		<1									200.0	<1					
MAP-MW9	7/28/2004									8.1		<1									200.0	<1					
MAP-MW9	11/17/2004									8.4		<1						6	35.0		240.0	<1					
MAP-MW9	6/16/2006								365	7.30	0.1		1.3	79.1	1.2	0.5	29.2	9	39.4		159.0	6.0					
MAP-MW9	3/20/2013	*Well Dry*																									
MAP-MW9	5/15/2013	*Well Dry*																									
MAP-MW9	8/16/2013	*Well Dry*																									
MAP-MW9	11/19/2013	*Well Dry*																									
MAP-MW9	2/20/2014	*Well Dry*																									
MAP-MW9	5/23/2014	*Well Dry*																									
MAP-MW9	8/18/2014	*Well Dry*																									
MAP-MW9	11/13/2014	*Well Dry*																									
MAP-MW9	2/24/2015	*Well Dry*																									
MAP-MW9	5/15/2015	*Well Dry*																									
MAP-MW9	8/24/2015	*Well Dry*																									
MAP-MW9	11/18/2015	*Well Dry*																									
MAP-MW9	2/24/2016	*Well Dry*																									
MAP-MW9	5/6/2016	*Well Dry*																									
MAP-MW9	8/8/2016	*Well Dry*																									
MAP-MW9	11/11/2016	*Well Dry*																									
MAP-MW9	3/31/2017	*Well Dry*																									
MAP-MW9	5/10/2017	*Well Dry*																									
MAP-MW9	8/24/2017	*Well Dry*																									
MAP-MW9	11/28/2017	*Well Dry*																									
MAP-MW9	2/14/2018	*Well Dry*																									
MAP-MW9	5/11/2018	*Well Dry*																									
MAP-MW9	8/8/2018	*Well Dry*																									
MAP-MW9	11/15/2018	*Well Dry*																									
MAP-MW9	2/20/2019	*Well Dry*																									
MAP-MW9	5/21/2019	*Well Dry*																									
MAP-MW9	8/14/2019	*Well Dry*																									
MAP-MW9	11/21/2019	*Well Dry*																									
MAP-MW10	3/20/2013	18.0	7.73	4.7	50	52.8	329	1,478	1,000	67		0.027J														19	
MAP-MW10	5/15/2013	18.8	6.84	2.7	30	QM	79	1,512	1,100	65		0.028J														17	
MAP-MW10	8/16/2013	19.4	6.09	5.0	55	182	>1,000	1,494	1,000	64	0.0030J	0.039J	1.1	170	1.8	4.5	180	33	61	2.5	460	<8.2	<8.2	460	2.3	15	
MAP-MW10	11/19/2013	18.4	6.70	2.2	23	60	280	1,480	1,000	63		0.025J														12	
MAP-MW10	2/20/2014	18.5	7.14	3.7	40	38.6	68	1,561	1,000	63		0.028J														14	
MAP-MW10	5/23/2014	19.9	6.90	3.0	34	18	165	1,484	880	59		<0.10														13	

Table 4-6
Groundwater Quality

Well	Date	-------Field Measurements------- T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	----Alkalinity as CaCO3---- Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
MAP-MW10	8/18/2014	19.7	6.70	4.4	48	31.8	156	1,386	900	60	<0.050	<0.10	0.55	150	2.0	13	170	39	73	0.15	460	<8.2	<8.2	460	0.1	13	
MAP-MW10	11/13/2014	18.8	7.30	1.7	16	168	109	1,558	800	65		0.058J														13	
MAP-MW10	2/24/2015	17.9	6.91	4.3	45	-25	527	1,776	920	60	<0.05	0.055J	1	150	1.9	14	150	38	71	0.99	470	<8.2	<8.2	470	-3.3	13	
MAP-MW10	5/15/2015	19.0	7.03	4.7	51	74	30	1,600	970	62		0.050J														12	
MAP-MW10	8/24/2015	20.2	7.01	3.7	42	347	842	1,568	900	59		0.042J														12	
MAP-MW10	11/18/2015	17.0	7.15	4.3	44	33	51	1,945	930	65		<0.10														12	
MAP-MW10	2/24/2016	20.3	6.90	3.7	41	158	98	1,515	960	63	<0.050	0.032J	0.70	140	2.5	15	190	34	78	0.46	460	<8.2	<8.2	460	1.7	13	
MAP-MW10	5/6/2016	18.6	7.03	3.6	41	323	>1,000	1,507	1,000	68		<0.10														12	
MAP-MW10	8/8/2016	19.4	6.90	4.5	49	-230	57	1,658	900	62		<0.10														11	
MAP-MW10	11/11/2016	21.0	6.92	3.7	41	160	90	1,513	860	63		0.076J														11	
MAP-MW10	3/31/2017	18.7	7.22	6.9	74	105.5	25	1,246	920	65	<0.050	0.034J	0.75	130	1.8	14	160	41	94	<0.15	310	<8.2	<8.2	310	3.1	11	
MAP-MW10	5/10/2017	19.8	6.92	4.5	49	178.6	42	1,392	580	64		0.024J														11	
MAP-MW10	8/24/2017	19.8	7.07	6.3	71	112	52.6	1,449	1,100	70		0.036J														13	
MAP-MW10	11/28/2017	*Well Dry*																									
MAP-MW10	2/21/2018	18.1	7.15	5.4	58	76.4	26	1,410	610	39	<0.050	<0.10	0.44	92	1.9	5.9	120	35	73	<0.15	260	<8.2	<8.2	260	0.2	15	
MAP-MW10	5/11/2018	*Well Dry*																									
MAP-MW10	8/8/2018	19.0	6.45	7.4	78	210.3	11	1,050	660	41		<0.10														15	
MAP-MW10	11/15/2018	*Well Dry*																									
MAP-MW10	2/20/2019	18.6	7.53	7.4	81	89	104	1,695	670	42	<0.050	0.084J	0.75	86	1.4	6.0	94	37	98	0.25	170	<4.1	<4.1	170	-2.8	16	
MAP-MW10	5/21/2019	18.4	7.08	6.4	69	124.4	38	1,128	770	47		<0.2														15	E
MAP-MW10	8/14/2019	22.1	7.28	4.0	48	-15.5	8.8	1,500	870	53		0.067J														17	
MAP-MW10	11/21/2019	20.0	7.62	6.2	65	67.3	NM	691	410	11		<0.20														19	
ZON-MW1A	10/1/2001									5.6		<1									110.0	<1					
ZON-MW1C	10/1/2001									2.9		<1.0									530.0	<1					
ZON-MW1A	4/19/2002									23	0.510	<1									280.0	<1					
ZON-MW1C	4/19/2002									3.9		<1.0									530.0	<1					
ZON-MW1A	11/13/2002									3.7		<1									140.0	<1					
ZON-MW1C	11/13/2002									7.9		<1.0									610.0	<1					
ZON-MW1A	5/13/2003									120		<1									280.0	<1					
ZON-MW1C	5/13/2003									3.9		<1.0									640.0	<1					
ZON-MW1C	12/17/2003									4.7		<1.0									590.0	<1					
ZON-MW1A	7/28/2004									9.9		<1									140.0	<1					
ZON-MW1A	11/16/2004									19		<1									130.0	<1					
ZON-MW1C	10/6/2005									2.1											577.0	<1					
ZON-MW1A	10/6/2005									6.9											147.0	<1					
ZON-MW1A	6/22/2006									12.7											90						

Table 4-6
Groundwater Quality

		-------Field Measurements-------							---- Alkalinity as CaCO3 ----																	
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ZON-MW1C	6/22/2006									5.7											620						
ZON-MW1A	3/20/2013	16.9	7.20	4.9	51	234	200	QM	1,300	140		0.049J														2	D
ZON-MW1A	5/15/2013	18.3	7.20	6.3	68	QM	52	812	550	23		0.029J														4	
ZON-MW1A	8/16/2013	23.1	7.54	3.7	45	122	621	1,281	830	46	0.0019J	0.050	1.6	190	52	7.1	39	56	45	16	320	<8.2	<8.2	320	-2.3	5	
ZON-MW1A	11/19/2013	20.6	7.30	4.7	54	123	142	1,111	790	53*		0.032J														3	H
ZON-MW1A	2/20/2014	19.1	6.93	6.2	67	79	>1,000	1,819	1,200	93		0.032J														2	
ZON-MW1A	5/23/2014	20.1	6.92	3.8	42	69	54	1,088	770	49		0.041J														4	
ZON-MW1A	8/18/2014	24.7	6.99	5.0	58	172	57	1,009	770	51	<0.050	<0.10	1.0	180	33	6.2	30	44	45	13	250	<8.2	<8.2	250	-2.5	3	
ZON-MW1A	11/13/2014	21.5	7.46	1.7	17	169	211	1,895	1,400	74		0.050J														5	
ZON-MW1C	2/23/2015	18.4	6.72	5.4	69	61	187	1,536	720	10	<0.050	0.035J	0.67	150	1.4	5.4	160	59	35	0.17	530	<8.2	<8.2	530	4.5	3	
ZON-MW1A	5/15/2015	19.6	7.22	5.3	58	61	183	907	760	19		0.050J														5	
ZON-MW1A	8/24/2015	25.0	6.44	2.2	27	259	89	858	550	21		0.042J														5	
ZON-MW1A	11/18/2015	21.3	7.25	3.6	42	17	45	734	380	13		0.044J														3	
ZON-MW1C	2/24/2016	17.9	7.42	5.9	63	108	81	1,047	640	8.4	<0.050	0.036J	0.53	140	1.1	3.7	120	51	30	0.045J	420	<8.2	<8.2	420	5.8	3	
ZON-MW1A	5/6/2016	18.8	6.32	2.3	28	243	71	854	450	23		<0.10														5	
ZON-MW1A	8/8/2016	24.2	6.90	4.1	49	-238	17	454	310	15		0.034J														4	
ZON-MW1A	11/10/2016	19.4	7.82	1.5	18	69	>1,000	497	580	33		0.038J														2	
ZON-MW1A	3/31/2017	16.5	7.22	7.8	80	142.3	268	489	360	37	<0.050	0.082J	0.97	65	15	6.6	32	10	21	13	75	<4.1	<4.1	75	0.8	8	
ZON-MW1A	5/11/2017	15.8	6.49	6.3	63	37.5	375	550	460	29		0.058J														3	
ZON-MW1A	8/23/2017	27.9	7.36	4.1	52	91	834	307.9	220	12		0.039J														6	
ZON-MW1A	11/28/2017	21.5	6.23	1.7	19	60	>1,000	1,267	1,300	120		0.023J														4	
ZON-MW1A	2/16/2018	15.7	7.60	9.1	92	-100.9	NM	770	420	19	0.013J	0.026J	0.93	63	13	6.3	39	32	34	8.6	150	<4.1	<4.1	150	-5.9	4	
ZON-MW1C	5/11/2018	*Well Dry*							720	29		0.024J															
ZON-MW1A	8/8/2018	25.0	7.63	5.4	65	192	74	309	220	6.4		0.032J														4	D
ZON-MW1C	11/29/2018	*Well Dry*																									
ZON-MW1C	2/20/2019	*Well Dry*																									
ZON-MW1C	5/21/2019	*Well Dry*																									
ZON-MW1C	8/14/2019	*Well Dry*																									
ZON-MW1C	11/21/2019	*Well Dry*																									
ZON-MW2A	11/13/2002									1.1		<1.0									160.0	<1					
ZON-MW2B	11/13/2002									0.8		<1.0									54.0	12.0					
ZON-MW2A	12/17/2003									2.2		<1.0									79.0	<1					
ZON-MW2A	7/28/2004									2.2		<1.0									71.0	4.0					
ZON-MW2A	11/16/2004									2.9		<1.0									82.0	<1					
ZON-MW2A	10/6/2005									7.1											141.0	<1					
ZON-MW2B	10/6/2005									1.1											54.0	8.2					
ZON-MW2A	6/15/2006									5.9											100						
ZON-MW2B	6/15/2006									2.3											60						

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ZON-MW2A	3/20/2013	18.1	8.40	4.6	50	204	>1,000	QM	250	9.7		0.032J														4	
ZON-MW2A	5/15/2013	20.2	7.72	4.2	49	QM	101	418	260	9.7		0.019J														3	
ZON-MW2B	8/16/2013	19.4	7.96	7.0	77	181	>1,000	280	210	15	0.0056J	0.043J	0.46	52	0.73J	0.23	11	14	15	4.2	46	<4.1	<4.1	46	0.4	18	
ZON-MW2B	11/19/2013	18.6	8.74	7.0	75	80	>1,000	301	190	16*		0.021J														17	H
ZON-MW2B	2/20/2014	18.6	8.98	6.2	66	51	488	314	170	16		0.028J														17	
ZON-MW2B	5/23/2014	18.6	8.34	6.3	68	28	795	264	190	14		<0.10														15	
ZON-MW2B	8/18/2014	28.0	8.54	5.7	73	-21	>1,000	308	210	15	<0.050	<0.10	0.14J	46	0.49J	0.17	11	13	15	1.5	44	<4.1	<4.1	44	-1.9	11	
ZON-MW2B	11/13/2014	*Well Not Accessible*																									
ZON-MW2B	2/23/2015	18.4	7.65	3.1	33	35	>1,000	QM	1,600	110	1.7	2.9	62	270	50	22	170	97	340	130	220	<8.2	<8.2	220	-5.6	10	
ZON-MW2B	5/15/2015	*Well Dry*																									
ZON-MW2B	8/24/2015	*Well Dry*																									
ZON-MW2B	11/18/2015	*Well Dry*																									
ZON-MW2B	2/24/2016	*Well Dry*																									
ZON-MW2B	5/6/2016	*Well Dry*																									
ZON-MW2B	8/8/2016	*Well Dry*																									
ZON-MW2B	11/10/2016	*Well Dry*																									
ZON-MW2B	3/31/2017	*Well Dry*																									
ZON-MW2B	5/11/2017	*Well Dry*																									
ZON-MW2B	8/23/2017	*Well Dry*																									
ZON-MW2B	11/28/2017	20.5	6.89	0.9	13	-9	>1,000	1,257	780	14		0.16														17	
ZON-MW2B	2/16/2018	18.2	8.01	7.4	89	-126.1	NM	723	390	19	0.012J	0.042J	0.39	87	1.0	0.25	25	18	36	0.32	140	<4.1	<4.1	140	-3.3	26	
ZON-MW2B	5/11/2018	18.6	8.10	8.1	84	-82.5	134	402.5	370	17		0.018J														23	
ZON-MW2B	8/8/2018	19.0	7.56	2.3	27	165.4	26	456	370	16		<0.10														18	
ZON-MW2B	11/29/2018	*Well Dry*																									
ZON-MW2B	4/17/2019	18.7	6.51	5.6	55	140.6	84	455	270	18	<0.050	0.059J	0.45	63	0.80J	0.46	17	16	36	0.89	76	<4.1	<4.1	76	-5	15	
ZON-MW2B	5/21/2019	19.6	8.82	7.4	80	21.4	28	455	280	18		<0.2														14	PDE
ZON-MW2B	8/14/2019	*Well Dry*																									
ZON-MW2B	11/21/2019	20.9	8.41	6.0	68	25.2	>1,000	482	310	10		<0.20														20	
ZON-MW3B	11/13/2002									36		<1.0									370.0	<1					
ZON-MW3A	12/17/2003								700	40.00	<0.15	<1.0	<1.0	71	<2.0	5.9	120	29	22.0		330.0	<1					
ZON-MW3A	7/27/2004									5.9		<1.0									180.0	<1					
ZON-MW3A	11/16/2004									29		<1.0									300.0	<1					
ZON-MW3A	10/6/2005									23.7											220.0	<1					
ZON-MW3B	10/6/2005									35.8											369.0	<1					
ZON-MW3A	6/15/2006									26											290						
ZON-MW3B	6/15/2006									34.7											340						
ZON-MW3B	3/20/2013	20.2	7.91	2.1	30	41	925	QM	640	43		0.040J														30	
ZON-MW3B	5/15/2013	22.2	6.86	1.4	13	QM	79	1,118	790	50		0.12														24	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ZON-MW3B	8/16/2013	20.4	6.80	2.1	24	171	148	1,260	920	61	0.015J	0.040J	1.0	87	1.1	4.2	170	35	31	1.4	330	<8.2	<8.2	330	0.1	18	
ZON-MW3B	11/19/2013	19.9	6.58	0.5	6	35	202	1,251	860	64*		0.019J														21	H
ZON-MW3B	2/20/2014	20.1	6.80	0.7	8	-60	25	1,406	900	61		0.032J														17	
ZON-MW3B	5/23/2014	20.4	6.81	2.9	32	-14	79	1,256	840	62		<0.10														13	
ZON-MW3B	8/18/2014	21.7	6.24	3.8	43	99.4	917	1,166	720	66	<0.050	<0.10	0.94	94	1.0	4.9	170	34	35	1.7	340	<8.2	<8.2	340	-1	11	
ZON-MW3B	11/13/2014	19.9	7.25	1.3	13	140	221	1,274	710	59		<0.10														13	
ZON-MW3B	2/23/2015	19.7	6.72	2.4	27	263	68	1,340	820	55	0.011J	0.036J	0.92	95	1.1	4.4	180	28	35	0.17	340	<8.2	<8.2	340	4.9	11	
ZON-MW3B	5/15/2015	19.7	6.98	4.3	47	86	39	1,264	900	55		0.058J														9	
ZON-MW3B	8/24/2015	21.3	6.88	3.1	36	302	51	1,219	780	56		<0.10														9	
ZON-MW3B	11/18/2015	18.3	6.83	2.5	26	29	25	1,421	690	53		0.029J														13	
ZON-MW3B	2/24/2016	22.2	6.92	5.0	57	142	>1,000	1,113	690	48	<0.050	0.027J	1.3	79	0.91J	3.6	160	26	32	0.35	340	<8.2	<8.2	340	0.5	11	
ZON-MW3B	5/6/2016	19.0	6.85	3.0	35	300	64	1,187	770	49		<0.10														8	
ZON-MW3B	8/8/2016	21.1	6.70	3.3	34	-260	25	1,248	760	48		0.045J														6	
ZON-MW3B	11/10/2016	21.8	6.95	4.9	56	127	270	1,117	750	47		<0.10														11	
ZON-MW3B	3/31/2017	20.0	6.94	3.5	38	123.2	10	1,028	700	46	<0.050	0.053J	0.83	89	0.89J	4.6	160	32	36	0.073J	330	<8.2	<8.2	330	3	8	
ZON-MW3B	5/11/2017	21.2	6.87	4.6	52	139.1	196	689	680	46		0.047J														7	
ZON-MW3B	8/23/2017	22.0	7.10	5.2	61	106	185	1,162	620	51		0.030J														6	
ZON-MW3B	11/28/2017	23.6	6.90	0.7	31	112	52	867	800	52		<0.1														10	
ZON-MW3B	2/21/2018	19.0	6.94	3.8	40	133.4	12	1,572	640	52	<0.050	<0.10	0.78	90	1.1	3.9	160	28	36	<0.15	320	<8.2	<8.2	320	2.5	15	
ZON-MW3B	5/11/2018	18.4	6.61	0.9	18	94.5	206	1,314	750	51		0.028J														13	
ZON-MW3B	8/8/2018	21.0	6.59	3.6	41	161.3	17	1,089	780	51		<0.10														11	
ZON-MW3B	11/29/2018	18.5	7.49	5.6	60	16.5	13	1,189	800	52		0.12J														9	
ZON-MW3B	2/20/2019	70.1	6.72	7.0	76	197	184	1,086	600	48	<0.050	0.10J	0.89	73	0.90J	3.7	130	21	37	0.069J	300	<8.2	<8.2	300	-3.8	14	
ZON-MW3B	5/21/2019	19.4	8.31	6.8	74	-19.8	36	998	730	50		0.069J														11	E
ZON-MW3B	8/14/2019	21.7	7.11	3.4	38	-45.0	35.9	1,125	780	49		<0.2														10	
ZON-MW3B	11/21/2019	*Well Dry*																									
ZON-MW4A	5/13/2003									30		<1.0									320.0	<1					
ZON-MW4A	12/17/2003									32		<1									370.0	<1					
ZON-MW4A	7/27/2004									6.1		<1.0									160.0	<1					
ZON-MW4B	10/6/2005									31.3											356.0	<1					
ZON-MW4A	6/15/2006									36.7											340						
ZON-MW4B	6/22/2006									30.4											340						
ZON-MW4B	3/20/2013	20.0	7.98	1.4	22	18.8	791	1,355	920	58		0.047J														23	
ZON-MW4B	5/15/2013	21.0	7.04	2.0	22	QM	>1,000	1,256	870	57*		0.032J														16	H
ZON-MW4B	8/16/2013	21.1	6.14	2.2	22	82.9	237	1,120	770	46	0.14	0.050	1.4	87	1.6	2.9	150	29	22	0.71	340	<8.2	<8.2	340	0.7	8	
ZON-MW4B	11/19/2013	20.4	6.71	0.4	5	28	262	1,217	720	52*		0.028J														11	H
ZON-MW4B	2/20/2014	20.4	6.94	0.8	9	-76	>1,000	1,219	720	43		0.038J														12	
ZON-MW4B	5/23/2014	21.4	7.11	2.0	23	11	438	1,013	630	43		<0.10														6	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ZON-MW4B	8/18/2014	23.5	7.27	5.3	64	123	>1,000	1,074	660	64	0.020J	<0.10	0.92	110	1.7	2.4	140	36	32	1.1	270	<8.2	<8.2	270	1.4	1	
ZON-MW4B	11/13/2014	20.5	7.46	1.6	15	156	>1,000	1,141	640	50		<0.10														2	
ZON-MW4B	2/23/2015	20.5	6.96	5.3	59	224	55	QM	750	54	<0.050	<0.10	0.79	140	1.7	2.0	130	32	31	<0.15	330	<8.2	<8.2	330	3.2	5	
ZON-MW4B	5/15/2015	20.0	7.16	6.7	75	73	242	1,201	840	53		0.052J														1	
ZON-MW4B	8/24/2015	25.3	7.25	4.0	54	269	108	1,042	700	56		0.072J														0	
ZON-MW4B	11/18/2015	19.1	7.56	4.9	51	31	>1,000	1,270	740	61		0.034J														0	P
ZON-MW4B	2/24/2016	19.9	7.32	5.6	62	137	92	1,293	780	62	<0.050	0.032J	0.61	170	1.5	2.1	120	35	32	0.070J	350	<8.2	<8.2	350	1.9	3	
ZON-MW4B	5/6/2016	19.0	7.17	3.9	54	279	122	1,073	800	64		<0.10														1	
ZON-MW4B	8/8/2016	32.0	7.08	3.0	41	-230	287	QM	820	62		0.059J														0	PD
ZON-MW4B	11/10/2016	*Well Dry*																									
ZON-MW4B	3/31/2017	*Well Dry*																									
ZON-MW4B	5/11/2017	18.2	7.24	3.1	36	128	204	1,308	670	45		0.056J														0	
ZON-MW4B	8/23/2017	*Well Dry*																									
ZON-MW4B	11/28/2017	*Well Dry*																									
ZON-MW4B	2/16/2018	20.8	7.29	6.0	71	-80.5	NM	1,520	800	48	0.014J	<0.10	0.50	180	1.8	1.6	98	38	40	<0.15	350	<8.2	<8.2	350	2.2	5	
ZON-MW4B	5/11/2018	18.1	7.10	1.4	53	-72.0	16	944	780	53		0.043J														32	
ZON-MW4B	8/8/2018	23.0	7.01	178.6	7	178.6	198	1,167	770	52		<0.10														2	
ZON-MW4B	11/29/2018	*Well Dry*																									
ZON-MW4B	4/17/2019	*Well Dry*																									
ZON-MW4B	5/21/2019	*Well Dry*																									
ZON-MW4B	8/14/2019	*Well Dry*																									
ZON-MW4B	11/21/2019	*Well Dry*																									
ZON-MW5A	5/13/2003									43		<1.0									380.0	<1					
ZON-MW5A	12/17/2003									45		<1.0									560.0	<1					
ZON-MW5A	7/27/2004									45		<1.0									430.0	<1					
ZON-MW5A	11/16/2004									42		<1.0									420.0	<1					
ZON-MW5A	10/6/2005									43.1											427.0	<1					
ZON-MW5B	10/6/2005									39.2											341.0	<1					
ZON-MW5A	6/15/2006									42.5											420						
ZON-MW5B	6/15/2006									37.5											340						
ZON-MW5B	3/20/2013	19.8	7.84	2.0	30	41.9	813	QM	740	52		0.076														28	
ZON-MW5B	5/15/2013	20.8	7.12	2.7	32	QM	>1,000	1,055	750	55		0.020J														22	
ZON-MW5B	8/16/2013	20.7	6.81	2.2	25	48.8	122	1,123	840	57	0.0057J	0.042J	0.66	87	1.7	2.4	160	32	38	0.11J	280	<8.2	<8.2	280	2.8	14	
ZON-MW5B	11/19/2013	20.2	6.71	0.9	11	37	96	1,137	700	58*		0.020J														18	H
ZON-MW5B	2/20/2014	20.2	7.08	2.5	28	3	128	1,214	760	55		0.032J														17	
ZON-MW5B	5/23/2014	21.7	7.11	3.1	35	1	99	1,055	740	56		<0.10														11	
ZON-MW5A	8/18/2014	25.2	7.23	4.1	56	13.7	23	748	620	33	<0.050	<0.10	0.63	79	1.1	5.7	89	16	37	2.2	240	<4.1	<4.1	240	-0.4	5	
ZON-MW5B	11/13/2014	24.2	7.16	3.4	35	3.1	66	856	630	57		<0.10														8	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
ZON-MW5A	2/23/2015	18.3	7.72	5.9	65	210	89	793	650	37	<0.050	<0.10	0.84	90	1.2	6.9	100	24	40	1.9	250	<4.1	<4.1	250	1.6	3	
ZON-MW5B	5/15/2015	19.9	6.76	4.8	53	40	32	1,149	650	50		0.041J														5	
ZON-MW5A	8/24/2015	23.1	7.26	5.1	69	323	49	864	540	28		<0.10														5	
ZON-MW5A	11/18/2015	18.3	7.73	5.6	60	-5	137	1,093	640	33		<0.10														4	P
ZON-MW5A	2/24/2016	23.8	7.82	7.0	80	113	83	840	600	40	<0.050	0.035J	1.2	77	1.1	3.3	140	24	33	2.1	290	<4.1	<4.1	290	2.7	3	
ZON-MW5A	5/6/2016	*Well Dry*																									
ZON-MW5B	8/8/2016	*Well Dry*																									
ZON-MW5A	11/10/2016	23.9	7.86	7.1	80	109	102	843	600	20		0.10														4	
ZON-MW5A	3/31/2017	*Well Dry*																									
ZON-MW5A	5/11/2017	22.6	8.09	7.0	75	105	261	836	570	1.2		0.25														3	
ZON-MW5B	8/23/2017	*Well Dry*																									
ZON-MW5A	11/28/2017	22.0	6.28	0.6	20	51	86	986	490	11		0.26														2	
ZON-MW5B	2/21/2018	19.1	7.14	5.2	55	180.4	15	1,050	440	25	<0.050	<0.10	0.47	78	1.4	2.6	95	17	31	<0.15	240	<4.1	<4.1	240	4.2	12	
ZON-MW5B	5/11/2018	18.5	6.81	2.0	50	98.0	251	896	730	51		0.031J														10	
ZON-MW5B	8/8/2018	*Well Dry*																									
ZON-MW5B	11/29/2018	*Well Dry*																									
ZON-MW5B	2/20/2019	*Well Dry*																									
ZON-MW5B	5/21/2019	*Well Dry*																									
ZON-MW5B	8/14/2019	*Well Dry*																									
ZON-MW5B	11/21/2019	*Well Dry*																									
ZON-MW7	11/13/2002									5.4		<1.0									210.0	<1					
ZON-MW7	5/13/2003									16		<1.0									290.0	<1					
ZON-MW7	12/17/2003									8.6		<1.0									250.0	<1					
ZON-MW7	7/28/2004									5		<1.0									140.0	<1					
ZON-MW7	11/16/2004									12		<1.0									250.0	<1					
ZON-MW7	10/6/2005									16.9											295.0	<1					
ZON-MW7	6/16/2006									9.8											220						
ZON-MW7	3/20/2013	*Well Dry*																									
ZON-MW7	5/15/2013	*Well Dry*																									
ZON-MW7	8/16/2013	*Well Dry*																									
ZON-MW7	11/19/2013	*Well Dry*																									
ZON-MW7	2/20/2014	*Well Dry*																									
ZON-MW7	5/23/2014	*Well Dry*																									
ZON-MW7	8/18/2014	*Well Dry*																									
ZON-MW7	11/13/2014	*Well Dry*																									
ZON-MW7	2/23/2015	*Well Dry*																									
ZON-MW7	5/15/2015	*Well Dry*																									
ZON-MW7	8/24/2015	*Well Dry*																									

Table 4-6
Groundwater Quality

Well	Date	-------Field Measurements------- T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	----Alkalinity as CaCO3---- HCO3	CO3	OH	Total	CAB %	HI	Q
ZON-MW7	11/18/2015	*Well Dry*																									
ZON-MW7	2/24/2016	*Well Dry*																									
ZON-MW7	5/6/2016	*Well Dry*																									
ZON-MW7	8/8/2016	*Well Dry*																									
ZON-MW7	11/10/2016	*Well Dry*																									
ZON-MW7	3/31/2017	*Well Dry*																									
ZON-MW7	5/11/2017	*Well Dry*																									
ZON-MW7	8/23/2017	*Well Dry*																									
ZON-MW7	11/28/2017	*Well Dry*																									
ZON-MW7	2/15/2018	*Well Dry*																									
ZON-MW7	5/11/2018	*Well Dry*																									
ZON-MW7	8/8/2018	*Well Dry*																									
ZON-MW7	11/29/2018	*Well Dry*																									
ZON-MW7	2/20/2019	*Well Dry*																									
ZON-MW7	5/21/2019	*Well Dry*																									
ZON-MW7	8/14/2019	*Well Dry*																									
ZON-MW7	11/21/2019	*Well Dry*																									
RIC-MW2	1/28/2003																					1,070	0.0				
RIC-MW1	1/28/2003																					470	0.0				
RIC-MW2	5/25/2004																					800	0.0				
RIC-MW1	5/25/2004																					550	0.0				
RIC-MW2	12/22/2004									0.8												480	0.0				
RIC-MW1	12/22/2004																					500	0.0				
RIC-MW2	5/6/2005																					980	0.0				
RIC-MW1	5/6/2005									0.5												440	0.0				
RIC-MW2	11/23/2005									6.1												610	<6				
RIC-MW1	11/23/2005									0.5												350	<6				
RIC-MW2	5/4/2006									6												720	<6				
RIC-MW1	5/4/2006																					440	<6				
RIC-MW2	11/6/2006									4.8												760	<6				
RIC-MW1	11/6/2006																					410	<6				
RIC-MW2	11/20/2007																					520	47				
RIC-MW1	11/20/2007																					280	28				
RIC-MW2	6/2/2008									19.7												760	20				
RIC-MW1	6/2/2008									0.1												500	18				
RIC-MW1	3/22/2013	22.0	7.32	1.4	26	QM	491	1,684	1,000	0.062J		0.20															33

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
RIC-MW1	5/17/2013	22.2	7.33	0.5	6	QM	19	1,833	1,100	<0.10		0.14														32	
RIC-MW1	8/13/2013	22.1	7.40	0.8	9	44	29	1,571	1,000	<0.20	0.0070J	0.17	0.25	260	2.9	13	81	110	220	0.19	450	<8.2	<8.2	450	-0.5	32	
RIC-MW1	11/22/2013	21.6	7.54	0.3	4	-92	390	1,656	1,100	<0.10		0.18														32	
RIC-MW1	2/17/2014	21.8	7.40	0.6	7	-122	60	1,847	1,100	<0.10		0.16														31	
RIC-MW1	5/30/2014	21.3	7.55	4.1	47	13	101	1,660	1,100	<0.50		0.20														31	
RIC-MW1	8/12/2014	22.6	7.35	1.7	19	242	37	1,482	910	<0.20	<0.050	0.19	0.34	280	3.1	15	91	120	260	0.90	440	<8.2	<8.2	440	1.2	30	
RIC-MW1	11/10/2014	23.4	6.32	0.9	12	242.1	22	1,600	970	<0.10		0.23														30	
RIC-MW1	2/17/2015	22.0	7.39	0.8	9	-131	41	2,116	1,000	0.05J	<0.05	0.24	0.39	300	3.4	17	100	140	240	0.61	460	<8.2	<8.2	460	3.7	30	
RIC-MW1	5/11/2015	22.2	7.47	0.7	8	-73	31	1,794	1,100	<0.10		0.25														30	
RIC-MW1	8/20/2015	22.0	7.42	1.5	17	226	48	1,684	1,100	0.092J		0.22														30	
RIC-MW1	11/18/2015	20.7	7.34	1.6	18	-144	29	1,704	1,100	0.11J		0.20														33	
RIC-MW1	2/22/2016	22.1	7.76	1.0	11	17	67	1,720	1,000	<0.10	<0.050	0.20	0.39	280	3.0	15	89	130	250	0.97	470	<8.2	<8.2	470	-1	28	
RIC-MW1	5/19/2016	22.6	7.77	1.2	14	-6	51	1,658	1,000	0.083J		0.27														29	
RIC-MW1	8/9/2016	22.2	7.47	2.1	25	-220	44	1,740	1,000	<0.10		0.16														29	
RIC-MW1	11/8/2016	22.1	7.58	1.1	13	12	371	1,740	920	<0.10		0.18														29	
RIC-MW1	3/27/2017	21.8	7.43	0.8	9	20	82	1,550	1,100	<0.10	<0.050	0.17	0.24	350	3.1	12	73	110	250	0.69	510	<8.2	<8.2	510	3.7	30	
RIC-MW1	5/16/2017	19.6	7.55	0.9	10	-31	67	1,462	1,100	0.028J		0.21														29	
RIC-MW1	8/21/2017	23.8	7.45	1.8	12	25.1	188	1,701	1,100	0.067J		0.20														30	
RIC-MW1	11/21/2017	21.6	7.50	1.0	13	-52	46	1,561	1,100	<0.1		0.20														30	
RIC-MW1	2/5/2018	22.0	8.27	1.4	15	-105	64	1,749	1,100	<0.10	<0.050	0.21	0.29	300	2.7	12	70	140	250	0.68	380	<8.2	<8.2	380	2.4	30	
RIC-MW1	5/14/2018	22.6	7.57	11.8	12	18.3	30.9	1,221	1,100	<0.10		0.30														29	
RIC-MW1	8/6/2018	22.7	6.76	0.4	4	-121	24	1,556	1,000	<0.20		0.20														29	
RIC-MW1	12/20/2018	21.6	7.64	1.1	13	20	25	1,721	1,000	<0.10		0.28														30	
RIC-MW1	4/18/2019	18.1	7.64	0.8	14	30	71	1,968	1,000	<0.10	<0.050	0.20	0.25	260	2.9	12	75	140	260	0.66	400	<8.2	<8.2	400	-3.7	30	
RIC-MW1	5/13/2019	21.0	7.41	0.9	20	-37.2	101	1,273	1,100	0.10		0.21														31	
RIC-MW1	8/12/2019	22.4	7.77	0.8	9	-62.9	10.2	1,747	1,200	<0.1		0.23														32	
RIC-MW1	11/19/2019	22.5	8.09	1.7	18	-4.2	32	1,558	920	<0.10		0.21														30	
RIC-MW4	1/28/2003									44											490	0.0					
RIC-MW3	1/28/2003																				280	0.0					
RIC-MW4	5/25/2004									5.2											900	0.0					
RIC-MW3	5/25/2004																				300	0.0					
RIC-MW4	12/22/2004									0.7											740	0.0					
RIC-MW3	12/22/2004																		76.0		420	0.0					
RIC-MW4	5/6/2005									0.6											630	0.0					
RIC-MW3	5/6/2005																				310	0.0					
RIC-MW4	11/23/2005																				470	<6					
RIC-MW3	11/23/2005																				480	<6					
RIC-MW4	5/4/2006									6.9											900	<6					

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
RIC-MW3	5/4/2006																				470	<6					
RIC-MW4	11/6/2006									2											730	<6					
RIC-MW3	11/6/2006																				510	<6					
RIC-MW4	11/20/2007																				410	<6					
RIC-MW3	11/20/2007																				260	<6					
RIC-MW4	6/2/2008									0.1											710	<					
RIC-MW3	6/2/2008									0.1											560	<					
RIC-MW4	3/22/2013	19.3	6.49	3.0	42	QM	>1,000	1,336	900	24		0.026J														6	
RIC-MW3	3/22/2013	20.4	6.22	1.7	30	QM	866	2,112	1,200	<0.20		0.28														50	
RIC-MW4	5/17/2013	21.1	6.98	1.0	11	QM	191	1,512	850	49		0.042J														7	
RIC-MW3	5/17/2013	21.8	6.90	0.7	8	QM	10	2,112	1,200	0.056J		0.19														50	
RIC-MW4	8/13/2013	28.6	7.00	0.8	10	44	80	1,355	950	45	0.20	0.027J	0.74	120	11	23	130	92	120	1.9	300	<8.2	<8.2	300	-1.8	7	
RIC-MW3	8/13/2013	21.4	7.00	1.0	11	40	24	1,712	1,100	<0.20	0.0069J	0.25	0.53	230	3.5	22	140	120	140	0.49	660	<8.2	<8.2	660	-1.6	51	
RIC-MW4	11/22/2013	18.7	7.38	3.5	38	45	238	1,383	960	25		0.035J														7	
RIC-MW3	11/22/2013	21.3	6.97	0.3	3	-90	71	1,764	1,100	0.072J		0.24														50	
RIC-MW4	2/17/2014	21.9	7.15	2.2	26	-52	>1,000	1,493	880	8.8		0.058														5	
RIC-MW3	2/17/2014	21.9	7.17	2.1	21	-52.1	46	1,855	1,300	0.037J		0.23														49	
RIC-MW4	5/30/2014	21.3	7.37	3.5	40	42	>1,000	1,746	870	13		0.068J														5	
RIC-MW3	5/30/2014	21.7	7.13	4.1	48	-11	116	1,799	1,200	<0.50*		0.28														50	H
RIC-MW4	8/12/2014	25.8	7.16	1.9	24	251	>1,000	1,281	600	4.5	0.055	0.17	2.1	140	7.9	29	140	110	140	4.0	470	<8.2	<8.2	470	-0.6	5	
RIC-MW4	11/10/2014	22.8	7.15	1.1	14	217.8	647	1,358	780	6.6		0.12														4	
RIC-MW4	2/17/2015	21.7	7.31	6.3	73	-56	>1,000	1,896	840	3.8	0.029J	0.066J	1.9	140	6.4	31	150	120	140	4.2	410	<8.2	<8.2	410	4.5	4	
RIC-MW4	5/11/2015	22.0	7.32	3.9	46	39	721	1,452	850	2.8		0.086J														4	
RIC-MW4	8/20/2015	24.0	7.07	1.3	16	264	>1,000	1,297	890	0.93		0.26														3	
RIC-MW4	11/18/2015	22.5	7.15	5.4	63	-95	141	1,369	890	0.11		0.24														1	PD
RIC-MW3	2/22/2016	22.0	7.18	2.3	28	-20	123	2,045	1,200	<0.10	<0.050	0.28	0.65	260	4.0	29	180	150	170	6.6	770	<8.2	<8.2	770	-1.2	44	
RIC-MW3	5/19/2016	22.2	7.15	3.2	36	-39	169	2,230	950	<0.10		0.27														45	
RIC-MW3	8/9/2016	21.8	7.05	2.0	21	-202	54	2,070	970	<0.10		0.25														45	
RIC-MW3	11/8/2016	22.0	7.08	2.3	28	35	407	2,036	1,100	0.061J		0.38														45	
RIC-MW3	3/27/2017	21.7	6.97	1.2	14	-12.6	68	1,938	1,100	<0.10	<0.050	0.27	0.57	270	3.9	27	110	130	150	0.82	710	<8.2	<8.2	710	-3.5	44	
RIC-MW3	5/16/2017	19.1	6.99	1.2	13	-55.8	21	1,286	980	<0.10		0.33														46	
RIC-MW3	8/21/2017	24.6	7.05	2.1	24	-33.4	212	2,091	800	0.077J		0.18														47	
RIC-MW3	11/21/2017	21.7	6.97	1.4	16	-78	70	2,113	1,200	<0.1		0.28														46	
RIC-MW3	2/5/2018	22.2	7.12	1.8	21	-140	16	2,354	1,400	<0.10	<0.050	0.25	0.58	290	3.8	31	180	160	140	0.77	880	<8.2	<8.2	880	-1.6	45	
RIC-MW3	5/14/2018	21.6	6.75	1.1	13	-44.5	35	1,455	1,200	<0.10*		0.27														47	H
RIC-MW3	8/6/2018	23.3	6.48	0.5	6	-101	70	1,855	1,100	<0.20		0.20														47	
RIC-MW3	12/20/2018	21.9	7.69	1.1	13	146.9	211	1,989	1,000	4.4		0.31														48	
RIC-MW3	4/18/2019	17.4	7.60	0.9	17	82	411	1,337	1,100	2.9	0.074	0.20	0.71	250	3.7	29	170	150	140	1.8	800	<8.2	<8.2	800	-3.4	47	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
RIC-MW4	5/13/2019	19.8	6.77	1.2	17	-52.5	16	986	1,000	0.42		0.18J														4	
RIC-MW4	8/12/2019	25.6	7.19	0.9	9	-47.8	383	1,848	1,300	1.8		0.87														5	
RIC-MW4	11/19/2019	23.8	7.56	2.9	31	-37.1	>1,000	1,876	930	1.5		0.22														5	
RIC-MW6	1/28/2003									8.7											70	0.0					
RIC-MW5	1/28/2003									4.5											190	0.0					
RIC-MW6	5/25/2004									3.9											190	0.0					
RIC-MW5	5/25/2004									0.7											230	0.0					
RIC-MW6	12/22/2004									2.4											80	0.0					
RIC-MW5	12/22/2004																				200	0.0					
RIC-MW6	5/6/2005									6.5											70	0.0					
RIC-MW5	5/6/2005									5.5											120	0.0					
RIC-MW6	11/23/2005									3.1											60	<6					
RIC-MW5	11/23/2005									3.3											50	22					
RIC-MW6	5/4/2006									8.6											60	<6					
RIC-MW5	5/4/2006																				120	<6					
RIC-MW6	11/6/2006									6.5											100	<6					
RIC-MW5	11/6/2006									0.6											130	<6					
RIC-MW6	11/20/2007																				100	<6					
RIC-MW5	11/20/2007																				100	<6					
RIC-MW5	6/2/2008									0.5											160	<					
RIC-MW6	6/3/2008									7											110	<					
RIC-MW6	3/22/2013	18.4	6.90	1.8	29	QM	>1,000	462	300	0.58		0.027J														7	
RIC-MW5	3/22/2013	19.9	7.19	1.6	23	QM	955	383	260	0.28		0.057														48	
RIC-MW6	5/17/2013	19.6	6.68	0.9	10	QM	97	542	330	11		0.023J														9	
RIC-MW5	5/17/2013	20.4	7.52	0.7	8	QM	25	403	280	0.40		0.064														48	
RIC-MW6	8/13/2013	26.2	6.80	0.7	9	26	321	511	350	5.6	0.37	0.037J	0.65	44	13	5.4	46	25	51	1.7	140	<4.1	<4.1	140	-0.6	8	
RIC-MW5	8/13/2013	21.6	7.80	0.4	5	13	122	365	230	0.20	0.0075J	0.068	0.12J	47	1.1	3.6	27	13	28	1.3	140	<4.1	<4.1	140	-1.1	49	
RIC-MW6	11/22/2013	24.4	6.97	0.3	5	-1	349	645	430	6.2		0.029J														7	
RIC-MW5	11/22/2013	21.4	7.40	0.4	5	-5	219	366	240	0.16		0.058														48	
RIC-MW6	2/17/2014	20.1	6.86	0.9	10	-192	217	709	400	15		0.017J														6	
RIC-MW5	2/17/2014	20.8	7.96	0.9	10	-171	112	422	210	0.24		0.035J														47	
RIC-MW6	5/30/2014	20.2	6.74	2.1	23	32	141	632	430	19		<0.10														6	
RIC-MW5	5/30/2014	21.1	7.68	2.0	22	34	239	368	240	0.43		0.062J														47	
RIC-MW6	8/12/2014	24.1	6.43	2.2	27	260	31	569	410	13	0.35	<0.10	0.62	48	13	9.0	66	41	56	1.1	140	<4.1	<4.1	140	2.7	6	
RIC-MW6	11/10/2014	23.6	7.35	0.8	10	167.1	348	723	490	23		0.046J														4	
RIC-MW6	2/17/2015	22.5	6.79	1.5	18	-77	45	863	310	7.3	0.49	0.046J	0.53	49	8.2	8.9	53	27	42	1.1	140	<4.1	<4.1	140	6.5	4	
RIC-MW6	5/11/2015	21.1	7.08	1.6	19	138	321	531	250	2.6		0.054J														3	
RIC-MW6	8/20/2015	23.5	6.81	1.3	15	192	36	516	340	3.2		0.065J														3	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
RIC-MW6	11/18/2015	21.7	6.48	2.2	30	-71.1	88	393	270	2.9		0.026J														2	
RIC-MW5	2/22/2016	21.1	7.69	1.5	17	151	177	466	310	0.90	0.063	0.044J	0.18J	52	1.4	5.0	37	19	32	1.7	150	<4.1	<4.1	150	2.6	42	
RIC-MW5	5/19/2016	22.0	7.40	1.4	16	72	79	681	330	0.56		0.042J														42	
RIC-MW5	8/9/2016	21.8	7.73	1.8	21	-136	217	524	350	0.25		<0.10														41	
RIC-MW5	11/8/2016	20.9	7.60	1.5	17	134	>1,000	861	310	0.73		0.030J														41	
RIC-MW5	3/27/2017	21.9	7.60	1.4	16	-34.2	110	QM	330	0.37	<0.050	0.058J	0.12J	65	1.7	6.7	47	22	40	1.3	190	<4.1	<4.1	190	4.1	42	
RIC-MW5	5/16/2017	20.3	7.86	1.1	12	-58	128	486	410	0.30		0.10														42	
RIC-MW5	8/21/2017	24.6	7.45	1.2	16	137.5	662	833	370	6.1		0.16														42	
RIC-MW5	11/21/2017	21.3	7.76	1.5	17	-89	63	472	300	0.62		0.041J														42	
RIC-MW5	2/5/2018	21.9	8.30	1.5	17	-81	68	560	350	0.41	<0.050	0.029J	<0.20	68	1.4	5.9	42	22	39	0.77	190	<4.1	<4.1	190	2.7	42	
RIC-MW5	5/14/2018	21.8	7.86	1.0	10	32	68.3	374	320	0.61		0.059J														42	
RIC-MW5	8/6/2018	23.0	6.88	0.4	5	-104	28	448	280	2.4		<0.10														43	
RIC-MW5	12/20/2018	21.6	7.22	1.4	16	96.4	743	861.8	330	2.4		0.19J														45	
RIC-MW5	4/18/2019	17.8	7.67	1.7	17	137	166	931	290	2.2	0.046J	0.062J	0.29	45	1.8	4.6	35	17	32	3.2	150	<4.1	<4.1	150	-3.2	44	
RIC-MW6	5/13/2019	21.1	7.39	0.9	20	-55.0	50	638	310	3.0		<0.2														3	
RIC-MW5	8/12/2019	22.6	7.22	0.4	4	-79.5	58.2	399	250	0.8		<0.2														45	
RIC-MW5	11/19/2019	22.3	8.14	1.2	13	-18.7	NM	439.9	270	2.0		<0.20														45	P
RIC-MW7s	3/22/2013	18.7	6.80	2.7	29	QM	699	1,409	940	<0.10		0.031J														15	
RIC-MW7s	5/17/2013	19.4	7.07	0.9	12	122.5	>1,000	1,744	960	<0.10		0.033J														14	
RIC-MW7s	8/13/2013	20.4	7.20	1.6	18	16	>1,000	1,600	1,100	1.2	0.0078J	0.056	0.24	270	3.4	15	82	110	280	0.56	420	<8.2	<8.2	420	-0.8	14	
RIC-MW7s	11/22/2013	23.0	7.64	0.6	7	37	109	1,154	740	15		0.023J														17	
RIC-MW7s	2/17/2014	20.6	7.54	1.3	14	11.4	237	1,529	980	0.060J		0.043J														13	
RIC-MW7s	5/30/2014	20.5	7.53	3.9	44	-19	480	1,488	1,000	<0.50		0.070J														13	
RIC-MW7s	8/12/2014	21.7	7.27	1.7	21	134	39	1,346	860	<0.20	<0.050	0.13	0.32	260	3.3	13	72	87	260	1.1	390	<8.2	<8.2	390	1.2	12	
RIC-MW7s	11/10/2014	19.9	7.41	0.8	10	153.2	448	1,419	960	<0.10		0.072J														13	
RIC-MW7s	2/17/2015	20.8	7.44	1.1	12	-123	63	1,537	840	<0.1	<0.05	0.082J	0.56	260	3.3	12	64	73	220	0.51	380	<8.2	<8.2	380	4.4	13	
RIC-MW7s	5/11/2015	20.6	7.52	2.2	24	56	482	1,470	880	0.062J		0.069J														14	
RIC-MW7s	8/20/2015	21.3	7.28	1.0	13	249	216	1,451	920	0.10		0.25														14	
RIC-MW7s	11/18/2015	20.9	7.38	1.4	15	-170.1	62	1,475	920	<0.10		0.064J														12	
RIC-MW7s	2/22/2016	22.1	7.52	1.5	18	94	98	1,483	880	<0.10	<0.050	0.054J	0.11J	250	3.3	14	75	100	250	0.53	380	<8.2	<8.2	380	0.7	13	
RIC-MW7s	5/19/2016	23.2	7.35	1.7	20	78	124	1,290	880	0.10		0.12														14	
RIC-MW7s	8/9/2016	21.3	7.37	2.5	26	-192.8	69	1,510	760	0.91		<0.10														15	
RIC-MW7s	11/8/2016	22.2	7.38	1.5	17	113	123	1,400	740	1.1		<0.10														14	
RIC-MW7s	3/28/2017	18.7	7.14	2.6	27	104.9	38	1,044	790	33	<0.050	<0.10	0.15J	110	1.4	53	93	86	77	0.19	320	<8.2	<8.2	320	3.9	15	
RIC-MW7s	5/16/2017	18.6	7.10	1.1	11	42	107	1,061	740	1.5		0.11														14	
RIC-MW7s	8/21/2017	22.0	7.16	4.7	29	58.5	18	1,439	860	2.4		0.034J														16	
RIC-MW7s	11/21/2017	21.1	7.25	1.5	15	-11	77	1,110	760	2.3		0.13														14	
RIC-MW7s	2/5/2018	21.1	8.01	2.3	26	-161	81	1,236	800	0.70	<0.050	<0.10	0.13J	130	3.0	25	110	110	200	0.32	360	<8.2	<8.2	360	-4.5	13	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
RIC-MW7s	5/14/2018	20.9	7.28	1.5	17	102.8	78.7	1,267	1,100	0.42		0.052J														14	
RIC-MW7s	8/6/2018	24.1	7.02	5.0	54	-94	27	1,034	690	<0.20		0.048J														15	
RIC-MW7s	12/20/2018	20.3	7.65	1.2	13	0.3	147	1,895	960	0.087J		0.13J														13	
RIC-MW7s	4/18/2019	19.0	7.26	1.4	18	112	121	1,374	1,100	<0.10	0.013J	<0.20	0.058J	290	2.6	9.4	49	110	310	0.90	400	<8.2	<8.2	400	-5	14	
RIC-MW7s	5/13/2019	20.6	6.93	1.1	13	34.9	130	1,101	830	3.1		<0.2														14	
RIC-MW7s	8/12/2019	21.1	7.49	0.5	6	-42.8	77.2	1,994	1,300	0.11		0.084J														14	
RIC-MW7s	11/19/2019	21.6	7.54	1.3	15	33.4	251	1,915	1,100	0.15		<0.20														13	
RIC-MW8s	3/22/2013	19.1	9.69	1.2	21	QM	898	738	470	0.088J		0.090														16	
RIC-MW8s	5/17/2013	19.8	9.90	0.9	10	40.1	818	786	430	<0.10		0.10														16	
RIC-MW8s	8/13/2013	21.5	10.30	0.7	8	40	218	772	440	<0.10	0.0031J	0.13	0.26	150	5.5	0.98	2.5	43	97	0.24	82	110	<4.1	192	-1.4	16	
RIC-MW8s	11/22/2013	20.5	11.81	0.5	6	-70	162	806	420	<0.10		0.13														15	
RIC-MW8s	2/17/2014	20.8	10.14	1.4	13	-33.1	238	753	430	<0.10		0.049J														15	
RIC-MW8s	5/30/2014	21.3	9.69	2.3	26	-26	>1,000	778	500	<0.10		0.068J														15	
RIC-MW8s	8/12/2014	22.4	9.18	1.7	23	13	28	702	490	<0.10	<0.050	0.11	0.34	150	4.2	2.3	8.4	49	100	0.60	160	36	<4.1	196	-1	14	
RIC-MW8s	11/10/2014	19.5	7.80	1.4	16	142.9	258	708	490	<0.10		0.14														14	
RIC-MW8s	2/17/2015	21.6	9.21	1.2	14	-154	73	848	510	<0.1	<0.05	0.079J	0.082J	180	4.4	3.7	14	48	110	0.28	190	25	<4.1	215	5.9	15	
RIC-MW8s	5/11/2015	21.1	9.38	1.8	21	57	842	888	520	<0.10		0.093J														15	
RIC-MW8s	8/20/2015	21.7	8.76	1.2	14	207	187	792	510	<0.10		0.18														14	
RIC-MW8s	11/18/2015	21.2	8.49	1.2	13	-177	56	850	570	<0.10		0.14														13	
RIC-MW8s	2/22/2016	21.1	8.79	2.9	32	37	135	829	530	<0.10	<0.050	0.089J	0.20	150	3.1	5.8	21	48	110	0.37	200	20	<4.1	220	0.5	13	
RIC-MW8s	5/20/2016	19.8	8.19	2.8	30	21	119	985	500	0.075J		0.095J														14	
RIC-MW8s	8/9/2016	21.8	8.56	3.7	39	-201	40	973	580	<0.10		0.067J														15	
RIC-MW8s	11/8/2016	22.2	8.00	2.6	30	17	207	910	440	0.086J		0.055J														14	
RIC-MW8s	3/28/2017	19.2	8.58	3.0	33	78.3	21	731	600	<0.10	<0.050	0.062J	0.12J	160	3.0	11	58	49	130	0.32	320	<4.1	<4.1	320	1.6	15	
RIC-MW8s	5/16/2017	18.6	8.33	1.5	15	-38	84	719	540	<0.10		0.12														15	
RIC-MW8s	8/21/2017	21.6	8.11	5.1	61	28.4	35	855	590	<0.10		0.081J														16	
RIC-MW8s	11/21/2017	20.7	7.17	1.4	16	-44	97	1,066	660	<0.1		0.082J														16	
RIC-MW8s	2/5/2018	21.0	7.28	1.3	20	-94	59	1,184	590	0.038J	<0.050	0.081J	0.18J	190	3.2	5.8	16	61	140	1.7	180	23	<4.1	203	4.8	14	
RIC-MW8s	5/14/2018	21.3	7.97	1.6	17	172.1	74.9	788	700	<0.10*		0.077J														14	H
RIC-MW8s	8/6/2018	22.3	7.79	3.1	30	25	39	893	1,200	<0.20		<0.10														15	
RIC-MW8s	12/20/2018	19.7	7.95	0.9	10	-11.2	>1,000	1,523	760	<0.10		0.18J														16	
RIC-MW8s	4/18/2019	19.3	8.10	2.2	29	42	109	1,031	700	<0.10	<0.050	<0.20	0.083J	180	3.0	10	39	69	150	0.34	310	<8.2	<8.2	310	-2.7	15	
RIC-MW8s	5/13/2019	20.6	8.02	1.0	18	-53.9	79	794	670	0.11		0.098J														16	
RIC-MW8s	8/12/2019	21.8	7.90	0.6	6	-41.2	9.2	1,158	720	<0.1		0.11J														16	
RIC-MW8d	11/19/2019	21.2	7.58	0.8	5	2.3	452	1,545	860	<0.10		0.13J														33	
RIC-MW9s	3/22/2013	19.3	6.74	2.4	27	QM	139	1,030	650	16		<0.050														17	
RIC-MW9s	5/17/2013	20.2	7.00	1.1	12	83.3	10	1,108	680	16		0.035J														18	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
RIC-MW9s	8/13/2013	24.5	7.10	1.2	14	26	49	1,070	710	17	0.0059J	0.022J	0.51	94	1.4	43	77	55	58	0.098J	380	<4.1	<4.1	380	-0.3	19	
RIC-MW9s	11/22/2013	20.6	7.39	1.7	19	47	>1,000	1,556	1,000	0.045J		0.052														13	
RIC-MW9s	2/17/2014	20.8	7.20	1.3	15	-30		1,225	680	14		<0.050														15	
RIC-MW9s	5/30/2014	21.5	7.27	3.0	34	1	304	1,083	700	12		<0.10														17	
RIC-MW9s	8/12/2014	24.3	7.08	2.4	32	127	29	1,088	530	31	<0.050	0.048J	0.22	110	1.5	50	90	67	56	0.49	360	<8.2	<8.2	360	3.7	16	
RIC-MW9s	11/10/2014	21.8	7.86	1.5	20	119.0	344	1,140	710	22		0.040J														16	
RIC-MW9s	2/17/2015	21.5	7.11	2.3	26	-104	96	1,368	770	28	<0.05	<0.1	0.38	110	1.7	57	98	69	60	0.7	390	<8.2	<8.2	390	5.1	16	
RIC-MW9s	5/11/2015	21.5	7.29	2.3	26	103	113	1,468	840	18		0.045J														16	
RIC-MW9s	8/20/2015	23.6	7.11	2.2	27	262	21	1,335	820	35		0.038J														16	
RIC-MW9s	11/18/2015	22.2	7.12	1.5	26	-148	84	1,116	690	6.7		0.046J														14	
RIC-MW9s	2/22/2016	20.7	7.39	2.5	28	83	32	982	610	5.3	0.022J	0.043J	0.54	94	1.5	36	68	56	83	0.37	340	<4.1	<4.1	340	-0.1	14	
RIC-MW9s	5/20/2016	19.2	7.27	2.4	27	75	47	975	720	13		0.052J														15	
RIC-MW9s	8/9/2016	22.3	7.07	2.8	33	-270	27	1,340	690	25		<0.10														15	
RIC-MW9s	11/8/2016	21.3	7.29	2.5	28	85	72	958	740	23		<0.10														13	
RIC-MW9s	3/28/2017	18.8	7.04	3.0	32	104.8	20	999	800	1.7	<0.050	<0.10	0.13J	160	3.2	29	120	110	200	0.22	350	<8.2	<8.2	350	3.4	17	
RIC-MW9s	5/16/2017	17.8	7.20	2.7	28	44	24	1,030	820	36		0.074J														17	
RIC-MW9s	8/21/2017	24.4	7.04	3.8	45	56.6	6.0	1,494	1,000	36		0.037J														18	
RIC-MW9s	11/21/2017	21.3	7.16	1.1	13	-36	113	1,390	QM	35		0.050J														15	
RIC-MW9s	2/5/2018	21.3	7.60	1.9	21	-65	85	1,046	940	34	0.027J	<0.10	<0.20	120	1.4	55	99	94	80	0.38	380	<8.2	<8.2	380	1.3	15	
RIC-MW9s	5/14/2018	21.3	7.10	1.5	17	132.9	35.7	1,060	970	39*		0.050J														16	H
RIC-MW9s	8/6/2018	23.4	6.58	1.6	22	-99	NM	1,581	990	55		<0.10														18	
RIC-MW9s	12/20/2018	21.4	7.85	1.5	17	-19.8	29	1,541	870	48		0.17J														15	
RIC-MW9s	4/18/2019	19.3	7.25	2.5	28	90	58	1,111	940	48	0.93	<0.20	0.40	110	1.9	59	110	89	75	0.42	390	<8.2	<8.2	390	-0.7	15	
RIC-MW9s	5/13/2019	19.5	7.54	1.9	22	44.0	33	1,148	960	50		<0.2														19	
RIC-MW9s	8/12/2019	24.3	7.33	0.6	6	-28.6	9.6	1,448	960	54		<0.2														19	
RIC-MW9d	11/19/2019	21.5	8.01	1.1	9	22.3	>1,000	1,251	670	0.57		0.095J														35	
SIE-MW1	12/14/2004									87	<0.1							67.4			340						
SIE-MW1	5/18/2005									107											560						
SIE-MW1	9/15/2005									102											440						
SIE-MW1	4/26/2006									100											860						
SIE-MW1	9/14/2006									85.8											440						
SIE-MW1	3/21/2013	18.1	7.50	3.0	31	230	>1,000	990	780	55		0.031J														18	
SIE-MW1	5/16/2013	20.6	7.40	0.9	11	-49	>1,000	720	470	30		0.036J														7	
SIE-MW1	8/14/2013	*Well Dry*																									
SIE-MW1	11/21/2013	18.9	7.09	6.0	64	133	108	1,160	800	48		<0.050														35	
SIE-MW1	2/19/2014	19.3	7.33	5.7	62	-31.1	>1,000	1,138	750	51		<0.050														34	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
SIE-MW1	5/29/2014	19.4	7.00	5.0	54	64	485	1,239	780	63		<0.10														35	
SIE-MW1	8/13/2014	19.5	6.72	6.8	78	280	222	853	620	34	<0.050	0.079J	0.38	92	1.8	20	99	16	32	5.7	310	<4.1	<4.1	310	3.5	36	
SIE-MW1	11/13/2014	18.3	7.23	6.6	71	151	187	760	460	25		0.066J														38	
SIE-MW1	2/16/2015	19.5	6.97	5.4	58	-86	130	1,479	670	47	<0.050	<0.10	0.24	79	1.8	26	130	19	35	<0.15	300	<8.2	<8.2	300	6.6	40	
SIE-MW1	5/12/2015	19.7	7.09	6.7	75	139	428	1,033	630	40		<0.10														37	
SIE-MW1	8/26/2015	19.8	7.17	9.7	107	31	362	779	450	28		<0.10														36	
SIE-MW1	11/16/2015	18.6	6.90	5.9	62	-20	195	780	510	27		0.043J														37	
SIE-MW1	2/25/2016	18.2	7.09	6.3	68	149	>1,000	841	600	34	<0.050	<0.10	2.0	47	1.7	22	110	14	28	4.1	270	<4.1	<4.1	270	2.5	34	
SIE-MW1	5/3/2016	19.5	7.00	4.7	52	-80	249	934	540	37		0.025J														32	
SIE-MW1	8/24/2016	19.5	7.00	4.7	52	-80	249	934	540	29		0.037J														32	
SIE-MW1	11/9/2016	18.7	7.06	6.3	68	132	>1,000	830	450	24		0.038J														45	
SIE-MW1	3/29/2017	19.4	7.11	6.7	72	146.3	117	624	430	26	<0.050	0.028J	0.36	39	1.2	19	96	21	53	0.54	210	<4.1	<4.1	210	2	36	
SIE-MW1	5/17/2017	17.7	7.02	6.2	62	-11	96	610	510	26		<0.10														36	
SIE-MW1	8/22/2017	20.4	7.00	5.3	61	80.3	279	742	490	26		0.022J														44	
SIE-MW1	11/27/2017	19.6	7.01	0.7	25	63	361	1,380	480	21		<0.1														42	
SIE-MW1	2/6/2018	20.1	7.74	3.0	37	90	263	1,950	530	32	0.016J	0.028J	0.78	29	1.2	20	100	17	37	1.5	230	<4.1	<4.1	230	-1.6	39	
SIE-MW1	5/16/2018	19.8	6.93	7.0	75	152.1	283	626	570	34		0.029J														33	
SIE-MW1	8/7/2018	23.0	7.00	5.9	65	149	111	1,136	570	34		0.018J														35	
SIE-MW1	11/14/2018	17.9	6.99	5.2	52	-6	125	661	660	32		0.034J														35	
SIE-MW1	2/13/2019	16.9	6.85	6.7	73	185	285	1,114	430	29	<0.050	0.084J	0.52	29	1.6	18	97	15	35	0.49	220	<4.1	<4.1	220	0	37	
SIE-MW1	5/15/2019	18.2	6.20	5.0	46	-17.4	130	692	190	9.5		<0.2														34	
SIE-MW1	8/13/2019	19.0	7.13	3.4	39	148.9	6.3	785	480	33		<0.2														41	
SIE-MW1	11/20/2019	18.6	7.56	6.2	66	81.2	182	874	560	30		<0.20														39	
SIE-MW2	6/15/2003									39	<0.1										720						
SIE-MW2	9/10/2003									35.4	<0.1										750						
SIE-MW2	3/12/2004									41.5	<0.1							78.4			680						
SIE-MW2	5/18/2005									46.7											850						
SIE-MW2	9/15/2005									34.1											880						
SIE-MW2	4/26/2006									46											940						
SIE-MW2	9/14/2006									36											950						
SIE-MW2	3/21/2013	*Well Dry*																									
SIE-MW2	5/16/2013	*Well Dry*																									
SIE-MW2	8/14/2013	*Well Dry*																									
SIE-MW2	11/21/2013	*Well Dry*																									
SIE-MW2	2/19/2014	*Well Dry*																									
SIE-MW2	5/29/2014	*Well Dry*																									
SIE-MW2	8/13/2014	*Well Dry*																									
SIE-MW2	11/13/2014	*Well Dry*																									

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
SIE-MW2	2/16/2015	*Well Dry*																									
SIE-MW2	5/12/2015	*Well Dry*																									
SIE-MW2	8/26/2015	*Well Dry*																									
SIE-MW2	11/16/2015	*Well Dry*																									
SIE-MW2	2/25/2016	*Well Dry*																									
SIE-MW2	5/3/2016	*Well Dry*																									
SIE-MW2	8/24/2016	*Well Dry*																									
SIE-MW2	11/9/2016	*Well Dry*																									
SIE-MW2	3/29/2017	*Well Dry*																									
SIE-MW2	5/17/2017	*Well Dry*																									
SIE-MW2	8/22/2017	*Well Dry*																									
SIE-MW2	11/27/2017	*Well Dry*																									
SIE-MW2	2/6/2018	*Well Dry*																									
SIE-MW2	5/16/2018	*Well Dry*																									
SIE-MW2	8/7/2018	*Well Dry*																									
SIE-MW2	11/14/2018	*Well Dry*																									
SIE-MW2	2/13/2019	*Well Dry*																									
SIE-MW2	5/15/2019	*Well Dry*																									
SIE-MW2	8/13/2019	*Well Dry*																									
SIE-MW2	11/20/2019	*Well Dry*																									
SIE-MW3	12/14/2004								509	20.7			<0.1	52.7	4.9	25.8	66.0	41.2	39.1		234.0	<0.1					
SIE-MW3	5/18/2005									46.7											340						
SIE-MW3	9/15/2005									21.6											210						
SIE-MW3	4/26/2006									31.1											300						
SIE-MW3	9/14/2006									41.2	<										340						
SIE-MW3	3/21/2013	18.6	7.60	3.1	34	204	>1,000	698	550	35		0.030J														18	
SIE-MW3	5/16/2013	19.5	7.30	1.0	11	-77	>1,000	760	470	31		0.019J														10	
SIE-MW3	8/14/2013	23.6	7.40	7.0	84	24	>1,000	824	520	33	0.0052J	0.040J	3.1	31	3.1	30	82	19	35	49	210	<4.1	<4.1	210	-7.9	6	P
SIE-MW3	11/21/2013	*Well Dry*																									
SIE-MW3	2/19/2014	*Well Dry*																									
SIE-MW3	5/29/2014	*Well Dry*																									
SIE-MW3	8/13/2014	*Well Dry*																									
SIE-MW3	11/13/2014	*Well Dry*																									
SIE-MW3	2/16/2015	*Well Dry*																									
SIE-MW3	5/12/2015	19.6	7.32	6.2	68	123	214	1,298	840	81		<0.10														10	
SIE-MW3	8/26/2015	19.5	7.12	10.94	130	102	200	1,115	510	70		<0.10														10	
SIE-MW3	11/16/2015	18.7	7.25	6.6	72	-38	29	966	630	47		0.027J														13	
SIE-MW3	2/25/2016	17.9	7.27	6.5	69	170	174	1,060	720	55	<0.050	0.025J	<0.20	40	4.1	43	110	26	42	0.23	250	<8.2	<8.2	250	1.6	11	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
SIE-MW3	5/3/2016	19.8	7.21	6.1	68	-73	85	1,147	680	65		0.047J														9	
SIE-MW3	8/24/2016	19.8	7.21	6.1	68	-73	85	1,147	660	44		0.032J														9	
SIE-MW3	11/9/2016	18.1	6.99	6.4	68	155	>1,000	1,049	590	40		0.049J														30	
SIE-MW3	3/29/2017	20.3	7.17	6.8	77	98.7	53	758	480	35	<0.050	0.020J	0.18J	47	3.1	35	100	23	52	0.56	250	<4.1	<4.1	250	3.9	19	
SIE-MW3	5/17/2017	17.9	7.16	6.1	65	80	>1,000	743	580	35		0.029J														0	
SIE-MW3	8/22/2017	24.0	7.29	9.1		-132.6	255	868	570	30		<0.10														0	
SIE-MW3	11/27/2017	19.5	6.45	2.0	38	210	303	1,943	490	24		<0.1														23	
SIE-MW3	2/6/2018	21.1	7.63	3.6	46	65	679	970	470	22	0.015J	0.020J	<0.20	37	2.3	24	78	16	40	0.68	230	<4.1	<4.1	230	0.4	28	
SIE-MW3	5/16/2018	19.7	6.95	8.3	90	218	221	620	540	28		<0.10														15	
SIE-MW3	8/7/2018	21.0	7.01	3.4	39	175.6	34	764	560	25		<0.10														29	
SIE-MW3	11/14/2018	17.4	7.05	6.0	70	86	>1,000	790	510	24		0.045J														24	
SIE-MW3	2/13/2019	17.7	6.85	5.7	69	149	724	1,151	410	21	<0.050	0.063J	0.31	44	2.2	22	73	11	33	7.7	250	<4.1	<4.1	250	-2	25	
SIE-MW3	5/15/2019	18.1	6.97	3.3	51	49.9	406	805	450	22		<0.2														15	
SIE-MW3	8/13/2019	20.0	7.35	5.3	60	150.1	7.1	688	410	21		<0.2														32	
SIE-MW3	11/20/2019	19.1	7.90	6.2	67	82.3	>1,000	777	450	21		<0.20														30	
SIE-MW4	4/8/2006								660	35.5		0.2							35.0		160	<6					
SIE-MW4	4/26/2006									37.7												<6					
SIE-MW4	9/14/2006								730	39.2	<0.1	0.2	<0.5	85.0	4.0	36.0	104.0	55.0	23.0		350	<6					
SIE-MW4	3/21/2013	*Well Not Accessible*																									
SIE-MW4	5/16/2013	*Well Not Accessible*																									
SIE-MW4	8/14/2013	*Well Dry*																									
SIE-MW4	11/21/2013	*Well Dry*																									
SIE-MW4	2/19/2014	*Well Dry*																									
SIE-MW4	5/29/2014	*Well Dry*																									
SIE-MW4	8/13/2014	*Well Dry*																									
SIE-MW4	11/13/2014	*Well Dry*																									
SIE-MW4	2/16/2015	*Well Dry*																									
SIE-MW4	5/12/2015	*Well Dry*																									
SIE-MW4	8/26/2015	*Well Dry*																									
SIE-MW4	11/16/2015	*Well Dry*																									
SIE-MW4	2/25/2016	*Well Dry*																									
SIE-MW4	5/3/2016	*Well Dry*																									
SIE-MW4	8/24/2016	*Well Dry*																									
SIE-MW4	11/9/2016	*Well Dry*																									
SIE-MW4	3/29/2017	*Well Dry*																									
SIE-MW4	5/17/2017	*Well Dry*																									
SIE-MW4	8/22/2017	*Well Dry*																									
SIE-MW4	11/27/2017	*Well Dry*																									

Table 4-6
Groundwater Quality

Well	Date	-------Field Measurements------- T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	----Alkalinity as CaCO3---- HCO3	CO3	OH	Total	CAB %	HI	Q
SIE-MW4	2/6/2018	*Well Dry*																									
SIE-MW4	5/16/2018	*Well Dry*																									
SIE-MW4	8/7/2018	*Well Dry*																									
SIE-MW4	11/14/2018	*Well Dry*																									
SIE-MW4	2/13/2019	*Well Dry*																									
SIE-MW4	5/15/2019	*Well Dry*																									
SIE-MW4	8/13/2019	*Well Dry*																									
SIE-MW4	11/20/2019	*Well Dry*																									
SO2-MW1	5/3/2003								813	32.5	<0.1		0.8	121	17.5	46.8	118	69.6	83.9		323.0	<0.1					
SO2-MW1	12/4/2003								625	22.8	<0.1		1.9	96.9	14.4	32.7	78.5	41.2	65.9		304.0	<0.1					
SO2-MW1	5/13/2004								598	19.7	<0.1		0.6	97.8	4.6	21.3	69.7	36.8	62.9		291.0	<0.1					
SO2-MW1	12/7/2004								880	33.2	<0.1		2.8	123	6.5	32.9	107	72.7	93.1		346.0	<0.1					
SO2-MW1	5/18/2005								792		<0.1		<1	105	7.8	29.0	95	60.93	106.5		344.0	<1					
SO2-MW1	12/19/2005								710	21.9	<0.1		2.0	102	3.3	21.8	75.7	45.2	71.7		314.0	<1					
SO2-MW1	5/11/2006								490	11.3	<0.1		<1	80.3	4.7	15.1	49.8	23.4	42.3		257.0	<1					
SO2-MW1	12/6/2006								338	4.70	<0.1		<1	69	2.1	9.4	32.9	11.1	22.5		224.0	<1					
SO2-MW1	3/19/2013	20.5	8.20	4.2	46	132	>1,000	913	410	3.1		0.024J														6	
SO2-MW1	5/14/2013	21.6	7.76	2.7	33	QM	728	548	390	2.9		0.024J														4	
SO2-MW1	8/16/2013	*Well Dry*																									
SO2-MW1	11/19/2013	*Well Dry*																									
SO2-MW1	2/21/2014	*Well Dry*																									
SO2-MW1	5/22/2014	*Well Dry*																									
SO2-MW1	8/21/2014	*Well Dry*																									
SO2-MW1	11/13/2014	*Well Dry*																									
SO2-MW1	2/25/2015	*Well Dry*																									
SO2-MW1	5/14/2015	*Well Dry*																									
SO2-MW1	8/19/2015	*Well Dry*																									
SO2-MW1	11/19/2015	*Well Dry*																									
SO2-MW1	2/24/2016	*Well Dry*																									
SO2-MW1	5/5/2016	*Well Dry*																									
SO2-MW1	8/8/2016	*Well Dry*																									
SO2-MW1	11/9/2016	*Well Dry*																									
SO2-MW1	3/22/2017	*Well Dry*																									
SO2-MW1	5/10/2017	*Well Dry*																									
SO2-MW1	8/24/2017	*Well Dry*																									
SO2-MW1	11/22/2017	*Well Dry*																									

Table 4-6
Groundwater Quality

		-------Field Measurements-------																	----Alkalinity as CaCO3----						
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
SO2-MW1	2/8/2018	*Well Dry*																									
SO2-MW1	5/10/2018	*Well Dry*																									
SO2-MW1	8/8/2018	*Well Dry*																									
SO2-MW1	11/29/2018	*Well Dry*																									
SO2-MW1	2/15/2019	*Well Dry*																									
SO2-MW1	5/16/2019	*Well Dry*																									
SO2-MW1	8/15/2019	*Well Dry*																									
SO2-MW1	11/21/2019	*Well Dry*																									
SO2-MW2	5/3/2003								1,333	83.4	<0.1		1.9	153	29.1	97.7	210	157	116.0		426.0	<0.1					
SO2-MW2	12/14/2003								1,353	91.6	<0.1		2.5	135	18.9	76.2	188	142	99.1		456.0	<0.1					
SO2-MW2	5/13/2004								1,303	78	<0.1		0.3	135	5.1	56.6	181	136	93.8		455.0	<0.1					
SO2-MW2	12/7/2004								1,503	102	<0.1		2.1	140	6.1	67.6	211	156	106.0		424.0	<0.1					
SO2-MW2	5/18/2005								1,409	2.1	<0.1		1.8	116	7.2	65.3	151	168	120.0		461.0	<1					
SO2-MW2	12/19/2005								1,500	82.9	<0.1		<1	122	4.2	58.2	184	137	105.0		423.0	<1					
SO2-MW2	5/11/2006								1,210	58.4	<0.1		<1	113.7	7.2	51.1	162.9	111	104.6		425.0	<1					
SO2-MW2	12/6/2006								975	29.60	<0.1		<1	107	3.7	43.5	138	114	87.4		433.0	<1					
SO2-MW2	3/22/2013	20.3	6.93	4.1	49	QM	>1,000	2,355	1,900	110		0.046J														5	
SO2-MW2	5/14/2013	*Well Dry*																									
SO2-MW2	8/16/2013	*Well Dry*																									
SO2-MW2	11/19/2013	*Well Dry*																									
SO2-MW2	2/21/2014	*Well Dry*																									
SO2-MW2	5/22/2014	*Well Dry*																									
SO2-MW2	8/21/2014	*Well Dry*																									
SO2-MW2	11/13/2014	*Well Dry*																									
SO2-MW2	2/25/2015	*Well Dry*																									
SO2-MW2	5/14/2015	*Well Dry*																									
SO2-MW2	8/19/2015	*Well Dry*																									
SO2-MW2	11/19/2015	*Well Dry*																									
SO2-MW2	2/24/2016	*Well Dry*																									
SO2-MW2	5/5/2016	*Well Dry*																									
SO2-MW2	8/8/2016	*Well Dry*																									
SO2-MW2	11/9/2016	*Well Dry*																									
SO2-MW2	3/22/2017	*Well Dry*																									
SO2-MW2	5/10/2017	*Well Dry*																									
SO2-MW2	8/24/2017	*Well Dry*																									
SO2-MW2	11/22/2017	*Well Dry*																									
SO2-MW2	2/8/2018	*Well Dry*																									
SO2-MW2	5/10/2018	*Well Dry*																									

Table 4-6
Groundwater Quality

		-------Field Measurements-------							----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	----Alkalinity as CaCO3---- HCO3	CO3	OH	Total	CAB %	HI	Q
SO2-MW2	8/8/2018	*Well Dry*																										
SO2-MW2	11/29/2018	*Well Dry*																										
SO2-MW2	2/15/2019	*Well Dry*																										
SO2-MW2	5/16/2019	*Well Dry*																										
SO2-MW2	8/15/2019	*Well Dry*																										
SO2-MW2	11/21/2019	*Well Dry*																										
SO2-MW3	5/3/2003								1,428		<0.1		0.6	165	13.2	131.0	201	207	107.0		945.0	<0.1					
SO2-MW3	12/4/2003								1,383		<0.1		2.4	149	10.7	106.0	210	155	106.0		969.0	<0.1					
SO2-MW3	5/13/2004								1,420		<0.1		2.1	144	5	97.9	214	162	94.3		1,019	<0.1					
SO2-MW3	12/7/2004								1,413		<0.1		1.9	147	4.2	92.7	199	189	106.0		889.0	<0.1					
SO2-MW3	5/18/2005								1,253	<0.1	3.8		3.6	125	5.9	77.3	179	214	159.0		660.0	<1					
SO2-MW3	12/19/2005								1,400	0.1	<0.1		<1	147	3.9	110.0	196	207	108.0		981.0	<1					
SO2-MW3	5/11/2006								1,325		<0.1		1.8	138.7	8.6	85.3	189.8	173	135.8		791.0	<1					
SO2-MW3	12/6/2006								1,453	<0.1	<0.1		2.0	155	4.1	107.0	208	238	126.0		957.0	<1					
SO2-MW3	3/22/2013	*Well Dry*																										
SO2-MW3	5/14/2013	*Well Dry*																										
SO2-MW3	8/16/2013	*Well Dry*																										
SO2-MW3	11/19/2013	*Well Dry*																										
SO2-MW3	2/21/2014	*Well Dry*																										
SO2-MW3	5/22/2014	*Well Dry*																										
SO2-MW3	8/21/2014	*Well Dry*																										
SO2-MW3	11/13/2014	*Well Dry*																										
SO2-MW3	2/25/2015	*Well Dry*																										
SO2-MW3	5/14/2015	*Well Dry*																										
SO2-MW3	8/19/2015	*Well Dry*																										
SO2-MW3	11/19/2015	*Well Dry*																										
SO2-MW3	2/24/2016	*Well Dry*																										
SO2-MW3	5/5/2016	*Well Dry*																										
SO2-MW3	8/8/2016	*Well Dry*																										
SO2-MW3	11/9/2016	*Well Dry*																										
SO2-MW3	3/22/2017	*Well Dry*																										
SO2-MW3	5/10/2017	*Well Dry*																										
SO2-MW3	8/24/2017	*Well Dry*																										
SO2-MW3	11/22/2017	*Well Dry*																										
SO2-MW3	2/8/2018	*Well Dry*																										
SO2-MW3	5/10/2018	*Well Dry*																										
SO2-MW3	8/8/2018	*Well Dry*																										
SO2-MW3	11/29/2018	*Well Dry*																										

Table 4-6
Groundwater Quality

		-------Field Measurements-------																		----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
SO2-MW3	2/15/2019	*Well Dry*																									
SO2-MW3	5/16/2019	*Well Dry*																									
SO2-MW3	8/15/2019	*Well Dry*																									
SO2-MW3	11/21/2019	*Well Dry*																									
SO2-MW4	5/3/2003								1,283	70.00	<0.1		0.6	154	19.3	74.2	195	151	95.8		487.0	<0.1					
SO2-MW4	12/4/2003								1,213	64.80	<0.1		2.3	142	18.6	67.8	180	128	94.1		498.0	<0.1					
SO2-MW4	5/13/2004								1,218	62.70	<0.1		0.4	139	5.9	56.7	173	133	89.6		495.0	<0.1					
SO2-MW4	12/7/2004								1,168	66.90	<0.1		0.3	140	5.3	53.5	158	134	93.7		412.0	<0.1					
SO2-MW4	5/18/2005								1,105	<0.1	<0.1		<1	90	5.8	37.5	120	143	105.0		397.0	<1					
SO2-MW4	12/19/2005								1,200	64.60	<0.1		<1	148	4.8	48.2	150	145	88.3		404.0	<1					
SO2-MW4	5/11/2006								1,180	59.20	<0.1		<1	139	9.2	50.6	157	128	86.3		427.0	<1					
SO2-MW4	12/6/2006								1,165	65.20	<0.1		<1	148	5.2	53.5	162	160	85.5		488.0	<1					
SO2-MW4	3/19/2013	18.9	7.70	6.8	75	QM	89	1,815	1,200	53		0.030J														2	
SO2-MW4	5/14/2013	*Well Dry*																									
SO2-MW4	8/16/2013	*Well Dry*																									
SO2-MW4	11/19/2013	*Well Dry*																									
SO2-MW4	2/21/2014	*Well Dry*																									
SO2-MW4	5/22/2014	*Well Dry*																									
SO2-MW4	8/21/2014	*Well Dry*																									
SO2-MW4	11/13/2014	*Well Dry*																									
SO2-MW4	2/25/2015	*Well Dry*																									
SO2-MW4	5/14/2015	*Well Dry*																									
SO2-MW4	8/19/2015	*Well Dry*																									
SO2-MW4	11/19/2015	*Well Dry*																									
SO2-MW4	2/24/2016	*Well Dry*																									
SO2-MW4	5/5/2016	*Well Dry*																									
SO2-MW4	8/8/2016	*Well Dry*																									
SO2-MW4	11/9/2016	*Well Dry*																									
SO2-MW4	3/22/2017	*Well Dry*																									
SO2-MW4	5/10/2017	*Well Dry*																									
SO2-MW4	8/24/2017	*Well Dry*																									
SO2-MW4	11/22/2017	*Well Dry*																									
SO2-MW4	2/8/2018	*Well Dry*																									
SO2-MW4	5/10/2018	*Well Dry*																									
SO2-MW4	8/8/2018	*Well Dry*																									
SO2-MW4	11/29/2018	*Well Dry*																									
SO2-MW4	2/15/2019	*Well Dry*																									
SO2-MW4	5/16/2019	*Well Dry*																									

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
SO2-MW4	8/15/2019	*Well Dry*																									
SO2-MW4	11/21/2019	*Well Dry*																									
SO2-MW5s	3/19/2013	19.0	8.03	6.6	73	QM	>1,000	1,970	1,300	50		0.029J														23	
SO2-MW5s	5/14/2013	19.8	6.48	5.0	68	QM	170	1,819	1,300	50		0.033J														21	
SO2-MW5s	8/16/2013	19.3	6.50	5.2	56	62	>1,000	2,063	1,300	49	0.0061J	0.046J	0.68	170	4.8	51	200	220	160	0.72	430	<8.2	<8.2	430	0.1	12	
SO2-MW5s	11/19/2013	19.4	6.90	4.8	52	120	48	2,012	1,300	47		<0.050														12	
SO2-MW5s	2/21/2014	18.6	6.90	4.0	43	14	71	2,084	1,300	39		<0.050														14	
SO2-MW5s	5/22/2014	19.6	6.74	3.9	43	31	606	1,827	1,300	40		<0.10														10	
SO2-MW5s	8/21/2014	19.7	6.94	8.4	93	79	835	1,814	1,600	43	<0.050	0.061J	0.62	180	4.5	50	180	220	180	<0.15	400	<8.2	<8.2	400	0.1	3	
SO2-MW5s	11/13/2014	19.5	6.86	6.0	65	49.4	701	1,756	1,000	35		<0.10														3	
SO2-MW5s	2/25/2015	18.4	7.09	7.5	81	191	78	1,829	1,000	35	<0.05	<0.1	0.71	150	4	41	150	170	130	0.29	300	<8.2	<8.2	300	4.4	3	
SO2-MW5d	5/14/2015	19.6	6.88	4.3	48	48	89	1,972	1,200	41		0.032J														15	
SO2-MW5d	8/19/2015	21.4	6.95	3.9	44	262	>1,000	1,809	1,100	39		<0.10														9	
SO2-MW5d	11/16/2015	MI	MI	MI	MI	MI	MI	MI	1,100	42		0.046J															
SO2-MW5d	2/24/2016	19.3	6.97	6.8	75	101	194	1,633	710	28	<0.050	0.042J	0.71	110	2.8	21	83	120	91	0.18	150	<8.2	<8.2	150	2.1	11	
SO2-MW5d	5/5/2016	19.6	7.05	3.9	45	240	>1,000	1,864	960	42		0.050J														7	
SO2-MW5d	8/8/2016	*Well Dry*																									
SO2-MW5d	11/9/2016	*Well Dry*																									
SO2-MW5d	3/22/2017	*Well Dry*																									
SO2-MW5d	5/10/2017	*Well Not Accessible*																									
SO2-MW5d	8/24/2017	*Well Not Accessible*																									
SO2-MW5d	11/22/2017	*Well Dry*																									
SO2-MW5s	2/8/2018	*Well Dry*																									
SO2-MW5s	5/10/2018	*Well Dry*																									
SO2-MW5s	8/8/2018	*Well Dry*																									
SO2-MW5d	11/29/2018	*Well Dry*																									
SO2-MW5d	2/15/2019	*Well Dry*																									
SO2-MW5s	5/16/2019	*Well Dry*																									
SO2-MW5d	8/15/2019	*Well Dry*																									
SO2-MW5d	11/21/2019	*Well Dry*																									
SO2-MW6s	3/19/2013	19.1	8.05	5.3	76	QM	>1,000	1,848	1,200	44		0.023J														20	
SO2-MW6s	5/14/2013	22.0	6.54	5.1	60	QM	79	1,744	1,200	40		0.024J														18	
SO2-MW6s	8/16/2013	19.0	6.60	4.8	51	57	>1,000	1,787	1,100	41	0.0016J	0.039J	0.77	120	5.0	51	200	190	96	9.6	450	<8.2	<8.2	450	-0.1	10	
SO2-MW6s	11/19/2013	18.8	6.90	5.6	60	127	>1,000	1,634	1,100	41		<0.050														10	
SO2-MW6s	2/21/2014	18.9	6.97	5.3	68	34	>1,000	1,785	1,000	38		<0.050														11	
SO2-MW6s	5/22/2014	20.0	6.94	4.2	46	-14	>1,000	1,687	1,200	38		<0.10														7	
SO2-MW6d	8/21/2014	19.6	6.72	9.1	100	26	464	1,626	960	42	<0.050	0.035J	0.59	150	4.5	43	170	190	95	0.92	410	<8.2	<8.2	410	0.3	13	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
SO2-MW6d	11/13/2014	18.4	7.09	5.8	62	131	376	1,794	1,000	42		<0.10														14	
SO2-MW6d	2/25/2015	18.6	6.84	5.2	56	-20	239	2,018	1,100	40	<0.05	0.037J	0.51	140	4.8	47	170	200	100	0.57	370	<8.2	<8.2	370	1.6	14	
SO2-MW6d	5/14/2015	19.7	6.85	4.7	52	42	72	1,827	1,100	45		0.032J														11	
SO2-MW6d	8/19/2015	27.1	6.82	4.8	61	351	>1,000	1,681	1,000	42		0.077J														5	
SO2-MW6d	11/19/2015	*Well Dry*																									
SO2-MW6d	2/24/2016	19.3	7.18	7.0	75	180	211	1,528	1,000	43	<0.050	0.025J	0.54	130	3.9	35	150	200	97	0.23	230	<8.2	<8.2	230	2.5	7	
SO2-MW6d	5/5/2016	*Well Dry*																									
SO2-MW6d	8/8/2016	*Well Dry*																									
SO2-MW6d	11/9/2016	*Well Dry*																									
SO2-MW6d	3/22/2017	*Well Dry*																									
SO2-MW6d	5/10/2017	*Well Dry*																									
SO2-MW6d	8/24/2017	*Well Dry*																									
SO2-MW6d	11/22/2017	*Well Dry*																									
SO2-MW6d	2/8/2018	*Well Dry*																									
SO2-MW6d	5/10/2018	*Well Dry*																									
SO2-MW6d	8/8/2018	*Well Dry*																									
SO2-MW6d	11/29/2018	*Well Dry*																									
SO2-MW6d	2/15/2019	*Well Dry*																									
SO2-MW6d	5/16/2019	*Well Dry*																									
SO2-MW6d	8/15/2019	*Well Dry*																									
SO2-MW6d	11/21/2019	*Well Dry*																									
SO2-MW7s	3/19/2013	20.4	7.40	5.3	61	135	125	3,753	1,300	46		0.029J														12	
SO2-MW7s	5/14/2013	20.4	6.74	5.4	86	QM	233	2,009	1,500	46		0.024J														9	
SO2-MW7d	8/16/2013	19.3	6.70	3.5	39	45	255	2,037	1,300	44	0.0026J	0.039J	0.61	140	4.6	59	210	240	130	0.62	460	<8.2	<8.2	460	-0.7	16	
SO2-MW7d	11/19/2013	18.8	7.08	3.6	38	130	28	2,067	1,300	46		0.033J														15	
SO2-MW7d	2/21/2014	19.1	7.03	3.2	35	9	44	2,096	1,200	41		<0.050														17	
SO2-MW7d	5/22/2014	20.1	7.05	2.9	33	-9	215	1,862	1,300	40		<0.10														12	
SO2-MW7d	8/21/2014	19.9	7.09	12.3	136	32	262	1,824	1,100	46	<0.050	0.034J	0.51	150	4.6	54	190	230	130	<0.15	420	<8.2	<8.2	420	-0.7	6	
SO2-MW7d	11/13/2014	18.8	7.28	6.6	72	122	214	2,126	1,300	45		<0.10														5	
SO2-MW7d	2/25/2015	18.5	7.05	5.7	61	116	50	2,351	1,300	40	<0.05	0.066J	0.51	170	5	59	190	260	150	<0.15	430	<8.2	<8.2	430	-0.1	5	
SO2-MW7d	5/14/2015	19.5	7.04	4.9	53	49	12	2,056	1,200	44		0.050J														2	
SO2-MW7d	8/19/2015	*Well Dry*																									
SO2-MW7d	11/19/2015	*Well Dry*																									
SO2-MW7d	2/24/2016	*Well Dry*																									
SO2-MW7d	5/5/2016	*Well Dry*																									
SO2-MW7d	8/8/2016	*Well Dry*																									
SO2-MW7d	11/9/2016	*Well Dry*																									
SO2-MW7d	3/22/2017	*Well Dry*																									

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
SO2-MW7d	5/10/2017	*Well Dry*																									
SO2-MW7d	8/24/2017	*Well Dry*																									
SO2-MW7d	11/22/2017	*Well Dry*																									
SO2-MW7d	2/8/2018	*Well Dry*																									
SO2-MW7d	5/10/2018	*Well Dry*																									
SO2-MW7d	8/8/2018	*Well Dry*																									
SO2-MW7d	11/29/2018	*Well Dry*																									
SO2-MW7d	2/15/2019	*Well Dry*																									
SO2-MW7d	5/16/2019	*Well Dry*																									
SO2-MW7d	8/15/2019	*Well Dry*																									
SO2-MW7d	11/21/2019	*Well Dry*																									
SO2-MW8d	3/19/2013	21.0	9.58	3.6	38	QM	>1,000	2,480	1,700	110		0.15														18	
SO2-MW8d	5/14/2013	20.9	6.61	1.1	12	QM	>1,000	2,440	1,800	110		0.21														16	
SO2-MW8d	8/16/2013	20.2	6.40	4.8	53	51	>1,000	2,233	1,400	94	0.045J	0.053	1.5	150	12	90	220	180	120	2.7	450	<8.2	<8.2	450	3.8	6	
SO2-MW8d	11/19/2013	19.5	6.53	2.9	32	157	114	2,940	2,200	160		0.048J														7	
SO2-MW8d	2/21/2014	19.6	6.63	2.7	30	24	93	2,872	1,900	140		0.089														9	
SO2-MW8d	5/22/2014	21.8	6.54	5.2	60	42	580	2,557	1,900	120		0.050J														5	
SO2-MW8d	8/21/2014	*Well Dry*																									
SO2-MW8d	11/13/2014	*Well Dry*																									
SO2-MW8d	2/25/2015	*Well Dry*																									
SO2-MW8d	5/14/2015	*Well Dry*																									
SO2-MW8d	8/19/2015	*Well Dry*																									
SO2-MW8d	11/19/2015	*Well Dry*																									
SO2-MW8d	2/24/2016	*Well Dry*																									
SO2-MW8d	5/5/2016	*Well Dry*																									
SO2-MW8d	8/8/2016	*Well Dry*																									
SO2-MW8d	11/9/2016	*Well Dry*																									
SO2-MW8d	3/22/2017	*Well Dry*																									
SO2-MW8d	5/10/2017	*Well Dry*																									
SO2-MW8d	8/24/2017	*Well Dry*																									
SO2-MW8d	11/22/2017	*Well Dry*																									
SO2-MW8d	2/8/2018	*Well Dry*																									
SO2-MW8d	5/10/2018	*Well Dry*																									
SO2-MW8d	8/8/2018	*Well Dry*																									
SO2-MW8d	11/29/2018	*Well Dry*																									
SO2-MW8d	2/15/2019	*Well Dry*																									
SO2-MW8d	5/16/2019	*Well Dry*																									
SO2-MW8d	8/15/2019	*Well Dry*																									

Table 4-6
Groundwater Quality

		-------Field Measurements-------							----												----Alkalinity as CaCO3----				
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
SO2-MW8d	11/21/2019	*Well Dry*																									
SOJ-MW1	3/19/2013	*Well Dry*																									
SOJ-MW1	5/14/2013	*Well Dry*																									
SOJ-MW1	8/16/2013	*Well Dry*																									
SOJ-MW1	11/19/2013	*Well Dry*																									
SOJ-MW1	2/20/2014	*Well Dry*																									
SOJ-MW1	5/22/2014	*Well Dry*																									
SOJ-MW1	8/21/2014	*Well Dry*																									
SOJ-MW1	11/13/2014	*Well Dry*																									
SOJ-MW1	2/24/2015	*Well Dry*																									
SOJ-MW1	5/15/2015	*Well Dry*																									
SOJ-MW1	8/19/2015	*Well Dry*																									
SOJ-MW1	11/18/2015	*Well Dry*																									
SOJ-MW1	2/24/2016	*Well Dry*																									
SOJ-MW1	5/5/2016	*Well Dry*																									
SOJ-MW1	8/8/2016	*Well Dry*																									
SOJ-MW1	11/9/2016	*Well Dry*																									
SOJ-MW1	3/22/2017	*Well Dry*																									
SOJ-MW1	5/10/2017	*Well Dry*																									
SOJ-MW1	8/24/2017	*Well Dry*																									
SOJ-MW1	11/22/2017	*Well Dry*																									
SOJ-MW1	2/8/2018	*Well Dry*																									
SOJ-MW1	5/10/2018	*Well Dry*																									
SOJ-MW1	8/8/2018	*Well Dry*																									
SOJ-MW1	11/29/2018	*Well Dry*																									
SOJ-MW1	2/15/2019	*Well Dry*																									
SOJ-MW1	5/16/2019	*Well Dry*																									
SOJ-MW1	8/15/2019	*Well Dry*																									
SOJ-MW1	11/21/2019	*Well Dry*																									
SOJ-MW2	3/19/2013	*Well Dry*																									
SOJ-MW2	5/14/2013	*Well Dry*																									
SOJ-MW2	8/16/2013	*Well Dry*																									
SOJ-MW2	11/19/2013	*Well Dry*																									
SOJ-MW2	2/20/2014	*Well Dry*																									
SOJ-MW2	5/22/2014	*Well Dry*																									
SOJ-MW2	8/21/2014	*Well Dry*																									

Table 4-6
Groundwater Quality

		-------Field Measurements-------																	----Alkalinity as CaCO3----							
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
SOJ-MW2	11/13/2014	*Well Dry*																									
SOJ-MW2	2/24/2015	*Well Dry*																									
SOJ-MW2	5/15/2015	*Well Dry*																									
SOJ-MW2	8/19/2015	*Well Dry*																									
SOJ-MW2	11/18/2015	*Well Dry*																									
SOJ-MW2	2/24/2016	*Well Dry*																									
SOJ-MW2	5/5/2016	*Well Dry*																									
SOJ-MW2	8/8/2016	*Well Dry*																									
SOJ-MW2	11/9/2016	*Well Dry*																									
SOJ-MW2	3/22/2017	*Well Dry*																									
SOJ-MW2	5/10/2017	*Well Dry*																									
SOJ-MW2	8/24/2017	*Well Dry*																									
SOJ-MW2	11/22/2017	*Well Dry*																									
SOJ-MW2	2/8/2018	*Well Dry*																									
SOJ-MW2	5/10/2018	*Well Dry*																									
SOJ-MW2	8/8/2018	*Well Dry*																									
SOJ-MW2	11/29/2018	*Well Dry*																									
SOJ-MW2	2/15/2019	*Well Dry*																									
SOJ-MW2	5/16/2019	*Well Dry*																									
SOJ-MW2	8/15/2019	*Well Dry*																									
SOJ-MW2	11/21/2019	*Well Dry*																									
SOJ-MW3	3/19/2013	*Well Dry*																									
SOJ-MW3	5/14/2013	*Well Dry*																									
SOJ-MW3	8/16/2013	*Well Dry*																									
SOJ-MW3	11/19/2013	*Well Dry*																									
SOJ-MW3	2/20/2014	*Well Dry*																									
SOJ-MW3	5/22/2014	*Well Dry*																									
SOJ-MW3	8/21/2014	*Well Dry*																									
SOJ-MW3	11/13/2014	*Well Dry*																									
SOJ-MW3	2/24/2015	*Well Dry*																									
SOJ-MW3	5/15/2015	*Well Dry*																									
SOJ-MW3	8/19/2015	*Well Dry*																									
SOJ-MW3	11/18/2015	*Well Dry*																									
SOJ-MW3	2/24/2016	*Well Dry*																									
SOJ-MW3	5/5/2016	*Well Dry*																									
SOJ-MW3	8/8/2016	*Well Dry*																									
SOJ-MW3	11/9/2016	*Well Dry*																									
SOJ-MW3	3/22/2017	*Well Dry*																									

Table 4-6
Groundwater Quality

		-------Field Measurements-------							----											----Alkalinity as CaCO3----				
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
SOJ-MW3	5/10/2017	*Well Dry*																									
SOJ-MW3	8/24/2017	*Well Dry*																									
SOJ-MW3	11/22/2017	*Well Dry*																									
SOJ-MW3	2/8/2018	*Well Not Accessible*																									
SOJ-MW3	5/10/2018	*Well Dry*																									
SOJ-MW3	8/8/2018	*Well Not Accessible*																									
SOJ-MW3	11/29/2018	*Well Not Accessible*																									
SOJ-MW3	2/15/2019	*Well Dry*																									
SOJ-MW3	5/16/2019	*Well Not Accessible*																									
SOJ-MW3	8/15/2019	*Well Not Accessible*																									
SOJ-MW3	11/21/2019	*Well Dry*																									
SOJ-MW4	3/19/2013	*Well Dry*																									
SOJ-MW4	5/14/2013	*Well Dry*																									
SOJ-MW4	8/16/2013	*Well Dry*																									
SOJ-MW4	11/19/2013	*Well Dry*																									
SOJ-MW4	2/20/2014	*Well Dry*																									
SOJ-MW4	5/22/2014	*Well Dry*																									
SOJ-MW4	8/21/2014	*Well Dry*																									
SOJ-MW4	11/13/2014	*Well Dry*																									
SOJ-MW4	2/24/2015	*Well Dry*																									
SOJ-MW4	5/15/2015	*Well Dry*																									
SOJ-MW4	8/19/2015	*Well Dry*																									
SOJ-MW4	11/18/2015	*Well Dry*																									
SOJ-MW4	2/24/2016	*Well Dry*																									
SOJ-MW4	5/5/2016	*Well Dry*																									
SOJ-MW4	8/8/2016	*Well Dry*																									
SOJ-MW4	11/9/2016	*Well Dry*																									
SOJ-MW4	3/22/2017	*Well Dry*																									
SOJ-MW4	5/10/2017	*Well Dry*																									
SOJ-MW4	8/24/2017	*Well Dry*																									
SOJ-MW4	11/22/2017	*Well Dry*																									
SOJ-MW4	2/8/2018	*Well Not Accessible*																									
SOJ-MW4	5/10/2018	*Well Not Accessible*																									
SOJ-MW4	8/8/2018	*Well Not Accessible*																									
SOJ-MW4	11/29/2018	*Well Not Accessible*																									
SOJ-MW4	2/15/2019	*Well Dry*																									
SOJ-MW4	5/16/2019	*Well Not Accessible*																									
SOJ-MW4	8/15/2019	*Well Not Accessible*																									

Table 4-6
Groundwater Quality

		-------Field Measurements-------																		----Alkalinity as CaCO3----						
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
SOJ-MW4	11/21/2019	*Well Dry*																									
SOJ-MW5s	3/19/2013	21.1	7.00	2.4	26	181	>1,000	3,325	1,100	18		0.025J														9	
SOJ-MW5s	5/14/2013	22.6	6.52	5.2	57	QM	>1,000	1,565	1,100	17		0.045J														5	
SOJ-MW5d	8/16/2013	20.5	6.80	4.1	46	47	>1,000	1,543	1,000	20	0.037J	0.082	1.2	92	9.2	51	190	74	31	5.1	670	<8.2	<8.2	670	0.6	15	
SOJ-MW5d	11/19/2013	20.1	6.31	0.6	7	36	211	1,378	880	22		<0.050														16	
SOJ-MW5d	2/20/2014	20.0	6.78	1.1	12	-51	215	1,399	830	29		0.026J														15	
SOJ-MW5d	5/22/2014	21.4	6.81	4.8	55	1	439	1,311	800	32		<0.10														8	
SOJ-MW5d	8/21/2014	22.4		4.7	54	69	215	1,323	760	31	<0.050	<0.10	0.45	88	5.3	44	160	67	40	0.23	510	<8.2	<8.2	510	1.4	2	
SOJ-MW5d	11/13/2014	20.0	7.06	1.6	16	158.8	191	1,484	770	14		<0.10														7	
SOJ-MW5d	2/24/2015	19.4	6.70	2.8	31	92	>1,000	1,956	740	32	<0.05	<0.1	1.1	94	6	47	150	65	41	17	510	<8.2	<8.2	510	-0.4	9	
SOJ-MW5d	5/15/2015	19.8	6.77	3.7	41	62	97	1,545	860	29		0.043J														4	
SOJ-MW5d	8/19/2015	*Well Dry*																									
SOJ-MW5d	11/18/2015	*Well Dry*																									
SOJ-MW5d	2/24/2016	*Well Dry*																									
SOJ-MW5d	5/5/2016	*Well Dry*																									
SOJ-MW5d	8/8/2016	*Well Dry*																									
SOJ-MW5d	11/9/2016	*Well Dry*																									
SOJ-MW5d	3/22/2017	*Well Dry*																									
SOJ-MW5d	5/10/2017	*Well Dry*																									
SOJ-MW5d	8/24/2017	*Well Dry*																									
SOJ-MW5d	11/22/2017	*Well Dry*																									
SOJ-MW5d	2/8/2018	*Well Dry*																									
SOJ-MW5d	5/10/2018	18.0	6.79	1.0	17	-22.2	21	1,011	280	1.1		0.057J														8	
SOJ-MW5d	8/8/2018	*Well Dry*																									
SOJ-MW5d	11/29/2018	*Well Dry*																									
SOJ-MW5d	2/15/2019	*Well Dry*																									
SOJ-MW5d	5/16/2019	*Well Dry*																									
SOJ-MW5d	8/15/2019	*Well Dry*																									
SOJ-MW5d	11/21/2019	*Well Dry*																									
SOJ-MW6s	3/19/2013	20.5	7.50	2.8	31	158	>1,000	2,260	810	25		<0.050														9	
SOJ-MW6s	5/14/2013	21.7	7.17	4.8	41	QM	>1,000	1,010	680	18		0.035J														5	
SOJ-MW6d	8/16/2013	21.0	6.61	4.3	50	93	184	650	450	10	0.0024J	0.044J	0.11J	41	3.1	17	79	7.6	25	0.33	290	<4.1	<4.1	290	-0.4	17	
SOJ-MW6d	11/19/2013	20.3	7.25	2.4	27	31	317	649	440	12		0.017J														16	
SOJ-MW6d	2/20/2014	20.0	7.29	3.6	40	23	131	755	450	11		0.020J														16	
SOJ-MW6d	5/22/2014	21.6	7.24	3.2	37	-37	157	778	310	12		<0.10														11	
SOJ-MW6d	8/21/2014	21.3	7.63	3.3	38	19	467	615	320	11	<0.050	0.038J	<0.20	51	3.2	15	73	8.3	28	0.78	260	<4.1	<4.1	260	2.5	4	
SOJ-MW6d	11/13/2014	19.6	7.65	1.6	18	157	395	674	390	12		<0.10														8	

Table 4-6
Groundwater Quality

		-------Field Measurements-------																			----Alkalinity as CaCO3----					
Well	Date	T	pH	DO	DO %	ORP	Turb	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	HCO3	CO3	OH	Total	CAB %	HI	Q
SOJ-MW6d	2/24/2015	19.5	7.40	4.9	54	309	>1,000	886	350	11	<0.05	0.042J	0.31	52	3.5	16	75	8.1	26	2.2	260	<4.1	<4.1	260	4.1	9	
SOJ-MW6d	5/15/2015	19.7	7.23	4.2	46	59	214	923	360	13		0.043J														5	
SOJ-MW6d	8/19/2015	*Well Dry*																									
SOJ-MW6d	11/18/2015	*Well Dry*																									
SOJ-MW6d	2/24/2016	*Well Dry*																									
SOJ-MW6d	5/5/2016	*Well Dry*																									
SOJ-MW6d	8/8/2016	*Well Dry*																									
SOJ-MW6d	11/9/2016	*Well Dry*																									
SOJ-MW6d	3/22/2017	*Well Dry*																									
SOJ-MW6d	5/10/2017	*Well Dry*																									
SOJ-MW6d	8/24/2017	*Well Dry*																									
SOJ-MW6d	11/22/2017	*Well Dry*																									
SOJ-MW6d	2/8/2018	*Well Dry*																									
SOJ-MW6d	5/10/2018	21.0	6.47	4.5	49	-75.9	25	2,603	1,200	62		0.059J														10	
SOJ-MW6d	8/8/2018	*Well Dry*																									
SOJ-MW6d	11/29/2018	*Well Dry*																									
SOJ-MW6d	2/15/2019	*Well Dry*																									
SOJ-MW6d	5/16/2019	*Well Dry*																									
SOJ-MW6d	8/15/2019	*Well Dry*																									
SOJ-MW6d	11/21/2019	*Well Dry*																									

Values in mg/L except temperature (T) in degrees Celsius, pH in standard pH-units, dissolved oxygen percent (DO %) in percent saturation, oxygen reduction potential (ORP) in millivolts, turbidity (Turb) in nephelometric turbidity units, specific conductance (SC) in microsiemens per centimeter. Nitrate, nitrite, ammoniacal-N, and total kjeldahl nitrogen are reported as nitrogen. Sulfate is reported as sulfate; total phosphate is reported as phosphate.
CAB %, Cation-Anion Balance % Difference = 100*(∑Cations - ∑Anions)/(∑Cations + ∑Anions)
HI, hydraulic information prior to purging: wet screen length in feet;
Q, qualifiers (H) sample holding time was exceeded where indicated with an *; (P) complete purge was not attained; (D) well was pumped dry and sample collected after recovery, (E) questionable field SC measurement replaced with laboratory conductivity measurement.
LE, Lab Error
NM, No Measurement
MI, Missing Field Data Sheet; not available from Field Services Provider
QM, Questionable Measurement
Data predating 2012 were not collected by CVDRMP. They do not have purging information and QA/QC documentation associated with them.

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
MEN-MW1															
Max	7.44	7,614	5,400	120	0.08	140	140	830	240	250	480	1,300	410	3.7	2,100
Min	5.96	4,729	3,000	9.2	ND	0.29	1.6	560	16	87	210	860	150	ND	980
Rng	1.48	2,885	2,400	111	0.08	140	138	270	224	163	270	440	260	3.7	1,120
Med	6.90	6,402	3,750	40	0.03	16	40	760	210	160	320	970	250	0.6	1,800
Mean	6.88	6,280	3,800	45	0.04	31	45	742	167	166	328	1,011	252	1.1	1,631
StDev	0.28	753	561	27	0.03	36	47	79	81	45	76	145	90	1.1	416
CV	0.04	0.12	0.15	0.60	0.67	1.17	1.04	0.11	0.48	0.27	0.23	0.14	0.36	0.98	0.26
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	2	0	0	0	0	0	0	0	0	2	0
MEN-MW2															
Max	7.88	6,054	4,100	69	0.24	5.6	4.8	740	200	150	390	920	310	5.2	1,100
Min	6.22	3,937	2,100	ND	ND	ND	1.5	390	21	56	170	610	190	0.2	820
Rng	1.66	2,117	2,000	69	0.24	5.6	3.3	350	179	94	220	310	120	5	280
Med	7.10	4,620	2,800	19	0.08	1.7	3.3	480	120	99	300	750	260	0.4	940
Mean	7.08	4,698	2,900	26	0.11	1.9	3.3	530	111	96	278	763	254	1	958
StDev	0.29	580	460	23	0.07	1.3	1.1	119	66	31	71	92	39	1.6	95
CV	0.04	0.12	0.16	0.90	0.65	0.69	0.34	0.22	0.59	0.32	0.25	0.12	0.15	1.55	0.10
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	2	3	1	0	0	0	0	0	0	0	0	0
MEN-MW3															
Max	7.56	3,970	2,800	150	1.0	0.38	3.0	360	59	110	310	460	230	24	740
Min	6.07	2,551	1,600	59	ND	ND	ND	270	5.9	71	210	270	84	15	640
Rng	1.49	1,419	1,200	91	1.0	0.38	3.0	90	53	39	100	190	146	9	100
Med	6.95	3,102	2,100	88	0.64	0.09	2.5	290	17	87	250	340	100	18	720
Mean	6.91	3,205	2,181	92	0.63	0.12	2.2	299	25	87	258	362	123	20	704
StDev	0.29	430	324	25	0.28	0.09	0.78	32	20	13	36	74	52	3.1	38
CV	0.04	0.13	0.15	0.27	0.45	0.72	0.36	0.11	0.81	0.15	0.14	0.21	0.42	0.16	0.05
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0
MEN-MW4															
Max	7.55	3,861	3,000	140	0.96	0.22	2.1	320	15	100	340	490	200	12	590
Min	6.16	1,984	1,300	54	ND	ND	ND	220	6.5	46	170	190	68	7.9	456
Rng	1.39	1,877	1,700	86	0.96	0.22	2.1	100	8.5	54	170	300	132	4.1	134
Med	7.01	2,578	1,700	77	0.42	0.06	1.8	220	7.9	58	200	240	80	10	540
Mean	6.98	2,769	1,894	88	0.46	0.09	1.6	252	9.1	66	233	311	107	9.9	536
StDev	0.25	597	487	26	0.23	0.06	0.54	44	2.9	21	70	122	51	1.6	42
CV	0.04	0.22	0.26	0.30	0.51	0.66	0.34	0.17	0.32	0.32	0.30	0.39	0.48	0.16	0.08
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	1	6	1	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
MEN-MW5															
Max	7.62	3,965	3,000	85	0.20	0.20	2.8	270	130	78	370	610	160	2.6	510
Min	6.24	1,609	920	40	0.02	ND	0.74	140	12	34	170	160	56	0.2	370
Rng	1.38	2,356	2,080	45	0.18	0.20	2.1	130	118	44	200	450	104	2.4	140
Med	6.98	2,044	1,300	52	0.10	0.04	0.96	160	35	39	190	250	64	0.5	410
Mean	7.01	2,207	1,435	57	0.09	0.06	1.2	170	53	45	207	290	78	0.7	418
StDev	0.27	537	486	12	0.06	0.04	0.64	41	42	14	64	140	33	0.7	40
CV	0.04	0.24	0.34	0.21	0.66	0.64	0.55	0.24	0.80	0.32	0.31	0.48	0.42	1.06	0.10
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0
MEN-MW6															
Max	7.98	3,266	2,000	39	0.52	11	4.3	400	35	60	230	430	190	7.1	740
Min	6.21	1,184	830	8.2	ND	ND	1.1	290	4.3	47	190	310	130	0.1	610
Rng	1.77	2,082	1,170	31	0.52	11	3.2	110	31	13	40	120	60	7	130
Med	7.07	2,662	1,600	32	0.45	0.05	1.2	340	5.1	54	210	370	160	0.3	690
Mean	7.13	2,616	1,570	29	0.42	0.81	1.6	351	8.4	54	208	372	162	1.1	677
StDev	0.34	430	262	8.6	0.14	2.5	1.0	35	10	4.4	12	43	22	2.3	44
CV	0.05	0.16	0.17	0.29	0.32	3.03	0.66	0.10	1.19	0.08	0.06	0.12	0.14	2.16	0.06
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	1	9	0	0	0	0	0	0	0	0	0
MEN-MW7															
Max	7.84	2,882	1,800	87	0.97	0.25	2.5	350	7.5	73	240	340	160	0.8	580
Min	6.24	1,967	1,000	42	ND	ND	1.3	220	2.8	52	150	190	94	0.1	470
Rng	1.60	915	800	45	0.97	0.25	1.2	130	4.7	21	90	150	66	0.8	110
Med	7.12	2,278	1,450	62	0.59	0.06	2.0	240	3.1	61	170	230	130	0.2	510
Mean	7.15	2,331	1,459	64	0.61	0.09	1.9	257	3.7	61	177	246	132	0.3	523
StDev	0.28	233	166	11	0.28	0.07	0.38	44	1.5	6.1	29	51	21	0.2	38
CV	0.04	0.10	0.11	0.17	0.45	0.71	0.20	0.17	0.41	0.10	0.16	0.21	0.16	0.82	0.07
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	1	6	0	0	0	0	0	0	0	0	0
MEN-MW8															
Max	7.87	4,108	2,400	110	0.22	0.28	2.0	640	87	89	150	600	170	10	1,000
Min	6.87	1,525	1,100	11	0.03	ND	1.1	190	5.2	32	73	140	57	0.3	540
Rng	1.00	2,583	1,300	99	0.19	0.28	0.90	450	82	57	77	460	113	9.7	460
Med	7.29	3,040	1,900	22	0.04	0.05	1.4	490	34	41	100	460	120	2.6	740
Mean	7.28	3,082	1,900	27	0.10	0.09	1.5	480	41	50	109	422	115	3.2	750
StDev	0.27	667	377	21	0.09	0.07	0.41	180	37	24	31	176	40	4	186
CV	0.04	0.22	0.20	0.79	0.93	0.78	0.27	0.38	0.92	0.48	0.28	0.42	0.35	1.24	0.25
Count	21	21	21	21	5	21	5	5	5	5	5	5	5	5	5
CountND	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
ANC-MW1															
Max	7.52	3,008	1,800	14	0.43	0.87	1.1	370	13	76	190	320	130	0.5	1,100
Min	6.23	1,518	990	ND	ND	ND	0.30	230	3.4	37	76	200	96	ND	420
Rng	1.29	1,490	810	14	0.43	0.87	0.80	140	9.6	39	114	120	34	0.5	680
Med	6.90	2,306	1,400	2.6	0.15	0.04	0.54	300	4.6	64	140	260	120	0.3	680
Mean	6.91	2,274	1,368	3.9	0.17	0.10	0.67	296	5.9	57	129	256	115	0.3	711
StDev	0.26	419	239	3.9	0.12	0.16	0.33	51	3.2	16	43	42	14	0.1	246
CV	0.04	0.18	0.17	0.99	0.75	1.49	0.50	0.17	0.55	0.27	0.33	0.16	0.12	0.36	0.35
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	4	1	8	0	0	0	0	0	0	0	1	0
ANC-MW2															
Max	7.55	3,146	2,100	51	0.98	0.32	1.7	430	11	68	200	410	250	5.5	780
Min	6.36	2,182	1,400	15	0.05	ND	0.92	330	5.9	44	120	290	120	0.6	440
Rng	1.19	964	700	36	0.93	0.32	0.78	100	5.1	24	80	120	130	5	340
Med	6.90	2,524	1,650	28	0.64	0.06	1.4	340	9	51	150	360	190	2.7	550
Mean	6.93	2,621	1,731	33	0.65	0.09	1.3	358	8.5	54	157	354	193	2.7	590
StDev	0.28	255	213	12	0.29	0.07	0.29	35	1.9	8.5	25	42	42	1.6	125
CV	0.04	0.10	0.12	0.38	0.46	0.77	0.22	0.10	0.22	0.16	0.16	0.12	0.22	0.60	0.21
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
ANC-MW3															
Max	7.57	2,136	1,500	67	0.12	0.63	0.95	270	6.9	43	160	240	150	1.9	420
Min	6.57	1,000	550	15	ND	ND	ND	130	4	19	68	110	88	0.2	280
Rng	1.00	1,136	950	52	0.12	0.63	0.95	140	2.9	24	92	130	62	1.7	140
Med	7.22	1,855	1,200	44	0.03	0.03	0.24	230	6.4	33	130	220	130	0.4	360
Mean	7.23	1,746	1,142	42	0.04	0.08	0.32	223	6.1	32	125	197	125	0.6	361
StDev	0.20	326	234	13	0.03	0.12	0.26	43	1	7.8	29	48	24	0.5	42
CV	0.03	0.19	0.20	0.30	0.74	1.47	0.82	0.19	0.16	0.24	0.23	0.25	0.19	0.83	0.12
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	1	10	2	0	0	0	0	0	0	0	0
ANC-MW4															
Max	7.98	1,869	1,300	71	0.00	0.16	0.31	190	8.6	48	130	160	110	3	410
Min	6.44	681	500	8.0	ND	ND	ND	88	5.2	22	57	40	37	1	180
Rng	1.54	1,188	800	63	0.00	0.16	0.31	102	3.4	26	73	120	73	2	230
Med	6.94	1,280	830	35	ND	0.02	0.10	140	5.7	30	82	130	86	1.1	230
Mean	7.03	1,238	826	38	Ins	0.05	0.16	138	6.3	33	88	114	84	1.4	264
StDev	0.38	309	209	13	Ins	0.03	0.06	27	1.1	8.1	22	39	23	0.6	82
CV	0.05	0.25	0.25	0.34	Ins	0.71	0.36	0.19	0.17	0.25	0.26	0.35	0.27	0.44	0.31
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	8	13	4	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
ANC-MW5															
Max	8.24	3,642	2,600	18	0.53	0.18	1.0	840	3.8	23	51	460	300	2.8	1,000
Min	7.05	1,824	1,200	4.5	ND	ND	0.24	300	2.4	14	21	220	190	0.7	410
Rng	1.19	1,818	1,400	14	0.53	0.18	0.76	540	1.4	9	30	240	110	2.1	590
Med	7.70	3,446	2,200	11	0.12	0.04	0.68	760	2.9	16	28	400	220	1.9	950
Mean	7.65	3,265	2,135	11	0.17	0.06	0.69	708	3	17	31	388	238	1.7	883
StDev	0.30	514	346	3.4	0.17	0.04	0.22	162	0.5	3.2	10	76	35	0.7	184
CV	0.04	0.16	0.16	0.31	1.02	0.66	0.32	0.23	0.18	0.19	0.33	0.20	0.15	0.39	0.21
Count	32	32	31	32	9	31	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	1	6	0	0	0	0	0	0	0	0	0
ANC-MW6															
Max	7.43	3,211	2,000	120	0.83	1.2	1.6	340	22	56	170	360	200	28	410
Min	6.27	1,229	800	19	0.04	ND	0.49	170	6.3	21	60	120	74	12	240
Rng	1.16	1,982	1,200	101	0.79	1.2	1.1	170	16	35	110	240	126	16	170
Med	6.82	2,166	1,400	38	0.61	0.05	1.2	260	11	38	110	270	140	16	360
Mean	6.86	2,098	1,397	47	0.48	0.12	1.2	250	13	39	116	257	141	18	353
StDev	0.24	506	359	24	0.30	0.21	0.34	55	5.8	12	38	82	43	5.9	53
CV	0.04	0.24	0.26	0.52	0.63	1.78	0.28	0.22	0.44	0.30	0.33	0.32	0.31	0.32	0.15
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
ANC-MW7															
Max	7.90	1,652	1,100	44	0.07	0.23	0.49	210	2.8	35	120	220	95	0.8	350
Min	6.60	1,122	700	14	ND	ND	ND	140	2.2	20	66	130	59	0.5	240
Rng	1.30	530	400	30	0.07	0.23	0.49	70	0.6	15	54	90	36	0.3	110
Med	7.26	1,388	885	25	ND	0.02	0.17	160	2.6	28	100	170	69	0.6	270
Mean	7.28	1,398	889	26	0.01	0.05	0.23	164	2.5	29	95	178	76	0.6	284
StDev	0.30	156	110	7.5	0.02	0.04	0.15	23	0.2	4.7	17	26	13	0.1	38
CV	0.04	0.11	0.12	0.29	1.44	0.86	0.66	0.14	0.09	0.17	0.18	0.15	0.17	0.19	0.13
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	7	14	2	0	0	0	0	0	0	0	0
BET-MW1															
Max	7.38	1,479	1,400	140	0.01	0.17	0.71	49	22	37	120	71	44	5	120
Min	5.75	386	350	21	ND	ND	ND	23	5.6	13	43	29	18	1.5	52
Rng	1.63	1,093	1,050	119	0.01	0.17	0.71	26	16	24	77	42	26	3.5	68
Med	6.62	635	515	36	ND	0.05	0.47	30	8.2	20	62	42	22	3	72
Mean	6.52	733	596	48	Ins	0.06	0.44	33	12	21	66	43	24	2.9	77
StDev	0.41	278	229	32	Ins	0.03	0.22	7.5	6.4	7.1	23	13	7.7	1.2	23
CV	0.06	0.38	0.38	0.66	Ins	0.56	0.50	0.23	0.55	0.34	0.35	0.31	0.32	0.40	0.30
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	8	7	1	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
BET-MW2															
Max	7.26	2,434	2,000	120	0.34	0.38	1.5	64	92	44	140	270	70	6.6	330
Min	5.84	508	440	0.10	ND	ND	0.35	30	3.9	13	50	35	18	1.3	74
Rng	1.42	1,926	1,560	120	0.34	0.38	1.2	34	88	31	90	235	52	5.3	256
Med	6.55	752	630	30	ND	0.03	0.84	48	5.8	18	70	51	28	1.7	100
Mean	6.53	1,030	798	31	0.06	0.10	0.84	46	22	22	77	98	34	2.7	143
StDev	0.33	545	398	21	0.11	0.10	0.37	12	30	11	34	98	18	2.2	104
CV	0.05	0.53	0.50	0.66	1.81	1.02	0.44	0.27	1.40	0.51	0.44	0.99	0.53	0.80	0.73
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	6	9	0	0	0	0	0	0	0	0	0
BET-MW3															
Max	7.77	2,307	2,200	130	0.35	0.25	1.0	50	45	38	120	87	61	5.4	260
Min	5.53	458	370	18	ND	ND	0.10	23	4.3	12	41	24	17	0.9	56
Rng	2.24	1,849	1,830	112	0.35	0.25	0.90	27	41	26	79	63	44	4.5	204
Med	6.46	804	655	38	ND	0.03	0.62	35	22	24	77	52	27	4.2	92
Mean	6.45	972	791	47	0.08	0.06	0.57	36	21	25	80	55	33	3.4	121
StDev	0.43	444	395	25	0.12	0.06	0.27	9.5	15	8.7	25	20	15	1.7	70
CV	0.07	0.46	0.50	0.53	1.44	0.94	0.48	0.27	0.70	0.35	0.32	0.36	0.45	0.51	0.58
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	5	10	0	0	0	0	0	0	0	0	0
BET-MW4															
Max	7.42	5,150	3,500	98	0.46	1.1	2.7	220	470	88	220	500	220	9.3	600
Min	6.03	890	640	28	ND	ND	ND	82	25	28	66	120	40	2.7	180
Rng	1.39	4,260	2,860	70	0.46	1.1	2.7	138	445	60	154	380	180	6.6	420
Med	6.77	1,684	1,100	44	0.09	0.03	1.1	110	270	41	100	200	110	6.6	500
Mean	6.76	2,088	1,407	46	0.13	0.11	1.3	132	279	49	118	264	117	5.9	447
StDev	0.25	987	659	13	0.13	0.19	0.67	49	154	18	48	150	65	2.3	155
CV	0.04	0.47	0.47	0.29	1.06	1.79	0.51	0.37	0.55	0.36	0.41	0.57	0.56	0.39	0.35
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	2	10	1	0	0	0	0	0	0	0	0
BET-MW5															
Max	7.66	1,158	1,100	87	0.02	0.15	0.99	46	11	35	95	57	45	1	140
Min	6.10	607	500	21	ND	ND	ND	31	2.2	21	64	25	33	0.4	64
Rng	1.56	551	600	66	0.02	0.15	0.99	15	8.8	14	31	32	12	0.6	76
Med	6.81	853	695	52	ND	0.02	0.49	38	2.9	30	84	43	39	0.6	97
Mean	6.83	857	718	54	0.01	0.06	0.47	38	4	30	80	43	39	0.6	99
StDev	0.30	138	137	15	0.00	0.04	0.23	5	2.9	4.6	10	9.4	4.9	0.2	25
CV	0.04	0.16	0.19	0.27	0.43	0.66	0.49	0.13	0.73	0.15	0.13	0.22	0.13	0.29	0.25
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	5	15	1	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
BET-MW6															
Max	7.30	679	610	49	0.01	0.13	1.2	33	22	14	59	32	25	11	110
Min	5.94	401	340	16	ND	ND	ND	26	8.9	11	39	21	14	3.9	46
Rng	1.36	278	270	33	0.01	0.13	1.2	7	13	3	20	11	11	7.1	64
Med	6.60	550	460	32	ND	0.02	0.55	28	13	13	49	27	17	4.9	67
Mean	6.62	551	471	31	Ins	0.05	0.63	28	15	13	48	26	19	5.9	75
StDev	0.31	60	69	9.0	Ins	0.03	0.33	2.7	5.1	1.2	7.3	3.3	4.7	2.2	25
CV	0.05	0.11	0.15	0.29	Ins	0.69	0.52	0.09	0.35	0.10	0.15	0.13	0.24	0.37	0.33
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	8	14	1	0	0	0	0	0	0	0	0
BET-MW7															
Max	7.30	916	930	79	ND	0.17	1.3	36	18	16	54	35	29	9.2	55
Min	5.67	343	290	18	ND	ND	ND	28	4.6	7.5	29	22	16	2.9	38
Rng	1.63	573	640	61	ND	0.17	1.3	8	13	8.5	25	13	13	6.3	17
Med	6.26	546	470	32	ND	ND	0.69	30	5.2	12	39	30	19	7.7	47
Mean	6.31	546	476	34	Ins	0.06	0.71	31	8.1	12	41	30	21	6.9	47
StDev	0.40	119	129	12	Ins	0.04	0.33	2.5	5.4	2.7	8.9	4.7	4.4	2.3	6.1
CV	0.06	0.22	0.27	0.36	Ins	0.66	0.46	0.08	0.67	0.23	0.22	0.16	0.21	0.33	0.13
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	9	16	1	0	0	0	0	0	0	0	0
BET-MW8															
Max	7.30	716	610	48	ND	0.13	1.2	39	21	13	60	34	26	15	75
Min	6.03	349	300	15	ND	ND	ND	20	3.5	7.9	32	8.6	11	6	47
Rng	1.27	367	310	33	ND	0.13	1.2	19	18	5.1	28	25	15	9	28
Med	6.66	501	440	29	ND	0.03	0.70	27	5	10	47	22	20	7.8	66
Mean	6.67	509	442	29	Ins	0.05	0.72	28	8.1	11	47	22	20	8.6	62
StDev	0.27	77	64	6.8	Ins	0.03	0.30	5.2	6.6	1.9	8.7	7.5	4.4	2.6	8.7
CV	0.04	0.15	0.14	0.23	Ins	0.63	0.41	0.19	0.82	0.17	0.19	0.34	0.23	0.31	0.14
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	9	8	1	0	0	0	0	0	0	0	0
DIE-MW1															
Max	8.11	2,159	1,500	100	ND	0.13	0.48	100	12	80	210	97	100	0.3	490
Min	6.85	1,469	960	69	ND	ND	ND	81	3.8	70	140	85	63	ND	300
Rng	1.26	690	540	31	ND	0.13	0.48	19	8.2	10	70	12	37	0.3	190
Med	7.37	1,892	1,200	85	ND	0.05	0.44	88	4.4	71	190	93	90	0.1	440
Mean	7.36	1,874	1,165	89	Ins	0.06	0.36	91	5.9	74	184	92	87	0.2	422
StDev	0.27	190	154	10	Ins	0.03	0.12	8.8	3.4	4.6	27	4.4	14	0.1	73
CV	0.04	0.10	0.13	0.12	Ins	0.51	0.35	0.10	0.58	0.06	0.15	0.05	0.16	0.66	0.17
Count	21	21	21	21	5	21	5	5	5	5	5	5	5	5	5
CountND	0	0	0	0	5	3	1	0	0	0	0	0	0	1	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
DIE-MW2															
Max	7.72	1,162	740	18	ND	0.20	0.19	130	4.3	29	90	99	30	0.5	410
Min	7.36	849	510	13	ND	ND	ND	75	3.8	26	81	66	22	0.1	240
Rng	0.36	313	230	5.0	ND	0.20	0.19	55	0.5	3	9	33	8	0.4	170
Med	7.55	1,032	600	14	ND	0.02	0.12	104	4.05	27	84	78	28	0.5	330
Mean	7.54	1,018	612	14	Ins	0.05	0.14	103	4	27	84	80	27	0.4	328
StDev	0.11	88	58	1.5	Ins	0.04	0.04	26	0.2	1.5	3.9	15	3.6	0.2	95
CV	0.01	0.09	0.10	0.10	Ins	0.84	0.25	0.25	0.05	0.06	0.05	0.19	0.13	0.49	0.29
Count	17	17	17	17	4	17	4	4	4	4	4	4	4	4	4
CountND	0	0	0	0	4	7	1	0	0	0	0	0	0	0	0
DIE-MW3															
Max	7.54	1,777	1,100	44	0.01	0.11	0.42	120	7.4	60	170	110	43	8.3	590
Min	6.60	1,286	690	16	ND	ND	0.21	88	5.8	46	140	99	38	0.2	520
Rng	0.94	491	410	28	0.01	0.11	0.21	32	1.6	14	30	11	5	8.1	70
Med	7.10	1,510	880	24	ND	ND	0.40	115	6.65	53	150	105	42	2.6	535
Mean	7.11	1,520	869	26	Ins	0.04	0.36	110	6.6	53	152	105	41	3.4	545
StDev	0.21	142	99	8.1	Ins	0.03	0.10	15	0.8	6.6	15	6.1	2.2	3.5	31
CV	0.03	0.09	0.11	0.31	Ins	0.71	0.28	0.14	0.11	0.12	0.10	0.06	0.05	1.03	0.06
Count	17	17	17	17	4	17	4	4	4	4	4	4	4	4	4
CountND	0	0	0	0	3	9	0	0	0	0	0	0	0	0	0
DIE-MW4															
Max	8.87	1,574	880	54	0.01	0.28	0.83	81	3.9	47	170	93	90	11	460
Min	6.59	1,071	660	12	ND	ND	0.44	69	3.6	41	150	79	72	1	410
Rng	2.28	503	220	42	0.01	0.28	0.39	12	0.3	6	20	14	18	10	50
Med	7.24	1,315	770	20	ND	0.04	0.62	76	3.75	45.5	160	86	80	5.7	440
Mean	7.34	1,343	769	25	Ins	0.06	0.63	76	3.8	45	160	86	81	5.8	438
StDev	0.50	137	69	12	Ins	0.06	0.21	5.2	0.1	2.6	8.2	5.7	7.4	4.9	22
CV	0.07	0.10	0.09	0.47	Ins	0.92	0.33	0.07	0.03	0.06	0.05	0.07	0.09	0.84	0.05
Count	17	17	17	17	4	17	4	4	4	4	4	4	4	4	4
CountND	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0
DUR-MW1															
Max	7.75	2,680	2,000	130	0.01	0.18	1.1	140	3.2	120	190	150	99	4.1	580
Min	6.58	1,889	1,200	71	ND	ND	ND	120	2.3	92	150	100	88	1.1	490
Rng	1.17	791	800	59	0.01	0.18	1.1	20	0.9	28	40	50	11	3	90
Med	7.10	2,194	1,500	100	ND	0.04	0.78	140	2.8	100	160	110	90	3	530
Mean	7.12	2,219	1,500	102	0.01	0.05	0.60	134	2.8	104	167	111	92	2.9	526
StDev	0.25	200	159	15	0.00	0.04	0.34	7.9	0.3	9.8	19	18	4.3	0.9	35
CV	0.04	0.09	0.11	0.14	0.07	0.66	0.57	0.06	0.10	0.09	0.11	0.16	0.05	0.32	0.07
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	5	7	1	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
DUR-MW2															
Max	7.46	5,729	3,000	23	0.06	350	380	250	340	190	250	320	150	9.1	2,500
Min	6.37	2,804	1,500	ND	0.01	0.35	110	200	230	95	110	240	38	2.2	1,100
Rng	1.09	2,925	1,500	23	0.05	350	270	50	110	95	140	80	112	6.9	1,400
Med	6.96	4,652	2,300	4.7	0.02	180	190	230	290	150	170	260	53	7.4	2,200
Mean	6.93	4,537	2,289	6.7	0.03	179	214	226	290	149	186	273	68	6.3	2,114
StDev	0.22	842	387	6.5	0.02	91	91	17	42	33	48	28	40	2.3	467
CV	0.03	0.19	0.17	0.97	0.76	0.51	0.43	0.08	0.14	0.22	0.26	0.10	0.59	0.37	0.22
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
DUR-MW3															
Max	7.77	4,466	3,000	210	2.1	2.9	7.0	380	190	200	270	560	250	9.3	900
Min	6.47	2,157	1,400	4.6	0.04	ND	0.10	190	5.6	81	140	170	84	0.5	790
Rng	1.30	2,309	1,600	205	2.1	2.9	6.9	190	184	119	130	390	166	8.8	110
Med	7.05	3,177	2,000	90	0.52	0.17	2.4	350	19	130	220	260	170	0.9	880
Mean	7.05	3,139	2,068	94	0.65	0.33	2.5	306	46	132	207	296	169	2.6	867
StDev	0.28	451	328	38	0.67	0.57	2.2	75	67	50	42	136	53	3.2	41
CV	0.04	0.14	0.16	0.40	1.04	1.72	0.88	0.24	1.47	0.38	0.20	0.46	0.31	1.21	0.05
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
DUR-MW4															
Max	7.49	6,165	3,800	330	0.03	180	130	420	270	270	370	450	260	7.5	2,100
Min	6.50	3,695	2,000	13	ND	3.4	54	220	180	140	210	230	100	3.6	1,100
Rng	0.99	2,470	1,800	317	0.03	177	76	200	90	130	160	220	160	3.9	1,000
Med	6.96	4,462	2,750	94	ND	76	83	260	210	190	260	330	170	6.6	1,600
Mean	6.95	4,539	2,754	101	0.03	79	92	280	219	194	277	323	171	6.3	1,643
StDev	0.25	573	446	70	0.01	47	31	65	33	41	53	68	61	1.3	374
CV	0.04	0.13	0.16	0.70	0.27	0.59	0.34	0.23	0.15	0.21	0.19	0.21	0.35	0.21	0.23
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0
DUR-MW6															
Max	8.12	2,625	1,900	130	0.01	0.52	1.2	120	8.4	100	220	120	80	1.8	710
Min	6.48	1,327	870	42	ND	ND	0.23	78	2.9	55	110	59	59	1.1	390
Rng	1.64	1,298	1,030	88	0.01	0.52	0.97	42	5.5	45	110	61	21	0.7	320
Med	7.15	1,728	1,100	66	ND	0.09	0.64	100	4.2	86	170	83	69	1.3	520
Mean	7.20	1,820	1,193	66	0.01	0.14	0.64	102	4.6	83	167	86	71	1.4	546
StDev	0.31	354	260	20	0.00	0.12	0.33	13	1.8	16	35	22	7	0.3	113
CV	0.04	0.19	0.22	0.30	0.07	0.91	0.51	0.13	0.39	0.19	0.21	0.26	0.10	0.21	0.21
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	5	5	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
DUR-MW7															
Max	7.71	4,380	3,000	190	1.4	84	40	190	250	180	300	190	230	75	1,100
Min	6.42	2,969	1,800	45	0.12	0.08	3.5	150	110	130	200	140	130	22	720
Rng	1.29	1,411	1,200	145	1.3	84	36	40	140	50	100	50	100	53	380
Med	7.04	3,211	2,300	120	0.33	1.2	7.8	170	170	140	240	160	170	34	900
Mean	7.03	3,334	2,339	125	0.48	13	15	171	167	149	246	161	177	38	923
StDev	0.30	323	271	34	0.43	22	14	16	54	17	32	20	38	18	137
CV	0.04	0.10	0.12	0.27	0.91	1.66	0.94	0.09	0.32	0.11	0.13	0.12	0.21	0.47	0.15
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DUR-MW8															
Max	7.90	1,340	990	70	0.02	27	10	67	49	56	130	43	88	10	430
Min	6.57	680	440	0.05	ND	0.29	1.1	31	22	29	78	21	26	6.7	260
Rng	1.33	660	550	70	0.02	27	8.9	36	27	27	52	22	62	3.3	170
Med	7.06	966	660	16	ND	2.4	3.4	39	35	36	93	28	59	7.2	300
Mean	7.07	987	679	23	0.02	4.0	4.9	43	34	38	95	30	60	7.7	313
StDev	0.29	167	142	21	0.00	5.2	3.7	12	9.3	9.2	18	7.1	22	1.2	59
CV	0.04	0.17	0.21	0.90	0.13	1.30	0.77	0.28	0.27	0.24	0.18	0.24	0.36	0.15	0.19
Count	28	27	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0
DUR-MW9															
Max	7.74	1,204	860	48	0.00	0.39	1.1	63	5.1	40	110	32	98	2.7	410
Min	6.47	744	500	7.2	ND	ND	0.47	42	2	27	66	21	45	0.5	260
Rng	1.27	460	360	41	0.00	0.39	0.63	21	3.1	13	44	11	53	2.2	150
Med	7.07	950	660	14	ND	0.05	0.66	53	3.5	38	96	26	77	2.2	280
Mean	7.05	942	657	18	Ins	0.07	0.71	52	3.6	36	91	27	74	1.7	306
StDev	0.31	118	84	12	Ins	0.07	0.20	7.6	1.1	4.5	14	4.1	17	0.9	58
CV	0.04	0.13	0.13	0.63	Ins	0.96	0.28	0.15	0.31	0.13	0.16	0.15	0.23	0.52	0.19
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	6	7	0	0	0	0	0	0	0	0	0
DUR-MW10															
Max	7.79	8,819	7,600	130	1.3	9.8	81	580	1600	150	270	1,100	890	85	1,900
Min	6.53	2,382	1,500	1.0	ND	0.02	0.94	270	6.7	81	130	140	92	0.4	730
Rng	1.26	6,437	6,100	129	1.3	9.8	80	310	1593	69	140	960	798	85	1,170
Med	7.22	4,007	2,700	39	0.15	0.24	21	390	700	110	190	460	350	35	1,500
Mean	7.17	4,356	3,300	46	0.28	1.4	29	416	688	111	189	539	406	36	1,447
StDev	0.29	1,934	1,825	36	0.42	2.5	28	113	587	26	52	352	291	32	394
CV	0.04	0.44	0.55	0.79	1.48	1.79	0.98	0.27	0.85	0.24	0.27	0.65	0.72	0.90	0.27
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
FG1-MW1															
Max	7.60	4,096	2,700	31	0.06	9.6	4.6	280	19	77	180	230	150	1.3	920
Min	6.47	1,175	780	ND	ND	ND	ND	140	2.6	34	87	86	32	ND	440
Rng	1.13	2,921	1,920	31	0.06	9.6	4.6	140	16	43	93	144	118	1.3	480
Med	6.95	1,976	1,100	0.42	ND	0.16	0.62	170	5.1	51	120	130	110	0.2	500
Mean	7.03	1,913	1,154	3.1	0.02	0.88	1.0	201	6.8	52	125	151	95	0.4	638
StDev	0.29	631	386	6.9	0.02	1.9	1.3	51	5.2	14	34	49	38	0.5	218
CV	0.04	0.33	0.33	2.21	1.14	2.21	1.29	0.25	0.76	0.27	0.27	0.33	0.40	1.09	0.34
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	10	6	2	1	0	0	0	0	0	0	2	0
FG1-MW2															
Max	7.77	4,950	3,300	89	0.13	0.95	9.3	360	580	63	230	790	270	9.5	710
Min	6.29	1,046	680	28	ND	ND	ND	72	5.6	32	79	92	51	1.9	130
Rng	1.48	3,904	2,620	61	0.13	0.95	9.3	288	574	31	151	698	219	7.6	580
Med	6.77	1,264	830	37	0.02	0.03	0.45	80	8.1	46	100	130	66	2.6	270
Mean	6.77	1,445	966	41	0.05	0.08	1.4	116	80	45	112	204	87	3.5	289
StDev	0.30	698	469	13	0.04	0.16	2.8	92	189	9.1	45	221	69	2.4	165
CV	0.04	0.48	0.49	0.33	0.85	2.00	1.98	0.79	2.36	0.20	0.40	1.09	0.79	0.68	0.57
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	2	9	1	0	0	0	0	0	0	0	0
FG1-MW3															
Max	7.51	2,448	1,400	23	0.02	0.15	0.55	260	10	83	180	240	77	2.6	820
Min	6.43	1,742	980	3.4	ND	ND	ND	180	6.8	57	130	170	37	0.3	650
Rng	1.08	706	420	20	0.02	0.15	0.55	80	3.2	26	50	70	40	2.3	170
Med	7.16	1,982	1,200	9.9	ND	0.03	0.28	200	9.2	68	160	190	64	0.6	740
Mean	7.13	2,028	1,163	12	0.02	0.05	0.32	213	8.8	70	159	201	60	0.9	744
StDev	0.27	186	132	5.8	0.00	0.03	0.15	27	1.1	8.6	15	25	13	0.7	53
CV	0.04	0.09	0.11	0.49	0.05	0.68	0.46	0.13	0.13	0.12	0.09	0.12	0.22	0.81	0.07
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	7	12	1	0	0	0	0	0	0	0	0
FG1-MW4															
Max	7.29	2,741	2,500	170	0.43	0.20	3.1	200	30	76	240	350	190	11	140
Min	5.53	509	390	0.16	ND	ND	0.81	35	13	19	53	32	30	5.9	96
Rng	1.76	2,232	2,110	170	0.43	0.20	2.3	165	17	57	187	318	160	5.1	44
Med	6.18	1,480	1,040	40	0.12	0.04	1.5	71	20	23	63	110	43	8.1	120
Mean	6.22	1,454	1,104	60	0.14	0.06	1.5	97	20	35	102	180	78	8.2	116
StDev	0.29	717	629	47	0.11	0.05	0.74	59	5.1	20	63	132	54	1.9	14
CV	0.05	0.49	0.57	0.78	0.81	0.80	0.51	0.61	0.25	0.55	0.62	0.73	0.70	0.24	0.12
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	2	6	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
FG1-MW5															
Max	7.56	3,030	1,900	47	0.18	0.19	0.82	330	31	42	100	320	200	1.1	450
Min	6.14	607	390	8.1	ND	ND	0.20	62	2.2	20	48	53	26	ND	180
Rng	1.42	2,423	1,510	39	0.18	0.19	0.62	268	29	22	52	267	174	1.1	270
Med	6.81	1,326	880	19	0.06	0.03	0.48	102	19.5	30.5	73	145	68	0.2	215
Mean	6.83	1,338	858	21	0.08	0.05	0.48	126	17	31	72	162	75	0.5	258
StDev	0.31	534	339	8.0	0.05	0.04	0.22	87	11	7.8	17	96	56	0.4	96
CV	0.05	0.40	0.39	0.38	0.61	0.76	0.46	0.69	0.65	0.25	0.24	0.59	0.74	0.81	0.37
Count	31	31	31	31	8	31	8	8	8	8	8	8	8	8	8
CountND	0	0	0	0	2	10	0	0	0	0	0	0	0	3	0
FG1-MW6															
Max	7.19	1,657	1,100	40	0.21	0.17	1.1	180	14	32	75	240	80	5.1	140
Min	5.68	327	220	5.0	ND	ND	0.24	32	2.9	14	29	28	12	2.1	91
Rng	1.51	1,330	880	35	0.21	0.17	0.86	148	11	18	46	212	68	3	49
Med	6.46	909	635	28	0.01	0.03	0.31	69	5.5	25	51	80	30	3.4	120
Mean	6.49	907	632	25	0.06	0.05	0.51	78	6.3	24	49	102	37	3.5	115
StDev	0.29	368	255	9.7	0.07	0.04	0.32	47	3.1	6.2	17	69	22	0.8	18
CV	0.04	0.41	0.40	0.38	1.07	0.79	0.62	0.60	0.50	0.26	0.35	0.68	0.58	0.24	0.15
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	1	11	0	0	0	0	0	0	0	0	0
FG1-MW7															
Max	7.02	1,604	1,200	56	0.06	0.18	1.5	80	10	43	100	250	85	8.4	140
Min	5.89	509	400	14	ND	ND	0.49	31	3.9	15	45	36	32	3.4	66
Rng	1.13	1,095	800	42	0.06	0.18	1.0	49	6.1	28	55	214	53	5	74
Med	6.32	815	640	31	0.03	0.03	0.73	51	7.8	23	58	61	46	4.7	100
Mean	6.36	877	658	31	0.04	0.05	0.86	53	7.6	24	62	85	49	5.1	103
StDev	0.26	282	194	8.2	0.01	0.03	0.37	13	1.7	8.1	16	66	15	1.8	21
CV	0.04	0.32	0.29	0.27	0.39	0.65	0.43	0.25	0.22	0.33	0.27	0.77	0.31	0.34	0.20
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	2	8	0	0	0	0	0	0	0	0	0
FG1-MW8															
Max	7.32	1,525	940	35	0.11	0.25	0.42	110	3.5	48	93	170	120	0.3	390
Min	5.76	923	550	ND	ND	ND	ND	76	2.2	34	60	50	31	ND	300
Rng	1.56	602	390	35	0.11	0.25	0.42	34	1.3	14	33	120	89	0.3	90
Med	6.44	1,050	665	1.1	0.01	0.04	0.29	95	2.6	45	78	92	84	ND	360
Mean	6.49	1,099	685	6.5	0.04	0.09	0.31	94	2.7	42	78	98	77	0.1	356
StDev	0.34	144	91	9.5	0.04	0.07	0.08	11	0.5	5.6	12	33	29	0.1	25
CV	0.05	0.13	0.13	1.46	1.06	0.76	0.27	0.12	0.17	0.13	0.15	0.34	0.37	0.55	0.07
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	5	4	5	1	0	0	0	0	0	0	5	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
FG1-MW9															
Max	8.10	4,737	3,100	90	0.15	0.17	1.3	480	5.1	210	310	820	640	6.5	610
Min	5.82	311	210	ND	ND	ND	0.23	32	0.6	18	32	13	11	ND	150
Rng	2.28	4,426	2,890	90	0.15	0.17	1.1	448	4.5	192	278	807	629	6.5	460
Med	6.97	658	425	0.68	0.01	0.03	0.51	56	1.8	26	55	51	44	0.7	320
Mean	6.97	884	570	9.8	0.04	0.05	0.52	102	2	56	99	133	109	1.2	327
StDev	0.37	780	512	17	0.05	0.03	0.33	143	1.4	61	89	259	200	1.9	150
CV	0.05	0.88	0.90	1.72	1.31	0.64	0.64	1.40	0.72	1.09	0.90	1.95	1.83	1.58	0.46
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	6	3	12	0	0	0	0	0	0	0	1	0
BEA-MW1															
Max	7.28	4,406	3,300	140	2.0	85	83	340	120	150	410	260	250	67	1,500
Min	6.34	1,077	600	ND	ND	7.4	11	74	32	37	98	46	11	1	550
Rng	0.94	3,329	2,700	140	2.0	78	72	266	88	113	312	214	239	66	950
Med	6.88	1,536	940	0.17	0.01	23	22	160	48	59	150	77	24	3	900
Mean	6.88	1,907	1,121	6.7	0.31	25	29	170	64	68	178	111	58	12	933
StDev	0.24	830	577	27	0.69	14	25	96	35	41	111	82	86	24	385
CV	0.03	0.44	0.51	3.99	2.24	0.57	0.86	0.56	0.55	0.60	0.62	0.73	1.49	1.98	0.41
Count	27	27	27	27	7	27	7	7	7	7	7	6	7	7	7
CountND	0	0	0	8	3	0	0	0	0	0	0	0	0	0	0
BEA-MW2															
Max	8.46	1,205	810	32	0.03	0.13	2.0	69	9.4	33	150	64	130	38	320
Min	6.91	314	240	ND	ND	ND	0.16	26	5.5	11	37	3.3	20	0.1	170
Rng	1.55	891	570	32	0.03	0.13	1.8	43	3.9	22	113	61	110	38	150
Med	7.77	667	490	8.8	ND	0.04	0.24	48	7.3	17	78	26	80	0.2	195
Mean	7.71	713	517	12	0.02	0.06	0.49	48	7.6	20	79	29	77	5.1	219
StDev	0.34	253	173	11	0.01	0.03	0.62	12	1.3	8.2	38	21	40	13	59
CV	0.04	0.35	0.33	0.88	0.34	0.49	1.27	0.25	0.17	0.40	0.48	0.74	0.52	2.59	0.27
Count	30	30	29	30	8	30	8	8	8	8	8	8	8	8	8
CountND	0	0	0	6	6	9	0	0	0	0	0	0	0	0	0
BEA-MW3															
Max	7.72	5,510	3,900	270	0.53	0.12	1.9	650	37	160	360	710	320	5.7	710
Min	6.73	3,240	2,200	48	ND	ND	0.28	500	9.6	57	200	480	160	0.4	640
Rng	0.99	2,270	1,700	222	0.53	0.12	1.6	150	27	103	160	230	160	5.2	70
Med	7.14	3,782	2,550	135	ND	0.05	1.3	550	10	67	220	500	170	0.5	640
Mean	7.17	3,943	2,700	142	Ins	0.05	1.2	556	16	85	250	560	204	1.6	660
StDev	0.21	539	428	42	Ins	0.03	0.59	58	12	43	66	105	68	2.3	31
CV	0.03	0.14	0.16	0.30	Ins	0.49	0.49	0.10	0.76	0.50	0.26	0.19	0.33	1.49	0.05
Count	18	18	18	18	5	18	5	5	5	5	5	5	5	5	5
CountND	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
BEA-MW4															
Max	8.08	2,080	1,400	19	0.47	0.14	1.4	390	12	39	120	220	130	9.9	680
Min	6.90	565	420	3.3	ND	ND	0.14	87	3.3	8.8	32	28	34	0.2	220
Rng	1.18	1,515	980	16	0.47	0.14	1.3	303	8.7	30	88	192	96	9.7	460
Med	7.50	1,334	860	9.8	0.08	0.03	0.51	180	6.2	25	84	130	99	0.3	370
Mean	7.51	1,379	890	11	0.16	0.05	0.57	190	6.8	23	74	120	90	1.7	404
StDev	0.27	380	249	3.7	0.15	0.03	0.36	90	2.9	8.5	28	65	32	3.2	146
CV	0.04	0.28	0.28	0.35	0.93	0.61	0.62	0.47	0.42	0.37	0.37	0.54	0.35	1.87	0.36
Count	32	32	31	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	1	9	0	0	0	0	0	0	0	0	0
COT-MW1															
Max	7.85	1,971	1,400	47	ND	0.06	0.93	130	21	71	190	110	160	6.5	580
Min	6.68	1,095	880	31	ND	ND	0.44	89	18	47	120	65	78	2.9	350
Rng	1.17	876	520	16	ND	0.06	0.49	41	3	24	70	45	82	3.6	230
Med	7.18	1,610	1,150	38	ND	0.03	0.59	110	18	61	160	88	130	5.4	510
Mean	7.18	1,596	1,138	38	Ins	0.04	0.64	112	19	61	162	90	128	5.1	486
StDev	0.28	228	155	4.3	Ins	0.01	0.19	15	1.4	9.3	27	20	30	1.3	87
CV	0.04	0.14	0.14	0.11	Ins	0.29	0.29	0.14	0.07	0.15	0.17	0.22	0.24	0.26	0.18
Count	16	16	16	16	5	16	5	5	5	5	5	5	5	5	5
CountND	0	0	0	0	5	3	0	0	0	0	0	0	0	0	0
COT-MW2															
Max	7.79	2,596	1,800	87	ND	0.05	1.0	320	7.1	58	160	100	230	1.1	650
Min	6.97	2,326	1,700	75	ND	ND	1.0	320	7.1	58	160	100	230	1.1	650
Rng	0.82	270	100	12	Ins	0.05	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
Med	7.26	2,430	1,800	82	ND	0.03	1.0	320	7.1	58	160	100	230	1.1	650
Mean	7.37	2,450	1,780	81	Ins	0.03	1.0	320	7.1	58	160	100	230	1.1	650
StDev	0.32	99	45	5.5	Ins	0.01	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
CV	0.04	0.04	0.03	0.07	Ins	0.25	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
Count	5	5	5	5	1	5	1	1	1	1	1	1	1	1	1
CountND	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
COT-MW3															
Max	7.83	2,693	1,800	83	0.01	0.04	0.92	530	4.2	21	72	110	180	14	870
Min	7.05	2,270	1,700	56	ND	ND	0.37	480	4.1	15	51	100	120	0.2	720
Rng	0.78	423	100	27	0.01	0.04	0.55	50	0.1	6	21	10	60	14	150
Med	7.30	2,530	1,700	64	ND	0.03	0.57	490	4.2	21	72	110	160	2.6	740
Mean	7.39	2,502	1,743	68	Ins	0.03	0.62	500	4.2	19	65	107	153	5.6	777
StDev	0.30	132	53	10	Ins	0.01	0.28	26	0.1	3.5	12	5.8	31	7.4	81
CV	0.04	0.05	0.03	0.15	Ins	0.23	0.45	0.05	0.01	0.18	0.19	0.05	0.20	1.32	0.10
Count	7	7	7	7	3	7	3	3	3	3	3	3	3	3	3
CountND	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
COT-MW4															
Max	7.47	2,219	1,300	49	ND	0.04	0.33	310	6.7	23	73	100	95	0.2	700
Min	7.02	1,607	1,100	8.6	ND	ND	0.26	280	6.4	23	72	100	84	0.1	590
Rng	0.45	612	200	40	ND	0.04	0.07	30	0.3	0	1	0	11	0.1	110
Med	7.24	1,791	1,200	25	ND	0.02	0.30	295	6.55	23	72	100	90	0.2	645
Mean	7.25	1,845	1,200	26	Ins	0.03	0.30	295	6.6	23	72	100	90	0.2	645
StDev	0.20	238	71	15	Ins	0.01	0.05	21	0.2	0	0.7	0	7.8	0.1	78
CV	0.03	0.13	0.06	0.57	Ins	0.20	0.17	0.07	0.03	0	0.01	0	0.09	0.53	0.12
Count	5	5	5	5	2	5	2	2	2	2	2	2	2	2	2
CountND	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0
COT-MW5															
Max	7.40	2,694	1,900	100	ND	0.04	0.54	220	8.1	82	220	150	210	0.6	620
Min	6.93	2,362	1,700	94	ND	ND	0.52	210	7.8	79	210	140	190	0.4	610
Rng	0.47	332	200	6.0	ND	0.04	0.02	10	0.3	3	10	10	20	0.2	10
Med	7.13	2,643	1,850	96	ND	0.02	0.53	215	7.95	80.5	215	145	200	0.5	615
Mean	7.16	2,578	1,833	97	Ins	0.03	0.53	215	8	80	215	145	200	0.5	615
StDev	0.19	138	82	2.8	Ins	0.01	0.01	7.1	0.2	2.1	7.1	7.1	14	0.2	7.1
CV	0.03	0.05	0.04	0.03	Ins	0.23	0.03	0.03	0.03	0.03	0.03	0.05	0.07	0.31	0.01
Count	6	6	6	6	2	6	2	2	2	2	2	2	2	2	2
CountND	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0
COT-MW6															
Max	7.28	3,141	2,100	120	ND	0.04	0.52	240	14	100	260	350	230	2.1	500
Min	6.71	3,022	2,000	110	ND	ND	0.29	230	14	98	240	340	190	0.6	460
Rng	0.57	119	100	10	ND	0.04	0.23	10	0	2	20	10	40	1.5	40
Med	6.90	3,067	2,000	115	ND	ND	0.40	235	14	99	250	345	210	1.4	480
Mean	6.94	3,072	2,033	115	Ins	0.03	0.40	235	14	99	250	345	210	1.4	480
StDev	0.21	42	52	5.5	Ins	0.01	0.16	7.1	0	1.4	14	7.1	28	1	28
CV	0.03	0.01	0.03	0.05	Ins	0.21	0.40	0.03	0	0.01	0.06	0.02	0.13	0.75	0.06
Count	6	6	6	6	2	6	2	2	2	2	2	2	2	2	2
CountND	0	0	0	0	2	3	0	0	0	0	0	0	0	0	0
COT-MW7															
Max	7.61	2,329	1,500	87	0.01	0.19	1.1	180	71	66	200	200	120	17	590
Min	6.63	1,316	1,000	23	ND	ND	0.31	120	45	39	99	100	50	5.6	330
Rng	0.98	1,013	500	64	0.01	0.19	0.79	60	26	27	101	100	70	11	260
Med	7.28	1,702	1,200	54	ND	0.03	0.62	140	57.5	47.5	125	120	98	14	380
Mean	7.19	1,770	1,233	52	0.01	0.06	0.65	141	57	50	134	131	94	13	430
StDev	0.28	268	139	18	0.00	0.05	0.29	22	8.3	9.6	33	36	23	3.7	102
CV	0.04	0.15	0.11	0.35	0.29	0.86	0.45	0.15	0.15	0.19	0.25	0.27	0.25	0.29	0.24
Count	21	21	21	21	8	21	8	8	8	8	8	8	8	8	8
CountND	0	0	0	0	6	5	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
COT-MW8															
Max	7.70	1,936	1,400	100	0.01	0.05	0.88	100	4.9	83	160	120	98	9	320
Min	6.97	1,044	710	33	ND	ND	0.30	83	3	56	100	80	43	5.5	300
Rng	0.73	892	690	67	0.01	0.05	0.58	17	1.9	27	60	40	55	3.5	20
Med	7.49	1,257	860	38	ND	0.03	0.56	94	3.35	57.5	110	93	63	6.4	315
Mean	7.38	1,361	915	49	Ins	0.03	0.58	93	3.6	64	120	96	67	6.8	312
StDev	0.26	270	206	23	Ins	0.01	0.25	8	0.9	13	27	18	24	1.6	9.6
CV	0.04	0.20	0.22	0.48	Ins	0.23	0.42	0.09	0.24	0.21	0.23	0.18	0.36	0.23	0.03
Count	12	13	13	13	4	13	4	4	4	4	4	4	4	4	4
CountND	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0
COT-MW9															
Max	7.77	2,074	1,400	81	0.02	0.10	0.52	170	5.7	56	220	120	190	2.5	550
Min	6.52	1,522	820	21	ND	ND	0.14	140	2.9	41	150	91	120	0.5	440
Rng	1.25	552	580	60	0.02	0.10	0.38	30	2.8	15	70	29	70	2	110
Med	7.09	1,802	1,200	38	ND	0.02	0.42	150	4.6	52	190	110	140	0.8	530
Mean	7.11	1,807	1,194	41	Ins	0.04	0.36	156	4.4	50	186	106	148	1	517
StDev	0.29	142	147	17	Ins	0.02	0.13	12	0.9	5.3	21	12	23	0.6	37
CV	0.04	0.08	0.12	0.42	Ins	0.60	0.36	0.08	0.20	0.11	0.11	0.11	0.16	0.60	0.07
Count	31	31	31	31	9	31	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	8	10	0	0	0	0	0	0	0	0	0
COT-MW10															
Max	7.76	2,451	1,800	87	0.00	0.10	0.63	220	2.8	92	230	240	260	9	530
Min	6.51	927	640	7.4	ND	ND	0.15	100	1.4	27	64	86	59	4.3	270
Rng	1.25	1,524	1,160	80	0.00	0.10	0.48	120	1.4	65	166	154	201	4.7	260
Med	7.26	1,770	1,200	21	ND	0.03	0.44	190	2.7	60	160	140	150	5.8	460
Mean	7.22	1,725	1,200	30	Ins	0.05	0.42	173	2.4	58	148	151	158	6.1	437
StDev	0.30	449	341	20	Ins	0.03	0.18	47	0.5	20	52	48	71	1.6	91
CV	0.04	0.26	0.28	0.68	Ins	0.52	0.42	0.27	0.22	0.35	0.35	0.32	0.45	0.26	0.21
Count	29	29	29	29	9	29	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	8	13	0	0	0	0	0	0	0	0	0
COT-MW11															
Max	8.08	2,480	1,700	120	0.61	0.13	1.8	160	79	60	230	200	76	100	740
Min	6.27	423	310	0.66	ND	ND	0.24	38	29	12	42	34	8.4	13	190
Rng	1.81	2,057	1,390	119	0.61	0.13	1.6	122	50	48	188	166	68	87	550
Med	6.86	1,604	1,100	59	ND	0.04	0.79	140	40	45	160	120	42	38	400
Mean	6.85	1,418	1,014	51	0.12	0.05	0.90	118	44	43	151	109	39	40	420
StDev	0.36	581	402	38	0.19	0.03	0.44	43	16	15	60	47	22	28	150
CV	0.05	0.41	0.40	0.75	1.67	0.52	0.49	0.37	0.36	0.36	0.40	0.44	0.56	0.69	0.36
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	5	7	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
COT-MW12															
Max	7.68	1,674	1,300	110	0.00	0.11	0.74	120	12	46	180	110	94	11	460
Min	6.63	1,182	820	35	ND	ND	ND	79	6.1	31	120	67	37	2.4	280
Rng	1.05	492	480	75	0.00	0.11	0.74	41	5.9	15	60	43	57	8.6	180
Med	7.12	1,504	1,100	60	ND	ND	0.33	97	9	40	160	92	47	8.2	370
Mean	7.12	1,478	1,058	63	Ins	0.04	0.38	99	9.5	40	158	89	53	6.8	363
StDev	0.28	127	119	16	Ins	0.02	0.22	13	2.1	5.1	21	15	18	3.3	59
CV	0.04	0.09	0.11	0.26	Ins	0.54	0.57	0.13	0.22	0.12	0.13	0.17	0.34	0.48	0.16
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	8	16	1	0	0	0	0	0	0	0	0
COT-MW13															
Max	7.43	2,358	1,800	130	20	0.98	1.7	140	8.3	77	260	340	120	13	620
Min	6.36	1,313	900	3.8	ND	ND	0.26	110	5.1	33	120	80	74	2	230
Rng	1.07	1,045	900	126	20	0.98	1.4	30	3.2	44	140	260	46	11	390
Med	6.90	1,526	1,100	60	ND	0.03	0.64	120	6.6	42	150	110	82	9.2	290
Mean	6.94	1,631	1,186	63	2.2	0.17	0.71	124	6.5	48	173	144	89	8.5	342
StDev	0.26	278	218	25	6.7	0.26	0.41	8.8	1	16	48	88	16	4.1	132
CV	0.04	0.17	0.18	0.40	2.96	1.56	0.58	0.07	0.16	0.33	0.28	0.61	0.18	0.47	0.38
Count	33	33	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	5	13	0	0	0	0	0	0	0	0	0
COT-MW14															
Max	7.65	2,485	1,900	100	0.76	0.19	1.2	210	9.3	74	230	160	94	12	600
Min	6.34	892	580	3.9	ND	ND	ND	75	6.1	38	110	68	23	ND	390
Rng	1.31	1,593	1,320	96	0.76	0.19	1.2	135	3.2	36	120	92	71	12	210
Med	7.00	1,939	1,300	84	0.06	0.03	0.50	130	8.8	57	190	130	58	0.2	430
Mean	7.05	1,888	1,290	74	0.20	0.05	0.59	131	8.4	58	187	126	60	1.6	462
StDev	0.29	420	309	27	0.25	0.04	0.38	41	1.2	12	41	27	22	3.7	75
CV	0.04	0.22	0.24	0.37	1.27	0.70	0.64	0.31	0.14	0.20	0.22	0.21	0.37	2.29	0.16
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	1	12	1	0	0	0	0	0	0	2	0
SAN-MW1															
Max	7.80	2,914	2,000	53	0.01	0.09	0.50	480	5.2	32	100	140	160	0.5	910
Min	6.43	1,737	1,200	28	ND	ND	0.24	350	4	22	46	88	120	0.1	530
Rng	1.37	1,177	800	25	0.01	0.09	0.26	130	1.2	10	54	52	40	0.4	380
Med	7.42	2,189	1,400	40	ND	0.03	0.42	390	4.55	27.5	88	104	140	0.2	695
Mean	7.35	2,237	1,459	41	Ins	0.04	0.39	400	4.5	27	83	109	142	0.2	722
StDev	0.26	303	199	6.8	Ins	0.02	0.09	51	0.4	3.6	18	22	12	0.1	146
CV	0.04	0.14	0.14	0.16	Ins	0.45	0.23	0.13	0.09	0.13	0.22	0.20	0.08	0.51	0.20
Count	29	29	29	29	8	29	8	8	8	8	8	8	8	8	8
CountND	0	0	0	0	7	10	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
SAN-MW2															
Max	7.53	2,004	1,200	56	ND	0.15	0.45	180	4.9	46	150	120	110	3.3	570
Min	6.97	1,633	1,100	25	ND	ND	0.45	150	4.4	43	130	110	79	ND	540
Rng	0.56	371	100	31	ND	0.15	0	30	0.5	3	20	10	31	3.3	30
Med	7.16	1,719	1,200	42	ND	ND	0.45	165	4.65	44.5	140	115	94	ND	555
Mean	7.18	1,785	1,167	42	Ins	0.04	0.45	165	4.6	44	140	115	94	--	555
StDev	0.19	147	50	10	Ins	0.04	0	21	0.4	2.1	14	7.1	22	Ins	21
CV	0.03	0.08	0.04	0.24	Ins	1.04	0	0.13	0.08	0.05	0.10	0.06	0.23	Ins	0.04
Count	9	9	9	9	2	9	2	2	2	2	2	2	2	2	2
CountND	0	0	0	0	2	5	0	0	0	0	0	0	0	1	0
SAN-MW3															
Max	7.43	1,872	1,200	74	ND	0.06	0.33	130	4.4	55	180	100	120	2.4	420
Min	6.84	1,591	1,100	67	ND	ND	0.31	110	4.2	52	170	88	120	ND	400
Rng	0.59	281	100	7.0	ND	0.06	0.02	20	0.2	3	10	12	0	2.4	20
Med	7.12	1,724	1,200	71	ND	ND	0.32	120	4.3	53.5	175	94	120	ND	410
Mean	7.14	1,734	1,178	71	Ins	0.03	0.32	120	4.3	54	175	94	120	--	410
StDev	0.22	99	44	2.6	Ins	0.01	0.01	14	0.1	2.1	7.1	8.5	0	Ins	14
CV	0.03	0.06	0.04	0.04	Ins	0.47	0.04	0.12	0.03	0.04	0.04	0.09	0	Ins	0.03
Count	9	9	9	9	2	9	2	2	2	2	2	2	2	2	2
CountND	0	0	0	0	2	5	0	0	0	0	0	0	0	1	0
SAN-MW4															
Max	7.47	2,528	1,900	97	0.20	3.5	15	170	380	63	180	250	100	76	750
Min	6.13	1,523	1,000	31	ND	ND	0.32	110	3.8	44	130	73	53	0.5	400
Rng	1.34	1,005	900	66	0.20	3.5	15	60	376	19	50	177	47	75	350
Med	7.07	1,762	1,200	74	ND	0.04	0.97	130	6.4	51	170	95	85	3.7	430
Mean	7.02	1,814	1,252	70	0.06	0.20	3.3	138	91	52	163	117	83	15	503
StDev	0.24	220	196	15	0.08	0.63	5.0	19	156	5.9	18	59	16	25	121
CV	0.03	0.12	0.16	0.21	1.35	3.17	1.54	0.14	1.71	0.11	0.11	0.50	0.19	1.69	0.24
Count	31	31	31	31	9	31	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	5	9	0	0	0	0	0	0	0	0	0
SAN-MW5															
Max	8.02	2,158	1,500	84	0.00	0.12	1.5	210	6.9	68	210	140	200	4.9	560
Min	6.75	1,486	980	20	ND	ND	ND	160	3.6	36	110	83	140	ND	350
Rng	1.27	672	520	64	0.00	0.12	1.5	50	3.3	32	100	57	60	4.9	210
Med	7.40	1,779	1,200	51	ND	0.02	0.35	160	5	51	150	100	170	0.5	440
Mean	7.35	1,754	1,186	52	Ins	0.04	0.46	173	4.9	51	150	104	168	0.9	429
StDev	0.37	192	139	14	Ins	0.02	0.40	19	1	11	31	19	19	1.4	73
CV	0.05	0.11	0.12	0.27	Ins	0.57	0.87	0.11	0.20	0.21	0.21	0.19	0.11	1.52	0.17
Count	29	29	29	29	9	29	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	8	12	1	0	0	0	0	0	0	1	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
SAN-MW6															
Max	7.56	2,775	2,000	79	0.01	0.09	0.49	250	11	79	250	340	250	2.7	510
Min	6.78	1,711	950	24	ND	ND	ND	150	4.3	50	150	120	100	0.1	390
Rng	0.78	1,064	1,050	55	0.01	0.09	0.49	100	6.7	29	100	220	150	2.6	120
Med	7.27	1,946	1,300	46	ND	0.02	0.39	170	7.5	57	190	160	180	1.4	440
Mean	7.24	2,051	1,360	48	Ins	0.04	0.35	178	7.2	61	194	191	173	1.4	451
StDev	0.20	277	216	13	Ins	0.02	0.13	31	2.3	9	31	79	41	0.9	37
CV	0.03	0.14	0.16	0.26	Ins	0.42	0.37	0.17	0.31	0.15	0.16	0.41	0.24	0.66	0.08
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	8	15	1	0	0	0	0	0	0	0	0
SAN-MW7															
Max	7.32	1,946	1,300	45	0.00	0.25	0.93	170	4.5	71	180	110	130	4.4	610
Min	6.25	1,402	700	15	ND	ND	ND	120	1.4	39	130	77	83	ND	460
Rng	1.07	544	600	30	0.00	0.25	0.93	50	3.1	32	50	33	47	4.4	150
Med	7.10	1,582	1,100	31	ND	0.03	0.49	150	3.5	49	160	90	110	0.5	530
Mean	7.02	1,618	1,056	31	Ins	0.05	0.52	147	3.1	52	159	90	110	1.2	536
StDev	0.25	150	155	7.6	Ins	0.04	0.22	16	1.2	9.7	19	10	16	1.4	52
CV	0.04	0.09	0.15	0.24	Ins	0.89	0.42	0.11	0.37	0.19	0.12	0.11	0.14	1.20	0.10
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	8	12	1	0	0	0	0	0	0	2	0
SAN-MW8															
Max	7.64	1,972	1,300	58	0.00	0.11	0.83	270	3.1	52	170	110	150	10	610
Min	6.48	1,366	730	12	ND	ND	0.20	140	1.9	30	100	71	100	ND	450
Rng	1.16	606	570	46	0.00	0.11	0.63	130	1.2	22	70	39	50	10	160
Med	7.08	1,642	1,050	28	ND	0.02	0.40	180	2.3	40	140	85	110	0.6	570
Mean	7.10	1,625	1,036	30	Ins	0.04	0.43	187	2.4	41	143	87	114	2.2	556
StDev	0.22	141	130	10	Ins	0.02	0.18	47	0.3	8.4	24	12	18	3	50
CV	0.03	0.09	0.13	0.35	Ins	0.55	0.43	0.25	0.15	0.21	0.17	0.14	0.16	1.35	0.09
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	8	12	0	0	0	0	0	0	0	1	0
GEN-MW1															
Max	7.63	3,405	2,100	27	0.30	84	29	180	130	190	250	330	84	17	1,300
Min	6.49	2,575	1,400	ND	0.02	ND	4.0	140	42	110	160	260	61	4.4	950
Rng	1.14	830	700	27	0.28	84	25	40	88	80	90	70	23	13	350
Med	7.04	2,829	1,700	6.2	0.20	5.0	7.0	160	83	150	200	280	77	12	1,000
Mean	7.03	2,860	1,707	7.6	0.19	10.0	10	161	80	151	204	284	74	11	1,060
StDev	0.27	181	174	6.6	0.09	16	8.8	12	32	27	30	24	8.3	4.3	121
CV	0.04	0.06	0.10	0.86	0.45	1.61	0.84	0.08	0.40	0.18	0.15	0.08	0.11	0.39	0.11
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
GEN-MW2															
Max	7.60	3,191	1,600	63	0.99	0.46	1.1	120	12	180	230	200	96	1.2	870
Min	6.49	2,103	1,200	49	0.15	ND	0.33	94	7.7	140	180	140	67	0.5	760
Rng	1.11	1,088	400	14	0.84	0.46	0.77	26	4.3	40	50	60	29	0.7	110
Med	6.98	2,378	1,450	56	0.49	0.04	0.71	110	9.3	140	200	160	77	0.8	800
Mean	7.03	2,363	1,436	56	0.50	0.08	0.68	109	9.5	151	200	167	80	0.9	800
StDev	0.24	208	122	2.9	0.26	0.09	0.27	9.6	1.3	17	19	26	10	0.3	40
CV	0.03	0.09	0.09	0.05	0.52	1.04	0.40	0.09	0.14	0.11	0.10	0.15	0.13	0.33	0.05
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
GEN-MW3															
Max	7.72	8,983	6,900	580	5.2	120	77	490	830	350	420	480	430	3.2	2,300
Min	6.41	4,801	2,900	0.22	ND	0.27	4.2	310	540	190	210	380	160	1.3	1,300
Rng	1.31	4,182	4,000	580	5.2	120	73	180	290	160	210	100	270	1.9	1,000
Med	6.98	6,144	4,400	140	0.20	11	12	400	730	250	300	420	310	1.7	2,000
Mean	7.03	6,509	4,514	207	1.0	23	25	401	723	264	303	423	309	2.1	1,871
StDev	0.28	1,158	1,166	186	1.7	30	28	66	97	61	68	36	96	0.8	330
CV	0.04	0.18	0.26	0.90	1.74	1.32	1.11	0.16	0.13	0.23	0.23	0.08	0.31	0.39	0.18
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
GEN-MW5															
Max	8.01	2,836	2,300	210	0.53	0.34	3.2	110	30	160	270	81	180	2.9	720
Min	6.07	1,828	1,300	82	0.18	ND	1.5	91	11	120	210	40	120	1.7	420
Rng	1.94	1,008	1,000	128	0.35	0.34	1.7	19	19	40	60	41	60	1.2	300
Med	6.86	2,390	1,700	145	0.30	0.07	2.1	98	12	130	220	55	160	2.1	540
Mean	6.88	2,405	1,768	144	0.35	0.10	2.3	98	15	131	229	57	157	2.1	546
StDev	0.34	254	263	39	0.17	0.07	0.71	6.8	6.8	13	21	14	20	0.5	102
CV	0.05	0.11	0.15	0.27	0.48	0.69	0.30	0.07	0.46	0.10	0.09	0.25	0.13	0.22	0.19
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
GEN-MW6															
Max	8.15	2,321	1,500	120	0.01	0.13	1.3	120	5.9	64	180	71	68	1.5	500
Min	6.59	536	390	1.7	ND	ND	ND	33	2.7	37	91	16	27	0.8	280
Rng	1.56	1,785	1,110	118	0.01	0.13	1.3	87	3.2	27	89	55	41	0.7	220
Med	6.97	1,198	825	60	ND	0.02	0.60	62	4	48	140	29	52	1.2	380
Mean	7.03	1,323	915	61	0.01	0.04	0.65	77	4.1	49	134	38	47	1.2	386
StDev	0.30	423	275	30	0.00	0.03	0.40	35	1.1	10	31	21	16	0.3	89
CV	0.04	0.32	0.30	0.49	0.12	0.69	0.61	0.46	0.26	0.21	0.23	0.56	0.33	0.22	0.23
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	4	10	2	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
GEN-MW7															
Max	7.83	1,356	950	69	0.03	0.86	0.80	41	3.8	50	99	25	42	0.4	330
Min	6.64	762	520	0.12	ND	ND	ND	33	2	38	73	18	33	0.3	260
Rng	1.19	594	430	69	0.03	0.86	0.80	8	1.8	12	26	7	9	0.2	70
Med	7.10	949	625	30	0.01	0.03	0.46	35	3.5	46	87	20	34	0.4	310
Mean	7.11	956	648	31	0.02	0.07	0.46	36	3.3	45	88	20	36	0.4	301
StDev	0.27	144	99	10	0.01	0.15	0.27	3.1	0.6	4.4	8.8	2.5	3.6	0.1	29
CV	0.04	0.15	0.15	0.33	0.53	2.12	0.58	0.08	0.19	0.10	0.10	0.12	0.10	0.15	0.09
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	3	9	1	0	0	0	0	0	0	0	0
GEN-MW8															
Max	7.80	5,014	2,800	89	0.13	90	62	210	100	250	340	270	110	0.6	2,300
Min	6.00	1,946	1,300	4.6	0.02	ND	0.54	100	8.7	130	200	130	31	0.2	710
Rng	1.80	3,068	1,500	84	0.11	90	61	110	91	120	140	140	79	0.4	1,590
Med	6.96	3,152	2,050	38	0.08	0.07	2.4	160	15	190	280	210	61	0.3	1,300
Mean	6.89	3,321	1,964	45	0.08	18	17	157	36	196	276	204	65	0.4	1,391
StDev	0.37	918	502	28	0.03	28	25	45	36	51	61	48	31	0.1	678
CV	0.05	0.28	0.26	0.63	0.44	1.54	1.47	0.28	1.02	0.26	0.22	0.24	0.47	0.33	0.49
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0
GEN-MW9															
Max	7.64	3,555	2,500	150	0.68	0.32	2.2	110	200	89	230	110	150	35	600
Min	6.44	1,417	1,000	45	0.09	ND	ND	56	110	42	100	27	58	ND	250
Rng	1.20	2,138	1,500	105	0.59	0.32	2.2	54	90	47	130	83	92	35	350
Med	6.90	1,977	1,400	90	0.20	0.05	1.8	93	130	70	170	80	80	22	480
Mean	6.89	2,022	1,446	97	0.30	0.08	1.6	87	143	66	167	74	86	22	453
StDev	0.29	466	335	27	0.22	0.07	0.66	19	34	17	45	27	34	11	122
CV	0.04	0.23	0.23	0.28	0.74	0.88	0.41	0.22	0.24	0.25	0.27	0.36	0.40	0.48	0.27
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	0	4	1	0	0	0	0	0	0	1	0
GEN-MW10															
Max	7.99	2,754	1,800	72	0.88	0.81	4.3	97	38	160	210	160	73	30	870
Min	6.35	1,691	1,100	9.2	0.49	0.04	1.0	78	17	110	150	62	51	2.8	730
Rng	1.64	1,063	700	63	0.39	0.77	3.3	19	21	50	60	98	22	27	140
Med	7.12	1,972	1,300	34	0.62	0.22	1.6	82	29	120	160	98	64	3.5	790
Mean	7.17	2,093	1,386	36	0.64	0.27	1.9	85	28	129	170	104	64	7.5	794
StDev	0.34	326	226	14	0.15	0.18	1.1	7.5	7.4	17	22	31	8	10	58
CV	0.05	0.16	0.16	0.38	0.24	0.65	0.58	0.09	0.27	0.13	0.13	0.30	0.12	1.34	0.07
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
GEN-MW11															
Max	7.73	3,250	2,400	210	0.45	0.39	4.7	130	200	110	260	86	220	38	650
Min	6.16	1,054	790	49	0.04	ND	2.3	63	140	65	150	28	87	21	310
Rng	1.57	2,196	1,610	161	0.41	0.39	2.4	67	60	45	110	58	133	17	340
Med	6.88	2,084	1,600	125	0.19	0.06	2.9	100	160	76	160	56	110	26	430
Mean	6.85	2,092	1,582	123	0.22	0.10	3.3	96	166	80	181	56	127	27	467
StDev	0.39	457	383	33	0.13	0.09	0.92	26	20	16	42	18	43	6.4	131
CV	0.06	0.22	0.24	0.26	0.60	0.86	0.28	0.27	0.12	0.20	0.23	0.32	0.34	0.24	0.28
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
GEN-MW12															
Max	8.14	1,897	1,400	120	0.03	0.24	0.78	89	8.2	120	150	49	130	1.7	480
Min	6.79	1,257	900	45	ND	ND	ND	59	5	82	97	33	81	0.6	400
Rng	1.35	640	500	75	0.03	0.24	0.78	30	3.2	38	53	16	49	1.1	80
Med	7.25	1,535	1,000	63	0.00	ND	ND	66	5.7	99	120	44	100	0.7	460
Mean	7.31	1,565	1,051	67	0.01	0.05	0.48	70	6	102	121	42	99	0.8	444
StDev	0.32	152	103	15	0.01	0.04	0.18	9.7	1.1	13	17	5.3	16	0.4	33
CV	0.04	0.10	0.10	0.23	0.65	0.84	0.37	0.14	0.18	0.12	0.14	0.13	0.16	0.47	0.07
Count	27	27	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	3	14	4	0	0	0	0	0	0	0	0
TRO-MW1															
Max	7.66	1,585	920	20	0.01	0.12	0.70	53	3.9	36	150	97	35	5.5	440
Min	6.69	880	560	6.9	ND	ND	0.23	42	3.2	30	130	78	22	0.6	380
Rng	0.97	705	360	13	0.01	0.12	0.47	11	0.7	6	20	19	13	4.9	60
Med	7.16	1,154	680	12	ND	0.03	0.61	50	3.8	34	150	92	23	4.7	420
Mean	7.23	1,119	684	12	Ins	0.06	0.51	48	3.6	33	143	89	27	3.6	413
StDev	0.29	166	87	3.5	Ins	0.03	0.25	5.7	0.4	3.1	12	9.8	7.2	2.6	31
CV	0.04	0.15	0.13	0.29	Ins	0.50	0.49	0.12	0.10	0.09	0.08	0.11	0.27	0.73	0.07
Count	15	15	15	15	3	15	3	3	3	3	3	3	3	3	3
CountND	0	0	0	0	2	6	0	0	0	0	0	0	0	0	0
TRO-MW2															
Max	7.38	1,814	1,400	97	0.01	0.12	0.66	67	4.9	44	220	130	49	0.4	310
Min	6.63	1,230	780	50	ND	ND	ND	58	3.3	35	170	84	28	ND	240
Rng	0.75	584	620	47	0.01	0.12	0.66	9	1.6	9	50	46	21	0.4	70
Med	6.90	1,534	1,200	80	ND	0.03	0.36	66	4.3	41	180	110	32	0.2	270
Mean	6.95	1,525	1,166	77	Ins	0.05	0.37	64	4.1	40	189	109	36	0.2	270
StDev	0.22	149	184	13	Ins	0.03	0.20	3.6	0.7	3.8	20	16	8.4	0.1	23
CV	0.03	0.10	0.16	0.17	Ins	0.55	0.53	0.06	0.16	0.09	0.10	0.15	0.23	0.68	0.09
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	6	12	1	0	0	0	0	0	0	2	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
TRO-MW3															
Max	8.34	1,837	1,300	83	0.01	0.10	0.21	51	5.5	31	150	99	18	0.9	290
Min	6.71	748	440	16	ND	ND	ND	33	4.2	19	90	51	13	ND	240
Rng	1.63	1,089	860	67	0.01	0.10	0.21	18	1.3	12	60	48	5	0.9	50
Med	7.38	914	600	26	ND	0.03	0.12	40	5	24	110	62	14	0.3	250
Mean	7.39	1,038	676	33	Ins	0.05	0.16	41	4.9	25	114	69	15	0.4	257
StDev	0.32	320	241	20	Ins	0.02	0.04	6.2	0.5	4.4	23	18	1.9	0.3	16
CV	0.04	0.31	0.36	0.62	Ins	0.52	0.27	0.15	0.10	0.18	0.20	0.26	0.13	0.60	0.06
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	6	13	2	0	0	0	0	0	0	1	0
PLS-MW1															
Max	7.22	2,817	2,000	140	0.27	0.34	1.7	210	4.3	88	220	210	230	0.6	490
Min	6.62	1,742	1,000	47	ND	ND	1.0	180	2.7	58	120	120	96	0.2	390
Rng	0.60	1,075	1,000	93	0.27	0.34	0.70	30	1.6	30	100	90	134	0.4	100
Med	7.00	2,068	1,400	64	0.15	0.04	1.2	190	3.3	74	160	180	130	0.4	420
Mean	6.95	2,148	1,422	77	0.14	0.07	1.2	190	3.3	75	170	181	144	0.4	430
StDev	0.19	333	276	29	0.08	0.07	0.21	8.7	0.5	9.3	35	30	44	0.1	32
CV	0.03	0.15	0.19	0.37	0.63	0.97	0.17	0.05	0.15	0.12	0.21	0.16	0.30	0.33	0.07
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0
PLS-MW2															
Max	7.39	3,300	2,100	99	0.27	0.28	1.7	220	3.9	97	210	270	190	2.3	650
Min	6.46	1,524	1,000	33	ND	ND	1.1	140	1.2	56	130	110	62	0.2	440
Rng	0.93	1,776	1,100	66	0.27	0.28	0.60	80	2.7	41	80	160	128	2.1	210
Med	6.95	2,113	1,400	58	0.15	0.04	1.3	200	2.2	71	150	170	120	0.6	500
Mean	6.93	2,207	1,444	60	0.13	0.07	1.3	188	2.5	76	164	182	123	0.6	512
StDev	0.21	358	246	14	0.09	0.06	0.20	28	1.1	15	35	53	47	0.7	69
CV	0.03	0.16	0.17	0.24	0.71	0.90	0.15	0.15	0.45	0.20	0.21	0.29	0.38	1.06	0.13
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	1	5	0	0	0	0	0	0	0	0	0
PLS-MW3															
Max	7.55	3,075	2,100	80	0.62	0.26	2.0	230	4.6	79	330	350	240	1	640
Min	6.06	1,219	880	2.7	ND	ND	0.54	57	2.6	43	160	55	63	ND	430
Rng	1.49	1,856	1,220	77	0.62	0.26	1.5	173	2	36	170	295	177	1	210
Med	7.00	1,717	1,100	56	0.02	0.05	1.6	74	4	54	210	98	79	0.3	440
Mean	7.00	1,853	1,209	52	0.15	0.07	1.5	103	3.8	57	226	132	106	0.3	481
StDev	0.28	471	332	15	0.22	0.06	0.43	60	0.7	12	60	102	59	0.2	73
CV	0.04	0.25	0.27	0.28	1.46	0.80	0.28	0.58	0.18	0.21	0.27	0.77	0.56	0.70	0.15
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	1	2	0	0	0	0	0	0	0	1	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
PLS-MW4															
Max	7.24	5,612	4,000	150	12	12	14	410	530	150	310	700	320	0.6	1,100
Min	6.30	2,352	1,600	27	ND	0.11	2.5	290	130	94	220	390	180	0.2	870
Rng	0.94	3,260	2,400	123	12	12	12	120	400	56	90	310	140	0.3	230
Med	7.01	4,135	2,650	55	0.05	0.86	4.7	350	290	120	290	600	210	0.4	960
Mean	6.93	4,128	2,672	66	1.4	3.1	6.1	346	327	115	279	580	239	0.4	981
StDev	0.20	712	605	36	3.8	3.8	4.2	47	142	20	33	105	51	0.1	76
CV	0.03	0.17	0.23	0.54	2.73	1.24	0.69	0.14	0.44	0.18	0.12	0.18	0.21	0.28	0.08
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
PLS-MW5															
Max	7.48	2,402	1,600	89	0.75	0.25	1.6	220	16	77	220	250	110	6	560
Min	6.49	1,542	900	28	ND	0.03	0.77	99	4.7	49	160	140	51	0.2	170
Rng	0.99	860	700	61	0.75	0.22	0.83	121	11	28	60	110	59	5.8	390
Med	6.99	1,926	1,250	69	0.40	0.05	1.5	130	5.9	60	180	160	76	0.5	420
Mean	6.94	1,923	1,278	63	0.38	0.07	1.3	141	7.1	62	187	176	77	1.1	414
StDev	0.26	206	134	19	0.26	0.05	0.30	37	3.5	8.4	22	37	21	1.9	111
CV	0.04	0.11	0.10	0.30	0.68	0.76	0.22	0.26	0.50	0.14	0.12	0.21	0.27	1.64	0.27
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
PLS-MW6															
Max	7.65	2,746	1,800	65	0.70	0.36	1.9	420	5.9	77	180	250	240	4.8	790
Min	6.60	2,017	1,300	33	ND	ND	0.84	240	4.1	46	98	140	120	0.3	590
Rng	1.05	729	500	32	0.70	0.36	1.1	180	1.8	31	82	110	120	4.5	200
Med	7.28	2,300	1,500	48	0.51	0.04	1.2	290	4.2	61	150	160	130	0.4	660
Mean	7.27	2,329	1,503	46	0.43	0.08	1.2	311	4.5	61	146	181	163	0.9	669
StDev	0.24	184	147	8.9	0.24	0.08	0.35	61	0.6	12	30	39	45	1.5	62
CV	0.03	0.08	0.10	0.19	0.57	0.98	0.28	0.20	0.13	0.19	0.20	0.22	0.27	1.64	0.09
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	1	8	0	0	0	0	0	0	0	0	0
PLS-MW7															
Max	7.38	3,153	2,400	170	0.42	0.96	2.6	230	4	110	270	240	200	8.6	560
Min	6.52	1,808	1,100	58	ND	ND	1.4	170	3.1	63	160	130	120	0.3	440
Rng	0.86	1,345	1,300	112	0.42	0.96	1.2	60	0.9	47	110	110	80	8.3	120
Med	7.04	2,068	1,500	68	0.27	0.06	1.9	170	3.4	71	190	160	160	0.5	460
Mean	7.00	2,165	1,483	78	0.26	0.11	1.9	190	3.5	75	191	169	159	1.5	487
StDev	0.20	329	292	28	0.10	0.17	0.37	25	0.3	14	32	40	33	2.7	50
CV	0.03	0.15	0.20	0.36	0.39	1.52	0.19	0.13	0.08	0.19	0.17	0.24	0.21	1.83	0.10
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
CAE-MW1															
Max	7.77	4,131	2,300	60	6.5	170	130	190	340	130	190	220	200	6.2	1,600
Min	6.33	1,953	1,100	ND	ND	2.5	78	100	230	45	96	88	32	2.6	1,000
Rng	1.44	2,178	1,200	60	6.5	168	52	90	110	85	94	132	168	3.6	600
Med	6.96	3,003	1,500	19	0.01	130	120	110	250	58	130	100	49	4.1	1,200
Mean	6.99	3,036	1,584	21	0.79	121	112	123	262	65	131	118	64	4.2	1,200
StDev	0.26	451	259	15	2.0	33	21	31	36	25	27	43	52	1.1	173
CV	0.04	0.15	0.16	0.69	2.55	0.28	0.19	0.25	0.14	0.39	0.21	0.36	0.81	0.26	0.14
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0
CAE-MW2															
Max	8.08	2,969	2,200	120	0.71	0.45	2.6	180	620	57	190	180	180	7.3	520
Min	6.13	576	460	27	ND	ND	1.2	46	28	5.8	13	12	40	0.3	170
Rng	1.95	2,393	1,740	93	0.71	0.45	1.4	134	592	51	177	168	140	7	350
Med	6.93	1,633	1,100	64	0.21	0.12	1.8	110	80	32	100	120	91	0.5	300
Mean	6.93	1,576	1,144	64	0.24	0.14	1.8	106	165	32	107	104	94	1.8	324
StDev	0.31	598	423	26	0.22	0.10	0.42	36	186	17	58	52	44	2.4	112
CV	0.04	0.38	0.37	0.40	0.89	0.72	0.24	0.34	1.12	0.52	0.55	0.50	0.47	1.34	0.34
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	1	4	0	0	0	0	0	0	0	0	0
CAE-MW3															
Max	7.61	3,856	2,700	110	0.91	0.62	11	190	660	70	180	360	240	110	840
Min	6.11	1,265	920	20	0.05	ND	1.1	45	61	11	32	27	55	0.2	240
Rng	1.50	2,591	1,780	90	0.86	0.62	9.9	145	599	59	148	333	185	110	600
Med	6.87	2,042	1,500	76	0.49	0.09	3.5	110	270	56	140	140	110	1.3	390
Mean	6.89	2,135	1,596	72	0.46	0.16	4.0	116	299	46	121	150	120	16	502
StDev	0.32	596	423	21	0.24	0.15	2.9	42	225	21	60	100	56	36	233
CV	0.05	0.28	0.27	0.30	0.52	0.93	0.74	0.36	0.75	0.45	0.50	0.66	0.47	2.28	0.46
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
CAE-MW4															
Max	7.55	3,035	2,800	210	1.3	0.36	4.8	130	46	47	190	120	96	30	260
Min	6.09	1,212	960	77	0.07	ND	2.1	64	7.5	31	110	44	39	2.8	140
Rng	1.46	1,823	1,840	133	1.2	0.36	2.7	66	38	16	80	76	57	27	120
Med	6.48	1,565	1,350	110	0.28	0.08	3.5	110	10	42	150	55	61	8.5	230
Mean	6.53	1,723	1,411	120	0.39	0.12	3.6	100	22	40	147	63	62	12	216
StDev	0.28	503	428	37	0.37	0.10	0.83	28	16	5.4	23	23	21	10	37
CV	0.04	0.29	0.30	0.31	0.93	0.79	0.23	0.28	0.75	0.13	0.16	0.37	0.33	0.81	0.17
Count	32	31	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
CAE-MW5															
Max	7.56	1,431	1,100	88	0.17	0.16	1.7	74	7.5	43	160	33	69	1.8	380
Min	6.50	922	550	35	ND	ND	0.58	20	3.1	25	92	12	27	0.1	240
Rng	1.06	509	550	53	0.17	0.16	1.1	54	4.4	18	68	21	42	1.7	140
Med	6.80	1,064	785	51	0.05	0.03	1.1	50	3.7	38	140	19	42	0.5	320
Mean	6.87	1,101	799	52	0.09	0.06	1.1	49	4	36	130	21	45	0.7	309
StDev	0.22	140	113	12	0.05	0.03	0.35	17	1.3	6	20	6.9	12	0.6	59
CV	0.03	0.13	0.14	0.24	0.59	0.59	0.31	0.34	0.33	0.17	0.15	0.32	0.28	0.82	0.19
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	1	11	0	0	0	0	0	0	0	0	0
CAE-MW6															
Max	7.75	2,803	2,100	120	0.90	0.22	5.3	140	140	100	280	320	180	1.8	740
Min	6.52	854	610	29	ND	ND	ND	65	15	54	120	66	78	ND	360
Rng	1.23	1,949	1,490	91	0.90	0.22	5.3	75	125	46	160	254	102	1.8	380
Med	6.94	1,850	1,300	50	0.37	0.06	1.7	100	42	72	160	120	97	0.5	500
Mean	6.98	1,938	1,307	58	0.38	0.08	2.2	108	57	77	184	155	107	0.6	529
StDev	0.29	432	276	28	0.36	0.05	1.4	25	39	20	62	78	33	0.5	127
CV	0.04	0.22	0.21	0.48	0.95	0.63	0.65	0.23	0.70	0.26	0.34	0.51	0.31	0.81	0.24
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	3	6	1	0	0	0	0	0	0	1	0
ROB-MW1															
Max	7.27	4,033	2,700	150	4.3	52	13	240	110	170	440	440	71	21	1,300
Min	6.25	921	620	26	ND	ND	0.46	57	5.7	22	68	38	27	3.5	190
Rng	1.02	3,112	2,080	124	4.3	52	13	183	104	148	372	402	44	18	1,110
Med	6.72	3,028	2,100	86	0.02	0.06	1.2	140	65.5	71	225	195	44	8	590
Mean	6.76	2,844	1,945	88	0.64	7.0	3.6	142	55	84	240	204	46	9.1	656
StDev	0.24	827	550	38	1.4	13	4.8	78	37	57	137	148	13	5.5	420
CV	0.04	0.29	0.28	0.44	2.19	1.89	1.33	0.55	0.68	0.67	0.57	0.72	0.28	0.61	0.64
Count	28	28	28	28	8	28	8	8	8	8	8	8	8	8	8
CountND	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0
ROB-MW2															
Max	7.47	3,675	2,600	200	0.04	10	1.6	150	160	110	380	230	100	26	1,000
Min	6.24	2,245	1,300	37	ND	ND	0.37	110	9.5	73	210	130	38	1.5	510
Rng	1.23	1,430	1,300	163	0.04	10	1.2	40	150	37	170	100	62	24	490
Med	6.66	2,768	1,900	120	ND	0.04	1.3	135	26.5	88.5	310	190	76	5	670
Mean	6.69	2,874	1,946	114	0.04	0.45	1.1	131	66	89	309	184	74	7.3	714
StDev	0.25	426	356	49	0.01	1.8	0.42	14	68	12	53	35	23	7.8	183
CV	0.04	0.15	0.18	0.43	0.17	4.08	0.37	0.10	1.02	0.14	0.17	0.19	0.32	1.08	0.26
Count	28	28	28	28	8	28	8	8	8	8	8	8	8	8	8
CountND	0	0	0	0	4	7	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
ROB-MW3															
Max	7.59	2,919	1,900	67	0.24	0.13	1.5	150	22	110	320	400	110	3	710
Min	6.54	1,484	960	1.6	ND	ND	0.57	95	2.2	65	160	150	32	0.3	440
Rng	1.05	1,435	940	65	0.24	0.13	0.93	55	20	45	160	250	78	2.7	270
Med	6.98	1,994	1,200	43	0.02	0.03	1.0	110	3.2	83	190	250	63	1.3	530
Mean	6.99	2,051	1,278	38	0.07	0.05	0.97	115	8.8	81	210	233	67	1.4	542
StDev	0.23	385	244	18	0.08	0.03	0.32	17	7.6	15	49	78	25	1	87
CV	0.03	0.19	0.19	0.46	1.09	0.54	0.33	0.15	0.86	0.18	0.23	0.33	0.37	0.77	0.16
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	3	13	0	0	0	0	0	0	0	0	0
ROB-MW4															
Max	9.63	3,607	2,400	100	0.21	0.14	1.6	260	6.5	120	330	490	270	0.3	520
Min	6.35	1,554	870	22	ND	ND	ND	83	2.7	57	160	150	50	0.1	290
Rng	3.28	2,053	1,530	78	0.21	0.14	1.6	177	3.8	63	170	340	220	0.2	230
Med	7.02	2,038	1,450	44	0.02	0.03	0.63	150	3.4	68	200	310	87	0.2	360
Mean	7.11	2,102	1,433	46	0.06	0.05	0.69	152	4.2	77	220	320	128	0.2	390
StDev	0.56	441	307	18	0.06	0.03	0.43	68	1.5	20	55	105	86	0.1	96
CV	0.08	0.21	0.21	0.38	1.02	0.60	0.62	0.45	0.35	0.27	0.25	0.33	0.67	0.43	0.25
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	3	13	1	0	0	0	0	0	0	0	0
ROB-MW5															
Max	7.71	3,145	2,400	98	0.76	0.18	1.4	180	19	110	320	560	86	11	740
Min	6.35	2,237	1,500	52	ND	ND	0.17	130	2.9	83	240	170	63	3.1	460
Rng	1.36	908	900	46	0.76	0.18	1.2	50	16	27	80	390	23	7.9	280
Med	6.77	2,621	1,750	80	0.02	0.04	0.96	150	3.2	96	280	280	77	4.8	630
Mean	6.80	2,581	1,789	78	0.23	0.05	0.84	146	5.6	96	277	289	75	5.7	613
StDev	0.25	189	220	12	0.28	0.04	0.40	17	5.2	9.5	26	134	8	2.9	85
CV	0.04	0.07	0.12	0.15	1.23	0.72	0.48	0.12	0.93	0.10	0.09	0.46	0.11	0.51	0.14
Count	28	28	28	28	9	28	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	2	6	0	0	0	0	0	0	0	0	0
ROB-MW6															
Max	7.49	7,433	5,800	130	0.31	260	92	190	250	120	370	390	82	21	1,300
Min	5.69	1,829	970	0.03	ND	ND	1.0	97	18	48	180	170	34	0.5	420
Rng	1.80	5,604	4,830	130	0.31	260	91	93	232	72	190	220	48	20	880
Med	6.78	2,712	1,600	26	0.10	5.5	4.2	170	100	71	230	250	61	2.4	580
Mean	6.76	3,001	1,837	46	0.11	36	24	154	121	76	239	278	56	4.3	762
StDev	0.33	1,090	879	44	0.09	56	33	35	75	26	59	74	17	6.5	359
CV	0.05	0.36	0.48	0.97	0.80	1.57	1.39	0.22	0.62	0.35	0.25	0.27	0.30	1.48	0.47
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
ROB-MW7															
Max	7.72	1,887	2,000	140	0.32	0.71	0.62	120	15	46	160	190	76	5.9	270
Min	6.56	1,025	670	35	ND	ND	ND	58	3.2	28	100	41	39	0.8	200
Rng	1.16	862	1,330	105	0.32	0.71	0.62	62	12	18	60	149	37	5.2	70
Med	7.12	1,470	1,000	61	ND	0.03	0.28	97	11	42	140	130	50	4	250
Mean	7.16	1,465	1,060	65	0.04	0.08	0.34	92	9.5	40	133	117	54	3.7	248
StDev	0.27	179	233	18	0.11	0.12	0.17	23	4.2	5.6	19	42	12	1.8	22
CV	0.04	0.12	0.22	0.28	2.36	1.53	0.51	0.25	0.45	0.14	0.14	0.36	0.23	0.49	0.09
Count	32	31	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	7	13	1	0	0	0	0	0	0	0	0
ROB-MW8															
Max	7.53	2,561	1,600	95	0.03	2.4	2.0	140	10	98	300	200	130	0.6	840
Min	6.10	2,074	1,100	33	ND	ND	0.47	110	2.5	74	170	160	81	0.1	540
Rng	1.43	487	500	62	0.03	2.4	1.5	30	7.5	24	130	40	49	0.4	300
Med	6.94	2,312	1,400	54	ND	0.07	0.76	130	5.2	90	260	190	90	0.3	760
Mean	6.93	2,317	1,381	57	0.04	0.30	1.0	127	5.8	88	252	181	96	0.3	708
StDev	0.26	144	128	16	0.08	0.50	0.57	8.7	2.7	8.6	37	16	15	0.1	111
CV	0.04	0.06	0.09	0.28	1.94	1.65	0.56	0.07	0.47	0.10	0.15	0.09	0.16	0.42	0.16
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	7	7	0	0	0	0	0	0	0	0	0
WOO-MW1															
Max	7.45	1,893	1,200	60	0.01	0.18	0.35	110	2	72	180	120	79	1.6	540
Min	6.05	1,387	700	16	ND	ND	0.10	80	1.6	54	140	100	60	ND	500
Rng	1.40	506	500	44	0.01	0.18	0.25	30	0.4	18	40	20	19	1.6	40
Med	6.94	1,588	970	32	ND	0.03	0.20	93	1.8	61	150	110	61	0.3	520
Mean	6.94	1,608	942	33	Ins	0.05	0.21	94	1.8	62	156	110	65	0.5	520
StDev	0.26	136	111	14	Ins	0.03	0.10	9.5	0.1	5.5	13	5.8	7	0.5	13
CV	0.04	0.08	0.12	0.41	Ins	0.65	0.46	0.10	0.08	0.09	0.08	0.05	0.11	0.85	0.02
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	6	12	0	0	0	0	0	0	0	1	0
WOO-MW2															
Max	7.90	1,488	860	35	0.01	0.09	0.27	80	1.7	69	140	120	47	1.8	480
Min	6.50	934	580	9.8	ND	ND	0.10	58	0.97	44	95	28	26	0.2	370
Rng	1.40	554	280	25	0.01	0.09	0.17	22	0.7	25	45	92	21	1.6	110
Med	7.20	1,226	705	20	ND	0.02	0.16	68	1.5	54	120	78	35	0.5	420
Mean	7.23	1,211	716	21	Ins	0.04	0.18	67	1.4	54	116	81	36	0.7	421
StDev	0.26	122	76	5.8	Ins	0.02	0.07	6.9	0.3	7.8	14	29	6.4	0.5	47
CV	0.04	0.10	0.11	0.28	Ins	0.45	0.37	0.10	0.20	0.14	0.12	0.35	0.18	0.78	0.11
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	6	13	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
WOO-MW3															
Max	7.75	1,825	1,300	70	0.01	0.10	0.40	110	1.4	72	170	100	68	0.3	490
Min	6.34	1,325	640	31	ND	ND	0.20	93	1.1	58	140	94	54	ND	440
Rng	1.41	500	660	39	0.01	0.10	0.20	17	0.3	14	30	6	14	0.3	50
Med	7.05	1,612	990	50	ND	0.03	0.29	110	1.2	67	160	98	61	0.1	450
Mean	7.05	1,599	976	51	Ins	0.04	0.28	104	1.2	65	157	98	61	0.2	460
StDev	0.30	127	125	9.1	Ins	0.02	0.07	7.8	0.1	4.7	9.5	2.3	5	0.1	17
CV	0.04	0.08	0.13	0.18	Ins	0.45	0.26	0.07	0.10	0.07	0.06	0.02	0.08	0.56	0.04
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	6	9	0	0	0	0	0	0	0	1	0
ANT-MW1															
Max	7.68	2,947	1,800	150	0.02	0.12	1.2	160	6	140	180	230	130	5.3	650
Min	6.64	1,532	940	17	ND	ND	0.58	110	4	83	85	150	120	ND	460
Rng	1.04	1,415	860	133	0.02	0.12	0.62	50	2	57	95	80	10	5.3	190
Med	6.93	2,136	1,300	35	0.01	0.03	0.82	140	5.1	100	130	170	120	0.4	540
Mean	7.00	2,053	1,268	45	0.01	0.05	0.82	139	5	104	138	179	124	1.1	553
StDev	0.25	292	200	27	0.01	0.03	0.20	17	0.7	19	30	26	5.3	1.8	68
CV	0.04	0.14	0.16	0.61	0.49	0.55	0.24	0.12	0.14	0.18	0.22	0.15	0.04	1.54	0.12
Count	25	25	25	25	7	25	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	2	9	0	0	0	0	0	0	0	1	0
ANT-MW2															
Max	7.80	3,476	2,100	81	0.01	0.09	0.30	210	3.8	180	150	400	210	0.5	600
Min	6.70	1,598	920	15	ND	ND	ND	110	2.8	84	110	140	130	ND	430
Rng	1.10	1,878	1,180	66	0.01	0.09	0.30	100	1	96	40	260	80	0.5	170
Med	7.24	1,937	1,200	36	ND	ND	0.21	145	3.4	98.5	130	200	160	0.2	480
Mean	7.24	2,189	1,334	39	Ins	0.04	0.21	154	3.4	123	132	236	165	0.3	498
StDev	0.23	597	325	19	Ins	0.02	0.05	36	0.3	43	17	98	33	0.1	62
CV	0.03	0.27	0.24	0.50	Ins	0.49	0.25	0.23	0.10	0.35	0.13	0.41	0.20	0.44	0.12
Count	31	31	31	31	8	31	8	8	8	8	8	8	8	8	8
CountND	0	0	0	0	6	19	1	0	0	0	0	0	0	1	0
ANT-MW3															
Max	8.03	2,444	1,500	68	0.01	0.11	0.37	150	6.9	120	180	250	170	0.9	550
Min	6.88	1,447	840	18	ND	ND	ND	110	2.6	71	92	140	120	ND	360
Rng	1.15	997	660	50	0.01	0.11	0.37	40	4.3	49	88	110	50	0.9	190
Med	7.26	1,785	1,150	28	ND	ND	0.14	140	3.5	99	120	180	150	0.2	470
Mean	7.26	1,874	1,173	35	Ins	0.04	0.19	131	4	95	134	181	144	0.3	464
StDev	0.27	275	170	15	Ins	0.03	0.10	15	1.6	16	30	38	16	0.2	64
CV	0.04	0.15	0.14	0.44	Ins	0.58	0.56	0.11	0.40	0.17	0.23	0.21	0.11	0.87	0.14
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	8	16	2	0	0	0	0	0	0	2	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
ANT-MW4															
Max	7.87	2,361	1,700	34	0.02	0.09	4.1	210	2.9	180	140	210	160	26	720
Min	6.85	1,558	920	12	ND	ND	ND	120	2.3	77	95	120	130	ND	440
Rng	1.02	803	780	22	0.02	0.09	4.1	90	0.6	103	45	90	30	26	280
Med	7.17	1,984	1,200	23	ND	ND	0.18	160	2.75	110	110	185	150	1	660
Mean	7.24	1,934	1,210	22	0.02	0.04	0.72	161	2.6	119	113	175	148	4.7	620
StDev	0.25	230	192	4.8	0.02	0.02	1.3	31	0.2	35	14	28	10	8.4	115
CV	0.03	0.12	0.16	0.22	0.89	0.50	1.79	0.19	0.09	0.29	0.13	0.16	0.07	1.78	0.19
Count	29	29	29	29	8	29	8	8	8	8	8	8	8	8	8
CountND	0	0	0	0	6	15	1	0	0	0	0	0	0	1	0
ANT-MW5															
Max	7.80	2,334	1,500	52	3.3	0.18	1.8	140	6.1	130	150	210	150	6.8	630
Min	6.75	1,018	680	4.2	ND	ND	0.39	110	3.1	85	88	130	100	ND	430
Rng	1.05	1,316	820	48	3.3	0.18	1.4	30	3	45	62	80	50	6.8	200
Med	7.09	1,781	1,100	24	ND	0.03	0.72	125	4.5	100	125	165	120	ND	535
Mean	7.15	1,797	1,138	26	0.45	0.04	0.84	122	4.5	105	124	171	122	1	530
StDev	0.23	325	219	12	1.2	0.03	0.47	12	1.1	16	19	27	17	2.2	65
CV	0.03	0.18	0.19	0.47	2.56	0.79	0.56	0.10	0.24	0.15	0.15	0.16	0.14	2.19	0.12
Count	31	31	31	31	8	31	8	8	8	8	8	8	8	8	8
CountND	0	0	0	0	5	12	0	0	0	0	0	0	0	4	0
ANT-MW6															
Max	7.98	2,080	1,400	44	ND	0.10	0.53	140	110	120	140	230	170	0.9	520
Min	6.98	1,295	540	14	ND	ND	0.24	100	9.8	68	52	110	110	ND	380
Rng	1.00	785	860	30	ND	0.10	0.29	40	100	52	88	120	60	0.9	140
Med	7.27	1,778	1,200	24	ND	0.03	0.32	110	70	96	73	150	140	0.3	470
Mean	7.31	1,748	1,123	26	Ins	0.05	0.34	117	66	97	85	167	141	0.3	447
StDev	0.23	222	181	8.9	Ins	0.02	0.10	17	34	18	30	40	23	0.3	49
CV	0.03	0.13	0.16	0.34	Ins	0.46	0.29	0.14	0.52	0.18	0.36	0.24	0.16	0.78	0.11
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	9	14	0	0	0	0	0	0	0	2	0
COR-MW1															
Max	8.05	5,169	3,000	97	0.08	0.17	1.2	760	3.4	130	130	960	330	1.7	840
Min	6.46	2,642	1,600	0.78	ND	ND	0.60	530	2.2	58	60	380	210	0.2	690
Rng	1.59	2,527	1,400	96	0.08	0.17	0.60	230	1.2	72	70	580	120	1.5	150
Med	7.25	3,600	2,300	13	ND	0.03	0.82	560	2.9	92	96	660	250	0.4	790
Mean	7.28	3,756	2,347	23	0.02	0.05	0.84	617	2.8	89	90	630	256	0.5	764
StDev	0.33	707	408	26	0.02	0.04	0.20	89	0.4	26	25	202	44	0.5	61
CV	0.05	0.19	0.17	1.12	0.98	0.75	0.24	0.14	0.13	0.29	0.27	0.32	0.17	0.93	0.08
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	5	11	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
COR-MW2															
Max	7.99	2,712	1,900	26	0.09	0.20	0.85	260	4.2	120	230	550	340	1	410
Min	6.70	1,359	820	2.4	ND	ND	ND	150	2.7	52	98	170	140	ND	330
Rng	1.29	1,353	1,080	24	0.09	0.20	0.85	110	1.5	68	132	380	200	1	80
Med	7.26	1,672	1,000	5.6	ND	0.02	0.25	170	3	61	110	210	170	0.2	380
Mean	7.34	1,816	1,150	6.5	0.02	0.04	0.26	188	3.1	70	131	266	201	0.3	378
StDev	0.29	359	286	4.3	0.03	0.04	0.23	35	0.5	22	42	125	68	0.3	28
CV	0.04	0.20	0.25	0.66	1.26	0.79	0.89	0.19	0.14	0.31	0.32	0.47	0.34	0.87	0.07
Count	31	31	31	31	9	31	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	7	15	1	0	0	0	0	0	0	1	0
COR-MW3															
Max	7.96	2,813	1,800	20	0.25	0.16	0.68	310	3.2	95	180	430	290	0.2	570
Min	6.53	1,498	860	0.38	ND	ND	ND	170	2.1	49	82	170	130	ND	340
Rng	1.43	1,315	940	20	0.25	0.16	0.68	140	1.1	46	98	260	160	0.2	230
Med	7.26	1,866	1,200	3.8	0.01	ND	0.30	210	2.5	65	120	280	190	0.1	420
Mean	7.27	1,997	1,221	5.1	0.06	0.04	0.33	216	2.6	68	124	272	197	0.1	444
StDev	0.29	393	249	4.6	0.08	0.04	0.23	43	0.4	15	32	84	50	0	72
CV	0.04	0.20	0.20	0.90	1.46	0.80	0.69	0.20	0.14	0.22	0.26	0.31	0.26	0.24	0.16
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	3	17	2	0	0	0	0	0	0	1	0
COR-MW4															
Max	7.98	2,813	1,800	44	0.13	0.25	0.79	350	3.8	110	170	440	310	0.2	620
Min	6.64	1,716	1,000	1.4	ND	ND	ND	210	1.9	61	84	230	160	ND	400
Rng	1.34	1,097	800	43	0.13	0.25	0.79	140	1.9	49	86	210	150	0.2	220
Med	7.26	2,054	1,200	5.6	ND	0.02	0.27	240	2.3	67	110	260	190	0.1	470
Mean	7.31	2,074	1,269	8.0	0.05	0.05	0.33	252	2.4	77	124	291	211	0.1	483
StDev	0.31	253	191	8.9	0.04	0.05	0.24	45	0.6	18	32	67	48	0.1	63
CV	0.04	0.12	0.15	1.12	0.87	0.97	0.73	0.18	0.23	0.24	0.26	0.23	0.23	0.42	0.13
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	5	13	3	0	0	0	0	0	0	2	0
COR-MW5															
Max	8.03	5,899	3,900	40	4.8	1.0	16	730	460	190	200	730	760	43	1,200
Min	6.48	1,577	1,000	0.21	ND	ND	ND	200	4.3	50	88	220	140	ND	400
Rng	1.55	4,322	2,900	40	4.8	1.0	16	530	456	140	112	510	620	43	800
Med	7.24	2,726	1,750	3.9	0.26	0.12	1.2	270	76	74	110	330	210	1.7	650
Mean	7.28	2,736	1,766	7.3	0.80	0.21	3.5	352	151	85	125	368	307	6.7	684
StDev	0.30	948	663	8.9	1.4	0.24	4.9	178	180	45	36	167	203	13	286
CV	0.04	0.35	0.38	1.21	1.80	1.11	1.43	0.50	1.19	0.53	0.29	0.46	0.66	1.94	0.42
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	1	2	1	0	0	0	0	0	0	1	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
FG2-MW1															
Max	7.75	8,294	7,400	10	0.05	0.21	0.82	980	4.2	510	470	750	3,400	1.9	590
Min	6.41	3,858	2,600	ND	ND	ND	0.31	450	1.7	140	220	360	1,200	ND	410
Rng	1.34	4,436	4,800	10	0.05	0.21	0.51	530	2.5	370	250	390	2,200	1.9	180
Med	7.06	5,604	4,800	1.4	ND	0.03	0.48	620	2.3	250	340	470	2,100	ND	490
Mean	7.06	5,708	4,809	2.3	0.03	0.06	0.52	653	2.8	289	340	524	2,200	0.3	503
StDev	0.22	1,215	1,348	2.6	0.02	0.04	0.17	177	1	124	71	114	748	0.6	52
CV	0.03	0.21	0.28	1.13	0.64	0.73	0.32	0.27	0.36	0.43	0.21	0.22	0.34	1.89	0.10
Count	31	31	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	3	6	10	0	0	0	0	0	0	0	5	0
FG2-MW2															
Max	7.77	3,792	3,300	21	0.06	0.13	1.3	400	13	200	180	360	1,200	1.5	690
Min	6.48	2,817	1,700	5.2	ND	ND	0.30	290	5.4	170	130	260	530	0.2	490
Rng	1.29	975	1,600	16	0.06	0.13	1.0	110	7.6	30	50	100	670	1.2	200
Med	7.12	3,122	2,200	9.0	0.03	0.03	0.62	340	11	190	170	300	660	0.4	610
Mean	7.15	3,151	2,294	9.6	0.03	0.04	0.66	342	10	187	161	312	757	0.6	606
StDev	0.25	234	315	3.2	0.01	0.02	0.28	30	2.5	10	16	34	230	0.5	64
CV	0.03	0.07	0.14	0.33	0.46	0.56	0.42	0.09	0.25	0.05	0.10	0.11	0.30	0.83	0.11
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	1	10	0	0	0	0	0	0	0	0	0
FG2-MW3															
Max	7.92	5,853	5,100	15	0.27	0.24	1.7	690	40	420	240	650	2,000	2.9	720
Min	6.41	2,736	3,500	3.5	0.02	ND	0.22	500	2.2	330	200	540	1,500	ND	610
Rng	1.51	3,117	1,600	12	0.25	0.24	1.5	190	38	90	40	110	500	2.9	110
Med	7.06	5,118	4,200	7.6	0.06	0.04	0.65	630	4.2	360	210	610	1,800	0.2	660
Mean	7.10	5,075	4,269	8.3	0.11	0.05	0.73	611	12	363	218	604	1,767	0.9	668
StDev	0.26	541	346	2.7	0.09	0.04	0.43	60	14	30	17	38	180	1.1	34
CV	0.04	0.11	0.08	0.32	0.87	0.81	0.58	0.10	1.12	0.08	0.08	0.06	0.10	1.20	0.05
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	0	8	0	0	0	0	0	0	0	3	0
FG2-MW4															
Max	7.98	4,518	3,600	33	0.26	0.12	2.2	590	77	200	190	490	1,200	3.7	720
Min	6.59	3,455	2,500	15	0.01	ND	0.26	410	0.95	150	140	410	780	ND	560
Rng	1.39	1,063	1,100	18	0.25	0.12	1.9	180	76	50	50	80	420	3.7	160
Med	7.10	3,932	2,800	21	0.02	0.02	0.68	540	1.5	180	160	460	860	0.2	690
Mean	7.14	3,917	2,812	22	0.06	0.04	0.81	533	12	180	162	456	906	0.6	668
StDev	0.26	267	237	4.8	0.08	0.02	0.55	56	25	15	14	25	125	1.1	48
CV	0.04	0.07	0.08	0.22	1.32	0.49	0.69	0.10	2.09	0.08	0.09	0.05	0.14	1.90	0.07
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	0	14	0	0	0	0	0	0	0	1	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
FG2-MW5															
Max	7.74	4,403	3,400	27	0.67	0.13	1.1	570	1.8	240	170	430	1,200	0.4	830
Min	6.57	2,817	1,900	4.3	ND	ND	0.62	320	0.93	150	110	270	470	0.1	590
Rng	1.17	1,586	1,500	23	0.67	0.13	0.48	250	0.9	90	60	160	730	0.4	240
Med	7.14	3,515	2,550	7.5	0.05	0.03	0.70	420	1.2	190	130	350	770	0.2	670
Mean	7.16	3,563	2,581	10	0.14	0.05	0.77	438	1.3	190	138	351	791	0.2	688
StDev	0.23	382	341	5.8	0.20	0.03	0.17	79	0.3	25	17	45	243	0.1	82
CV	0.03	0.11	0.13	0.58	1.47	0.62	0.21	0.18	0.20	0.13	0.12	0.13	0.31	0.57	0.12
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	1	10	0	0	0	0	0	0	0	0	0
GOD-MW1															
Max	8.12	3,114	2,200	15	0.05	0.32	0.63	590	2	84	74	350	600	0.5	930
Min	6.72	2,288	1,600	0.54	ND	ND	0.32	420	1.2	69	55	270	240	0.3	540
Rng	1.40	826	600	14	0.05	0.32	0.31	170	0.8	15	19	80	360	0.2	390
Med	7.44	2,883	1,900	5.0	0.01	0.03	0.45	560	1.5	73	60	310	340	0.4	840
Mean	7.40	2,768	1,875	5.8	0.02	0.05	0.45	537	1.5	74	62	309	388	0.4	779
StDev	0.31	248	174	4.9	0.01	0.05	0.12	55	0.3	5.1	7.2	29	119	0.1	152
CV	0.04	0.09	0.09	0.84	0.61	1.03	0.26	0.10	0.18	0.07	0.12	0.09	0.31	0.19	0.19
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	3	10	0	0	0	0	0	0	0	0	0
GOD-MW2															
Max	8.24	3,407	2,400	40	0.03	0.10	0.65	560	1.7	130	110	470	680	0.5	530
Min	6.67	2,305	1,800	16	ND	ND	0.25	390	1	100	92	410	520	0.3	410
Rng	1.57	1,102	600	24	0.03	0.10	0.40	170	0.7	30	18	60	160	0.2	120
Med	7.51	3,236	2,200	31	0.01	0.03	0.48	480	1.2	120	99	420	560	0.4	460
Mean	7.55	3,180	2,225	30	0.02	0.04	0.47	476	1.3	117	100	431	589	0.4	458
StDev	0.30	204	139	7.7	0.01	0.02	0.15	49	0.2	10	6.3	21	56	0.1	33
CV	0.04	0.06	0.06	0.26	0.32	0.44	0.31	0.10	0.19	0.09	0.06	0.05	0.10	0.16	0.07
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	2	13	0	0	0	0	0	0	0	0	0
GOD-MW3															
Max	8.14	2,374	1,800	34	0.01	0.12	0.72	180	2.4	89	160	230	320	0.6	450
Min	6.72	1,178	600	11	ND	ND	0.34	140	1.6	43	77	92	110	0.3	310
Rng	1.42	1,196	1,200	23	0.01	0.12	0.38	40	0.8	46	83	138	210	0.3	140
Med	7.34	1,528	1,000	22	ND	0.03	0.52	150	2	60	110	140	150	0.4	390
Mean	7.35	1,595	1,074	23	0.01	0.05	0.51	156	2	60	108	142	174	0.4	374
StDev	0.30	321	242	6.5	0.00	0.02	0.12	15	0.2	14	25	45	64	0.1	42
CV	0.04	0.20	0.23	0.28	0.36	0.52	0.24	0.10	0.12	0.22	0.23	0.32	0.37	0.21	0.11
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	7	14	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
GOD-MW4															
Max	8.44	4,740	3,200	27	0.06	0.10	0.79	770	2.8	110	120	480	730	2.3	970
Min	6.75	2,961	2,000	12	ND	ND	0.27	630	1.2	35	35	300	370	0.4	720
Rng	1.69	1,779	1,200	15	0.06	0.10	0.52	140	1.6	75	85	180	360	1.9	250
Med	7.42	3,863	2,400	21	0.02	0.03	0.47	680	2	74	75	340	490	0.8	880
Mean	7.50	3,763	2,525	21	0.03	0.04	0.51	681	2.1	75	80	378	533	0.8	858
StDev	0.36	555	355	3.2	0.02	0.02	0.17	44	0.5	28	32	76	145	0.6	81
CV	0.05	0.15	0.14	0.15	0.59	0.48	0.34	0.07	0.22	0.37	0.40	0.20	0.27	0.75	0.09
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	1	12	0	0	0	0	0	0	0	0	0
GOD-MW5															
Max	8.35	2,724	1,800	14	0.01	0.15	0.42	210	1.5	120	130	340	400	0.3	380
Min	6.67	1,606	1,100	3.3	ND	ND	ND	150	0.98	74	81	220	230	ND	280
Rng	1.68	1,118	700	11	0.01	0.15	0.42	60	0.5	46	49	120	170	0.3	100
Med	7.55	1,999	1,400	7.2	ND	0.02	0.31	180	1.3	100	110	290	290	0.2	330
Mean	7.61	1,992	1,375	7.9	0.01	0.04	0.28	180	1.2	97	108	278	300	0.2	332
StDev	0.33	291	202	3.2	0.00	0.03	0.10	22	0.2	14	15	38	58	0	38
CV	0.04	0.15	0.15	0.41	0.37	0.65	0.36	0.12	0.16	0.14	0.14	0.14	0.19	0.21	0.12
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	7	15	1	0	0	0	0	0	0	1	0
GOD-MW6															
Max	8.43	4,467	3,500	55	0.01	0.12	0.99	680	1.8	170	170	640	940	0.5	510
Min	6.48	3,543	1,800	13	ND	ND	0.24	560	1.2	120	120	490	750	0.2	440
Rng	1.95	924	1,700	42	0.01	0.12	0.75	120	0.6	50	50	150	190	0.3	70
Med	7.48	3,953	2,800	20	ND	0.03	0.48	610	1.3	140	130	600	860	0.4	460
Mean	7.48	3,988	2,794	30	0.01	0.05	0.58	616	1.4	138	132	579	848	0.4	472
StDev	0.36	230	283	17	0.00	0.03	0.27	37	0.2	14	16	47	72	0.1	29
CV	0.05	0.06	0.10	0.55	0.37	0.59	0.47	0.06	0.16	0.10	0.12	0.08	0.08	0.21	0.06
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	6	13	0	0	0	0	0	0	0	0	0
GOD-MW7															
Max	8.37	4,230	3,400	2.9	0.08	0.10	0.95	690	1.4	170	130	670	1,200	1	820
Min	6.64	3,017	2,100	0.10	ND	ND	0.11	460	1.1	120	88	360	570	0.3	400
Rng	1.73	1,213	1,300	2.8	0.08	0.10	0.84	230	0.3	50	42	310	630	0.7	420
Med	7.49	3,655	2,500	1.4	0.05	0.04	0.77	590	1.3	140	100	480	740	0.5	640
Mean	7.50	3,670	2,562	1.4	0.04	0.05	0.60	582	1.3	142	104	492	810	0.5	612
StDev	0.33	326	308	0.77	0.02	0.02	0.31	80	0.1	16	13	102	217	0.2	165
CV	0.04	0.09	0.12	0.56	0.52	0.47	0.52	0.14	0.10	0.11	0.13	0.21	0.27	0.43	0.27
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	1	8	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
MAC-MW1															
Max	8.16	3,111	2,000	27	0.17	0.13	1.0	420	3.1	100	200	350	410	0.8	720
Min	6.55	2,325	1,500	13	ND	ND	0.41	370	1.8	53	71	250	220	0.4	570
Rng	1.61	786	500	14	0.17	0.13	0.59	50	1.3	47	129	100	190	0.4	150
Med	7.30	2,692	1,700	20	0.07	0.03	0.65	400	2.4	67	130	290	320	0.5	640
Mean	7.31	2,668	1,716	19	0.09	0.05	0.65	391	2.6	71	128	297	312	0.6	647
StDev	0.29	206	114	3.8	0.04	0.03	0.19	19	0.5	17	41	34	72	0.1	42
CV	0.04	0.08	0.07	0.20	0.41	0.54	0.29	0.05	0.18	0.24	0.32	0.12	0.23	0.19	0.06
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	1	11	0	0	0	0	0	0	0	0	0
MAC-MW2															
Max	8.05	3,257	2,200	67	0.02	0.15	0.55	530	1.7	100	95	330	220	0.6	1,000
Min	6.47	2,383	1,600	14	ND	ND	0.09	450	1.2	60	53	240	140	0.3	710
Rng	1.58	874	600	53	0.02	0.15	0.46	80	0.5	40	42	90	80	0.3	290
Med	7.19	2,900	1,900	29	ND	ND	0.36	510	1.4	73	73	280	200	0.5	870
Mean	7.17	2,889	1,894	31	0.02	0.04	0.33	502	1.4	76	73	284	187	0.5	844
StDev	0.28	222	172	13	0.00	0.03	0.15	26	0.2	11	12	30	28	0.1	97
CV	0.04	0.08	0.09	0.42	0.22	0.63	0.44	0.05	0.13	0.14	0.17	0.11	0.15	0.22	0.12
Count	32	31	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	5	18	0	0	0	0	0	0	0	0	0
MAC-MW3															
Max	7.88	12,150	12,000	130	0.20	0.14	1.5	2,100	8.5	460	620	720	5,600	3.1	470
Min	6.48	5,397	5,200	13	0.05	ND	0.95	940	5	250	500	260	3,600	0.4	310
Rng	1.40	6,753	6,800	117	0.15	0.14	0.55	1,160	3.5	210	120	460	2,000	2.8	160
Med	7.26	8,621	7,900	48	0.15	0.04	1.1	1,200	7.1	330	540	470	4,600	1.1	390
Mean	7.22	8,620	7,941	51	0.15	0.05	1.1	1,336	7	332	539	440	4,422	1.2	397
StDev	0.30	1,625	1,656	20	0.05	0.03	0.17	361	1.1	66	39	141	701	0.9	51
CV	0.04	0.19	0.21	0.40	0.32	0.50	0.15	0.27	0.16	0.20	0.07	0.32	0.16	0.76	0.13
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
MAC-MW4															
Max	7.86	4,808	3,400	20	0.03	12	13	880	48	110	96	610	770	5.4	920
Min	6.46	3,685	2,500	7.3	ND	0.04	0.76	670	4.7	84	66	510	600	0.6	780
Rng	1.40	1,123	900	13	0.03	12	12	210	43	26	30	100	170	4.9	140
Med	7.31	4,204	2,900	14	ND	0.14	1.1	780	10	110	84	550	680	1.4	850
Mean	7.31	4,211	2,909	14	0.02	1.4	3.4	780	19	105	84	554	674	2	856
StDev	0.28	282	226	3.8	0.01	3.1	4.7	74	15	9.2	8.7	40	70	1.5	55
CV	0.04	0.07	0.08	0.28	0.62	2.17	1.39	0.10	0.76	0.09	0.10	0.07	0.10	0.77	0.06
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
MAC-MW5															
Max	8.17	4,608	3,400	22	0.53	7.0	1.3	940	4.2	66	52	540	690	1	920
Min	6.67	3,962	2,700	17	ND	ND	0.64	800	1.7	54	45	490	580	0.6	850
Rng	1.50	646	700	5.0	0.53	7.0	0.66	140	2.5	12	7	50	110	0.3	70
Med	7.58	4,298	3,000	20	ND	0.12	0.89	880	3.2	61	47	510	660	0.8	900
Mean	7.53	4,288	2,988	20	0.07	0.36	0.92	870	3.3	61	48	510	643	0.8	890
StDev	0.30	135	134	1.4	0.17	1.2	0.22	54	0.7	3.5	2.4	14	43	0.1	30
CV	0.04	0.03	0.04	0.07	2.33	3.32	0.24	0.06	0.22	0.06	0.05	0.03	0.07	0.13	0.03
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	6	2	0	0	0	0	0	0	0	0	0
NUN-MW1															
Max	8.12	8,045	6,600	5.3	0.02	0.15	0.84	1,500	7.6	250	180	920	2,600	0.6	820
Min	6.59	5,889	4,300	0.81	ND	ND	0.50	1,100	1.6	140	100	710	1,600	0.2	740
Rng	1.53	2,156	2,300	4.5	0.02	0.15	0.34	400	6	110	80	210	1000	0.4	80
Med	7.36	6,470	4,900	1.5	ND	0.03	0.59	1,300	2.4	170	120	770	1,900	0.4	780
Mean	7.35	6,699	5,106	2.0	0.02	0.06	0.65	1,300	3.4	180	130	789	1,978	0.4	780
StDev	0.28	670	658	1.2	0.01	0.03	0.12	122	2	35	26	65	338	0.1	23
CV	0.04	0.10	0.13	0.60	0.36	0.58	0.19	0.09	0.59	0.19	0.20	0.08	0.17	0.36	0.03
Count	31	31	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	6	11	0	0	0	0	0	0	0	0	0
NUN-MW2															
Max	7.93	4,132	3,100	18	0.06	0.21	0.92	690	2.1	150	150	420	1,200	0.5	570
Min	6.56	3,273	2,500	1.0	0.01	ND	0.55	460	0.72	110	98	300	950	0.2	490
Rng	1.37	859	600	17	0.05	0.21	0.37	230	1.4	40	52	120	250	0.4	80
Med	7.36	3,735	2,800	2.4	0.02	0.03	0.77	600	1.2	130	140	330	1,100	0.3	540
Mean	7.33	3,684	2,794	4.5	0.03	0.06	0.77	587	1.3	131	132	346	1,061	0.3	538
StDev	0.24	195	163	4.1	0.02	0.05	0.13	62	0.4	12	15	37	78	0.1	28
CV	0.03	0.05	0.06	0.92	0.61	0.74	0.16	0.11	0.32	0.09	0.12	0.11	0.07	0.38	0.05
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0
NUN-MW3															
Max	8.07	7,533	6,400	50	0.06	0.18	1.3	1,400	3.6	160	260	930	2,300	2.1	870
Min	6.38	5,994	4,600	4.0	ND	ND	0.97	1,200	0.79	120	180	650	1,800	0.1	650
Rng	1.69	1,539	1,800	46	0.06	0.18	0.33	200	2.8	40	80	280	500	2	220
Med	7.13	6,789	5,100	9.1	0.01	0.04	1.0	1,300	1.9	130	220	740	2,000	0.2	720
Mean	7.15	6,731	5,200	12	0.04	0.06	1.1	1,267	2	136	220	774	2,022	0.6	727
StDev	0.33	330	343	9.9	0.02	0.04	0.14	71	0.9	13	27	95	172	0.7	62
CV	0.05	0.05	0.07	0.81	0.50	0.68	0.13	0.06	0.44	0.10	0.12	0.12	0.08	1.27	0.09
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	4	9	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
NUN-MW4															
Max	7.82	13,230	13,000	23	0.25	3.4	5.9	2,600	21	320	540	950	6,100	3	640
Min	6.40	7,232	5,600	ND	ND	ND	0.47	1,200	1.3	150	400	630	2,900	0.2	560
Rng	1.42	5,998	7,400	23	0.25	3.4	5.4	1,400	20	170	140	320	3,200	2.8	80
Med	7.14	11,175	9,650	1.7	0.03	0.05	0.95	2,300	2.9	270	460	870	5,300	0.5	590
Mean	7.13	10,460	9,194	3.9	0.06	0.29	1.5	2,122	4.9	257	449	840	4,978	0.9	590
StDev	0.29	1,802	1,982	4.5	0.07	0.66	1.7	512	6.2	57	46	100	1,169	1	27
CV	0.04	0.17	0.22	1.16	1.15	2.29	1.11	0.24	1.26	0.22	0.10	0.12	0.23	1.09	0.05
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	1	1	10	0	0	0	0	0	0	0	0	0
NUN-MW5															
Max	7.87	8,572	7,500	ND	ND	0.15	0.54	1,700	5.8	300	280	800	3,800	0.6	750
Min	6.60	7,693	5,700	ND	ND	ND	0.44	1,400	1.7	260	240	580	3,400	0.2	690
Rng	1.27	879	1,800	ND	ND	0.15	0.10	300	4.1	40	40	220	400	0.4	60
Med	7.15	8,230	6,900	ND	ND	0.04	0.51	1,600	2.1	290	270	670	3,500	0.3	710
Mean	7.16	8,247	6,790	Ins	Ins	0.07	0.50	1,600	2.8	284	268	672	3,540	0.3	716
StDev	0.23	252	422	Ins	Ins	0.04	0.04	122	1.7	15	16	83	167	0.2	24
CV	0.03	0.03	0.06	Ins	Ins	0.60	0.08	0.08	0.61	0.05	0.06	0.12	0.05	0.51	0.03
Count	21	21	21	21	5	21	5	5	5	5	5	5	5	5	5
CountND	0	0	0	21	5	3	0	0	0	0	0	0	0	0	0
MOO-MW1															
Max	7.71	3,106	1,900	15	0.37	1.9	1.9	440	4	180	94	310	280	0.3	940
Min	6.46	2,406	1,400	0.51	ND	0.06	0.45	250	2.1	120	76	260	220	ND	800
Rng	1.25	700	500	14	0.37	1.8	1.4	190	1.9	60	18	50	60	0.3	140
Med	7.32	2,664	1,650	2.5	0.02	0.35	0.77	360	3.1	150	81	290	240	0.1	880
Mean	7.30	2,687	1,681	4.0	0.07	0.51	1.1	349	3	148	83	286	246	0.2	878
StDev	0.23	132	120	3.6	0.11	0.48	0.54	57	0.7	18	6.4	17	21	0.1	41
CV	0.03	0.05	0.07	0.89	1.49	0.95	0.52	0.16	0.22	0.12	0.08	0.06	0.09	0.47	0.05
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	3	0	0	0	0	0	0	0	0	2	0
MOO-MW2															
Max	7.50	3,698	2,400	43	0.01	0.45	0.86	570	3.8	190	150	440	380	0.7	1,100
Min	6.30	2,512	1,700	15	ND	ND	0.13	360	2.6	110	95	330	260	ND	850
Rng	1.20	1,186	700	28	0.01	0.45	0.73	210	1.2	80	55	110	120	0.7	250
Med	7.14	3,314	2,100	24	ND	0.03	0.40	450	2.8	130	120	370	340	0.2	880
Mean	7.13	3,275	2,091	27	Ins	0.06	0.43	463	3.1	147	123	382	328	0.2	916
StDev	0.23	236	163	8.1	Ins	0.08	0.21	81	0.4	33	21	33	36	0.2	80
CV	0.03	0.07	0.08	0.30	Ins	1.18	0.50	0.17	0.14	0.22	0.17	0.09	0.11	0.74	0.09
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	8	10	0	0	0	0	0	0	0	1	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
MOO-MW3															
Max	7.88	2,547	1,600	17	0.00	0.16	0.53	250	2.2	160	120	270	280	0.3	790
Min	6.92	1,967	1,200	1.6	ND	ND	0.20	180	1.7	130	83	200	190	ND	670
Rng	0.96	580	400	15	0.00	0.16	0.33	70	0.5	30	37	70	90	0.3	120
Med	7.24	2,308	1,400	5.6	ND	0.03	0.36	230	2	150	99	250	220	0.1	690
Mean	7.27	2,287	1,419	6.8	Ins	0.05	0.36	227	2	146	100	241	226	0.1	719
StDev	0.19	138	106	4.0	Ins	0.04	0.11	25	0.2	12	11	25	28	0.1	48
CV	0.03	0.06	0.07	0.60	Ins	0.71	0.30	0.11	0.09	0.08	0.11	0.10	0.13	0.40	0.07
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	8	12	0	0	0	0	0	0	0	2	0
MOO-MW4															
Max	7.79	2,772	1,800	22	0.46	0.98	1.0	310	2.7	190	94	280	270	2.4	900
Min	6.95	1,553	1,100	ND	ND	ND	0.16	130	1.6	120	60	160	190	0.2	500
Rng	0.84	1,219	700	22	0.46	0.98	0.84	180	1.1	70	34	120	80	2.2	400
Med	7.36	2,276	1,500	9.4	0.11	0.03	0.38	210	1.9	180	80	240	210	0.4	750
Mean	7.35	2,306	1,466	9.0	0.14	0.08	0.52	231	2	167	78	231	220	0.6	742
StDev	0.19	313	160	6.1	0.12	0.16	0.34	56	0.3	24	12	34	28	0.7	127
CV	0.03	0.14	0.11	0.67	0.90	2.07	0.65	0.24	0.16	0.15	0.16	0.15	0.13	1.08	0.17
Count	32	32	32	32	9	32	8	9	9	9	9	9	9	9	9
CountND	0	0	0	1	2	10	0	0	0	0	0	0	0	0	0
MOO-MW5															
Max	7.68	2,497	1,700	25	0.02	0.11	0.30	220	1.6	200	110	270	300	1.4	720
Min	7.05	2,074	1,300	14	ND	ND	0.11	180	1.2	150	85	230	240	ND	580
Rng	0.63	423	400	11	0.02	0.11	0.19	40	0.4	50	25	40	60	1.4	140
Med	7.36	2,314	1,500	17	0.01	ND	0.20	190	1.5	160	95	250	260	0.2	630
Mean	7.34	2,316	1,481	17	0.02	0.04	0.20	194	1.5	167	95	249	264	0.4	648
StDev	0.15	98	112	1.8	0.00	0.03	0.07	14	0.1	14	7.2	15	20	0.4	48
CV	0.02	0.04	0.08	0.10	0.20	0.59	0.35	0.07	0.08	0.08	0.08	0.06	0.08	1.05	0.07
Count	32	32	32	32	9	32	8	9	9	9	9	9	9	9	9
CountND	0	0	0	0	3	19	0	0	0	0	0	0	0	1	0
MOO-MW6															
Max	7.42	2,813	1,900	23	0.09	0.19	2.2	230	4.6	180	220	310	360	7.7	840
Min	6.00	2,063	990	ND	ND	ND	0.61	140	2.9	100	110	190	190	0.2	540
Rng	1.42	750	910	23	0.09	0.19	1.6	90	1.7	80	110	120	170	7.5	300
Med	7.04	2,318	1,400	2.0	0.03	0.07	0.96	170	4.1	130	200	260	210	1.7	800
Mean	7.03	2,341	1,425	4.4	0.05	0.08	1.1	174	4	138	183	259	223	2.5	764
StDev	0.26	190	197	5.3	0.02	0.04	0.47	28	0.5	27	34	35	52	2.5	99
CV	0.04	0.08	0.14	1.21	0.44	0.52	0.42	0.16	0.13	0.20	0.19	0.13	0.23	1.02	0.13
Count	32	32	32	32	9	32	8	9	9	9	9	9	9	9	9
CountND	0	0	0	1	3	6	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
MOO-MW7															
Max	7.50	3,847	3,000	48	0.01	0.14	0.91	340	21	230	180	450	570	1.7	800
Min	6.35	2,609	1,500	16	ND	ND	0.36	240	3.7	130	130	270	300	0.1	650
Rng	1.15	1,238	1,500	32	0.01	0.14	0.55	100	17	100	50	180	270	1.6	150
Med	7.20	2,986	2,000	35	ND	0.03	0.64	320	7.2	170	140	310	420	0.3	720
Mean	7.18	2,992	1,997	34	0.01	0.05	0.66	300	8.4	177	144	333	421	0.6	721
StDev	0.22	263	283	9.5	0.00	0.03	0.22	37	5.5	29	16	58	88	0.6	48
CV	0.03	0.09	0.14	0.28	0.20	0.60	0.33	0.12	0.66	0.17	0.11	0.17	0.21	0.99	0.07
Count	32	32	31	32	9	32	8	9	9	9	9	9	9	9	9
CountND	0	0	0	0	7	11	0	0	0	0	0	0	0	0	0
MOO-MW8															
Max	7.76	3,389	2,200	49	0.00	2.1	4.2	420	5.8	210	130	360	440	17	750
Min	6.85	929	650	2.9	ND	ND	0.13	120	0.73	30	32	54	98	0.2	250
Rng	0.91	2,460	1,550	46	0.00	2.1	4.1	300	5.1	180	98	306	342	17	500
Med	7.40	2,490	1,550	20	ND	0.02	0.46	240	4.5	86	85	190	300	0.7	530
Mean	7.39	2,363	1,522	22	Ins	0.12	0.89	257	4	100	81	209	261	2.7	523
StDev	0.19	810	501	13	Ins	0.36	1.3	117	1.7	60	37	130	131	5.4	182
CV	0.03	0.34	0.33	0.57	Ins	3.11	1.43	0.45	0.44	0.60	0.46	0.62	0.50	1.99	0.35
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	8	15	0	0	0	0	0	0	0	0	0
TON-MW1															
Max	7.69	4,027	2,200	46	30	80	80	410	210	160	100	450	160	0.4	1,400
Min	6.36	3,045	1,700	ND	ND	1.3	45	310	110	110	66	330	54	ND	970
Rng	1.33	982	500	46	30	79	35	100	100	50	34	120	106	0.4	430
Med	6.99	3,496	1,900	5.0	ND	58	58	350	170	140	79	400	100	ND	1,200
Mean	6.97	3,511	1,938	10	3.4	57	59	357	166	134	83	401	99	0.3	1,186
StDev	0.27	249	136	13	10.0	14	11	29	33	16	13	42	39	0.1	123
CV	0.04	0.07	0.07	1.24	2.97	0.25	0.19	0.08	0.20	0.12	0.16	0.10	0.39	0.53	0.10
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	1	6	0	0	0	0	0	0	0	0	5	0
TON-MW2															
Max	7.88	5,448	4,000	46	1.4	72	23	830	110	220	110	780	370	20	1,600
Min	6.53	4,079	2,200	0.54	0.08	ND	0.87	610	30	170	56	490	180	1.2	1,200
Rng	1.35	1,369	1,800	45	1.3	72	22	220	80	50	54	290	190	19	400
Med	7.10	4,520	3,000	22	0.33	1.0	2.7	680	67	200	95	610	270	4	1,400
Mean	7.11	4,575	3,006	23	0.47	5.1	5.4	706	67	194	91	621	272	6.4	1,389
StDev	0.25	370	305	12	0.40	13	7.0	73	30	17	16	90	56	7	145
CV	0.03	0.08	0.10	0.53	0.84	2.53	1.30	0.10	0.45	0.09	0.17	0.14	0.21	1.09	0.10
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
TON-MW3															
Max	7.83	6,373	4,100	49	0.72	7.2	27	730	180	230	220	1,200	240	12	1,600
Min	6.47	2,578	1,500	3.8	ND	ND	0.34	360	1.4	97	54	310	150	0.1	650
Rng	1.36	3,795	2,600	45	0.72	7.2	27	370	179	133	166	890	90	12	950
Med	6.92	2,946	1,850	28	0.02	0.04	0.72	440	1.8	130	110	390	210	0.5	820
Mean	6.99	3,383	2,128	28	0.16	0.66	4.8	484	25	141	126	527	203	2.1	949
StDev	0.31	1,011	654	12	0.22	1.5	9.1	143	59	53	52	329	27	4	310
CV	0.04	0.30	0.31	0.42	1.43	2.27	1.90	0.29	2.32	0.38	0.42	0.62	0.13	1.91	0.33
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	3	7	0	0	0	0	0	0	0	0	0
TON-MW4															
Max	8.17	3,938	2,500	58	0.09	0.13	0.66	520	14	160	170	630	370	0.5	900
Min	6.39	2,926	1,700	26	ND	ND	0.21	400	2	110	120	470	210	0.1	510
Rng	1.78	1,012	800	32	0.09	0.13	0.45	120	12	50	50	160	160	0.4	390
Med	6.98	3,453	2,200	42	ND	0.03	0.49	460	2.7	140	150	480	250	0.2	750
Mean	6.98	3,471	2,169	42	Ins	0.05	0.48	457	5.1	138	142	530	277	0.2	716
StDev	0.30	264	219	8.8	Ins	0.03	0.16	34	4.2	14	16	67	59	0.1	144
CV	0.04	0.08	0.10	0.21	Ins	0.63	0.34	0.07	0.82	0.10	0.11	0.13	0.21	0.64	0.20
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	8	7	0	0	0	0	0	0	0	0	0
TON-MW5															
Max	7.82	3,406	2,300	87	0.04	0.17	1.0	460	3.5	150	150	400	240	0.7	870
Min	6.48	2,911	1,700	4.8	ND	ND	0.33	380	2.3	120	71	300	160	ND	660
Rng	1.34	495	600	82	0.04	0.17	0.67	80	1.2	30	79	100	80	0.7	210
Med	7.02	3,186	2,000	66	0.01	0.03	0.78	420	2.8	130	130	370	210	0.1	790
Mean	7.03	3,181	1,994	64	0.02	0.04	0.75	417	2.7	134	127	358	203	0.2	782
StDev	0.25	151	137	14	0.01	0.03	0.22	25	0.4	12	24	35	25	0.2	73
CV	0.04	0.05	0.07	0.22	0.61	0.67	0.29	0.06	0.14	0.09	0.19	0.10	0.13	0.94	0.09
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	3	9	0	0	0	0	0	0	0	4	0
TON-MW6															
Max	8.42	3,752	2,500	56	0.93	0.40	2.2	470	33	150	100	410	400	10	910
Min	6.72	1,770	1,200	4.2	ND	ND	ND	370	4	62	53	290	200	1.3	410
Rng	1.70	1,982	1,300	52	0.93	0.40	2.2	100	29	88	47	120	200	8.7	500
Med	7.31	2,726	1,800	12	0.30	0.05	0.58	400	13	110	80	320	290	3.1	690
Mean	7.38	2,712	1,794	15	0.41	0.09	0.83	413	15	101	77	343	289	3.9	669
StDev	0.34	408	283	11	0.27	0.09	0.60	40	9.4	29	18	41	71	2.6	167
CV	0.05	0.15	0.16	0.74	0.67	0.97	0.72	0.10	0.62	0.29	0.23	0.12	0.25	0.67	0.25
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	1	5	1	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
TON-MW7															
Max	8.75	1,845	1,100	5.6	0.26	0.19	0.30	290	2	74	54	290	130	0.7	480
Min	7.18	1,073	660	ND	ND	ND	ND	180	0.74	18	14	91	71	0.3	300
Rng	1.57	772	440	5.6	0.26	0.19	0.30	110	1.3	56	40	199	59	0.4	180
Med	7.75	1,340	840	0.25	ND	ND	0.09	190	1.3	43	31	190	75	0.3	320
Mean	7.82	1,367	858	0.61	0.05	0.05	0.15	201	1.3	45	33	195	85	0.4	340
StDev	0.26	190	117	1.1	0.08	0.04	0.07	35	0.4	19	13	68	19	0.1	56
CV	0.03	0.14	0.14	1.75	1.76	0.85	0.45	0.17	0.29	0.42	0.39	0.35	0.22	0.34	0.17
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	2	5	16	4	0	0	0	0	0	0	0	0
TON-MW8															
Max	8.03	6,641	4,300	53	0.67	0.13	0.89	800	4.8	290	210	1,100	1,300	1.5	870
Min	6.55	3,603	2,300	16	ND	ND	0.45	630	3.5	140	97	590	460	0.7	610
Rng	1.48	3,038	2,000	37	0.67	0.13	0.44	170	1.3	150	113	510	840	0.8	260
Med	7.16	4,750	3,250	26	0.04	0.03	0.65	740	4.1	190	150	740	770	0.9	760
Mean	7.21	4,926	3,353	27	0.12	0.05	0.66	722	4.1	204	156	810	849	1	760
StDev	0.25	807	609	8.6	0.20	0.03	0.14	66	0.4	55	47	198	327	0.3	73
CV	0.04	0.16	0.18	0.32	1.70	0.56	0.21	0.09	0.10	0.27	0.30	0.24	0.39	0.27	0.10
Count	32	32	32	32	9	32	9	9	9	9	9	9	9	9	9
CountND	0	0	0	0	2	10	0	0	0	0	0	0	0	0	0
BRE-MW1															
Max	8.35	553	350	14	0.01	0.25	1.8	30	0.72	32	33	23	79	12	140
Min	6.06	308	190	0.99	ND	ND	ND	17	0.34	17	17	11	12	0.3	84
Rng	2.29	245	160	13	0.01	0.25	1.8	13	0.4	15	16	12	67	12	56
Med	6.54	402	270	6.4	ND	0.03	0.19	22	0.63	22	22	14	21	0.8	120
Mean	6.75	414	269	6.5	Ins	0.06	0.60	24	0.6	23	23	15	30	3.7	118
StDev	0.52	64	44	2.9	Ins	0.05	0.63	4.4	0.1	4.9	4.9	4	23	5.3	18
CV	0.08	0.16	0.16	0.45	Ins	0.84	1.06	0.18	0.23	0.21	0.21	0.27	0.77	1.45	0.15
Count	26	25	26	26	7	26	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	6	11	1	0	0	0	0	0	0	0	0
BRE-MW2															
Max	7.82	383	310	4.2	0.01	0.09	0.86	25	0.77	18	29	22	13	7.4	140
Min	6.45	276	200	0.98	ND	ND	ND	22	0.55	16	24	15	11	0.4	120
Rng	1.37	107	110	3.2	0.01	0.09	0.86	3	0.2	2	5	7	2	7	20
Med	7.05	354	230	3.0	ND	0.02	0.17	24	0.68	17	27	17	12	0.8	130
Mean	7.05	352	233	3.0	Ins	0.04	0.32	23	0.7	17	27	18	12	2.3	130
StDev	0.35	20	20	0.53	Ins	0.02	0.26	1.3	0.1	0.9	1.7	2.7	0.8	2.6	5.8
CV	0.05	0.06	0.09	0.18	Ins	0.49	0.81	0.05	0.13	0.05	0.06	0.15	0.06	1.15	0.04
Count	27	26	27	27	7	27	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	6	10	2	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
BRE-MW3															
Max	7.75	580	260	9.0	0.01	0.09	0.36	24	0.71	21	26	17	24	1.6	130
Min	6.04	221	180	0.18	ND	ND	ND	19	0.4	13	22	10	8.5	ND	110
Rng	1.71	359	80	8.8	0.01	0.09	0.36	5	0.3	8	4	7	16	1.6	20
Med	7.16	313	205	2.6	ND	ND	ND	23	0.59	15	23	10	9.3	0.4	120
Mean	7.13	325	206	2.7	Ins	0.04	0.17	22	0.6	15	23	11	11	0.6	120
StDev	0.37	57	17	1.4	Ins	0.02	0.12	2.1	0.1	2.6	1.6	2.6	5.6	0.5	5.8
CV	0.05	0.17	0.08	0.50	Ins	0.51	0.72	0.09	0.21	0.17	0.07	0.23	0.50	0.86	0.05
Count	28	27	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	6	15	4	0	0	0	0	0	0	1	0
CRE-MW1															
Max	7.40	1,918	1,100	94	0.02	0.19	0.76	83	3.3	98	91	150	110	1.9	520
Min	6.17	724	490	2.2	ND	ND	0.16	57	1.4	42	45	46	56	0.1	240
Rng	1.23	1,194	610	92	0.02	0.19	0.60	26	1.9	56	46	104	54	1.8	280
Med	6.60	1,284	765	14	ND	0.04	0.39	63	1.7	70	62	110	66	0.2	280
Mean	6.69	1,220	775	20	0.01	0.06	0.46	67	1.9	69	66	102	74	0.4	316
StDev	0.30	362	214	23	0.01	0.04	0.22	8.7	0.7	20	18	43	19	0.6	93
CV	0.04	0.30	0.28	1.16	0.52	0.67	0.49	0.13	0.34	0.29	0.27	0.43	0.26	1.47	0.29
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	4	7	0	0	0	0	0	0	0	0	0
CRE-MW2															
Max	8.29	1,251	650	28	0.01	0.15	0.58	75	1.4	58	58	96	100	2.2	230
Min	6.24	575	420	13	ND	ND	0.18	48	0.57	35	32	44	56	0.4	150
Rng	2.05	676	230	15	0.01	0.15	0.40	27	0.8	23	26	52	44	1.8	80
Med	6.80	840	525	17	ND	0.04	0.26	59	0.99	37	36	50	67	0.8	180
Mean	6.83	826	530	17	Ins	0.06	0.31	60	0.9	42	41	62	70	1	183
StDev	0.38	149	66	2.7	Ins	0.03	0.14	8.2	0.3	8.8	9.7	21	15	0.6	36
CV	0.06	0.18	0.12	0.16	Ins	0.52	0.45	0.14	0.32	0.21	0.24	0.34	0.22	0.62	0.20
Count	28	27	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	6	10	0	0	0	0	0	0	0	0	0
CRE-MW3															
Max	7.30	1,727	1,100	5.8	0.02	0.15	0.62	95	1.1	120	130	110	81	3.1	710
Min	6.31	772	280	0.05	ND	ND	0.18	67	0.85	98	100	94	46	0.2	650
Rng	0.99	955	820	5.8	0.02	0.15	0.44	28	0.3	22	30	16	35	2.9	60
Med	6.80	1,516	920	0.82	ND	0.04	0.44	74	0.92	110	120	110	66	0.8	680
Mean	6.80	1,500	887	1.3	0.02	0.06	0.42	77	0.9	113	119	105	65	1.2	683
StDev	0.25	195	156	1.4	0.00	0.03	0.14	9.1	0.1	8.1	11	6.8	14	1.2	21
CV	0.04	0.13	0.18	1.12	0.10	0.59	0.34	0.12	0.10	0.07	0.09	0.07	0.21	0.97	0.03
Count	25	24	26	26	7	26	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	5	4	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
MTS-MW1															
Max	7.66	1,216	700	63	0.00	0.10	0.49	31	1.2	49	110	50	58	4.3	260
Min	6.10	626	410	11	ND	ND	ND	25	0.96	32	63	25	28	0.4	210
Rng	1.56	590	290	52	0.00	0.10	0.49	6	0.2	17	47	25	30	3.9	50
Med	6.96	813	480	21	ND	0.03	0.21	28	1.1	37	75	31	38	1.1	230
Mean	6.92	835	500	24	Ins	0.04	0.26	28	1.1	39	79	34	41	1.6	231
StDev	0.33	145	71	13	Ins	0.02	0.10	1.9	0.1	5.3	15	8.3	10	1.3	17
CV	0.05	0.17	0.14	0.53	Ins	0.46	0.38	0.07	0.08	0.14	0.19	0.24	0.25	0.81	0.07
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	6	10	1	0	0	0	0	0	0	0	0
MTS-MW2															
Max	7.49	1,164	740	64	0.01	0.11	0.52	37	1.2	53	96	45	45	1.7	260
Min	6.24	611	420	11	ND	ND	0.14	29	0.96	34	65	29	40	1	230
Rng	1.25	553	320	53	0.01	0.11	0.38	8	0.2	19	31	16	5	0.7	30
Med	6.77	793	500	22	ND	0.04	0.45	34	1.1	36	68	32	40	1.5	240
Mean	6.72	872	538	29	Ins	0.05	0.37	33	1.1	41	76	35	42	1.4	243
StDev	0.32	185	108	17	Ins	0.02	0.20	4	0.1	10	17	8.5	2.9	0.4	15
CV	0.05	0.21	0.20	0.59	Ins	0.47	0.55	0.12	0.11	0.25	0.22	0.24	0.07	0.27	0.06
Count	15	15	15	15	3	15	3	3	3	3	3	3	3	3	3
CountND	0	0	0	0	2	3	0	0	0	0	0	0	0	0	0
MTS-MW3															
Max	7.25	1,496	630	48	0.00	1.9	2.6	37	1.3	45	88	43	41	13	230
Min	6.03	749	440	20	ND	ND	0.11	32	1	36	68	35	31	0.3	210
Rng	1.22	747	190	28	0.00	1.9	2.5	5	0.3	9	20	8	10	13	20
Med	6.56	868	530	32	ND	0.03	0.71	35	1.3	43	82	38	37	0.9	230
Mean	6.58	916	536	34	Ins	0.12	0.89	34	1.2	41	79	38	36	3.4	226
StDev	0.29	160	49	6.3	Ins	0.38	1.0	2.3	0.1	4.2	8.1	3.1	3.6	5.4	8.9
CV	0.04	0.17	0.09	0.19	Ins	3.09	1.14	0.07	0.12	0.10	0.10	0.08	0.10	1.58	0.04
Count	23	23	23	23	5	23	5	5	5	5	5	5	5	5	5
CountND	0	0	0	0	4	7	0	0	0	0	0	0	0	0	0
AUK-MW1															
Max	7.90	2,316	1,400	62	ND	0.12	0.81	210	0.95	25	240	51	470	6.7	400
Min	6.48	1,231	1,100	41	ND	ND	0.15	150	0.68	18	170	27	210	0.4	370
Rng	1.42	1,085	300	21	ND	0.12	0.66	60	0.3	7	70	24	260	6.3	30
Med	6.92	1,802	1,200	55	ND	0.03	0.44	180	0.75	23	210	39	340	1.4	390
Mean	6.96	1,784	1,248	52	Ins	0.05	0.49	181	0.8	22	210	38	354	2.4	387
StDev	0.26	228	96	6.5	Ins	0.03	0.22	23	0.1	2.7	26	8.1	87	2.4	9.5
CV	0.04	0.13	0.08	0.12	Ins	0.55	0.46	0.13	0.13	0.12	0.12	0.21	0.25	1.02	0.02
Count	25	24	25	25	7	25	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	7	10	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
AUK-MW2															
Max	7.74	2,358	1,400	75	0.00	0.13	0.58	180	1	28	240	100	280	3.2	720
Min	6.38	1,172	700	24	ND	ND	0.20	150	0.72	23	160	55	39	0.3	420
Rng	1.36	1,186	700	51	0.00	0.13	0.38	30	0.3	5	80	45	241	2.9	300
Med	6.62	1,739	1,100	38	ND	0.03	0.37	160	0.78	24	220	82	46	1.4	640
Mean	6.70	1,702	1,095	45	Ins	0.05	0.38	160	0.8	25	210	80	106	1.9	610
StDev	0.29	263	197	19	Ins	0.03	0.13	10	0.1	1.6	25	17	106	1.2	123
CV	0.04	0.15	0.18	0.43	Ins	0.68	0.34	0.06	0.12	0.07	0.12	0.22	1.00	0.64	0.20
Count	28	27	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	6	12	0	0	0	0	0	0	0	0	0
AUK-MW3															
Max	7.33	2,559	1,400	56	0.00	0.12	0.53	320	0.81	26	150	70	150	1.5	730
Min	6.44	1,281	980	27	ND	ND	0.15	230	0.67	19	120	35	110	0.3	580
Rng	0.89	1,278	420	29	0.00	0.12	0.38	90	0.1	7	30	35	40	1.2	150
Med	6.77	1,831	1,200	44	ND	ND	0.38	270	0.71	22	140	45	140	0.4	620
Mean	6.78	1,828	1,156	44	Ins	0.04	0.35	269	0.7	22	137	49	133	0.7	634
StDev	0.19	265	115	7.7	Ins	0.02	0.15	29	0	2.2	9.5	11	14	0.5	55
CV	0.03	0.15	0.10	0.18	Ins	0.49	0.41	0.11	0.06	0.10	0.07	0.24	0.10	0.75	0.09
Count	28	27	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	6	14	0	0	0	0	0	0	0	0	0
DLF-MW2															
Max	6.63	985	600	31	--	0.11	--	--	--	--	--	--	--	--	--
Min	6.63	985	600	31	--	0.11	--	--	--	--	--	--	--	--	--
Rng	Ins	Ins	Ins	Ins	--	Ins	--	--	--	--	--	--	--	--	--
Med	6.63	985	600	31	--	0.11	--	--	--	--	--	--	--	--	--
Mean	6.63	985	600	31	--	0.11	--	--	--	--	--	--	--	--	--
StDev	Ins	Ins	Ins	Ins	--	Ins	--	--	--	--	--	--	--	--	--
CV	Ins	Ins	Ins	Ins	--	Ins	--	--	--	--	--	--	--	--	--
Count	1	1	1	1	--	1	--	--	--	--	--	--	--	--	--
CountND	0	0	0	0	--	0	--	--	--	--	--	--	--	--	--
DLF-MW4A															
Max	6.85	995	640	37	--	ND	--	--	--	--	--	--	--	--	--
Min	6.85	995	640	37	--	ND	--	--	--	--	--	--	--	--	--
Rng	Ins	Ins	Ins	Ins	--	Ins	--	--	--	--	--	--	--	--	--
Med	6.85	995	640	37	--	ND	--	--	--	--	--	--	--	--	--
Mean	6.85	995	640	37	--	Ins	--	--	--	--	--	--	--	--	--
StDev	Ins	Ins	Ins	Ins	--	Ins	--	--	--	--	--	--	--	--	--
CV	Ins	Ins	Ins	Ins	--	Ins	--	--	--	--	--	--	--	--	--
Count	1	1	1	1	--	1	--	--	--	--	--	--	--	--	--
CountND	0	0	0	0	--	1	--	--	--	--	--	--	--	--	--

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
DLF-MW4B															
Max	7.20	993	450	23	--	ND	--	--	--	--	--	--	--	--	--
Min	7.20	993	450	23	--	ND	--	--	--	--	--	--	--	--	--
Rng	Ins	Ins	Ins	Ins	--	Ins	--	--	--	--	--	--	--	--	--
Med	7.20	993	450	23	--	ND	--	--	--	--	--	--	--	--	--
Mean	7.20	993	450	23	--	Ins	--	--	--	--	--	--	--	--	--
StDev	Ins	Ins	Ins	Ins	--	Ins	--	--	--	--	--	--	--	--	--
CV	Ins	Ins	Ins	Ins	--	Ins	--	--	--	--	--	--	--	--	--
Count	1	1	1	1	--	1	--	--	--	--	--	--	--	--	--
CountND	0	0	0	0	--	1	--	--	--	--	--	--	--	--	--
DLF-MW4C															
Max	8.20	812	440	9.8	ND	0.06	0.50	31	2.5	11	94	33	25	2.2	260
Min	7.00	611	290	8.1	ND	ND	0.39	29	2.3	7.6	64	31	20	0.2	130
Rng	1.20	201	150	1.7	ND	0.06	0.11	2	0.2	3.4	30	2	5	2	130
Med	7.38	717	410	9.2	ND	0.04	0.44	30	2.4	9.3	79	32	22	1.2	195
Mean	7.56	707	390	9.1	Ins	0.04	0.44	30	2.4	9.3	79	32	22	1.2	195
StDev	0.48	66	49	0.54	Ins	0.01	0.08	1.4	0.1	2.4	21	1.4	3.5	1.4	92
CV	0.06	0.09	0.13	0.06	Ins	0.36	0.17	0.05	0.06	0.26	0.27	0.04	0.16	1.17	0.47
Count	7	7	7	7	2	7	2	2	2	2	2	2	2	2	2
CountND	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0
DLF-MW5A															
Max	7.53	864	590	27	--	0.09	--	--	--	--	--	--	--	--	--
Min	7.30	307	200	6.3	--	ND	--	--	--	--	--	--	--	--	--
Rng	0.23	557	390	21	--	0.09	--	--	--	--	--	--	--	--	--
Med	7.42	586	395	17	--	ND	--	--	--	--	--	--	--	--	--
Mean	7.42	586	395	17	--	Ins	--	--	--	--	--	--	--	--	--
StDev	0.16	394	276	15	--	Ins	--	--	--	--	--	--	--	--	--
CV	0.02	0.67	0.70	0.88	--	Ins	--	--	--	--	--	--	--	--	--
Count	2	2	2	2	--	2	--	--	--	--	--	--	--	--	--
CountND	0	0	0	0	--	1	--	--	--	--	--	--	--	--	--
DLF-MW5B															
Max	7.70	646	430	20	--	0.04	--	--	--	--	--	--	--	--	--
Min	7.19	590	380	12	--	ND	--	--	--	--	--	--	--	--	--
Rng	0.51	56	50	8.0	--	0.04	--	--	--	--	--	--	--	--	--
Med	7.44	618	405	16	--	ND	--	--	--	--	--	--	--	--	--
Mean	7.44	618	405	16	--	Ins	--	--	--	--	--	--	--	--	--
StDev	0.36	40	35	5.7	--	Ins	--	--	--	--	--	--	--	--	--
CV	0.05	0.06	0.09	0.35	--	Ins	--	--	--	--	--	--	--	--	--
Count	2	2	2	2	--	2	--	--	--	--	--	--	--	--	--
CountND	0	0	0	0	--	1	--	--	--	--	--	--	--	--	--

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
DLF-MW5C															
Max	7.90	710	460	14	ND	0.03	0.41	37	2.6	8.9	87	22	25	1.8	230
Min	6.80	684	370	12	ND	ND	0.41	37	2.6	8.9	87	22	25	1.8	230
Rng	1.10	26	90	2.0	Ins	0.03	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
Med	7.47	696	420	14	ND	0.02	0.41	37	2.6	8.9	87	22	25	1.8	230
Mean	7.37	696	418	14	Ins	0.03	0.41	37	2.6	8.9	87	22	25	1.8	230
StDev	0.41	11	33	0.89	Ins	0.00	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
CV	0.06	0.02	0.08	0.07	Ins	0.18	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
Count	5	4	5	5	1	5	1	1	1	1	1	1	1	1	1
CountND	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
DLF-MW6A															
Max	7.04	1,493	950	66	--	0.04	--	--	--	--	--	--	--	--	--
Min	6.92	1,270	750	49	--	0.03	--	--	--	--	--	--	--	--	--
Rng	0.12	223	200	17	--	0.02	--	--	--	--	--	--	--	--	--
Med	6.98	1,382	850	58	--	0.03	--	--	--	--	--	--	--	--	--
Mean	6.98	1,382	850	58	--	0.03	--	--	--	--	--	--	--	--	--
StDev	0.08	158	141	12	--	0.01	--	--	--	--	--	--	--	--	--
CV	0.01	0.11	0.17	0.21	--	0.31	--	--	--	--	--	--	--	--	--
Count	2	2	2	2	--	2	--	--	--	--	--	--	--	--	--
CountND	0	0	0	0	--	0	--	--	--	--	--	--	--	--	--
DLF-MW6B															
Max	7.63	1,524	980	73	0.02	0.10	0.43	76	3.5	22	210	43	130	1.9	340
Min	6.68	1,046	500	32	ND	ND	ND	63	2.9	17	170	33	71	ND	290
Rng	0.95	478	480	41	0.02	0.10	0.43	13	0.6	5	40	10	59	1.9	50
Med	6.97	1,291	820	54	ND	ND	ND	70	3.4	21	185	36	102	0.2	315
Mean	7.03	1,312	822	55	Ins	0.04	Ins	70	3.3	20	188	37	102	0.6	315
StDev	0.26	153	127	9.3	Ins	0.02	Ins	5.4	0.3	2.2	17	4.2	28	0.8	29
CV	0.04	0.12	0.15	0.17	Ins	0.49	Ins	0.08	0.08	0.11	0.09	0.11	0.28	1.35	0.09
Count	15	15	15	15	4	15	4	4	4	4	4	4	4	4	4
CountND	0	0	0	0	3	8	3	0	0	0	0	0	0	1	0
DLF-MW6C															
Max	7.78	1,382	1,000	75	0.00	0.18	0.38	74	3.2	20	170	34	88	0.6	350
Min	6.50	334	230	7.7	ND	ND	0.28	54	2.9	20	160	33	47	0.1	310
Rng	1.28	1,048	770	67	0.00	0.18	0.10	20	0.3	0	10	1	41	0.5	40
Med	6.84	1,210	830	57	ND	ND	0.33	64	3.05	20	165	34	68	0.4	330
Mean	6.91	1,096	785	55	Ins	0.06	0.33	64	3	20	165	34	68	0.4	330
StDev	0.40	340	235	22	Ins	0.06	0.07	14	0.2	0	7.1	0.7	29	0.4	28
CV	0.06	0.31	0.30	0.39	Ins	0.98	0.21	0.22	0.07	0	0.04	0.02	0.43	1.01	0.09
Count	8	8	8	8	2	8	2	2	2	2	2	2	2	2	2
CountND	0	0	0	0	1	4	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
DLF-MW6D															
Max	7.20	1,452	900	69	ND	0.03	0.41	84	3.3	23	190	38	95	0.1	340
Min	6.98	755	770	60	ND	ND	0.41	84	3.3	23	190	38	95	0.1	340
Rng	0.22	697	130	9.0	Ins	0.03	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
Med	7.09	1,104	835	64	ND	ND	0.41	84	3.3	23	190	38	95	0.1	340
Mean	7.09	1,104	835	64	Ins	Ins	0.41	84	3.3	23	190	38	95	0.1	340
StDev	0.16	493	92	6.4	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
CV	0.02	0.45	0.11	0.10	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
Count	2	2	2	2	1	2	1	1	1	1	1	1	1	1	1
CountND	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
ELK-MW1															
Max	7.23	1,790	1,300	65	--	0.02	--	--	--	--	--	--	--	--	--
Min	6.50	1,747	1,200	57	--	ND	--	--	--	--	--	--	--	--	--
Rng	0.73	43	100	8.0	--	0.02	--	--	--	--	--	--	--	--	--
Med	7.03	1,790	1,300	58	--	ND	--	--	--	--	--	--	--	--	--
Mean	6.95	1,776	1,275	60	--	Ins	--	--	--	--	--	--	--	--	--
StDev	0.34	25	50	3.6	--	Ins	--	--	--	--	--	--	--	--	--
CV	0.05	0.01	0.04	0.06	--	Ins	--	--	--	--	--	--	--	--	--
Count	4	3	4	4	--	4	--	--	--	--	--	--	--	--	--
CountND	0	0	0	0	--	3	--	--	--	--	--	--	--	--	--
ELK-MW2B															
Max	7.50	1,612	1,200	61	ND	0.03	1.2	140	5.1	50	120	98	92	16	380
Min	6.49	1,415	980	47	ND	ND	1.2	140	5.1	50	120	98	92	16	380
Rng	1.01	197	220	14	Ins	0.03	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
Med	7.00	1,507	1,050	54	ND	0.02	1.2	140	5.1	50	120	98	92	16	380
Mean	7.00	1,511	1,070	54	Ins	0.03	1.2	140	5.1	50	120	98	92	16	380
StDev	0.44	99	101	6.1	Ins	0.00	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
CV	0.06	0.07	0.09	0.11	Ins	0.12	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
Count	4	3	4	4	1	4	1	1	1	1	1	1	1	1	1
CountND	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
ELK-MW3B															
Max	9.77	1,814	1,300	13	--	0.03	--	--	--	--	--	--	--	--	--
Min	6.90	1,703	1,200	13	--	ND	--	--	--	--	--	--	--	--	--
Rng	2.87	111	100	0	--	0.03	--	--	--	--	--	--	--	--	--
Med	8.34	1,758	1,250	13	--	ND	--	--	--	--	--	--	--	--	--
Mean	8.34	1,758	1,250	13	--	Ins	--	--	--	--	--	--	--	--	--
StDev	2.03	78	71	0	--	Ins	--	--	--	--	--	--	--	--	--
CV	0.24	0.04	0.06	0	--	Ins	--	--	--	--	--	--	--	--	--
Count	2	2	2	2	--	2	--	--	--	--	--	--	--	--	--
CountND	0	0	0	0	--	1	--	--	--	--	--	--	--	--	--

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
ZZI-MW1A															
Max	7.90	2,706	1,900	2.0	0.04	50	31	320	68	65	160	220	100	27	1,100
Min	6.55	990	490	0.24	0.04	0.03	31	320	68	65	160	220	100	27	1,100
Rng	1.35	1,716	1,410	1.8	Ins	50	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
Med	6.85	2,490	1,300	0.98	0.04	25	31	320	68	65	160	220	100	27	1,100
Mean	7.10	2,062	1,230	1.1	0.04	25	31	320	68	65	160	220	100	27	1,100
StDev	0.71	935	708	0.88	Ins	25	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
CV	0.10	0.45	0.58	0.82	Ins	1.00	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
Count	3	3	3	3	1	3	1	1	1	1	1	1	1	1	1
CountND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZZI-MW1C															
Max	8.39	886	710	16	0.03	0.05	0.17	92	0.69	1.8	10	16	17	1.5	170
Min	6.87	278	200	1.5	ND	ND	ND	70	0.18	1.2	6.6	7.1	7.6	0.2	150
Rng	1.52	608	510	14	0.03	0.05	0.17	22	0.5	0.6	3.4	8.9	9.4	1.3	20
Med	7.88	460	280	1.9	0.01	0.02	ND	76	0.27	1.3	8.4	11	11	0.5	155
Mean	7.86	556	332	3.1	0.02	0.04	0.14	78	0.4	1.4	8.4	11	12	0.7	158
StDev	0.47	229	131	3.9	0.01	0.01	0.02	9.7	0.2	0.3	1.7	3.8	4.2	0.6	9.6
CV	0.06	0.41	0.39	1.28	0.53	0.30	0.17	0.12	0.65	0.19	0.21	0.34	0.36	0.86	0.06
Count	13	12	13	13	4	13	4	4	4	4	4	4	4	4	4
CountND	0	0	0	0	1	6	2	0	0	0	0	0	0	0	0
ZZI-MW1D															
Max	8.31	712	410	2.9	--	0.08	--	--	--	--	--	--	--	--	--
Min	7.81	402	250	0.73	--	ND	--	--	--	--	--	--	--	--	--
Rng	0.50	310	160	2.2	--	0.08	--	--	--	--	--	--	--	--	--
Med	8.00	469	290	1.3	--	0.03	--	--	--	--	--	--	--	--	--
Mean	8.03	509	300	1.6	--	0.05	--	--	--	--	--	--	--	--	--
StDev	0.20	120	66	0.82	--	0.02	--	--	--	--	--	--	--	--	--
CV	0.02	0.24	0.22	0.52	--	0.41	--	--	--	--	--	--	--	--	--
Count	5	5	5	5	--	5	--	--	--	--	--	--	--	--	--
CountND	0	0	0	0	--	2	--	--	--	--	--	--	--	--	--
ZZI-MW2A															
Max	8.10	3,132	1,900	32	0.02	7.2	7.9	420	42	70	160	210	120	3.9	1,000
Min	6.39	1,570	850	9.5	ND	0.02	4.2	340	32	55	120	190	100	0.4	970
Rng	1.71	1,562	1,050	22	0.02	7.2	3.7	80	10	15	40	20	20	3.5	30
Med	6.75	2,610	1,600	23	ND	3.2	5.4	385	36.5	64	150	205	100	1.2	1,000
Mean	6.84	2,575	1,573	23	Ins	3.3	5.7	382	37	63	145	202	105	1.7	992
StDev	0.40	376	257	6.3	Ins	1.7	1.6	33	4.3	6.4	19	9.6	10	1.6	15
CV	0.06	0.15	0.16	0.27	Ins	0.51	0.27	0.09	0.12	0.10	0.13	0.05	0.10	0.97	0.02
Count	13	13	13	13	4	13	4	4	4	4	4	4	4	4	4
CountND	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
ZZI-MW2C															
Max	8.71	1,257	700	9.6	0.40	0.05	0.30	180	0.47	11	52	60	61	0.2	380
Min	6.68	308	220	0.66	0.08	ND	ND	93	0.36	2.2	16	31	37	0.2	160
Rng	2.03	949	480	8.9	0.32	0.05	0.30	87	0.1	8.8	36	29	24	0.1	220
Med	7.76	679	385	2.6	0.24	ND	ND	136	0.415	6.6	34	46	49	0.2	270
Mean	7.78	673	417	3.5	0.24	0.04	Ins	136	0.4	6.6	34	46	49	0.2	270
StDev	0.59	354	185	3.0	0.22	0.01	Ins	62	0.1	6.2	25	21	17	0	156
CV	0.08	0.53	0.44	0.86	0.93	0.19	Ins	0.45	0.19	0.94	0.75	0.45	0.35	0.22	0.58
Count	12	11	12	12	2	12	2	2	2	2	2	2	2	2	2
CountND	0	0	0	0	0	8	1	0	0	0	0	0	0	0	0
ZZI-MW2D															
Max	8.04	421	290	16	0.11	0.05	0.20	61	0.24	1.3	8.2	11	14	0.2	130
Min	7.64	388	240	1.8	0.11	ND	0.20	61	0.24	1.3	8.2	11	14	0.2	130
Rng	0.40	33	50	14	Ins	0.05	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
Med	7.71	401	280	1.8	0.11	ND	0.20	61	0.24	1.3	8.2	11	14	0.2	130
Mean	7.80	403	270	6.5	0.11	Ins	0.20	61	0.2	1.3	8.2	11	14	0.2	130
StDev	0.21	16	26	8.2	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
CV	0.03	0.04	0.10	1.25	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
Count	3	3	3	3	1	3	1	1	1	1	1	1	1	1	1
CountND	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
ZZI-MW3A															
Max	7.20	4,580	2,400	0.19	ND	300	290	260	460	74	110	220	3.8	170	2,100
Min	6.46	3,318	1,700	ND	ND	210	290	260	460	74	110	220	3.8	170	2,100
Rng	0.74	1,262	700	0.19	Ins	90	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
Med	6.97	4,444	2,100	ND	ND	210	290	260	460	74	110	220	3.8	170	2,100
Mean	6.93	4,196	2,060	Ins	Ins	238	290	260	460	74	110	220	3.8	170	2,100
StDev	0.28	591	270	Ins	Ins	41	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
CV	0.04	0.14	0.13	Ins	Ins	0.17	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
Count	5	4	5	5	1	5	1	1	1	1	1	1	1	1	1
CountND	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0
ZZI-MW3B															
Max	8.24	1,300	840	17	0.48	0.11	0.41	220	0.53	12	67	75	74	0.1	440
Min	6.70	557	330	3.1	0.02	ND	0.13	82	0.23	2.3	14	17	20	ND	160
Rng	1.54	743	510	14	0.46	0.11	0.28	138	0.3	9.7	53	58	54	0.1	280
Med	7.41	859	545	8.8	0.23	ND	0.30	130	0.45	7.2	37	40	37	0.1	320
Mean	7.46	905	564	9.5	0.23	0.03	0.28	150	0.4	7.5	40	45	41	0.1	316
StDev	0.35	228	143	4.7	0.20	0.02	0.11	55	0.1	4	20	22	21	0	112
CV	0.05	0.25	0.25	0.50	0.91	0.57	0.38	0.36	0.36	0.53	0.49	0.48	0.50	0.32	0.35
Count	20	19	20	20	5	20	5	5	5	5	5	5	5	5	5
CountND	0	0	0	0	0	11	0	0	0	0	0	0	0	1	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
ZZI-MW5C															
Max	7.80	2,356	1,400	70	0.01	1.6	0.98	380	1.1	21	100	140	130	2.4	530
Min	7.17	1,482	990	36	ND	ND	0.79	280	0.87	11	45	96	85	0.2	470
Rng	0.63	874	410	34	0.01	1.6	0.19	100	0.2	10	55	44	45	2.2	60
Med	7.40	2,167	1,400	66	ND	0.04	0.88	330	0.985	16	72	118	108	1.3	500
Mean	7.47	2,049	1,332	61	Ins	0.34	0.88	330	1	16	72	118	108	1.3	500
StDev	0.28	333	167	13	Ins	0.57	0.13	71	0.2	7.1	39	31	32	1.6	42
CV	0.04	0.16	0.13	0.21	Ins	1.70	0.15	0.21	0.17	0.44	0.54	0.26	0.30	1.24	0.08
Count	6	5	6	6	2	6	2	2	2	2	2	2	2	2	2
CountND	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0
ZZI-MW5D															
Max	8.06	2,117	1,400	71	0.09	0.21	0.72	360	0.85	19	55	110	100	0.1	510
Min	7.03	1,600	950	30	ND	ND	0.60	320	0.6	11	24	95	95	ND	350
Rng	1.03	517	450	41	0.09	0.21	0.12	40	0.2	8	31	15	5	0.1	160
Med	7.46	1,734	1,100	46	ND	0.02	0.64	340	0.735	16.5	40	110	99	ND	435
Mean	7.55	1,780	1,114	47	Ins	0.07	0.65	340	0.7	16	40	106	98	0.1	432
StDev	0.31	147	118	13	Ins	0.06	0.06	23	0.1	3.6	14	7.5	2.4	0	71
CV	0.04	0.08	0.11	0.28	Ins	0.84	0.08	0.07	0.17	0.23	0.35	0.07	0.02	0.20	0.16
Count	17	14	17	17	4	17	4	4	4	4	4	4	4	4	4
CountND	0	0	0	0	3	7	0	0	0	0	0	0	0	2	0
ZZI-MW6D															
Max	7.99	2,166	1,400	46	0.03	0.09	1.1	380	0.91	21	96	140	220	0.7	680
Min	6.70	1,553	1,000	10	ND	ND	0.41	310	0.56	6.5	19	95	140	ND	400
Rng	1.29	613	400	36	0.03	0.09	0.69	70	0.4	14	77	45	80	0.7	280
Med	7.40	1,785	1,200	22	ND	ND	0.47	355	0.675	8.8	66	115	155	0.1	555
Mean	7.38	1,838	1,177	27	0.03	0.05	0.62	352	0.7	12	62	119	165	0.2	562
StDev	0.32	185	115	12	0.01	0.02	0.29	23	0.1	6.6	28	18	29	0.2	97
CV	0.04	0.10	0.10	0.46	0.24	0.46	0.46	0.07	0.18	0.54	0.46	0.15	0.17	0.89	0.17
Count	22	19	22	22	6	22	6	6	6	6	6	6	6	6	6
CountND	0	0	0	0	3	11	0	0	0	0	0	0	0	2	0
ZZI-MW7B															
Max	7.70	1,619	1,100	16	--	0.07	--	--	--	--	--	--	--	--	--
Min	7.60	1,619	1,000	15	--	0.04	--	--	--	--	--	--	--	--	--
Rng	0.10	Ins	100	1.0	--	0.03	--	--	--	--	--	--	--	--	--
Med	7.65	1,619	1,050	16	--	0.05	--	--	--	--	--	--	--	--	--
Mean	7.65	1,619	1,050	16	--	0.05	--	--	--	--	--	--	--	--	--
StDev	0.07	Ins	71	0.71	--	0.02	--	--	--	--	--	--	--	--	--
CV	0.01	Ins	0.07	0.05	--	0.37	--	--	--	--	--	--	--	--	--
Count	2	1	2	2	--	2	--	--	--	--	--	--	--	--	--
CountND	0	0	0	0	--	0	--	--	--	--	--	--	--	--	--

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
ZZI-MW7C															
Max	7.77	2,074	1,100	16	0.34	0.21	0.90	360	0.57	9.3	49	120	120	1.7	560
Min	7.17	1,340	790	5.7	ND	ND	0.36	270	0.44	5.7	32	95	81	ND	510
Rng	0.60	734	310	10	0.34	0.21	0.54	90	0.1	3.6	17	25	39	1.7	50
Med	7.56	1,642	1,000	13	0.21	0.02	0.46	350	0.5	8.6	46	110	110	0.8	530
Mean	7.49	1,624	1,008	12	0.20	0.05	0.55	332	0.5	8.1	43	111	106	0.9	536
StDev	0.19	196	101	2.9	0.10	0.04	0.21	38	0.1	1.4	7.3	10	16	0.6	19
CV	0.03	0.12	0.10	0.23	0.50	0.94	0.38	0.12	0.12	0.17	0.17	0.09	0.15	0.73	0.04
Count	16	16	16	16	5	16	5	5	5	5	5	5	5	5	5
CountND	0	0	0	0	1	7	0	0	0	0	0	0	0	1	0
ZZI-MW7D															
Max	8.24	1,671	960	20	0.55	0.07	0.42	300	0.74	11	59	96	83	1.5	530
Min	7.32	1,049	670	7.4	0.53	ND	0.39	280	0.64	7.4	50	93	74	0.6	470
Rng	0.92	622	290	13	0.02	0.07	0.03	20	0.1	3.6	9	3	9	0.9	60
Med	7.60	1,375	890	15	0.54	0.03	0.40	290	0.69	9.2	54	94	78	1.1	500
Mean	7.68	1,350	834	14	0.54	0.04	0.40	290	0.7	9.2	54	94	78	1.1	500
StDev	0.34	259	118	3.5	0.01	0.02	0.02	14	0.1	2.5	6.4	2.1	6.4	0.6	42
CV	0.04	0.19	0.14	0.25	0.03	0.41	0.05	0.05	0.10	0.28	0.12	0.02	0.08	0.60	0.08
Count	9	7	9	9	2	9	2	2	2	2	2	2	2	2	2
CountND	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
ZZI-MW9C															
Max	8.30	1,341	1,200	46	0.11	0.07	0.75	130	0.42	9.9	52	39	46	8	290
Min	6.13	250	180	1.5	ND	ND	0.29	70	0.3	3.1	16	20	20	0.2	140
Rng	2.17	1,091	1,020	44	0.11	0.07	0.46	60	0.1	6.8	36	19	26	7.8	150
Med	7.51	571	580	16	ND	0.03	0.52	100	0.36	6.5	34	30	33	4.1	215
Mean	7.51	682	549	16	Ins	0.04	0.52	100	0.4	6.5	34	30	33	4.1	215
StDev	0.59	372	288	12	Ins	0.01	0.33	42	0.1	4.8	25	13	18	5.5	106
CV	0.08	0.55	0.52	0.79	Ins	0.35	0.63	0.42	0.24	0.74	0.75	0.46	0.56	1.36	0.49
Count	11	9	11	11	2	11	2	2	2	2	2	2	2	2	2
CountND	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0
ZZI-MW9D															
Max	8.43	546	350	8.3	0.12	0.06	0.19	100	0.42	3.4	19	27	27	0.5	170
Min	6.66	191	170	1.2	ND	ND	ND	47	0.23	0.98	5.6	5.7	8.1	0.3	100
Rng	1.77	355	180	7.1	0.12	0.06	0.19	53	0.2	2.4	13	21	19	0.2	70
Med	8.03	356	255	2.8	0.03	ND	0.11	78	0.25	2.5	15	15	17	0.3	140
Mean	7.95	357	257	3.9	0.06	0.04	0.16	79	0.3	2.5	15	16	18	0.3	141
StDev	0.45	102	63	2.5	0.04	0.01	0.04	21	0.1	1	5.5	7.8	6.9	0.1	27
CV	0.06	0.29	0.24	0.64	0.67	0.31	0.22	0.26	0.28	0.38	0.38	0.48	0.38	0.33	0.19
Count	16	15	16	16	5	16	5	5	5	5	5	5	5	5	5
CountND	0	0	0	0	1	8	2	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
HOL-MW1															
Max	8.04	1,249	530	12	0.00	0.05	0.28	120	0.59	2.5	37	42	120	3.3	160
Min	7.33	645	430	9.5	ND	ND	0.26	120	0.38	2.4	36	41	99	ND	160
Rng	0.71	604	100	2.5	0.00	0.05	0.02	0	0.2	0.1	1	1	21	3.3	0
Med	7.73	759	500	11	ND	0.02	0.27	120	0.485	2.45	36	42	110	ND	160
Mean	7.67	812	489	11	Ins	0.03	0.27	120	0.5	2.4	36	42	110	--	160
StDev	0.26	176	30	0.95	Ins	0.01	0.01	0	0.1	0.1	0.7	0.7	15	Ins	0
CV	0.03	0.22	0.06	0.09	Ins	0.37	0.05	0	0.31	0.03	0.02	0.02	0.14	Ins	0
Count	9	9	9	9	2	9	2	2	2	2	2	2	2	2	2
CountND	0	0	0	0	1	3	0	0	0	0	0	0	0	1	0
HOL-MW2															
Max	8.08	2,421	960	37	ND	0.06	0.19	150	0.47	3.4	52	74	180	0.6	140
Min	7.22	751	600	15	ND	ND	0.19	150	0.47	3.4	52	74	180	0.6	140
Rng	0.86	1,670	360	22	Ins	0.06	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
Med	7.86	1,040	650	17	ND	0.03	0.19	150	0.47	3.4	52	74	180	0.6	140
Mean	7.70	1,186	706	20	Ins	0.03	0.19	150	0.5	3.4	52	74	180	0.6	140
StDev	0.35	557	124	7.7	Ins	0.01	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
CV	0.04	0.47	0.18	0.39	Ins	0.36	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
Count	7	7	7	7	1	7	1	1	1	1	1	1	1	1	1
CountND	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0
HOL-MW3															
Max	7.56	1,336	920	28	ND	0.04	4.2	120	0.48	7.9	130	67	230	43	190
Min	7.24	1,182	840	25	ND	0.02	4.2	120	0.48	7.9	130	67	230	43	190
Rng	0.32	154	80	3.0	Ins	0.02	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
Med	7.48	1,295	885	27	ND	0.03	4.2	120	0.48	7.9	130	67	230	43	190
Mean	7.44	1,277	882	27	Ins	0.03	4.2	120	0.5	7.9	130	67	230	43	190
StDev	0.14	70	43	1.5	Ins	0.01	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
CV	0.02	0.06	0.05	0.06	Ins	0.37	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
Count	4	4	4	4	1	4	1	1	1	1	1	1	1	1	1
CountND	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
HYN-MW3															
Max	6.72	1,833	1,400	57	--	0.03	--	--	--	--	--	--	--	--	--
Min	6.72	1,833	1,400	57	--	0.03	--	--	--	--	--	--	--	--	--
Rng	Ins	Ins	Ins	Ins	--	Ins	--	--	--	--	--	--	--	--	--
Med	6.72	1,833	1,400	57	--	0.03	--	--	--	--	--	--	--	--	--
Mean	6.72	1,833	1,400	57	--	0.03	--	--	--	--	--	--	--	--	--
StDev	Ins	Ins	Ins	Ins	--	Ins	--	--	--	--	--	--	--	--	--
CV	Ins	Ins	Ins	Ins	--	Ins	--	--	--	--	--	--	--	--	--
Count	1	1	1	1	--	1	--	--	--	--	--	--	--	--	--
CountND	0	0	0	0	--	0	--	--	--	--	--	--	--	--	--

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
HYN-MW4															
Max	7.34	553	450	27	--	0.03	--	--	--	--	--	--	--	--	--
Min	7.34	553	450	27	--	0.03	--	--	--	--	--	--	--	--	--
Rng	Ins	Ins	Ins	Ins	--	Ins	--	--	--	--	--	--	--	--	--
Med	7.34	553	450	27	--	0.03	--	--	--	--	--	--	--	--	--
Mean	7.34	553	450	27	--	0.03	--	--	--	--	--	--	--	--	--
StDev	Ins	Ins	Ins	Ins	--	Ins	--	--	--	--	--	--	--	--	--
CV	Ins	Ins	Ins	Ins	--	Ins	--	--	--	--	--	--	--	--	--
Count	1	1	1	1	--	1	--	--	--	--	--	--	--	--	--
CountND	0	0	0	0	--	0	--	--	--	--	--	--	--	--	--
HYN-MW5															
Max	7.39	325	390	2.8	--	0.03	--	--	--	--	--	--	--	--	--
Min	7.32	315	220	2.8	--	0.02	--	--	--	--	--	--	--	--	--
Rng	0.07	10	170	0	--	0.01	--	--	--	--	--	--	--	--	--
Med	7.36	320	305	2.8	--	0.03	--	--	--	--	--	--	--	--	--
Mean	7.36	320	305	2.8	--	0.03	--	--	--	--	--	--	--	--	--
StDev	0.05	7	120	0	--	0.01	--	--	--	--	--	--	--	--	--
CV	0.01	0.02	0.39	0	--	0.25	--	--	--	--	--	--	--	--	--
Count	2	2	2	2	--	2	--	--	--	--	--	--	--	--	--
CountND	0	0	0	0	--	0	--	--	--	--	--	--	--	--	--
JAD-MW1															
Max	7.10	1,247	900	47	0.01	0.03	0.63	80	0.69	17	140	34	85	3.8	370
Min	6.70	1,010	720	23	0.01	ND	0.63	80	0.69	17	140	34	85	3.8	370
Rng	0.40	237	180	24	Ins	0.03	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
Med	6.94	1,153	775	24	0.01	0.02	0.63	80	0.69	17	140	34	85	3.8	370
Mean	6.92	1,141	792	30	0.01	0.02	0.63	80	0.7	17	140	34	85	3.8	370
StDev	0.17	98	77	12	Ins	0.01	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
CV	0.02	0.09	0.10	0.39	Ins	0.26	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
Count	4	4	4	4	1	4	1	1	1	1	1	1	1	1	1
CountND	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
JAD-MW2															
Max	6.80	1,630	1,000	55	--	0.02	--	--	--	--	--	--	--	--	--
Min	6.80	1,435	990	52	--	ND	--	--	--	--	--	--	--	--	--
Rng	0.00	195	10	3.0	--	0.02	--	--	--	--	--	--	--	--	--
Med	6.80	1,532	995	54	--	ND	--	--	--	--	--	--	--	--	--
Mean	6.80	1,532	995	54	--	Ins	--	--	--	--	--	--	--	--	--
StDev	0	138	7	2.1	--	Ins	--	--	--	--	--	--	--	--	--
CV	0	0.09	0.01	0.04	--	Ins	--	--	--	--	--	--	--	--	--
Count	2	2	2	2	--	2	--	--	--	--	--	--	--	--	--
CountND	0	0	0	0	--	1	--	--	--	--	--	--	--	--	--

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
JAD-MW3															
Max	7.30	1,244	900	48	0.01	0.03	0.09	78	0.94	18	140	25	100	0.6	330
Min	6.60	732	590	18	ND	ND	ND	78	0.86	17	130	22	99	0.6	330
Rng	0.70	512	310	30	0.01	0.03	0.09	0	0.1	1	10	3	1	0.1	0
Med	7.04	1,087	765	27	ND	ND	ND	78	0.9	17.5	135	24	100	0.6	330
Mean	6.98	1,051	750	30	Ins	0.02	Ins	78	0.9	18	135	24	100	0.6	330
StDev	0.23	143	96	10	Ins	0.01	Ins	0	0.1	0.7	7.1	2.1	0.7	0	0
CV	0.03	0.14	0.13	0.35	Ins	0.21	Ins	0	0.06	0.04	0.05	0.09	0.01	0.06	0
Count	10	10	10	10	2	10	2	2	2	2	2	2	2	2	2
CountND	0	0	0	0	1	5	1	0	0	0	0	0	0	0	0
JAD-MW4															
Max	7.73	1,712	730	15	0.02	0.07	0.28	83	0.99	15	130	31	57	0.6	410
Min	6.60	556	170	0.90	ND	ND	ND	67	0.68	10	100	19	47	ND	330
Rng	1.13	1,156	560	14	0.02	0.07	0.28	16	0.3	5	30	12	10	0.6	80
Med	7.11	970	540	11	ND	0.02	0.25	77	0.74	14	120	22	51	0.2	360
Mean	7.13	987	521	10	Ins	0.04	0.23	77	0.8	13	116	24	52	0.3	372
StDev	0.33	259	121	3.3	Ins	0.02	0.05	5.9	0.1	2.2	11	4.7	3.8	0.2	33
CV	0.05	0.26	0.23	0.33	Ins	0.49	0.22	0.08	0.17	0.16	0.10	0.20	0.07	0.62	0.09
Count	19	19	19	19	5	19	5	5	5	5	5	5	5	5	5
CountND	0	0	0	0	4	8	1	0	0	0	0	0	0	2	0
JAD-MW5															
Max	8.30	1,657	800	16	0.02	0.05	1.5	150	7.3	19	120	36	93	16	420
Min	6.59	1,045	190	0.89	ND	ND	0.64	74	1.9	13	79	32	78	8.1	350
Rng	1.71	612	610	15	0.02	0.05	0.86	76	5.4	6	41	4	15	7.9	70
Med	7.52	1,122	680	15	ND	ND	0.89	130	2.25	17	99	34	82	9.2	390
Mean	7.44	1,194	633	14	Ins	0.03	0.98	121	3.4	16	99	34	84	11	388
StDev	0.43	177	153	4.0	Ins	0.01	0.38	33	2.6	2.6	17	1.7	6.4	3.6	38
CV	0.06	0.15	0.24	0.28	Ins	0.30	0.38	0.27	0.76	0.16	0.17	0.05	0.08	0.34	0.10
Count	13	13	13	13	4	13	4	4	4	4	4	4	4	4	4
CountND	0	0	0	0	3	7	0	0	0	0	0	0	0	0	0
JAD-MW6															
Max	10.60	1,784	1,100	39	0.04	0.07	0.49	130	2.3	26	200	64	250	4.1	370
Min	6.60	557	450	14	ND	ND	0.13	88	1.7	4.7	140	37	100	ND	290
Rng	4.00	1,227	650	25	0.04	0.07	0.36	42	0.6	21	60	27	150	4.1	80
Med	6.94	1,282	765	27	ND	ND	0.37	110	1.9	10.05	170	57	140	0.8	355
Mean	7.16	1,266	776	29	0.03	0.04	0.35	108	1.9	12	170	53	153	1.3	342
StDev	0.83	280	174	6.8	0.02	0.02	0.13	14	0.2	7.9	30	12	56	1.4	34
CV	0.12	0.22	0.22	0.24	0.59	0.40	0.36	0.13	0.12	0.66	0.17	0.24	0.37	1.05	0.10
Count	24	24	24	24	6	24	6	6	6	6	6	6	6	6	6
CountND	0	0	0	0	4	12	0	0	0	0	0	0	0	1	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
JAD-MW7															
Max	7.32	1,446	1,000	26	0.00	0.04	0.39	110	1.3	23	190	47	250	1.1	390
Min	6.20	1,283	740	18	0.00	ND	0.39	110	1.3	23	190	47	250	1.1	390
Rng	1.12	163	260	8.0	Ins	0.04	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
Med	6.98	1,410	955	21	0.00	0.02	0.39	110	1.3	23	190	47	250	1.1	390
Mean	6.95	1,388	930	21	0.00	0.03	0.39	110	1.3	23	190	47	250	1.1	390
StDev	0.41	59	98	3.4	Ins	0.01	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
CV	0.06	0.04	0.11	0.16	Ins	0.20	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
Count	6	6	6	6	1	6	1	1	1	1	1	1	1	1	1
CountND	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
LON-MW1B															
Max	7.90	1,277	750	25	0.00	0.05	0.56	120	1.1	7.4	100	120	57	4.5	270
Min	6.80	978	620	20	ND	ND	ND	120	0.54	7	97	100	51	ND	260
Rng	1.10	299	130	5.0	0.00	0.05	0.56	0	0.6	0.4	3	20	6	4.5	10
Med	7.25	1,138	720	24	ND	0.02	ND	120	0.82	7.2	98	110	54	ND	265
Mean	7.28	1,143	700	24	Ins	0.03	Ins	120	0.8	7.2	98	110	54	--	265
StDev	0.34	101	47	1.7	Ins	0.01	Ins	0	0.4	0.3	2.1	14	4.2	Ins	7.1
CV	0.05	0.09	0.07	0.07	Ins	0.37	Ins	0	0.48	0.04	0.02	0.13	0.08	Ins	0.03
Count	7	6	7	7	2	7	2	2	2	2	2	2	2	2	2
CountND	0	0	0	0	1	1	1	0	0	0	0	0	0	1	0
LON-MW1C															
Max	7.79	1,154	670	19	0.17	0.12	0.27	120	0.62	7.6	110	110	44	0.2	250
Min	6.65	648	410	10	ND	ND	ND	90	0.41	3.6	69	87	38	ND	160
Rng	1.14	506	260	9.0	0.17	0.12	0.27	30	0.2	4	41	23	6	0.2	90
Med	7.28	842	530	14	ND	ND	0.14	95	0.45	4.4	72	100	41	0.1	200
Mean	7.28	901	546	14	0.13	0.05	0.18	99	0.5	4.8	79	99	41	0.1	198
StDev	0.28	167	79	3.4	0.03	0.03	0.05	12	0.1	1.6	18	11	2.6	0	39
CV	0.04	0.18	0.14	0.24	0.22	0.59	0.27	0.12	0.17	0.33	0.22	0.11	0.06	0.18	0.20
Count	21	18	21	21	5	21	5	5	5	5	5	5	5	5	5
CountND	0	0	0	0	3	12	2	0	0	0	0	0	0	2	0
LON-MW2B															
Max	6.80	2,316	1,400	6.3	--	0.02	--	--	--	--	--	--	--	--	--
Min	6.42	1,953	1,100	2.1	--	ND	--	--	--	--	--	--	--	--	--
Rng	0.38	363	300	4.2	--	0.02	--	--	--	--	--	--	--	--	--
Med	6.58	2,016	1,250	4.2	--	0.02	--	--	--	--	--	--	--	--	--
Mean	6.60	2,095	1,250	4.2	--	0.02	--	--	--	--	--	--	--	--	--
StDev	0.16	194	129	2.3	--	0.00	--	--	--	--	--	--	--	--	--
CV	0.02	0.09	0.10	0.55	--	0.11	--	--	--	--	--	--	--	--	--
Count	4	3	4	4	--	4	--	--	--	--	--	--	--	--	--
CountND	0	0	0	0	--	1	--	--	--	--	--	--	--	--	--

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
LON-MW2C															
Max	7.32	2,055	1,000	13	0.10	0.28	0.54	220	1	14	190	230	51	0.7	580
Min	6.40	1,200	650	5.9	ND	ND	0.18	140	0.63	8.8	130	190	29	ND	320
Rng	0.92	855	350	7.1	0.10	0.28	0.36	80	0.4	5.2	60	40	22	0.7	260
Med	6.72	1,583	865	10	0.05	0.03	0.38	190	0.87	12	160	200	35	ND	510
Mean	6.77	1,594	843	10	0.06	0.05	0.37	184	0.8	11	159	203	39	0.3	480
StDev	0.22	231	100	2.5	0.02	0.05	0.13	29	0.1	1.8	23	15	8.8	0.2	87
CV	0.03	0.14	0.12	0.25	0.36	1.04	0.35	0.16	0.13	0.16	0.15	0.07	0.22	0.82	0.18
Count	20	17	20	20	7	20	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	1	8	0	0	0	0	0	0	0	5	0
LON-MW3B															
Max	7.79	1,738	1,100	15	0.26	0.07	1.8	180	1.2	9.2	150	230	120	2.2	270
Min	6.47	868	470	3.7	0.03	ND	0.11	130	0.51	5.1	94	140	76	ND	220
Rng	1.32	870	630	11	0.23	0.07	1.7	50	0.7	4.1	56	90	44	2.2	50
Med	7.26	1,328	820	9.0	0.24	0.02	0.39	145	0.61	7.25	115	195	105	ND	240
Mean	7.29	1,332	805	8.9	0.21	0.03	0.60	150	0.7	7.2	119	197	103	0.5	242
StDev	0.26	237	150	3.6	0.09	0.01	0.62	18	0.3	1.4	19	33	15	0.8	18
CV	0.04	0.18	0.19	0.40	0.43	0.43	1.04	0.12	0.36	0.19	0.16	0.17	0.15	1.54	0.08
Count	24	19	24	24	6	24	6	6	6	6	6	6	6	6	6
CountND	0	0	0	0	0	11	0	0	0	0	0	0	0	3	0
LON-MW3C															
Max	7.29	1,707	1,100	13	0.27	0.08	0.75	180	0.76	9.4	170	330	140	1.8	260
Min	6.99	1,290	880	11	0.27	ND	0.75	180	0.76	9.4	170	330	140	1.8	260
Rng	0.30	417	220	2.0	Ins	0.08	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
Med	7.29	1,511	940	11	0.27	ND	0.75	180	0.76	9.4	170	330	140	1.8	260
Mean	7.19	1,503	973	12	0.27	Ins	0.75	180	0.8	9.4	170	330	140	1.8	260
StDev	0.17	209	114	1.2	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
CV	0.02	0.14	0.12	0.10	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
Count	3	3	3	3	1	3	1	1	1	1	1	1	1	1	1
CountND	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
LON-MW4B															
Max	7.50	2,165	1,300	58	--	0.06	--	--	--	--	--	--	--	--	--
Min	6.93	2,002	1,200	41	--	0.02	--	--	--	--	--	--	--	--	--
Rng	0.57	163	100	17	--	0.04	--	--	--	--	--	--	--	--	--
Med	7.06	2,008	1,250	48	--	0.03	--	--	--	--	--	--	--	--	--
Mean	7.14	2,058	1,250	49	--	0.03	--	--	--	--	--	--	--	--	--
StDev	0.25	92	58	7.7	--	0.02	--	--	--	--	--	--	--	--	--
CV	0.03	0.04	0.05	0.16	--	0.59	--	--	--	--	--	--	--	--	--
Count	4	3	4	4	--	4	--	--	--	--	--	--	--	--	--
CountND	0	0	0	0	--	0	--	--	--	--	--	--	--	--	--

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
LON-MW4C															
Max	7.32	2,878	1,800	57	0.02	0.04	0.66	290	1.1	20	240	400	200	2.9	400
Min	5.79	1,802	1,300	39	ND	ND	ND	240	0.88	17	170	310	110	ND	340
Rng	1.53	1,076	500	18	0.02	0.04	0.66	50	0.2	3	70	90	90	2.9	60
Med	6.93	2,324	1,500	53	0.01	0.03	0.33	260	0.98	19	230	350	170	ND	350
Mean	6.92	2,373	1,495	51	0.01	0.03	0.35	263	1	19	220	351	164	0.4	363
StDev	0.32	289	143	4.6	0.00	0.01	0.16	16	0.1	1.4	26	33	34	1.1	23
CV	0.05	0.12	0.10	0.09	0.26	0.15	0.47	0.06	0.07	0.07	0.12	0.09	0.20	2.48	0.06
Count	19	16	19	19	7	19	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	2	7	1	0	0	0	0	0	0	5	0
LON-MW4D															
Max	7.37	2,523	1,700	54	--	0.05	--	--	--	--	--	--	--	--	--
Min	6.65	2,193	1,300	49	--	ND	--	--	--	--	--	--	--	--	--
Rng	0.72	330	400	5.0	--	0.05	--	--	--	--	--	--	--	--	--
Med	7.16	2,291	1,600	53	--	ND	--	--	--	--	--	--	--	--	--
Mean	7.08	2,336	1,550	52	--	Ins	--	--	--	--	--	--	--	--	--
StDev	0.32	169	173	2.2	--	Ins	--	--	--	--	--	--	--	--	--
CV	0.04	0.07	0.11	0.04	--	Ins	--	--	--	--	--	--	--	--	--
Count	4	3	4	4	--	4	--	--	--	--	--	--	--	--	--
CountND	0	0	0	0	--	3	--	--	--	--	--	--	--	--	--
LON-MW5C															
Max	7.34	2,466	1,700	37	0.00	0.24	0.51	330	1.1	14	170	360	150	3.2	420
Min	6.83	1,710	1,100	27	ND	ND	0.07	280	0.82	11	130	290	110	ND	380
Rng	0.51	756	600	10	0.00	0.24	0.44	50	0.3	3	40	70	40	3.2	40
Med	6.99	2,140	1,300	33	ND	0.02	0.30	300	0.995	12.5	145	310	115	0.2	390
Mean	7.02	2,167	1,300	33	Ins	0.05	0.30	302	1	12	148	318	122	1	395
StDev	0.14	234	141	3.1	Ins	0.05	0.18	26	0.1	1.3	17	30	19	1.3	17
CV	0.02	0.11	0.11	0.09	Ins	1.02	0.61	0.09	0.12	0.10	0.12	0.09	0.15	1.37	0.04
Count	15	13	15	15	4	15	4	4	4	4	4	4	4	4	4
CountND	0	0	0	0	3	6	0	0	0	0	0	0	0	1	0
LON-MW6C															
Max	7.94	2,143	1,300	38	0.34	0.07	0.63	210	1.3	15	170	350	69	10	300
Min	6.58	1,450	920	13	0.00	ND	0.09	140	0.64	7.9	130	320	52	0.6	120
Rng	1.36	693	380	25	0.34	0.07	0.54	70	0.7	7.1	40	30	17	9.4	180
Med	7.36	1,547	1,100	15	0.17	0.03	0.38	155	0.795	8.65	140	335	58	0.8	135
Mean	7.35	1,663	1,068	19	0.17	0.03	0.37	165	0.9	10	145	335	59	3	172
StDev	0.31	220	110	8.7	0.19	0.01	0.22	31	0.3	3.3	17	13	7.1	4.7	85
CV	0.04	0.13	0.10	0.47	1.10	0.41	0.61	0.19	0.33	0.33	0.12	0.04	0.12	1.54	0.50
Count	13	12	13	13	4	13	4	4	4	4	4	4	4	4	4
CountND	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
LON-MW7C															
Max	6.35	2,419	1,500	17	--	0.70	--	--	--	--	--	--	--	--	--
Min	6.25	2,281	1,300	9.1	--	0.06	--	--	--	--	--	--	--	--	--
Rng	0.10	138	200	7.9	--	0.64	--	--	--	--	--	--	--	--	--
Med	6.30	2,350	1,400	13	--	0.38	--	--	--	--	--	--	--	--	--
Mean	6.30	2,350	1,400	13	--	0.38	--	--	--	--	--	--	--	--	--
StDev	0.07	98	141	5.6	--	0.45	--	--	--	--	--	--	--	--	--
CV	0.01	0.04	0.10	0.43	--	1.19	--	--	--	--	--	--	--	--	--
Count	2	2	2	2	--	2	--	--	--	--	--	--	--	--	--
CountND	0	0	0	0	--	0	--	--	--	--	--	--	--	--	--
LON-MW7D															
Max	8.10	2,816	1,900	65	0.00	0.11	0.41	310	1	24	220	580	160	2.4	420
Min	6.21	2,048	1,300	25	ND	ND	ND	270	0.88	17	180	250	110	0.1	300
Rng	1.89	768	600	40	0.00	0.11	0.41	40	0.1	7	40	330	50	2.3	120
Med	6.96	2,277	1,400	58	ND	0.02	0.34	295	1	20	200	370	140	0.2	335
Mean	7.00	2,272	1,444	55	Ins	0.04	0.33	290	1	20	202	378	140	0.6	352
StDev	0.37	195	142	9.4	Ins	0.02	0.07	17	0.1	2.5	17	117	20	0.9	44
CV	0.05	0.09	0.10	0.17	Ins	0.60	0.21	0.06	0.05	0.13	0.09	0.31	0.14	1.43	0.13
Count	19	15	18	18	6	18	6	6	6	6	6	6	6	6	6
CountND	0	0	0	0	5	6	1	0	0	0	0	0	0	0	0
ADO-MW1															
Max	7.70	1,929	940	31	0.00	0.15	0.40	59	8.4	77	150	92	64	1.6	620
Min	6.58	977	550	12	ND	ND	0.20	37	6.7	55	110	48	38	ND	390
Rng	1.12	952	390	19	0.00	0.15	0.20	22	1.7	22	40	44	26	1.6	230
Med	7.26	1,285	720	20	ND	0.03	0.26	44	7.3	62.5	120	62	46	0.2	440
Mean	7.23	1,276	717	20	Ins	0.04	0.28	46	7.4	66	125	65	47	0.4	467
StDev	0.26	229	93	4.4	Ins	0.03	0.07	7.6	0.7	9.4	14	17	9.2	0.5	82
CV	0.04	0.18	0.13	0.23	Ins	0.72	0.26	0.17	0.09	0.14	0.11	0.26	0.20	1.27	0.18
Count	21	21	22	22	6	22	6	6	6	6	6	6	6	6	6
CountND	0	0	0	0	5	6	0	0	0	0	0	0	0	2	0
ADO-MW2															
Max	7.65	1,295	750	19	0.01	0.21	2.1	58	8.4	62	120	83	59	2.9	450
Min	6.39	759	470	8.0	ND	ND	0.16	38	6.6	47	89	36	27	0.2	370
Rng	1.26	536	280	11	0.01	0.21	1.9	20	1.8	15	31	47	32	2.7	80
Med	7.29	1,106	655	13	ND	0.03	0.38	45	7	52	100	56	42	0.7	405
Mean	7.25	1,079	637	14	0.01	0.06	0.66	47	7.2	54	102	57	43	1.1	407
StDev	0.26	169	84	3.1	0.00	0.05	0.73	7.9	0.6	5.5	11	21	10	1	31
CV	0.04	0.16	0.13	0.23	0.53	0.83	1.11	0.17	0.09	0.10	0.11	0.36	0.24	0.95	0.08
Count	21	21	22	22	6	22	6	6	6	6	6	6	6	6	6
CountND	0	0	0	0	4	5	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
MAL-MW1															
Max	8.30	3,129	2,200	52	0.31	0.17	0.89	720	1	18	56	83	410	27	1,200
Min	7.59	1,521	760	23	0.01	ND	0.22	360	0.56	5.4	18	26	240	1.7	430
Rng	0.71	1,608	1,440	29	0.30	0.17	0.67	360	0.4	13	38	57	170	25	770
Med	7.80	2,154	1,550	30	0.03	0.04	0.60	490	0.69	8.9	30	51	290	4.5	610
Mean	7.84	2,193	1,559	31	0.08	0.06	0.59	523	0.7	9.6	31	52	317	7.4	739
StDev	0.15	500	441	7.0	0.11	0.04	0.26	138	0.2	4	12	22	68	8.8	298
CV	0.02	0.23	0.28	0.23	1.37	0.62	0.45	0.26	0.22	0.42	0.39	0.42	0.21	1.20	0.40
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0
MAL-MW2															
Max	7.70	4,301	2,800	170	1.1	0.13	0.85	560	1.2	63	200	240	250	5.6	1,100
Min	7.00	2,267	1,400	7.5	0.11	ND	ND	400	0.76	39	120	94	150	0.1	860
Rng	0.70	2,034	1,400	162	0.99	0.13	0.85	160	0.4	24	80	146	100	5.5	240
Med	7.24	2,846	1,900	77	0.52	0.04	0.66	470	0.9	48	160	170	230	0.4	910
Mean	7.28	3,000	1,996	79	0.54	0.05	0.56	481	0.9	50	161	169	219	1.3	933
StDev	0.15	568	387	55	0.32	0.03	0.23	59	0.1	8.1	30	54	36	2	87
CV	0.02	0.19	0.19	0.69	0.60	0.57	0.41	0.12	0.15	0.16	0.19	0.32	0.16	1.54	0.09
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	0	7	1	0	0	0	0	0	0	0	0
MAL-MW3															
Max	7.93	6,600	5,000	100	1.8	30	60	1,400	120	65	180	560	200	41	2,900
Min	6.87	3,693	2,400	0.09	0.45	ND	ND	830	2.2	48	86	330	11	0.4	1,400
Rng	1.06	2,907	2,600	100	1.4	30	60	570	118	17	94	230	189	41	1,500
Med	7.21	4,392	3,300	34	1.1	0.09	4.4	1,030	2.6	53	135	450	160	0.9	1,950
Mean	7.25	4,639	3,456	34	1.1	3.2	13	1,070	27	54	131	455	144	8.6	2,033
StDev	0.28	832	742	25	0.53	7.7	21	241	47	6.3	38	87	70	16	547
CV	0.04	0.18	0.21	0.73	0.50	2.42	1.56	0.23	1.77	0.12	0.29	0.19	0.49	1.87	0.27
Count	25	25	25	25	6	25	6	6	6	6	6	6	6	6	6
CountND	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
MAL-MW4															
Max	8.03	4,100	2,600	160	0.15	0.12	1.2	750	1.4	14	50	180	270	2.8	1,500
Min	7.32	2,203	1,400	7.2	0.01	ND	0.20	590	0.88	12	43	66	190	0.2	1,000
Rng	0.71	1,897	1,200	153	0.14	0.12	1.0	160	0.5	2	7	114	80	2.6	500
Med	7.58	2,823	1,800	17	0.06	0.03	0.72	670	1.3	14	47	81	230	2	1,100
Mean	7.62	2,898	1,952	24	0.06	0.05	0.80	660	1.2	13	47	96	228	1.7	1,200
StDev	0.20	542	403	29	0.06	0.02	0.42	63	0.2	1.1	2.7	47	33	1.1	200
CV	0.03	0.19	0.21	1.21	0.86	0.50	0.52	0.10	0.17	0.08	0.06	0.49	0.15	0.62	0.17
Count	25	25	25	25	5	25	5	5	5	5	5	5	5	5	5
CountND	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
MAL-MW5															
Max	7.80	7,169	5,600	350	3.3	0.28	3.1	1,500	2.3	50	160	470	440	4.3	2,000
Min	6.80	2,790	2,700	22	0.68	ND	0.62	840	1.6	34	100	220	190	0.1	1,400
Rng	1.00	4,379	2,900	328	2.6	0.28	2.5	660	0.7	16	60	250	250	4.2	600
Med	7.20	4,954	3,850	175	2.1	0.07	2.6	1,100	1.9	45	140	290	250	1.8	1,700
Mean	7.21	5,046	3,936	184	2.1	0.10	2.3	1,094	1.9	43	140	321	276	2.2	1,714
StDev	0.19	1,046	803	80	0.78	0.07	0.83	216	0.3	5.1	23	94	90	1.6	204
CV	0.03	0.21	0.20	0.43	0.37	0.73	0.36	0.20	0.13	0.12	0.16	0.29	0.33	0.73	0.12
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
MAL-MW6															
Max	7.41	6,751	4,900	100	0.47	0.17	1.9	920	2.8	160	450	860	1,500	6.6	1,000
Min	6.80	2,086	1,300	35	0.09	ND	ND	290	1.6	38	110	120	97	ND	590
Rng	0.61	4,665	3,600	65	0.38	0.17	1.9	630	1.2	122	340	740	1,403	6.6	410
Med	7.10	3,116	1,850	74	0.15	0.04	1.2	480	2.1	65	180	270	300	1.1	840
Mean	7.11	3,258	2,221	74	0.22	0.06	1.2	520	2.1	77	221	349	468	1.9	814
StDev	0.15	1,151	946	11	0.13	0.04	0.57	204	0.4	41	115	254	486	2	124
CV	0.02	0.35	0.43	0.14	0.61	0.64	0.48	0.39	0.18	0.53	0.52	0.73	1.04	1.07	0.15
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	0	9	1	0	0	0	0	0	0	1	0
MAL-MW7															
Max	7.75	6,611	3,900	160	0.13	0.30	5.2	450	2.4	180	680	470	1,500	11	760
Min	6.40	1,802	1,200	21	0.02	ND	ND	210	1.3	62	210	160	490	0.6	500
Rng	1.35	4,809	2,700	139	0.11	0.30	5.2	240	1.1	118	470	310	1,010	10	260
Med	6.83	4,043	2,800	87	0.07	0.04	1.2	400	2	130	460	300	970	2.4	680
Mean	6.84	4,023	2,626	86	0.08	0.07	1.7	359	1.9	124	459	317	989	3.4	650
StDev	0.29	1,206	770	44	0.04	0.06	1.5	97	0.3	48	189	112	398	3.7	100
CV	0.04	0.30	0.29	0.51	0.48	0.89	0.88	0.27	0.17	0.39	0.41	0.35	0.40	1.08	0.15
Count	27	27	27	27	7	27	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	0	8	1	0	0	0	0	0	0	0	0
MAL-MW8															
Max	9.17	2,607	1,800	82	0.98	0.19	1.5	610	0.61	1.9	6.7	100	140	20	718
Min	7.22	1,757	1,200	29	0.43	ND	0.62	420	0.41	0.74	2.7	46	94	4.2	591
Rng	1.95	850	600	53	0.55	0.19	0.88	190	0.2	1.2	4	54	46	16	127
Med	8.64	2,194	1,650	72	0.59	0.05	0.90	520	0.55	1	3.6	88	110	4.4	641
Mean	8.58	2,160	1,568	64	0.67	0.06	0.96	506	0.5	1.2	4.3	82	113	7.1	645
StDev	0.37	234	216	16	0.21	0.04	0.30	62	0.1	0.4	1.5	20	15	5.8	52
CV	0.04	0.11	0.14	0.26	0.30	0.58	0.32	0.12	0.18	0.35	0.34	0.25	0.13	0.82	0.08
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
MAP-MW8															
Max	8.40	1,023	700	55	--	0.04	--	--	--	--	--	--	--	--	--
Min	6.90	1,016	670	54	--	0.02	--	--	--	--	--	--	--	--	--
Rng	1.50	7	30	1.0	--	0.02	--	--	--	--	--	--	--	--	--
Med	7.65	1,020	685	54	--	0.03	--	--	--	--	--	--	--	--	--
Mean	7.65	1,020	685	54	--	0.03	--	--	--	--	--	--	--	--	--
StDev	1.06	5	21	0.71	--	0.01	--	--	--	--	--	--	--	--	--
CV	0.14	0.00	0.03	0.01	--	0.39	--	--	--	--	--	--	--	--	--
Count	2	2	2	2	--	2	--	--	--	--	--	--	--	--	--
CountND	0	0	0	0	--	0	--	--	--	--	--	--	--	--	--
MAP-MW10															
Max	7.73	1,945	1,100	70	0.00	0.08	1.1	170	2.5	15	190	41	98	2.5	470
Min	6.09	691	410	11	ND	ND	0.44	86	1.4	4.5	94	33	61	ND	170
Rng	1.64	1,254	690	59	0.00	0.08	0.66	84	1.1	10	96	8	37	2.5	300
Med	7.03	1,500	900	63	ND	0.03	0.75	140	1.9	13	160	37	73	0.2	460
Mean	7.02	1,464	868	58	Ins	0.04	0.76	131	1.9	10	152	37	78	0.7	370
StDev	0.35	244	169	13	Ins	0.02	0.23	31	0.3	4.6	34	2.9	13	0.8	122
CV	0.05	0.17	0.19	0.22	Ins	0.42	0.31	0.24	0.17	0.45	0.22	0.08	0.17	1.20	0.33
Count	25	25	25	25	7	25	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	6	9	0	0	0	0	0	0	0	2	0
ZON-MW1A															
Max	7.82	1,895	1,400	140	0.01	0.08	1.6	190	52	7.1	39	56	45	16	320
Min	6.23	308	220	6.4	ND	ND	0.93	63	13	6.2	30	10	21	8.6	75
Rng	1.59	1,587	1,180	134	0.01	0.08	0.67	127	39	0.9	9	46	24	7.4	245
Med	7.21	854	565	31	ND	0.04	0.98	122	24	6.45	36	38	40	13	200
Mean	7.10	895	681	44	0.01	0.04	1.1	124	28	6.6	35	36	36	13	199
StDev	0.45	448	368	37	0.01	0.01	0.32	70	18	0.4	4.7	20	11	3	108
CV	0.06	0.50	0.54	0.84	0.74	0.32	0.28	0.56	0.64	0.06	0.13	0.55	0.31	0.24	0.54
Count	20	19	20	20	4	20	4	4	4	4	4	4	4	4	4
CountND	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0
ZON-MW1C															
Max	7.42	1,536	720	29	ND	0.04	0.67	150	1.4	5.4	160	59	35	0.2	530
Min	6.72	1,047	640	8.4	ND	0.02	0.53	140	1.1	3.7	120	51	30	0	420
Rng	0.70	489	80	21	ND	0.01	0.14	10	0.3	1.7	40	8	5	0.1	110
Med	7.07	1,292	720	10	ND	0.04	0.60	145	1.25	4.55	140	55	32	0.1	475
Mean	7.07	1,292	693	16	Ins	0.03	0.60	145	1.2	4.6	140	55	32	0.1	475
StDev	0.49	346	46	11	Ins	0.01	0.10	7.1	0.2	1.2	28	5.7	3.5	0.1	78
CV	0.07	0.27	0.07	0.73	Ins	0.21	0.16	0.05	0.17	0.26	0.20	0.10	0.11	0.82	0.16
Count	2	2	3	3	2	3	2	2	2	2	2	2	2	2	2
CountND	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
ZON-MW2A															
Max	8.40	418	260	9.7	--	0.03	--	--	--	--	--	--	--	--	--
Min	7.72	418	250	9.7	--	0.02	--	--	--	--	--	--	--	--	--
Rng	0.68	Ins	10	0	--	0.01	--	--	--	--	--	--	--	--	--
Med	8.06	418	255	9.7	--	0.03	--	--	--	--	--	--	--	--	--
Mean	8.06	418	255	9.7	--	0.03	--	--	--	--	--	--	--	--	--
StDev	0.48	Ins	7	0	--	0.01	--	--	--	--	--	--	--	--	--
CV	0.06	Ins	0.03	0	--	0.36	--	--	--	--	--	--	--	--	--
Count	2	1	2	2	--	2	--	--	--	--	--	--	--	--	--
CountND	0	0	0	0	--	0	--	--	--	--	--	--	--	--	--
ZON-MW2B															
Max	8.98	1,257	1,600	110	1.7	2.9	62	270	50	22	170	97	340	130	220
Min	6.51	264	170	10	ND	ND	0.14	46	0.49	0.17	11	13	15	0.3	44
Rng	2.47	993	1,430	100	1.7	2.9	62	224	50	22	159	84	325	130	176
Med	8.10	429	280	16	0.01	0.02	0.45	63	0.8	0.25	17	16	36	1.5	76
Mean	8.04	475	411	23	0.35	0.27	13	104	11	4.6	47	32	88	27	105
StDev	0.74	277	391	26	0.68	0.76	28	94	22	9.7	69	37	141	57	75
CV	0.09	0.58	0.95	1.15	1.95	2.85	2.17	0.91	2.08	2.10	1.48	1.16	1.60	2.10	0.71
Count	13	12	13	13	5	13	5	5	5	5	5	5	5	5	5
CountND	0	0	0	0	2	5	0	0	0	0	0	0	0	0	0
ZON-MW3B															
Max	8.31	1,572	920	66	0.02	0.12	1.3	95	1.1	4.9	180	35	37	1.7	340
Min	6.24	689	600	43	ND	ND	0.78	73	0.89	3.6	130	21	31	ND	300
Rng	2.07	883	320	23	0.02	0.12	0.52	22	0.2	1.3	50	14	6	1.7	40
Med	6.87	1,188	760	51	ND	0.03	0.92	89	1	4.2	160	28	35	0.2	330
Mean	6.95	1,183	756	53	0.01	0.05	0.95	87	1	4.2	161	29	35	0.5	329
StDev	0.41	176	85	6.0	0.00	0.03	0.17	8	0.1	0.5	16	4.9	2.2	0.6	15
CV	0.06	0.15	0.11	0.11	0.24	0.56	0.18	0.09	0.10	0.11	0.10	0.17	0.06	1.18	0.04
Count	27	26	27	27	7	27	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	5	10	0	0	0	0	0	0	0	1	0
ZON-MW4B															
Max	7.98	1,520	920	64	0.14	0.07	1.4	180	1.8	2.9	150	38	40	1.1	350
Min	6.14	944	630	43	ND	ND	0.50	87	1.5	1.6	98	29	22	ND	270
Rng	1.84	576	290	21	0.14	0.07	0.90	93	0.3	1.3	52	9	18	1.1	80
Med	7.16	1,201	770	53	0.01	0.03	0.79	140	1.7	2.1	130	35	32	0.1	340
Mean	7.15	1,189	757	54	0.04	0.05	0.84	137	1.7	2.2	128	34	31	0.4	328
StDev	0.36	142	78	6.9	0.05	0.01	0.35	39	0.1	0.5	20	3.5	6.4	0.4	33
CV	0.05	0.12	0.10	0.13	1.19	0.28	0.42	0.29	0.07	0.22	0.16	0.10	0.20	1.06	0.10
Count	19	17	19	19	5	19	5	5	5	5	5	5	5	5	5
CountND	0	0	0	0	2	7	0	0	0	0	0	0	0	2	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
ZON-MW5A															
Max	8.09	1,093	650	40	ND	0.26	1.2	90	1.2	6.9	140	24	40	2.2	290
Min	6.28	748	490	1.2	ND	ND	0.63	77	1.1	3.3	89	16	33	1.9	240
Rng	1.81	345	160	39	ND	0.26	0.57	13	0.1	3.6	51	8	7	0.3	50
Med	7.72	842	600	30	ND	ND	0.84	79	1.1	5.7	100	24	37	2.1	250
Mean	7.50	875	589	25	Ins	0.10	0.89	82	1.1	5.3	110	21	37	2.1	260
StDev	0.57	111	54	14	Ins	0.09	0.29	7	0.1	1.8	27	4.6	3.5	0.2	26
CV	0.08	0.13	0.09	0.53	Ins	0.95	0.32	0.09	0.05	0.35	0.24	0.22	0.10	0.07	0.10
Count	8	8	8	8	3	8	3	3	3	3	3	3	3	3	3
CountND	0	0	0	0	3	4	0	0	0	0	0	0	0	0	0
ZON-MW5B															
Max	7.84	1,214	840	58	0.01	0.08	0.66	87	1.7	2.6	160	32	38	0.1	280
Min	6.71	856	440	25	ND	ND	0.47	78	1.4	2.4	95	17	31	ND	240
Rng	1.13	358	400	33	0.01	0.08	0.19	9	0.3	0.2	65	15	7	0.1	40
Med	7.10	1,055	735	55	ND	0.03	0.56	82	1.55	2.5	128	24	34	ND	260
Mean	7.05	1,059	698	52	Ins	0.04	0.56	82	1.5	2.5	128	24	34	--	260
StDev	0.33	117	108	9.7	Ins	0.02	0.13	6.4	0.2	0.1	46	11	4.9	Ins	28
CV	0.05	0.11	0.15	0.19	Ins	0.47	0.24	0.08	0.14	0.06	0.36	0.43	0.14	Ins	0.11
Count	10	9	10	10	2	10	2	2	2	2	2	2	2	2	2
CountND	0	0	0	0	1	3	0	0	0	0	0	0	0	1	0
RIC-MW1															
Max	8.27	2,116	1,200	0.11	0.01	0.30	0.39	350	3.4	17	100	140	260	1	510
Min	6.32	1,221	910	ND	ND	0.14	0.24	260	2.7	12	70	110	220	0.2	380
Rng	1.95	895	290	0.11	0.01	0.16	0.15	90	0.7	5	30	30	40	0.8	130
Med	7.47	1,684	1,100	ND	ND	0.20	0.29	280	3	13	81	130	250	0.7	450
Mean	7.48	1,663	1,047	0.06	Ins	0.21	0.31	290	3	14	83	127	247	0.7	444
StDev	0.35	182	72	0.02	Ins	0.04	0.07	31	0.2	2	11	14	14	0.3	44
CV	0.05	0.11	0.07	0.32	Ins	0.18	0.21	0.11	0.07	0.14	0.13	0.11	0.06	0.37	0.10
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	20	6	0	0	0	0	0	0	0	0	0	0
RIC-MW3															
Max	7.69	2,354	1,400	4.4	0.07	0.38	0.71	290	4	31	180	160	170	6.6	880
Min	6.22	1,286	800	ND	ND	0.18	0.53	230	3.5	22	110	120	140	0.5	660
Rng	1.47	1,068	600	4.4	0.07	0.20	0.18	60	0.5	9	70	40	30	6.1	220
Med	7.05	1,989	1,100	ND	ND	0.27	0.58	260	3.8	29	170	150	140	0.8	770
Mean	7.02	1,903	1,116	0.48	0.02	0.26	0.61	260	3.8	28	156	142	148	2.1	764
StDev	0.33	291	137	1.2	0.03	0.05	0.07	22	0.2	3.4	30	16	13	2.6	84
CV	0.05	0.15	0.12	2.41	1.42	0.19	0.12	0.09	0.05	0.12	0.20	0.12	0.09	1.22	0.11
Count	19	19	19	19	5	19	5	5	5	5	5	5	5	5	5
CountND	0	0	0	12	3	0	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
RIC-MW4															
Max	7.56	1,896	1,300	49	0.20	0.87	2.1	140	11	31	150	120	140	4.2	470
Min	6.49	986	600	0.11	0.03	0.03	0.74	120	6.4	23	130	92	120	1.9	300
Rng	1.07	910	700	49	0.17	0.84	1.4	20	4.6	8	20	28	20	2.3	170
Med	7.15	1,383	890	4.5	0.06	0.09	1.9	140	7.9	29	140	110	140	4	410
Mean	7.14	1,479	899	12	0.09	0.16	1.6	133	8.4	28	140	107	133	3.4	393
StDev	0.26	257	144	16	0.09	0.21	0.73	12	2.3	4.2	10	14	12	1.3	86
CV	0.04	0.17	0.16	1.29	0.97	1.28	0.46	0.09	0.28	0.15	0.07	0.13	0.09	0.38	0.22
Count	15	15	15	15	3	15	3	3	3	3	3	3	3	3	3
CountND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RIC-MW5															
Max	8.30	931	410	6.1	0.06	0.19	0.29	68	1.8	6.7	47	22	40	3.2	190
Min	6.88	365	210	0.16	ND	ND	ND	45	1.1	3.6	27	13	28	0.8	140
Rng	1.42	566	200	5.9	0.06	0.19	0.29	23	0.7	3.1	20	9	12	2.4	50
Med	7.67	457	300	0.56	0.01	0.06	0.12	52	1.4	5	37	19	32	1.3	150
Mean	7.62	532	298	1.1	0.03	0.07	0.17	55	1.5	5.2	38	19	34	1.7	164
StDev	0.33	191	51	1.4	0.02	0.04	0.07	11	0.3	1.2	7.5	3.8	5.1	0.9	24
CV	0.04	0.36	0.17	1.29	0.66	0.62	0.38	0.19	0.19	0.23	0.20	0.20	0.15	0.56	0.15
Count	21	20	21	21	5	21	5	5	5	5	5	5	5	5	5
CountND	0	0	0	0	2	4	1	0	0	0	0	0	0	0	0
RIC-MW6															
Max	7.39	863	490	23	0.49	0.06	0.65	49	13	9	66	41	56	1.7	140
Min	6.43	393	250	0.58	0.35	ND	0.53	44	8.2	5.4	46	25	42	1.1	140
Rng	0.96	470	240	22	0.14	0.06	0.12	5	4.8	3.6	20	16	14	0.6	0
Med	6.81	569	340	6.2	0.37	0.03	0.62	48	13	8.9	53	27	51	1.1	140
Mean	6.87	595	355	8.6	0.40	0.04	0.60	47	11	7.8	55	31	50	1.3	140
StDev	0.28	125	71	7.0	0.08	0.01	0.06	2.6	2.8	2.1	10	8.7	7.1	0.3	0
CV	0.04	0.21	0.20	0.81	0.19	0.39	0.10	0.06	0.24	0.26	0.18	0.28	0.14	0.27	0
Count	13	13	13	13	3	13	3	3	3	3	3	3	3	3	3
CountND	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
RIC-MW7															
Max	8.01	1,994	1,300	33	0.01	0.25	0.56	290	3.4	53	110	110	310	1.1	420
Min	6.80	1,034	690	ND	ND	ND	0.06	110	1.4	9.4	49	73	77	0.2	320
Rng	1.21	960	610	33	0.01	0.25	0.50	180	2	44	61	37	233	0.9	100
Med	7.36	1,429	880	0.10	ND	0.05	0.15	260	3.3	14	75	100	250	0.5	380
Mean	7.34	1,421	907	2.3	0.01	0.08	0.22	224	2.9	20	78	97	228	0.6	379
StDev	0.25	255	142	6.5	0.00	0.05	0.17	73	0.7	15	20	15	76	0.3	32
CV	0.03	0.18	0.16	2.91	0.39	0.62	0.77	0.32	0.25	0.76	0.25	0.15	0.33	0.54	0.08
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	10	5	7	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
RIC-MW8															
Max	11.81	1,545	1,200	0.11	0.00	0.18	0.34	190	5.5	11	58	69	150	1.7	320
Min	7.17	702	420	ND	ND	ND	0.08	150	3	0.98	2.5	43	97	0.2	192
Rng	4.64	843	780	0.11	0.00	0.18	0.26	40	2.5	10	56	26	53	1.5	128
Med	8.41	838	535	ND	ND	0.09	0.18	160	3.2	5.8	16	49	110	0.3	215
Mean	8.67	907	586	Ins	Ins	0.10	0.18	166	3.8	5.7	23	52	120	0.6	237
StDev	1.05	219	164	Ins	Ins	0.03	0.10	17	1	3.8	19	9.1	21	0.5	55
CV	0.12	0.24	0.28	Ins	Ins	0.33	0.53	0.10	0.25	0.66	0.85	0.17	0.17	0.95	0.23
Count	28	28	28	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	23	6	2	0	0	0	0	0	0	0	0	0
RIC-MW9															
Max	8.01	1,581	1,000	55	0.93	0.17	0.54	160	3.2	59	120	110	200	0.7	390
Min	6.58	958	530	0.04	ND	ND	ND	94	1.4	29	68	55	56	0.1	340
Rng	1.43	623	470	55	0.93	0.17	0.54	66	1.8	30	52	55	144	0.6	50
Med	7.20	1,128	770	24	0.01	0.04	0.38	110	1.5	50	98	69	75	0.4	380
Mean	7.25	1,212	795	26	0.15	0.05	0.33	114	1.8	47	95	77	87	0.4	370
StDev	0.31	200	136	17	0.32	0.03	0.16	22	0.6	11	18	21	51	0.2	20
CV	0.04	0.17	0.17	0.64	2.14	0.55	0.48	0.20	0.36	0.24	0.19	0.27	0.58	0.50	0.05
Count	28	28	27	28	7	28	7	7	7	7	7	7	7	7	7
CountND	0	0	0	0	3	12	1	0	0	0	0	0	0	0	0
SIE-MW1															
Max	7.74	1,950	800	63	0.02	0.08	2.0	92	1.8	26	130	21	53	5.7	310
Min	6.20	610	190	9.5	ND	ND	0.24	29	1.2	18	96	14	28	ND	210
Rng	1.54	1,340	610	54	0.02	0.08	1.8	63	0.6	8	34	7	25	5.7	100
Med	7.02	853	540	32	ND	0.02	0.45	43	1.65	20	100	16	35	1	250
Mean	7.08	951	554	34	Ins	0.04	0.71	52	1.6	21	105	17	37	2.1	257
StDev	0.29	306	133	11	Ins	0.02	0.66	27	0.3	2.9	13	2.6	8.6	2.1	43
CV	0.04	0.32	0.24	0.34	Ins	0.48	0.92	0.51	0.18	0.14	0.12	0.15	0.23	1.00	0.17
Count	27	27	27	27	6	27	6	6	6	6	6	6	6	6	6
CountND	0	0	0	0	5	12	0	0	0	0	0	0	0	1	0
SIE-MW3															
Max	7.90	1,943	840	81	0.02	0.06	3.1	47	4.1	43	110	26	52	49	250
Min	6.45	620	410	21	ND	ND	ND	31	2.2	22	73	11	33	0.2	210
Rng	1.45	1,323	430	60	0.02	0.06	3.1	16	1.9	21	37	15	19	49	40
Med	7.21	846	530	32	ND	0.02	0.18	40	3.1	30	82	19	40	0.7	250
Mean	7.20	952	550	37	0.01	0.03	0.79	40	3	31	89	19	40	12	238
StDev	0.30	290	106	17	0.01	0.01	1.2	6.2	0.8	8.5	16	5.9	7.4	21	18
CV	0.04	0.30	0.19	0.47	0.65	0.38	1.46	0.16	0.26	0.28	0.18	0.31	0.18	1.82	0.08
Count	22	22	22	22	5	22	5	5	5	5	5	5	5	5	5
CountND	0	0	0	0	3	9	2	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
SO2-MW1															
Max	8.20	913	410	3.1	--	0.02	--	--	--	--	--	--	--	--	--
Min	7.76	548	390	2.9	--	0.02	--	--	--	--	--	--	--	--	--
Rng	0.44	365	20	0.20	--	0	--	--	--	--	--	--	--	--	--
Med	7.98	730	400	3.0	--	0.02	--	--	--	--	--	--	--	--	--
Mean	7.98	730	400	3.0	--	0.02	--	--	--	--	--	--	--	--	--
StDev	0.31	258	14	0.14	--	0	--	--	--	--	--	--	--	--	--
CV	0.04	0.35	0.04	0.05	--	0	--	--	--	--	--	--	--	--	--
Count	2	2	2	2	--	2	--	--	--	--	--	--	--	--	--
CountND	0	0	0	0	--	0	--	--	--	--	--	--	--	--	--
SO2-MW2															
Max	6.93	2,355	1,900	110	--	0.05	--	--	--	--	--	--	--	--	--
Min	6.93	2,355	1,900	110	--	0.05	--	--	--	--	--	--	--	--	--
Rng	Ins	Ins	Ins	Ins	--	Ins	--	--	--	--	--	--	--	--	--
Med	6.93	2,355	1,900	110	--	0.05	--	--	--	--	--	--	--	--	--
Mean	6.93	2,355	1,900	110	--	0.05	--	--	--	--	--	--	--	--	--
StDev	Ins	Ins	Ins	Ins	--	Ins	--	--	--	--	--	--	--	--	--
CV	Ins	Ins	Ins	Ins	--	Ins	--	--	--	--	--	--	--	--	--
Count	1	1	1	1	--	1	--	--	--	--	--	--	--	--	--
CountND	0	0	0	0	--	0	--	--	--	--	--	--	--	--	--
SO2-MW4															
Max	7.70	1,815	1,200	53	--	0.03	--	--	--	--	--	--	--	--	--
Min	7.70	1,815	1,200	53	--	0.03	--	--	--	--	--	--	--	--	--
Rng	Ins	Ins	Ins	Ins	--	Ins	--	--	--	--	--	--	--	--	--
Med	7.70	1,815	1,200	53	--	0.03	--	--	--	--	--	--	--	--	--
Mean	7.70	1,815	1,200	53	--	0.03	--	--	--	--	--	--	--	--	--
StDev	Ins	Ins	Ins	Ins	--	Ins	--	--	--	--	--	--	--	--	--
CV	Ins	Ins	Ins	Ins	--	Ins	--	--	--	--	--	--	--	--	--
Count	1	1	1	1	--	1	--	--	--	--	--	--	--	--	--
CountND	0	0	0	0	--	0	--	--	--	--	--	--	--	--	--
SO2-MW5															
Max	8.03	2,084	1,600	50	0.01	0.06	0.71	180	4.8	51	200	220	180	0.7	430
Min	6.48	1,633	710	28	ND	ND	0.62	110	2.8	21	83	120	91	ND	150
Rng	1.55	451	890	22	0.01	0.06	0.09	70	2	30	117	100	89	0.7	280
Med	6.90	1,829	1,250	42	ND	0.03	0.70	160	4.25	45.5	165	195	145	0.2	350
Mean	6.95	1,881	1,176	41	Ins	0.04	0.68	152	4	41	153	182	140	0.3	320
StDev	0.37	130	217	6.3	Ins	0.01	0.04	31	0.9	14	51	48	39	0.2	126
CV	0.05	0.07	0.18	0.15	Ins	0.23	0.06	0.20	0.22	0.34	0.33	0.26	0.28	0.68	0.39
Count	13	13	14	14	4	14	4	4	4	4	4	4	4	4	4
CountND	0	0	0	0	3	6	0	0	0	0	0	0	0	1	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
SO2-MW6															
Max	8.05	2,018	1,200	45	0.00	0.08	0.77	150	5	51	200	200	100	9.6	450
Min	6.54	1,528	960	38	ND	ND	0.51	120	3.9	35	150	190	95	0.2	230
Rng	1.51	490	240	7.0	0.00	0.08	0.26	30	1.1	16	50	10	5	9.4	220
Med	6.88	1,764	1,100	42	ND	0.02	0.56	135	4.65	45	170	195	96	0.7	390
Mean	6.96	1,747	1,080	41	Ins	0.04	0.60	135	4.6	44	172	195	97	2.8	365
StDev	0.39	127	88	2.1	Ins	0.02	0.12	13	0.5	6.8	21	5.8	2.2	4.5	96
CV	0.06	0.07	0.08	0.05	Ins	0.43	0.19	0.10	0.11	0.16	0.12	0.03	0.02	1.60	0.26
Count	12	12	12	12	4	12	4	4	4	4	4	4	4	4	4
CountND	0	0	0	0	3	4	0	0	0	0	0	0	0	0	0
SO2-MW7															
Max	7.40	3,753	1,500	46	0.00	0.07	0.61	170	5	59	210	260	150	0.6	460
Min	6.70	1,824	1,100	40	ND	ND	0.51	140	4.6	54	190	230	130	ND	420
Rng	0.70	1,929	400	6.0	0.00	0.07	0.10	30	0.4	5	20	30	20	0.6	40
Med	7.05	2,062	1,300	44	ND	0.03	0.51	150	4.6	59	190	240	130	ND	430
Mean	7.05	2,218	1,280	44	Ins	0.04	0.54	153	4.7	57	197	243	137	--	437
StDev	0.21	558	103	2.5	Ins	0.01	0.06	15	0.2	2.9	12	15	12	Ins	21
CV	0.03	0.25	0.08	0.06	Ins	0.33	0.11	0.10	0.05	0.05	0.06	0.06	0.08	Ins	0.05
Count	10	10	10	10	3	10	3	3	3	3	3	3	3	3	3
CountND	0	0	0	0	2	3	0	0	0	0	0	0	0	2	0
SO2-MW8															
Max	9.58	2,940	2,200	160	0.04	0.21	1.5	150	12	90	220	180	120	2.7	450
Min	6.40	2,233	1,400	94	0.04	0.05	1.5	150	12	90	220	180	120	2.7	450
Rng	3.18	707	800	66	Ins	0.16	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
Med	6.58	2,518	1,850	115	0.04	0.07	1.5	150	12	90	220	180	120	2.7	450
Mean	7.05	2,587	1,817	122	0.04	0.10	1.5	150	12	90	220	180	120	2.7	450
StDev	1.24	270	264	24	Ins	0.07	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
CV	0.18	0.10	0.15	0.19	Ins	0.67	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins	Ins
Count	6	6	6	6	1	6	1	1	1	1	1	1	1	1	1
CountND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOJ-MW5															
Max	7.06	3,325	1,100	32	0.04	0.08	1.2	94	9.2	51	190	74	41	17	670
Min	6.31	1,011	280	1.1	ND	ND	0.45	88	5.3	44	150	65	31	0.2	510
Rng	0.75	2,314	820	31	0.04	0.08	0.75	6	3.9	7	40	9	10	17	160
Med	6.78	1,484	830	22	ND	0.02	1.1	92	6	47	160	67	40	5.1	510
Mean	6.75	1,622	829	22	Ins	0.04	0.92	91	6.8	47	167	69	37	7.4	563
StDev	0.22	610	223	9.6	Ins	0.02	0.41	3.1	2.1	3.5	21	4.7	5.5	8.6	92
CV	0.03	0.38	0.27	0.43	Ins	0.42	0.44	0.03	0.30	0.07	0.12	0.07	0.15	1.16	0.16
Count	10	11	11	11	3	11	3	3	3	3	3	3	3	3	3
CountND	0	0	0	0	2	5	0	0	0	0	0	0	0	0	0

Table 4-7
Summary Statistics of Groundwater Quality Data (2012-2019)

	pH	SC	TDS	NO3	NO2	NH3+ NH4	TKN	Na	K	Mg	Ca	Cl	SO4	PO4	Total Alkalinity
SOJ-MW6															
Max	7.65	2,603	1,200	62	0.00	0.06	0.31	52	3.5	17	79	8.3	28	2.2	290
Min	6.47	615	310	10	ND	ND	ND	41	3.1	15	73	7.6	25	0.3	260
Rng	1.18	1,988	890	52	0.00	0.06	0.31	11	0.4	2	6	0.7	3	1.9	30
Med	7.25	778	440	12	ND	0.04	0.11	51	3.2	16	75	8.1	26	0.8	260
Mean	7.22	1,073	524	18	Ins	0.04	0.18	48	3.3	16	76	8	26	1.1	270
StDev	0.38	688	273	15	Ins	0.01	0.09	6.1	0.2	1	3.1	0.4	1.5	1	17
CV	0.05	0.64	0.52	0.85	Ins	0.34	0.53	0.13	0.06	0.06	0.04	0.05	0.06	0.88	0.06
Count	11	11	11	11	3	11	3	3	3	3	3	3	3	3	3
CountND	0	0	0	0	2	3	1	0	0	0	0	0	0	0	0

Values in mg/L except pH in standard pH-units and specific conductance (SC) in microsiemens per centimeter. Nitrate, nitrite, ammoniacal-N, and total kjeldahl nitrogen are reported as nitrogen; sulfate is reported as sulfate; total phosphate is reported as phosphate; alkalinity is reported as CaCO3.

Max = Maximum value over period of record
Min = Minimum value over period of record
Rng = Range of values over period of record
Med = Median of values over period of record
Mean = Mean of values over period of record
StDev = Standard Deviation of values over period of record
CV = Coefficient of Variation of values over period of record
Count = Count of values over period of record
CountND = Count of Non-detects
ND = Non-detected in laboratory analysis
Ins = Insufficient data to calculate statistical summary
-- = No data

For purposes of calculating the mean and standard deviation for those datasets (Total Phosphate, Ammonia as N, Total Kjeldahl Nitrogen and Nitrate as N) that included censored data (i.e., non-detects), two different statistical tests were used. For datasets with =<50% non-detected, the Kaplan Meier method was used. For datasets with non-detect percentage >50% and <=80%, the Robust ROS (Regression on Order Statistics) method was used. It assumes that detected data has a lognormal distribution and non-detects follow the same distribution. For those datasets with >80% non-detected, mean and standard deviation statistics were not calculated due to the insufficient detected results. For the computation of summary statistics, J-flagged values were treated the same as non-J-flagged numerical values.

Table 4-8
Ordinary Least Squares Regression Statistics (2012Q1 - 2019Q3)

	Total Nitrogen					Total Dissolved Solids				
Well ID	Intercept	Slope	n	r^2	p	Intercept	Slope	n	r^2	p
MEN-MW1	72.4	0.002	31	0.00	0.77	3430	0.261	31	0.14	0.04
MEN-MW2	-2.3	0.021	31	0.49	0.00	2492	0.269	31	0.25	0.00
MEN-MW3	62.9	0.020	31	0.46	0.00	1760	0.294	31	0.55	0.00
MEN-MW4	47.9	0.028	31	0.78	0.00	1162	0.506	31	0.74	0.00
MEN-MW5	53.0	0.002	31	0.03	0.38	1111	0.227	31	0.15	0.03
MEN-MW6	38.0	-0.005	31	0.40	0.00	1775	-0.150	31	0.23	0.01
MEN-MW7	54.2	0.007	31	0.27	0.00	1496	-0.029	31	0.02	0.44
MEN-MW8	64.2	-0.019	20	0.22	0.04	1805	0.036	20	0.00	0.82
ANC-MW1	9.4	-0.004	31	0.62	0.00	1040	0.231	31	0.62	0.00
ANC-MW2	13.8	0.013	31	0.77	0.00	1431	0.203	31	0.67	0.00
ANC-MW3	59.1	-0.011	31	0.55	0.00	1393	-0.163	31	0.41	0.00
ANC-MW4	30.8	0.005	31	0.11	0.07	753	0.055	31	0.05	0.25
ANC-MW5	12.4	-0.001	31	0.06	0.19	2368	-0.166	30	0.16	0.03
ANC-MW6	29.5	0.012	31	0.16	0.02	1086	0.215	31	0.24	0.01
ANC-MW7	32.0	-0.005	31	0.26	0.00	870	0.008	31	0.00	0.72
BET-MW1	9.0	0.028	31	0.52	0.00	304	0.209	31	0.56	0.00
BET-MW2	40.3	-0.008	31	0.30	0.00	323	0.307	31	0.57	0.00
BET-MW3	51.5	-0.005	31	0.05	0.23	513	0.164	31	0.20	0.01
BET-MW4	37.3	0.006	31	0.14	0.04	823	0.391	31	0.25	0.00
BET-MW5	55.0	0.000	31	0.00	0.96	757	-0.024	31	0.02	0.43
BET-MW6	21.6	0.007	31	0.38	0.00	419	0.035	31	0.18	0.02
BET-MW7	24.8	0.007	31	0.20	0.01	362	0.080	31	0.26	0.00
BET-MW8	26.5	0.002	31	0.05	0.22	437	0.003	31	0.00	0.83
DIE-MW1	57.8	0.016	20	0.85	0.00	809	0.185	20	0.53	0.00
DIE-MW2	12.5	0.001	16	0.46	0.00	667	-0.034	16	0.25	0.05
DIE-MW3	16.1	0.006	16	0.53	0.00	823	0.025	16	0.05	0.40
DIE-MW4	6.1	0.010	16	0.32	0.02	733	0.018	16	0.03	0.51
DUR-MW1	97.4	0.003	27	0.02	0.45	1495	0.003	27	0.00	0.94
DUR-MW2	281.8	-0.058	27	0.24	0.01	2495	-0.110	27	0.05	0.27
DUR-MW3	103.6	-0.006	27	0.01	0.57	2168	-0.070	27	0.02	0.44
DUR-MW4	111.5	0.041	27	0.17	0.04	2729	0.010	27	0.00	0.94
DUR-MW6	46.5	0.011	27	0.26	0.01	897	0.168	27	0.29	0.00
DUR-MW7	124.6	0.008	27	0.05	0.27	2088	0.149	27	0.16	0.04
DUR-MW8	17.2	0.006	27	0.05	0.26	558	0.073	27	0.14	0.06
DUR-MW9	41.8	-0.014	27	0.78	0.00	735	-0.049	27	0.17	0.03
DUR-MW10	49.2	0.000	27	0.00	0.98	2369	0.556	27	0.05	0.28
FG1-MW1	5.8	-0.001	31	0.03	0.35	744	0.290	31	0.38	0.00
FG1-MW2	33.1	0.005	31	0.10	0.08	594	0.262	31	0.21	0.01
FG1-MW3	12.8	-0.001	31	0.01	0.64	1260	-0.064	31	0.17	0.02
FG1-MW4	-2.5	0.043	31	0.58	0.00	164	0.650	31	0.73	0.00
FG1-MW5	23.1	-0.001	30	0.02	0.42	417	0.308	30	0.57	0.00

Table 4-8
Ordinary Least Squares Regression Statistics (2012Q1 - 2019Q3)

	Total Nitrogen					Total Dissolved Solids				
Well ID	Intercept	Slope	n	r^2	p	Intercept	Slope	n	r^2	p
FG1-MW6	12.5	0.009	31	0.59	0.00	367	0.176	31	0.36	0.00
FG1-MW7	23.6	0.005	31	0.31	0.00	522	0.094	31	0.16	0.03
FG1-MW8	2.8	0.002	31	0.04	0.27	607	0.050	31	0.26	0.00
FG1-MW9	6.3	0.003	31	0.02	0.49	518	0.044	31	0.00	0.71
BEA-MW1	65.3	-0.021	26	0.40	0.00	1982	-0.545	26	0.64	0.00
BEA-MW2	6.0	0.004	29	0.10	0.09	454	0.046	28	0.05	0.25
BEA-MW3	175.5	-0.022	17	0.28	0.03	3138	-0.279	17	0.44	0.00
BEA-MW4	12.7	-0.002	31	0.14	0.04	1118	-0.156	30	0.28	0.00
COT-MW1	28.0	0.006	16	0.47	0.00	653	0.271	16	0.81	0.00
COT-MW2	75.5	0.019	5	0.49	0.19	1788	-0.028	5	0.02	0.84
COT-MW3	81.0	-0.038	7	0.61	0.04	1819	-0.231	7	0.79	0.01
COT-MW4	12.9	0.054	5	0.34	0.30	1127	0.305	5	0.48	0.20
COT-MW5	97.1	-0.002	6	0.01	0.85	1811	0.077	6	0.03	0.74
COT-MW6	122.7	-0.027	6	0.81	0.01	2047	-0.047	6	0.03	0.75
COT-MW7	67.1	-0.012	21	0.29	0.01	1195	0.031	21	0.03	0.43
COT-MW8	76.7	-0.045	13	0.54	0.00	1130	-0.345	13	0.41	0.02
COT-MW9	23.6	0.013	30	0.38	0.00	1058	0.098	30	0.31	0.00
COT-MW10	24.4	0.004	28	0.03	0.35	963	0.168	28	0.18	0.02
COT-MW11	94.5	-0.030	31	0.42	0.00	1529	-0.346	31	0.55	0.00
COT-MW12	51.8	0.008	31	0.16	0.03	901	0.107	31	0.57	0.00
COT-MW13	68.6	-0.003	31	0.01	0.58	1435	-0.171	31	0.42	0.00
COT-MW14	33.7	0.028	31	0.72	0.00	809	0.331	31	0.79	0.00
SAN-MW1	47.4	-0.004	28	0.31	0.00	1659	-0.140	28	0.36	0.00
SAN-MW2	27.6	0.033	9	0.89	0.00	1197	-0.068	9	0.16	0.29
SAN-MW3	73.8	-0.007	9	0.61	0.01	1179	-0.002	9	0.00	0.97
SAN-MW4	84.4	-0.010	30	0.31	0.00	1241	0.013	30	0.00	0.76
SAN-MW5	51.0	0.000	28	0.00	0.90	1309	-0.086	28	0.28	0.00
SAN-MW6	37.8	0.007	31	0.22	0.01	1250	0.076	31	0.08	0.12
SAN-MW7	37.3	-0.004	31	0.20	0.01	1217	-0.112	31	0.35	0.00
SAN-MW8	24.7	0.004	31	0.08	0.12	1057	-0.012	31	0.01	0.68
GEN-MW1	49.3	-0.020	27	0.57	0.00	1591	0.068	27	0.08	0.15
GEN-MW2	56.1	0.000	27	0.00	0.92	1304	0.081	27	0.22	0.01
GEN-MW3	47.3	0.115	27	0.23	0.01	3130	0.867	27	0.28	0.00
GEN-MW5	85.3	0.037	27	0.43	0.00	1614	0.100	27	0.07	0.17
GEN-MW6	79.5	-0.012	27	0.09	0.12	1103	-0.122	27	0.10	0.11
GEN-MW7	19.3	0.007	27	0.27	0.01	584	0.040	27	0.08	0.15
GEN-MW8	64.0	-0.003	27	0.01	0.68	933	0.625	27	0.87	0.00
GEN-MW9	89.7	0.006	27	0.03	0.41	1341	0.076	27	0.03	0.40
GEN-MW10	20.0	0.009	27	0.33	0.00	1007	0.227	27	0.59	0.00
GEN-MW11	146.3	-0.013	27	0.10	0.11	1905	-0.183	27	0.14	0.06
GEN-MW12	72.2	-0.003	27	0.02	0.53	1045	0.008	27	0.00	0.78

Table 4-8
Ordinary Least Squares Regression Statistics (2012Q1 - 2019Q3)

	Total Nitrogen					Total Dissolved Solids				
Well ID	Intercept	Slope	n	r^2	p	Intercept	Slope	n	r^2	p
TRO-MW1	7.3	0.002	14	0.59	0.00	686	0.004	14	0.00	0.87
TRO-MW2	53.0	0.015	27	0.69	0.00	837	0.202	27	0.62	0.00
TRO-MW3	8.4	0.015	27	0.28	0.00	417	0.160	27	0.22	0.01
PLS-MW1	53.5	0.016	31	0.22	0.01	1316	0.075	31	0.05	0.23
PLS-MW2	61.3	-0.001	31	0.00	0.71	1433	0.007	31	0.00	0.91
PLS-MW3	44.2	0.005	31	0.09	0.10	831	0.266	31	0.43	0.00
PLS-MW4	132.8	-0.044	31	0.84	0.00	3452	-0.552	31	0.56	0.00
PLS-MW5	63.6	0.000	31	0.00	0.94	1283	-0.002	31	0.00	0.95
PLS-MW6	59.2	-0.009	31	0.71	0.00	1508	-0.001	31	0.00	0.98
PLS-MW7	56.7	0.015	31	0.19	0.01	1374	0.079	31	0.05	0.23
CAE-MW1	130.0	0.010	31	0.05	0.25	1662	-0.060	31	0.04	0.31
CAE-MW2	94.7	-0.021	31	0.45	0.00	1727	-0.399	31	0.63	0.00
CAE-MW3	94.6	-0.015	31	0.34	0.00	1948	-0.251	31	0.23	0.01
CAE-MW4	73.5	0.031	31	0.58	0.00	929	0.317	31	0.45	0.00
CAE-MW5	41.8	0.006	31	0.22	0.01	810	-0.012	31	0.01	0.62
CAE-MW6	23.3	0.024	31	0.51	0.00	1209	0.069	31	0.04	0.27
ROB-MW1	33.4	0.041	27	0.71	0.00	1646	0.204	27	0.10	0.10
ROB-MW2	59.7	0.037	27	0.43	0.00	1606	0.223	27	0.33	0.00
ROB-MW3	15.4	0.016	31	0.55	0.00	1064	0.148	31	0.25	0.00
ROB-MW4	56.4	-0.007	31	0.11	0.07	1571	-0.092	31	0.06	0.18
ROB-MW5	73.1	0.003	27	0.06	0.20	1646	0.105	27	0.17	0.03
ROB-MW6	55.8	0.019	31	0.11	0.07	1315	0.375	31	0.12	0.05
ROB-MW7	50.4	0.010	31	0.21	0.01	930	0.094	31	0.11	0.07
ROB-MW8	47.1	0.006	31	0.12	0.06	1367	0.010	31	0.00	0.74
WOO-MW1	11.8	0.013	27	0.50	0.00	893	0.030	27	0.04	0.33
WOO-MW2	19.6	0.001	27	0.01	0.72	717	0.000	27	0.00	1.00
WOO-MW3	56.6	-0.003	27	0.07	0.19	1000	-0.010	27	0.00	0.76
ANT-MW1	15.7	0.021	24	0.50	0.00	1085	0.128	24	0.35	0.00
ANT-MW2	40.8	-0.002	30	0.01	0.70	1445	-0.082	30	0.04	0.29
ANT-MW3	15.1	0.013	31	0.54	0.00	955	0.149	31	0.55	0.00
ANT-MW4	21.8	0.000	28	0.00	0.95	1195	0.011	28	0.00	0.81
ANT-MW5	21.1	0.003	30	0.05	0.24	1041	0.067	30	0.06	0.19
ANT-MW6	20.2	0.004	31	0.15	0.03	1080	0.024	31	0.01	0.55
COR-MW1	-13.4	0.025	31	0.65	0.00	1885	0.318	31	0.41	0.00
COR-MW2	5.6	0.001	30	0.01	0.53	813	0.240	30	0.46	0.00
COR-MW3	0.4	0.003	31	0.34	0.00	964	0.180	31	0.35	0.00
COR-MW4	1.7	0.004	31	0.17	0.02	1095	0.119	31	0.27	0.00
COR-MW5	3.3	0.003	31	0.07	0.14	1074	0.489	31	0.36	0.00
FG2-MW1	4.7	-0.002	31	0.27	0.00	4826	0.027	31	0.00	0.93
FG2-MW2	8.1	0.001	31	0.07	0.15	2638	-0.229	31	0.40	0.00
FG2-MW3	11.5	-0.002	31	0.45	0.00	4657	-0.256	31	0.44	0.00

Table 4-8
Ordinary Least Squares Regression Statistics (2012Q1 - 2019Q3)

	Total Nitrogen					Total Dissolved Solids				
Well ID	Intercept	Slope	n	r^2	p	Intercept	Slope	n	r^2	p
FG2-MW4	26.0	-0.003	31	0.19	0.01	3044	-0.156	31	0.31	0.00
FG2-MW5	18.7	-0.006	31	0.71	0.00	2938	-0.245	31	0.35	0.00
GOD-MW1	-0.9	0.005	31	0.62	0.00	2111	-0.160	31	0.61	0.00
GOD-MW2	17.6	0.008	31	0.80	0.00	2236	-0.010	31	0.00	0.76
GOD-MW3	23.0	0.000	31	0.00	0.93	844	0.146	31	0.34	0.00
GOD-MW4	22.6	-0.001	31	0.06	0.19	1971	0.380	31	0.81	0.00
GOD-MW5	3.8	0.003	31	0.55	0.00	1216	0.107	31	0.20	0.01
GOD-MW6	5.4	0.017	31	0.74	0.00	2805	-0.006	31	0.00	0.93
GOD-MW7	1.9	0.000	31	0.15	0.03	2815	-0.172	31	0.21	0.01
MAC-MW1	14.8	0.003	31	0.42	0.00	1595	0.083	31	0.36	0.00
MAC-MW2	20.6	0.007	31	0.21	0.01	1718	0.119	31	0.34	0.00
MAC-MW3	54.9	-0.003	31	0.01	0.57	9291	-0.930	31	0.21	0.01
MAC-MW4	12.4	0.002	31	0.31	0.00	2712	0.144	31	0.28	0.00
MAC-MW5	20.4	0.000	31	0.02	0.44	2985	0.002	31	0.00	0.95
NUN-MW1	1.4	0.000	31	0.10	0.08	5287	-0.109	31	0.02	0.46
NUN-MW2	1.3	0.002	31	0.19	0.01	2885	-0.065	31	0.11	0.07
NUN-MW3	13.5	-0.001	31	0.00	0.71	5156	0.031	31	0.01	0.70
NUN-MW4	2.9	0.001	31	0.02	0.49	9290	0.000	31	0.00	1.00
NUN-MW5	0.0	0.000	20	0.07	0.25	6325	0.261	20	0.12	0.13
MOO-MW1	8.8	-0.003	31	0.42	0.00	1784	-0.066	31	0.24	0.00
MOO-MW2	37.0	-0.007	31	0.48	0.00	2191	-0.071	31	0.12	0.05
MOO-MW3	12.6	-0.004	31	0.71	0.00	1465	-0.032	31	0.06	0.18
MOO-MW4	12.7	-0.002	31	0.11	0.07	1614	-0.105	31	0.29	0.00
MOO-MW5	17.3	0.000	31	0.00	0.99	1361	0.087	31	0.41	0.00
MOO-MW6	9.0	-0.003	31	0.23	0.01	1374	0.041	31	0.03	0.35
MOO-MW7	41.4	-0.006	31	0.23	0.01	1920	0.061	30	0.03	0.34
MOO-MW8	28.2	-0.004	31	0.06	0.18	1636	-0.073	31	0.01	0.52
TON-MW1	66.8	0.000	31	0.00	0.95	2047	-0.071	31	0.20	0.01
TON-MW2	29.3	-0.001	31	0.00	0.75	3009	0.000	31	0.00	1.00
TON-MW3	30.2	-0.001	31	0.01	0.62	1482	0.451	31	0.32	0.00
TON-MW4	47.5	-0.003	31	0.11	0.07	2156	0.013	31	0.00	0.80
TON-MW5	61.5	0.001	31	0.00	0.75	1951	0.030	31	0.03	0.34
TON-MW6	8.6	0.005	31	0.12	0.06	1605	0.133	31	0.15	0.03
TON-MW7	0.8	0.000	31	0.01	0.66	716	0.098	31	0.47	0.00
TON-MW8	16.3	0.007	31	0.53	0.00	3534	-0.135	31	0.03	0.33
BRE-MW1	7.7	-0.001	25	0.03	0.42	219	0.032	25	0.26	0.01
BRE-MW2	2.8	0.000	26	0.02	0.46	231	0.002	26	0.00	0.79
BRE-MW3	3.1	0.000	27	0.01	0.60	198	0.005	27	0.04	0.29
CRE-MW1	-16.4	0.021	27	0.56	0.00	369	0.248	27	0.71	0.00
CRE-MW2	13.4	0.002	27	0.28	0.00	421	0.068	27	0.53	0.00
CRE-MW3	0.2	0.001	25	0.15	0.06	986	-0.058	25	0.08	0.18

Table 4-8
Ordinary Least Squares Regression Statistics (2012Q1 - 2019Q3)

	Total Nitrogen					Total Dissolved Solids				
Well ID	Intercept	Slope	n	r^2	p	Intercept	Slope	n	r^2	p
MTS-MW1	15.6	0.005	27	0.09	0.14	472	0.017	27	0.03	0.40
MTS-MW2	25.5	0.002	14	0.01	0.71	516	0.017	14	0.02	0.65
MTS-MW3	32.1	0.001	22	0.02	0.53	483	0.035	22	0.27	0.01
AUK-MW1	41.1	0.007	24	0.66	0.00	1345	-0.059	24	0.22	0.02
AUK-MW2	14.6	0.018	27	0.48	0.00	889	0.129	27	0.21	0.02
AUK-MW3	33.5	0.006	27	0.36	0.00	1266	-0.067	27	0.17	0.03
DLF-MW2	N/A	N/A	1	N/A	N/A	N/A	N/A	1	N/A	N/A
DLF-MW4A	N/A	N/A	1	N/A	N/A	N/A	N/A	1	N/A	N/A
DLF-MW4C	8.2	0.001	7	0.39	0.13	500	-0.154	7	0.57	0.05
DLF-MW5A	N/A	N/A	1	N/A	N/A	N/A	N/A	1	N/A	N/A
DLF-MW5B	10.5	0.003	2	1.00	0.00	371	0.021	2	1.00	N/A
DLF-MW5C	12.1	0.002	5	0.13	0.55	329	0.130	5	0.35	0.29
DLF-MW6A	-336.1	0.187	2	1.00	0.00	-3777	2.198	2	1.00	N/A
DLF-MW6B	48.0	0.005	15	0.12	0.20	801	0.017	15	0.01	0.79
DLF-MW6C	50.4	0.002	8	0.01	0.85	873	-0.043	8	0.02	0.73
DLF-MW6D	N/A	N/A	1	N/A	N/A	N/A	N/A	1	N/A	N/A
ELK-MW1	70.2	-0.017	4	0.59	0.23	1417	-0.236	4	0.56	0.25
ELK-MW2B	39.7	0.026	4	0.22	0.53	1199	-0.233	4	0.06	0.75
ELK-MW3B	12.8	0.000	2	1.00	0.00	409	1.786	2	1.00	N/A
ZZI-MW1A	-25.6	0.068	3	0.61	0.43	-391	2.129	3	0.69	0.37
ZZI-MW1C	4.7	-0.001	13	0.05	0.48	319	0.009	13	0.00	0.87
ZZI-MW1D	-0.1	0.001	4	0.76	0.13	240	0.017	4	0.11	0.67
ZZI-MW2A	21.5	0.004	13	0.05	0.48	1169	0.310	13	0.24	0.09
ZZI-MW2C	8.3	-0.003	11	0.61	0.00	637	-0.115	11	0.33	0.07
ZZI-MW2D	59.8	-0.022	3	0.97	0.11	404	-0.056	3	0.60	0.44
ZZI-MW3A	179.8	0.071	5	0.16	0.50	1432	0.764	5	0.43	0.23
ZZI-MW3B	12.2	-0.002	19	0.06	0.30	821	-0.144	19	0.52	0.00
ZZI-MW5C	75.2	-0.014	6	0.86	0.01	1517	-0.197	6	0.98	0.00
ZZI-MW5D	66.5	-0.011	16	0.30	0.03	1305	-0.104	16	0.35	0.02
ZZI-MW6C	N/A	N/A	1	N/A	N/A	N/A	N/A	1	N/A	N/A
ZZI-MW6D	2.8	0.015	21	0.84	0.00	1058	0.071	21	0.23	0.03
ZZI-MW7B	7.3	0.017	2	1.00	0.00	1896	-1.786	2	1.00	0.00
ZZI-MW7C	16.3	-0.003	16	0.42	0.01	1157	-0.103	16	0.51	0.00
ZZI-MW7D	12.2	0.001	8	0.01	0.82	1333	-0.222	8	0.53	0.04
ZZI-MW9C	16.8	-0.001	11	0.00	0.90	582	-0.022	11	0.01	0.82
ZZI-MW9D	6.2	-0.001	15	0.07	0.34	281	-0.014	15	0.01	0.69
HOL-MW1	12.6	-0.002	8	0.32	0.15	556	-0.098	8	0.59	0.03
HOL-MW2	17.4	-0.001	6	0.02	0.81	752	-0.137	6	0.15	0.45
HOL-MW3	34.4	-0.014	4	0.94	0.03	1093	-0.378	4	0.87	0.07
HYN-MW3	N/A	N/A	1	N/A	N/A	N/A	N/A	1	N/A	N/A
HYN-MW4	N/A	N/A	1	N/A	N/A	N/A	N/A	1	N/A	N/A

Table 4-8
Ordinary Least Squares Regression Statistics (2012Q1 - 2019Q3)

	Total Nitrogen					Total Dissolved Solids				
Well ID	Intercept	Slope	n	r^2	p	Intercept	Slope	n	r^2	p
HYN-MW5	2.9	0.000	2	1.00	0.00	-1131	3.036	2	1.00	N/A
JAD-MW1	52.7	-0.041	4	0.15	0.62	830	-0.067	4	0.01	0.91
JAD-MW2	79.0	-0.054	2	1.00	0.00	911	0.179	2	1.00	N/A
JAD-MW3	34.5	-0.004	10	0.09	0.40	814	-0.058	10	0.23	0.16
JAD-MW4	10.9	0.000	18	0.01	0.66	597	-0.045	18	0.11	0.19
JAD-MW5	16.8	-0.002	12	0.21	0.13	787	-0.122	12	0.35	0.04
JAD-MW6	33.1	-0.003	23	0.11	0.13	857	-0.054	23	0.06	0.27
JAD-MW7	8.2	0.020	5	0.92	0.01	1094	-0.210	5	0.64	0.10
LON-MW1B	23.2	0.001	7	0.00	0.89	755	-0.080	7	0.11	0.47
LON-MW1C	21.5	-0.004	20	0.34	0.01	726	-0.093	20	0.40	0.00
LON-MW2B	-4.4	0.014	4	0.95	0.03	1734	-0.802	4	0.96	0.02
LON-MW2C	11.2	-0.001	19	0.02	0.56	1036	-0.114	19	0.49	0.00
LON-MW3B	2.4	0.004	24	0.72	0.00	537	0.177	24	0.71	0.00
LON-MW3C	6.9	0.002	2	1.00	N/A	430	0.253	2	1.00	N/A
LON-MW4B	77.7	-0.048	4	0.96	0.02	1309	-0.099	4	0.07	0.73
LON-MW4C	49.1	0.001	19	0.03	0.47	1382	0.068	19	0.09	0.22
LON-MW4D	62.9	-0.005	3	0.72	0.36	2095	-0.245	3	0.31	0.63
LON-MW5B	N/A	N/A	1	N/A	N/A	N/A	N/A	1	N/A	N/A
LON-MW5C	29.2	0.003	15	0.26	0.05	1389	-0.076	15	0.07	0.35
LON-MW6B	N/A	N/A	1	N/A	N/A	N/A	N/A	1	N/A	N/A
LON-MW6C	17.3	0.001	13	0.01	0.80	1187	-0.104	13	0.23	0.10
LON-MW7A	2912.0	-1.495	2	1.00	N/A	-3052	3.297	2	1.00	N/A
LON-MW7C	178.4	-0.082	2	1.00	0.00	5263	-1.923	2	1.00	0.00
LON-MW7D	68.9	-0.011	18	0.51	0.00	1384	0.047	18	0.04	0.41
ADO-MW1	17.7	0.001	22	0.04	0.38	674	0.028	22	0.05	0.31
ADO-MW2	16.9	-0.002	22	0.25	0.02	703	-0.042	22	0.15	0.08
MAL-MW1	23.7	0.005	27	0.23	0.01	759	0.505	27	0.67	0.00
MAL-MW2	-41.1	0.073	27	0.98	0.00	1192	0.490	27	0.87	0.00
MAL-MW3	55.5	-0.012	24	0.15	0.06	1988	0.926	24	0.76	0.00
MAL-MW4	1.3	0.015	24	0.15	0.07	1271	0.451	24	0.66	0.00
MAL-MW5	31.5	0.091	27	0.79	0.00	2474	0.873	27	0.72	0.00
MAL-MW6	72.6	0.001	27	0.01	0.70	1086	0.718	27	0.29	0.00
MAL-MW7	76.4	0.006	26	0.01	0.64	2779	-0.084	26	0.01	0.70
MAL-MW8	41.1	0.014	27	0.39	0.00	1130	0.270	27	0.80	0.00
MAP-MW10	71.0	-0.008	24	0.39	0.00	1071	-0.122	24	0.37	0.00
MAP-MW8	62.8	-0.018	2	1.00	0.00	432	0.536	2	1.00	N/A
ZON-MW1A	75.9	-0.023	20	0.16	0.09	1114	-0.313	20	0.28	0.02
ZON-MW1C	-13.6	0.018	3	0.86	0.24	666	0.016	3	0.05	0.86
ZON-MW2A	9.8	0.000	2	1.00	0.00	171	0.179	2	1.00	N/A
ZON-MW2B	32.0	-0.005	12	0.02	0.66	380	0.024	12	0.00	0.88
ZON-MW3B	59.3	-0.004	27	0.24	0.01	830	-0.046	27	0.15	0.04

Table 4-8
Ordinary Least Squares Regression Statistics (2012Q1 - 2019Q3)

	Total Nitrogen					Total Dissolved Solids				
Well ID	Intercept	Slope	n	r^2	p	Intercept	Slope	n	r^2	p
ZON-MW4B	53.3	0.000	19	0.00	0.88	762	-0.004	19	0.00	0.90
ZON-MW5A	66.1	-0.027	8	0.64	0.02	727	-0.090	8	0.47	0.06
ZON-MW5B	62.3	-0.010	10	0.48	0.03	806	-0.100	10	0.40	0.05
RIC-MW1	0.2	0.000	27	0.07	0.18	1021	0.020	27	0.04	0.30
RIC-MW3	-0.5	0.001	19	0.20	0.05	1188	-0.045	19	0.06	0.32
RIC-MW4	29.5	-0.014	14	0.37	0.02	748	0.126	14	0.38	0.02
RIC-MW5	-0.2	0.001	20	0.17	0.07	242	0.034	20	0.26	0.02
RIC-MW6	11.8	-0.003	13	0.06	0.41	392	-0.035	13	0.08	0.35
RIC-MW7	2.1	0.000	27	0.00	0.92	892	0.005	27	0.00	0.90
RIC-MW8	0.1	0.000	27	0.02	0.50	329	0.154	27	0.51	0.00
RIC-MW9	0.3	0.016	27	0.55	0.00	604	0.124	26	0.44	0.00
SIE-MW1	49.7	-0.010	26	0.36	0.00	738	-0.112	26	0.34	0.00
SIE-MW3	59.2	-0.012	21	0.24	0.02	655	-0.056	21	0.14	0.10
SO2-MW1	4.7	-0.004	2	1.00	0.00	568	-0.357	2	1.00	0.00
SO2-MW2	N/A	N/A	1	N/A	N/A	N/A	N/A	1	N/A	N/A
SO2-MW4	N/A	N/A	1	N/A	N/A	N/A	N/A	1	N/A	N/A
SO2-MW5	53.3	-0.012	14	0.49	0.01	1574	-0.395	14	0.47	0.01
SO2-MW6	39.7	0.002	12	0.08	0.36	1224	-0.156	12	0.36	0.04
SO2-MW7	47.0	-0.004	10	0.17	0.24	1439	-0.193	10	0.26	0.13
SO2-MW8	78.9	0.067	6	0.22	0.35	1371	0.690	6	0.19	0.39
SOJ-MW5	30.3	-0.008	11	0.20	0.17	1222	-0.408	11	0.90	0.00
SOJ-MW6	-3.3	0.022	11	0.56	0.01	276	0.257	11	0.24	0.13

Map Series

Dairy Production Area

Central Area | East Side:	MEN, ANC, BET, DIE, DUR, FG1, BEA, COT, SAN, GEN, TRO, PLS, CAE, ROB, WOO
Central Area | West Side:	ANT, COR, FG2, GOD, MAC, NUN, MOO, TON
North Area:	BRE, CRE, MTS
South Area:	AUK, DLF, ELK, ZZI, HOL, HYN, JAD, LON, ADO, MAL, MAP, ZON, RIC, SIE, SO2, SOJ

Dairy Production Area and Associated Fields

Central Area | East Side:	MEN, ANC, BET, DIE, DUR, FG1, COT, SAN, GEN, TRO, PLS, CAE, ROB, WOO
Central Area | West Side:	ANT, FG2, GOD, MAC and NUN, MOO, TON
North Area:	BRE, CRE, MTS
South Area:	AUK, DLF, ELK, ZZI, HOL, HYN, JAD, LON, MAL, MAP and ZON, RIC, SIE, SO2, SOJ

Soil Characteristics (NRCS – SSURGO) of Dairy Production Area and Associated Fields

Central Area | East Side:	MEN, ANC, BET, DIE, DUR, FG1, BEA, COT, SAN, GEN, TRO, PLS, CAE, ROB, WOO
Central Area | West Side:	ANT, COR, FG2, GOD, MAC and NUN, MOO, TON
North Area:	BRE, CRE, MTS
South Area:	AUK, DLF, ELK, ZZI, HOL, HYN, JAD, LON, ADO, MAL, MAP and ZON, RIC, SIE, SO2, SOJ

Legend

- Installed 1-Pipe Monitoring Well
- Installed 2-Pipe Monitoring Well
- Pre-Existing 1-Pipe Monitoring Well
- Pre-Existing 2-Pipe Monitoring Well
- Pre-Existing 3-Pipe Monitoring Well
- Ag Well
- Domestic Well
- Unknown Type Well
- Dairy Production Area
- Soil Characteristic Units
- Box, Irrigation Control
- Box, Mixing
- Capped
- Dam
- Drain
- Drain Box, Settling Box
- Drop Box
- Flow Meter
- Flush Return Inlet Pipe
- Mechanical Separator
- Microjet Irrigation Filtration and Pumping Station
- Pump
- Pump, Floating
- Pump, Portable
- Pump, Tailwater
- Pump, Tile Drain
- Pump, Wastewater
- Stand Pipe
- TID Inlet
- Tank, Flush
- Tank, Water Storage
- Valve
- Wastewater Mixing Point
- Berms/Levees
- Canal, Concrete
- Canal, Earthen
- Culvert
- Ditch, Concrete
- Ditch, Concrete - Community
- Ditch, Earthen
- Ditch, Earthen - Community
- River or Creek
- Swale, Drainage
- Swale, Drainage - non-manure
- Flow Direction, Irrigation Flow
- Flow Direction, Surface Drainage
- Flow Direction, Tailwater Flow
- Pipeline, Freshwater
- Pipeline, Irrigation
- Pipeline, Tailwater
- Pipeline, Tailwater/Tile Drain
- Pipeline, Tile Drain
- Pipeline, Wastewater
- Setback/Physical Barrier
- Animal Housing/Shade
- Calf Barn
- Calf Hutches
- Milk Barn
- Corral
- Hay Barn
- Commodity Barn
- Shed/Shop
- Other Structure
- Feed Storage (Roofed)
- Feed Storage (on Concrete Slab)
- Feed Storage (on Earth)
- Field
- Field, Tiled
- Earthen Tailwater Pond
- Stormwater Retention Pond
- Dry Scrape Alley
- Manure Stacking Area (on Concrete Slab)
- Manure Stacking Area (on Earth)
- Solids Settling Basin
- Flush Lane
- Liquid Manure Storage
- Earthen Stacking Area
- Equipment Storage
- Concrete Processing Pit
- Concrete Sand Trap
- Digester
- Weir Box
- Waterbody

Field Crop Data on "Dairy Production Area and Associated Fields" map series are shown in black lettering on maps and organized as shown below:

CROP | Lagoon Liquor Applied (Y/N)? | Solid Manure Applied (Y/N)? | Synthetic Fertilizer Applied (Y/N)? | Irrigation Depth (inches) | N applied (lbs/acre) | Dry Yield (tons/acre) | N Application/Removal Ratio

A – Alfalfa	AH – Alfalfa Hay	C – Corn	CE – Corn Ears	CS – Corn Silage	F – Winter Forage
FA – Fallow	FM – Forage Mix	G – Grapes	L – Almonds	O – Oats Silage Soft Dough	OG – Oats Grain
OH – Oats Hay	P – Pasture	S – Sudangrass	SP – Sweet Potato	SS – Sudan Silage	SO – Sorghum
T – Triticale	W – Wheat Silage	WH – Wheat			

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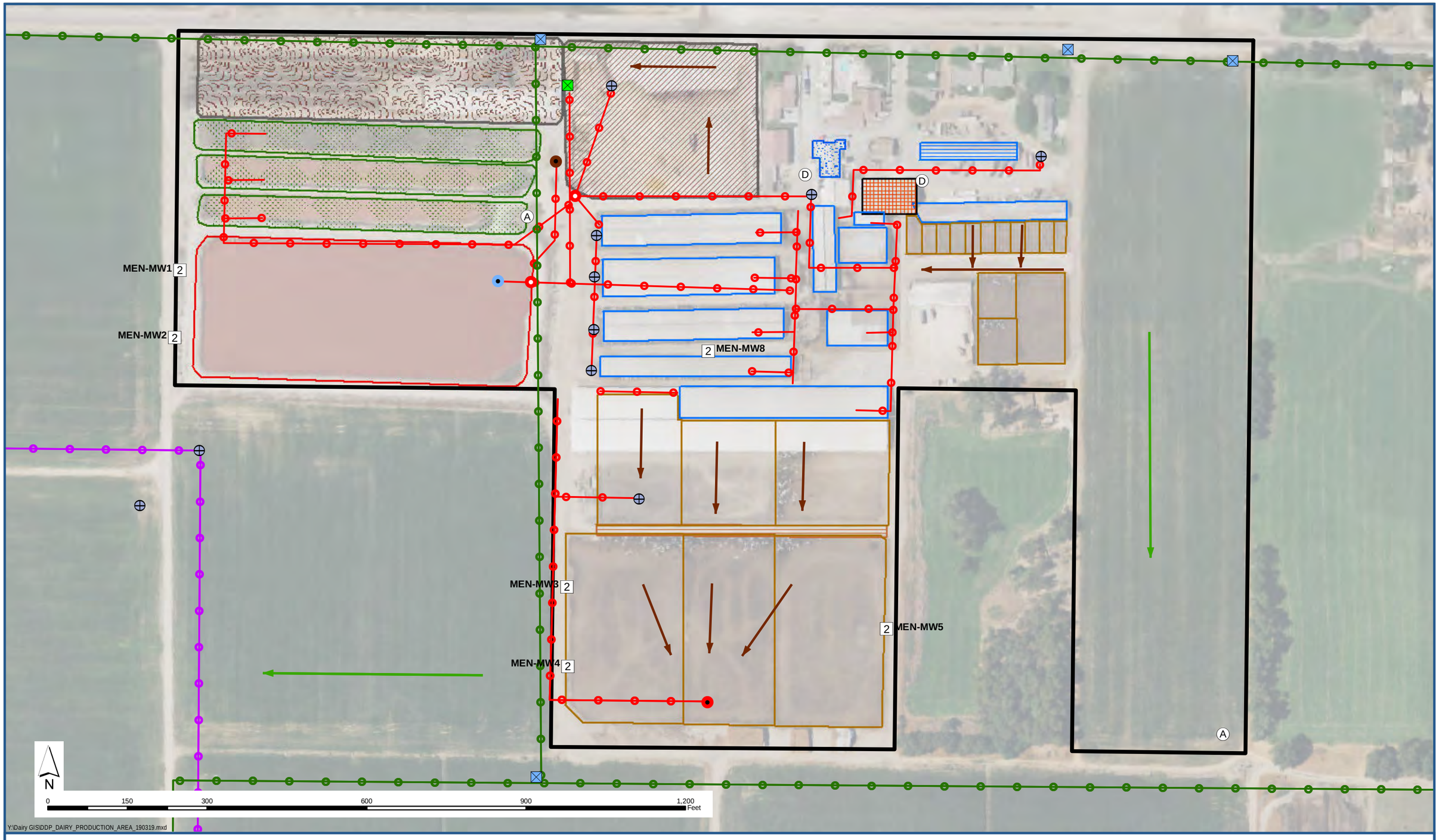
Map Series
Dairy Production Area

Central Area | East Side:	MEN, ANC, BET, DIE, DUR, FG1, BEA, COT, SAN, GEN, TRO, PLS, CAE, ROB, WOO
Central Area | West Side:	ANT, COR, FG2, GOD, MAC, NUN, MOO, TON
North Area:	BRE, CRE, MTS
South Area:	AUK, DLF, ELK, ZZI, HOL, HYN, JAD, LON, ADO, MAL, MAP, ZON, RIC, SIE, SO2, SOJ



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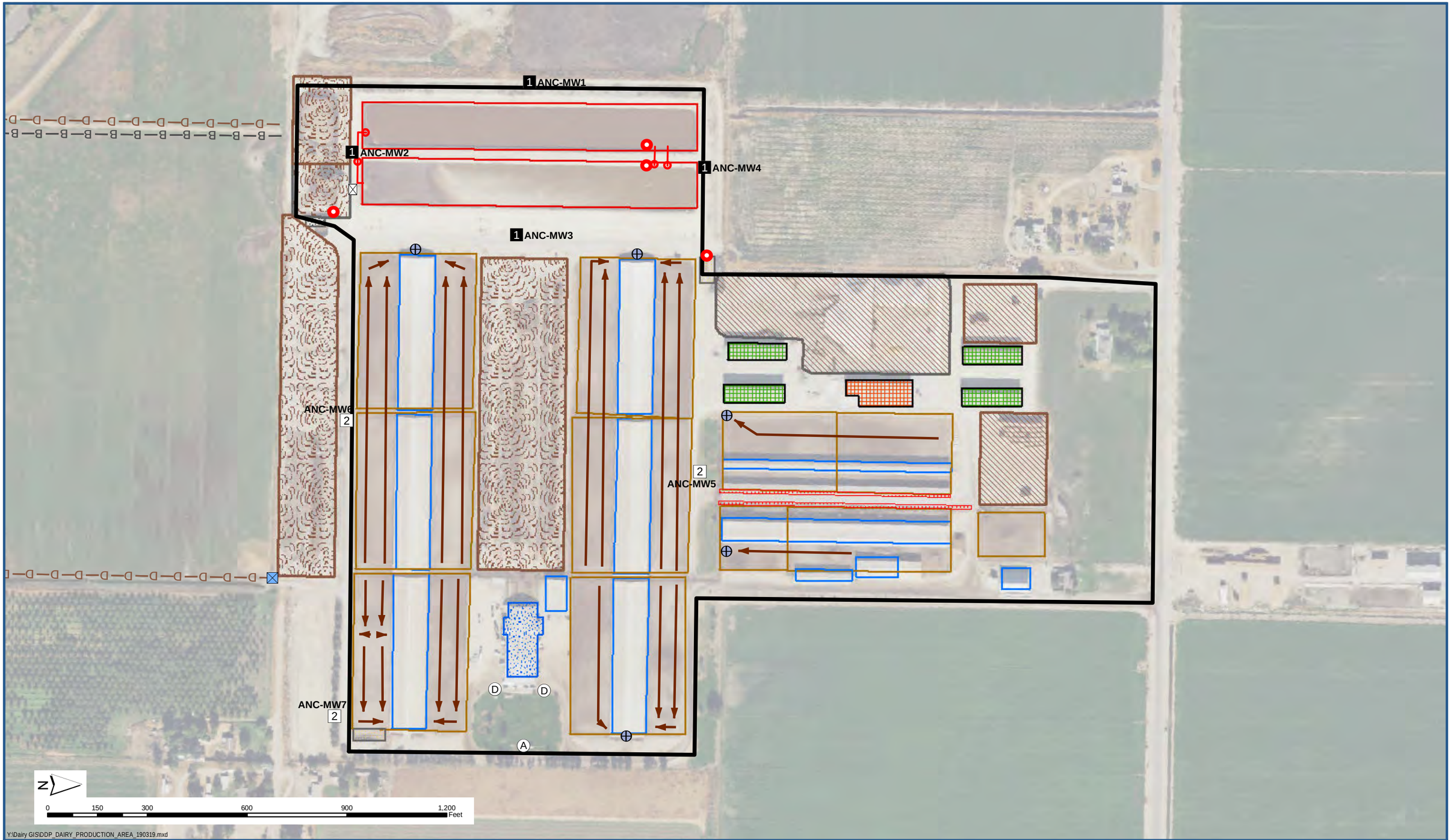
Dairy Production Area
MEN - Year 8

Central Valley Dairy Representative Monitoring Program



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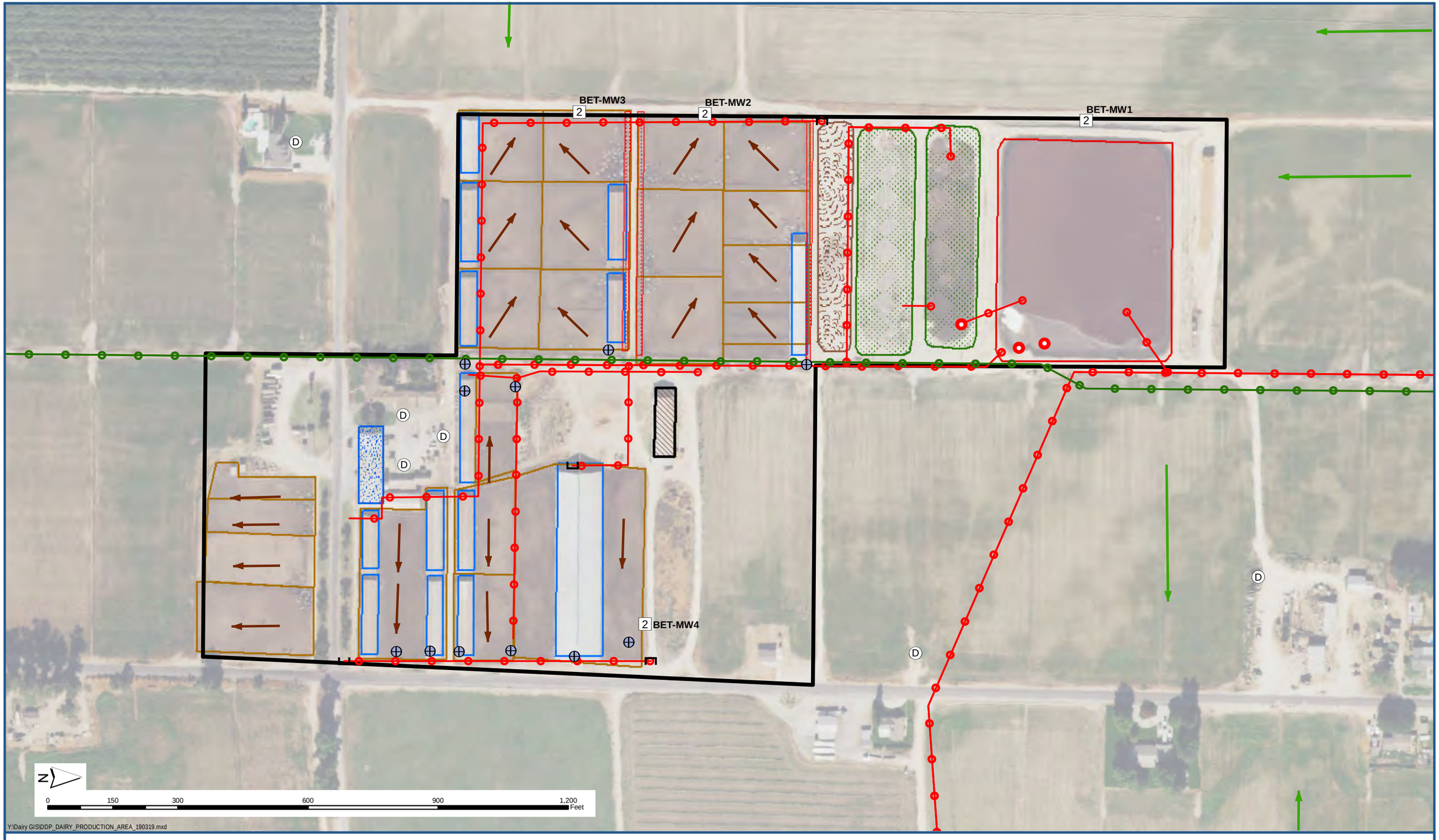
Dairy Production Area
ANC - Year 8

Central Valley Dairy Representative Monitoring Program



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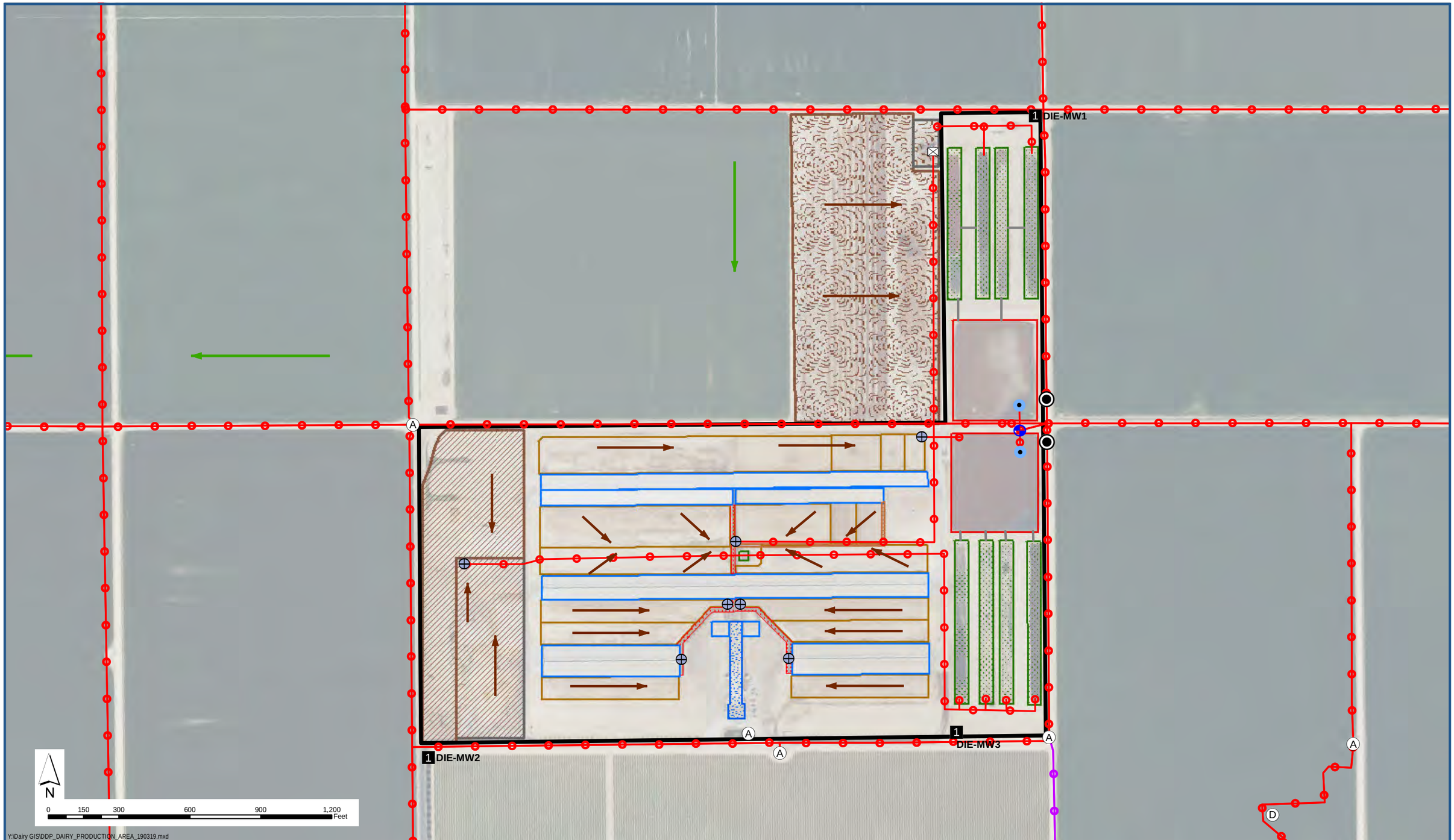
Dairy Production Area
BET - Year 8

Central Valley Dairy Representative Monitoring Program



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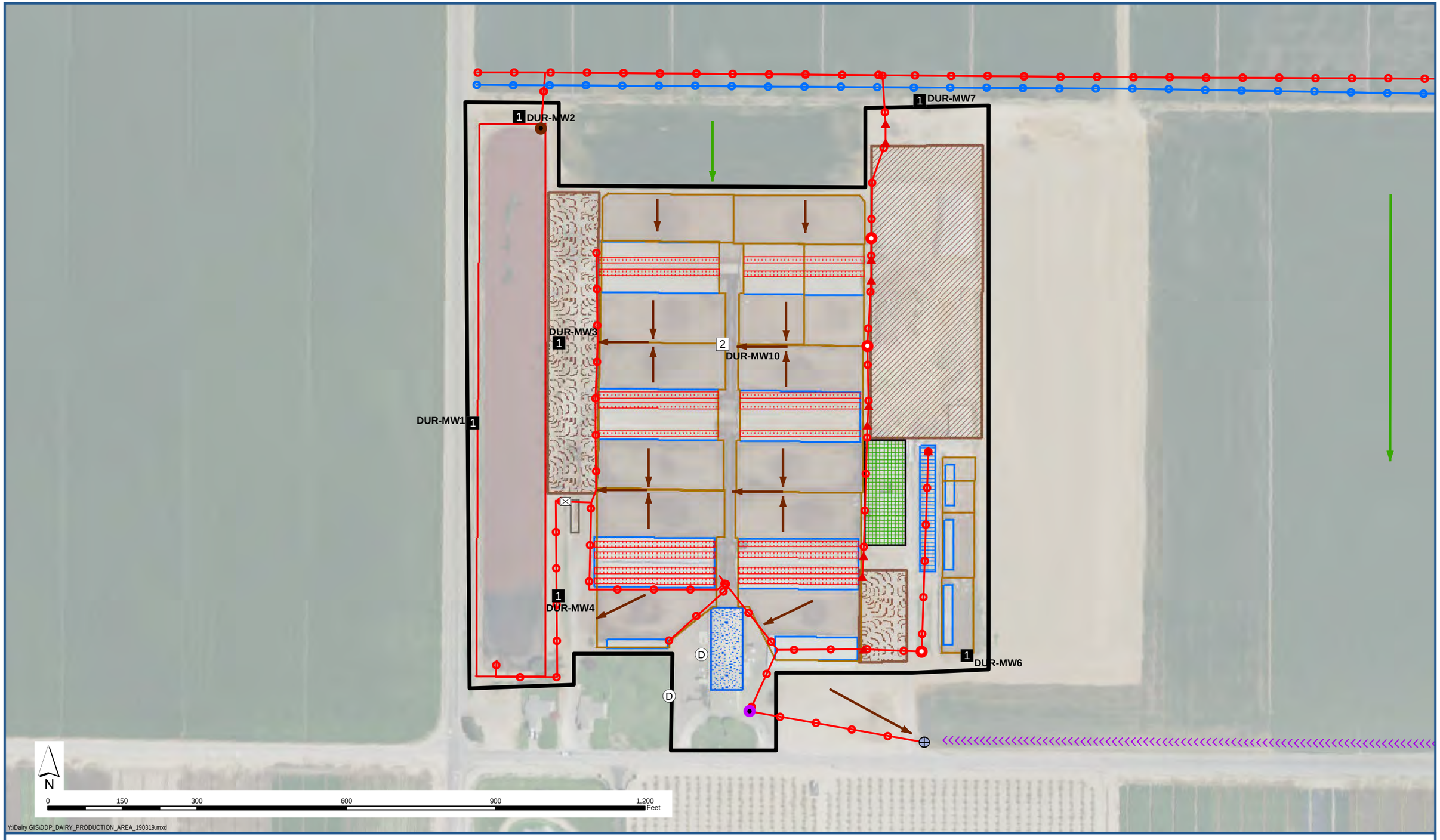
Dairy Production Area
DIE - Year 8

Central Valley Dairy Representative Monitoring Program



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Dairy Production Area
DUR - Year 8

Central Valley Dairy Representative Monitoring Program

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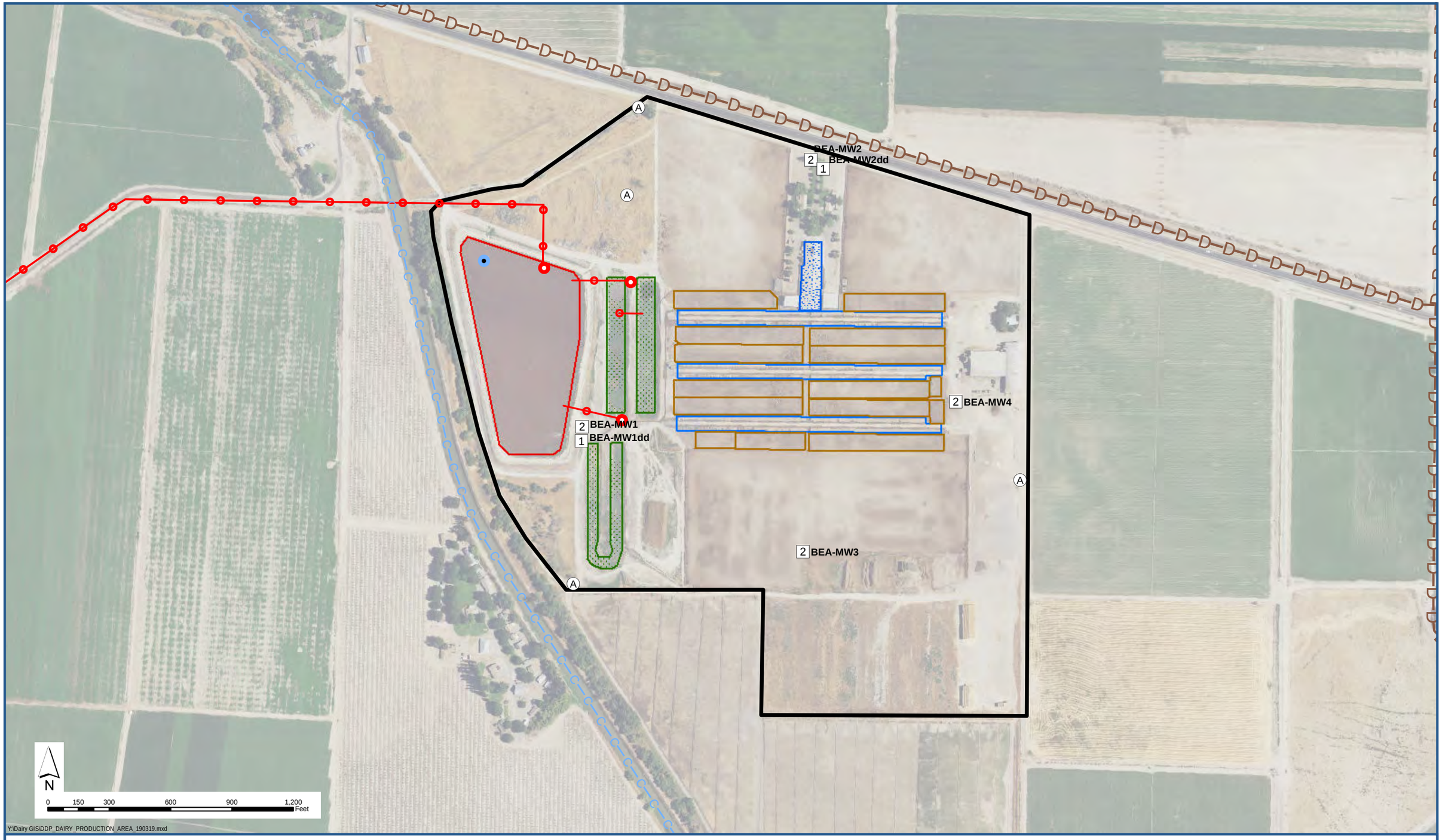
Dairy Production Area
FG1 - Year 8

Central Valley Dairy Representative Monitoring Program



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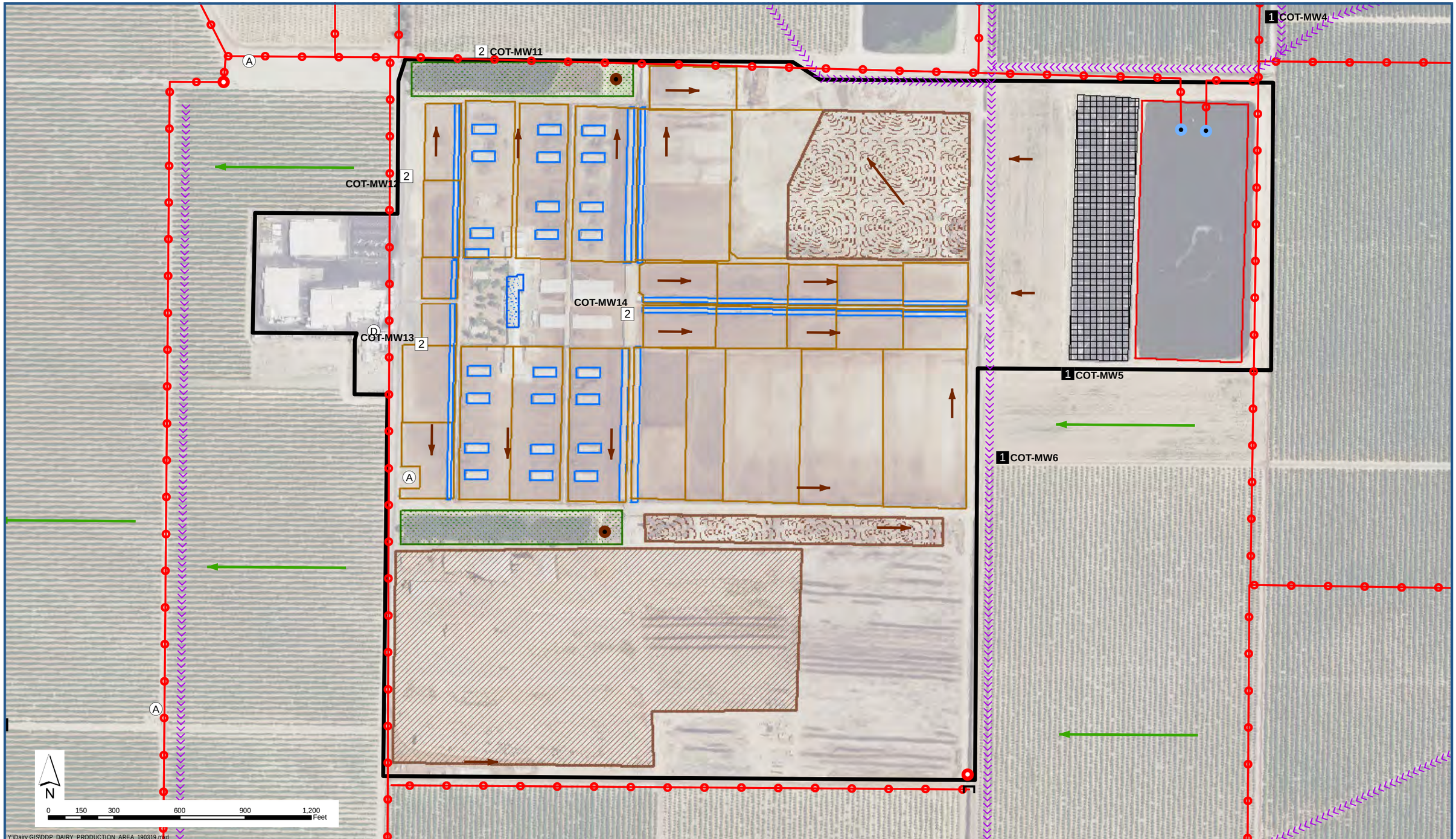
Dairy Production Area
BEA - Year 8

Central Valley Dairy Representative Monitoring Program



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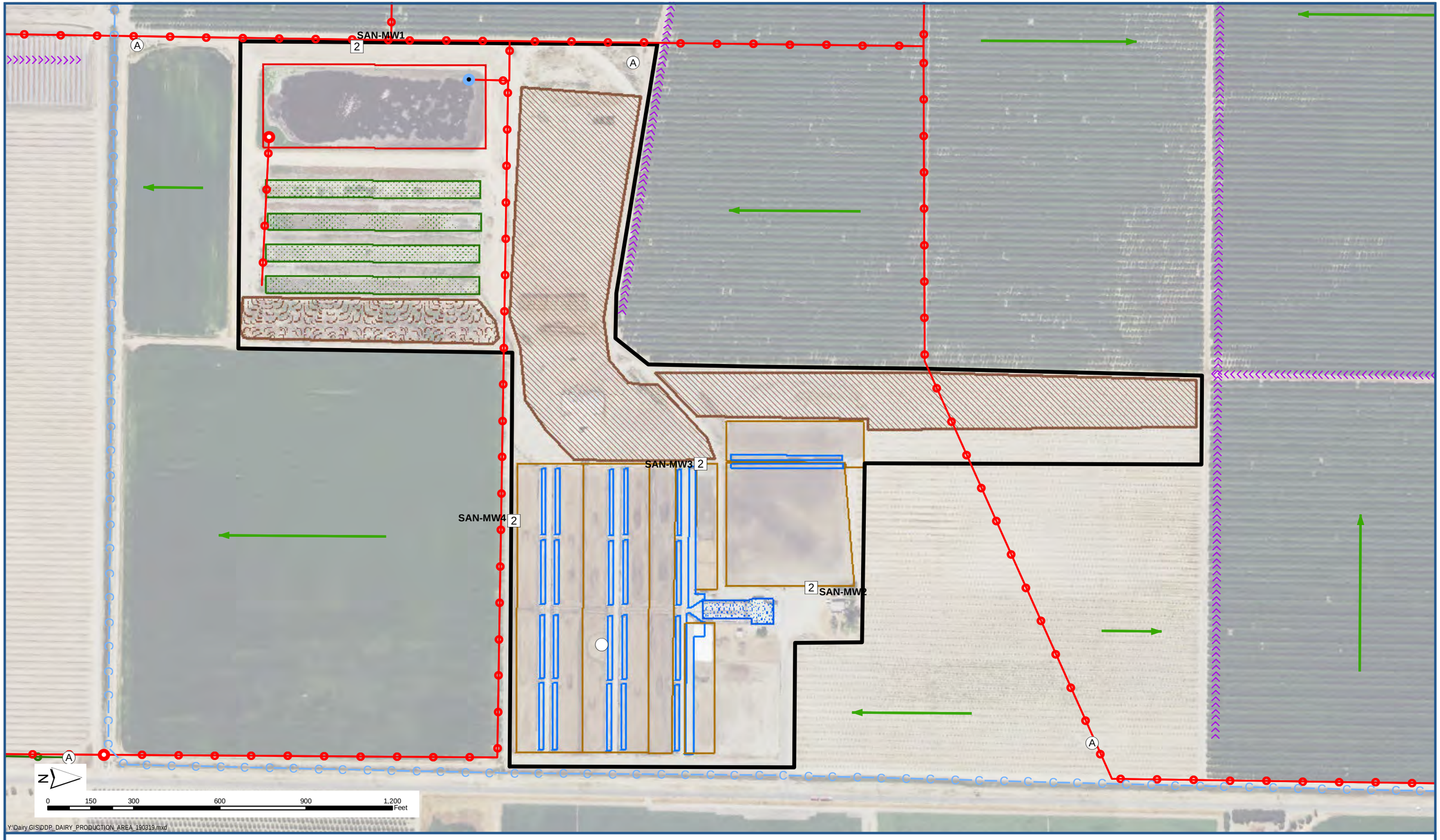
Dairy Production Area
COT - Year 8

Central Valley Dairy Representative Monitoring Program



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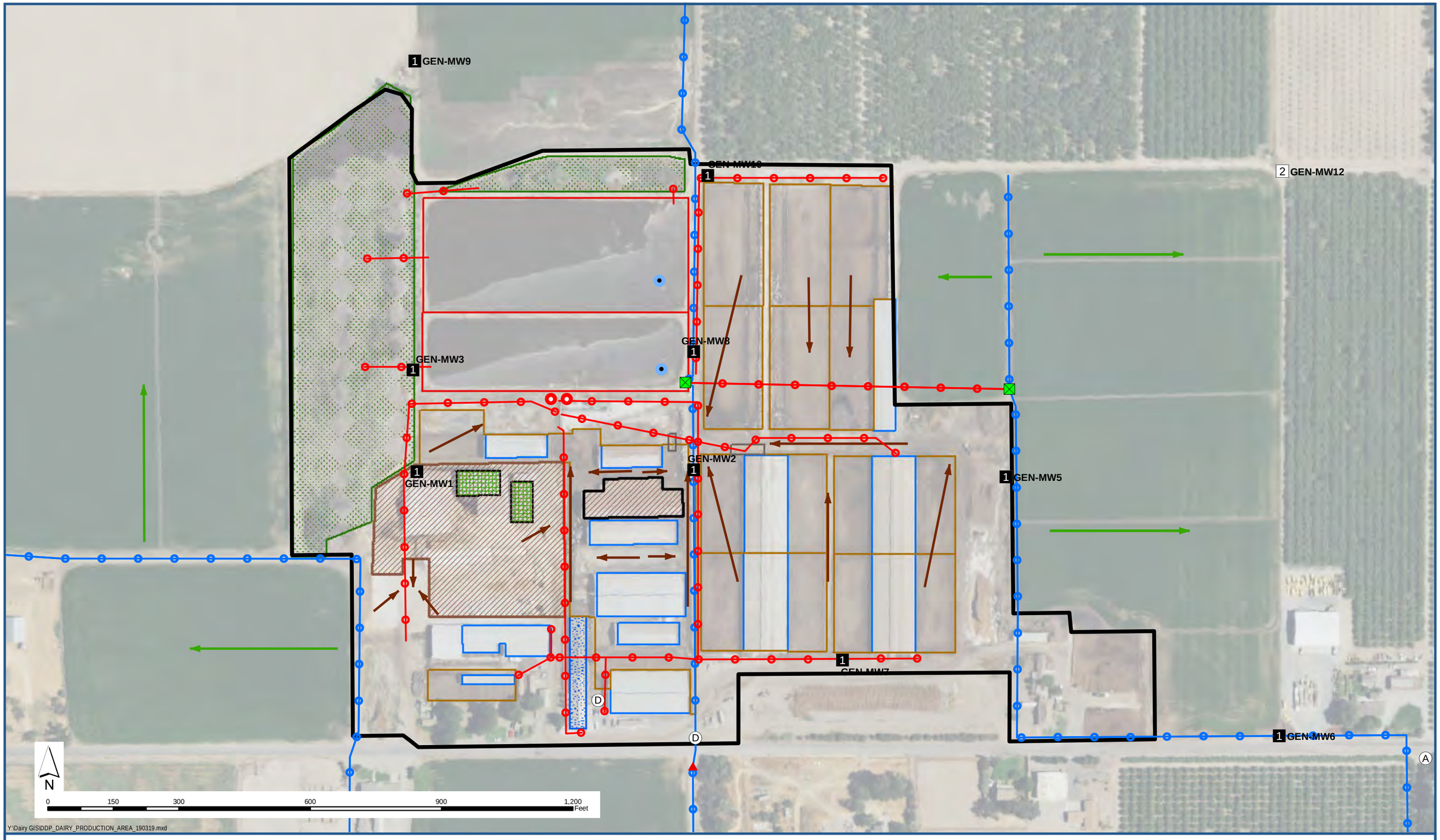
Dairy Production Area
SAN - Year 8

Central Valley Dairy Representative Monitoring Program



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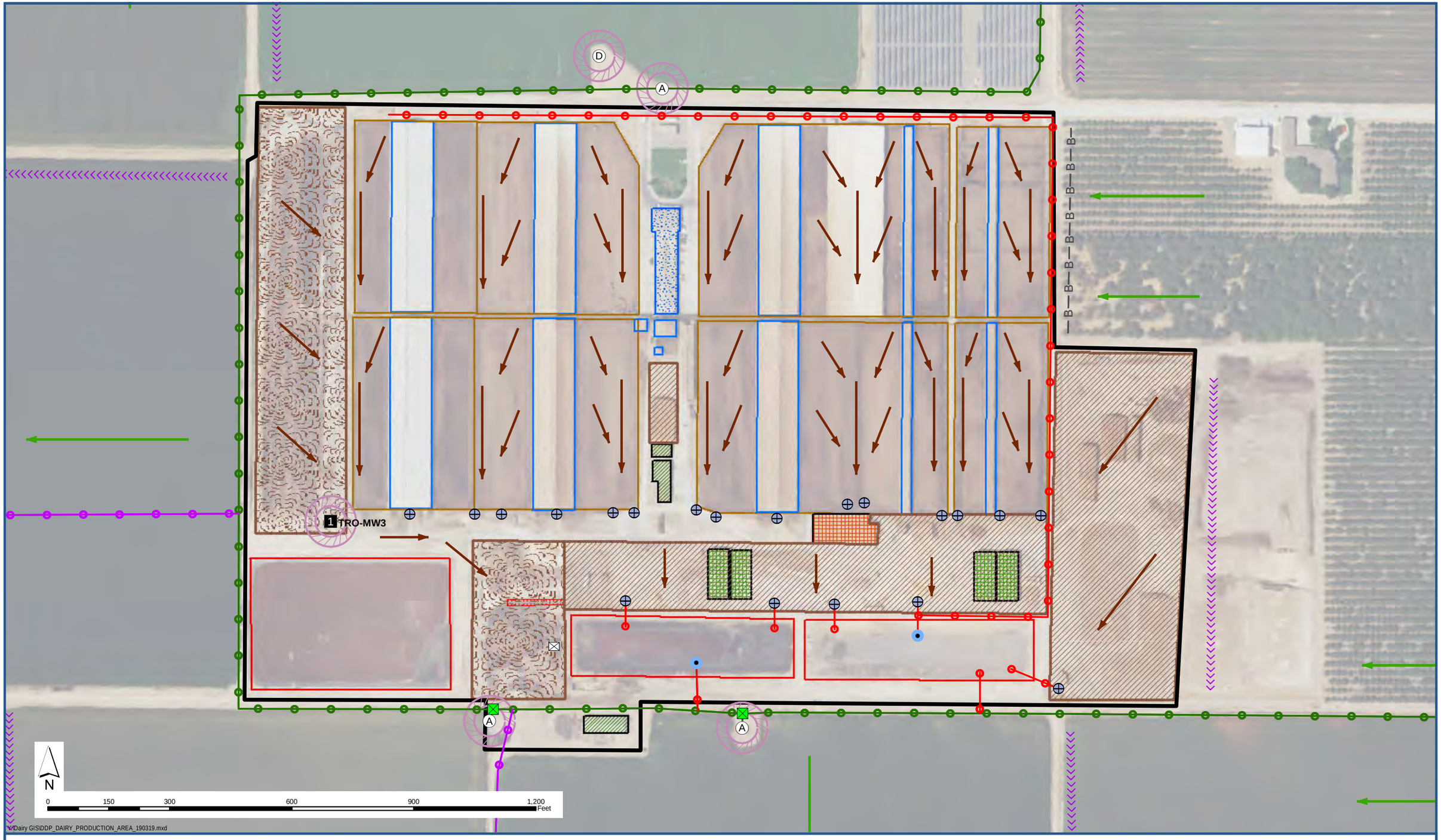
Dairy Production Area
GEN - Year 8

Central Valley Dairy Representative Monitoring Program



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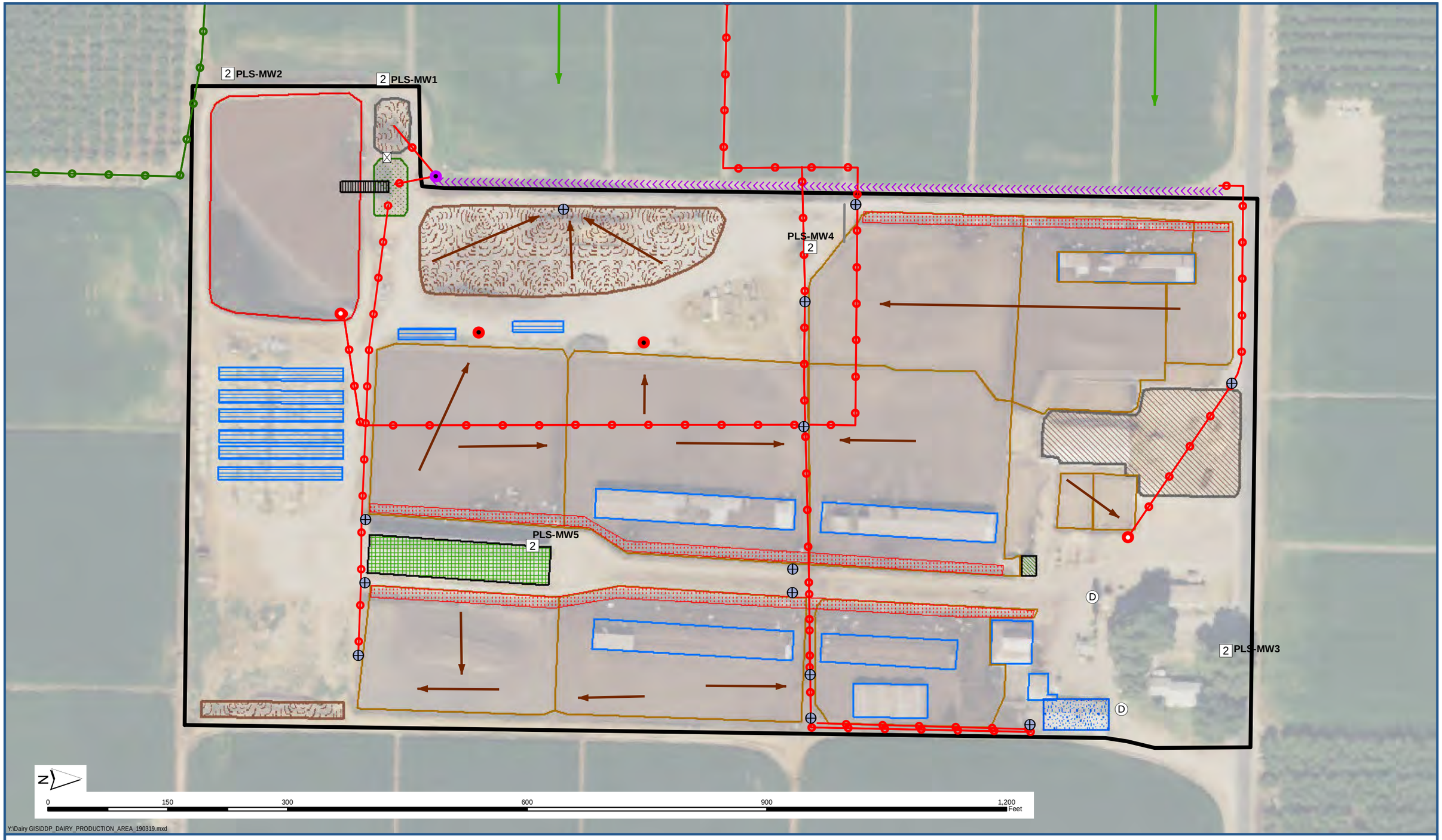
Dairy Production Area
TRO - Year 8

Central Valley Dairy Representative Monitoring Program



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Dairy Production Area
PLS - Year 8

Central Valley Dairy Representative Monitoring Program

CAE-MW5 2

CAE-MW4 2

CAE-MW2 2

CAE-MW3 2

CAE-MW1 2

N

0 150 300 600 900 1,200 Feet

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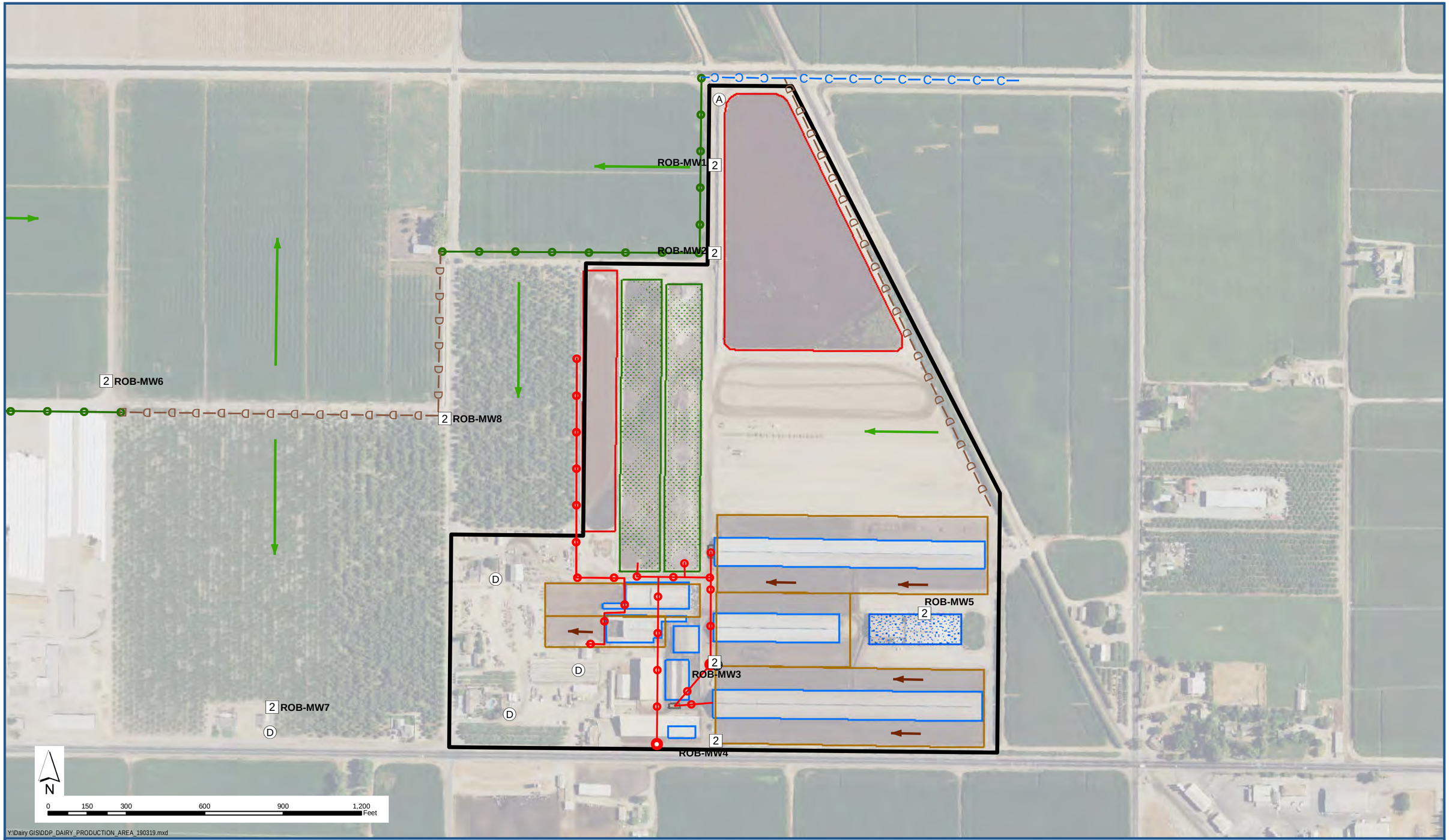
Dairy Production Area
CAE - Year 8

Central Valley Dairy Representative Monitoring Program



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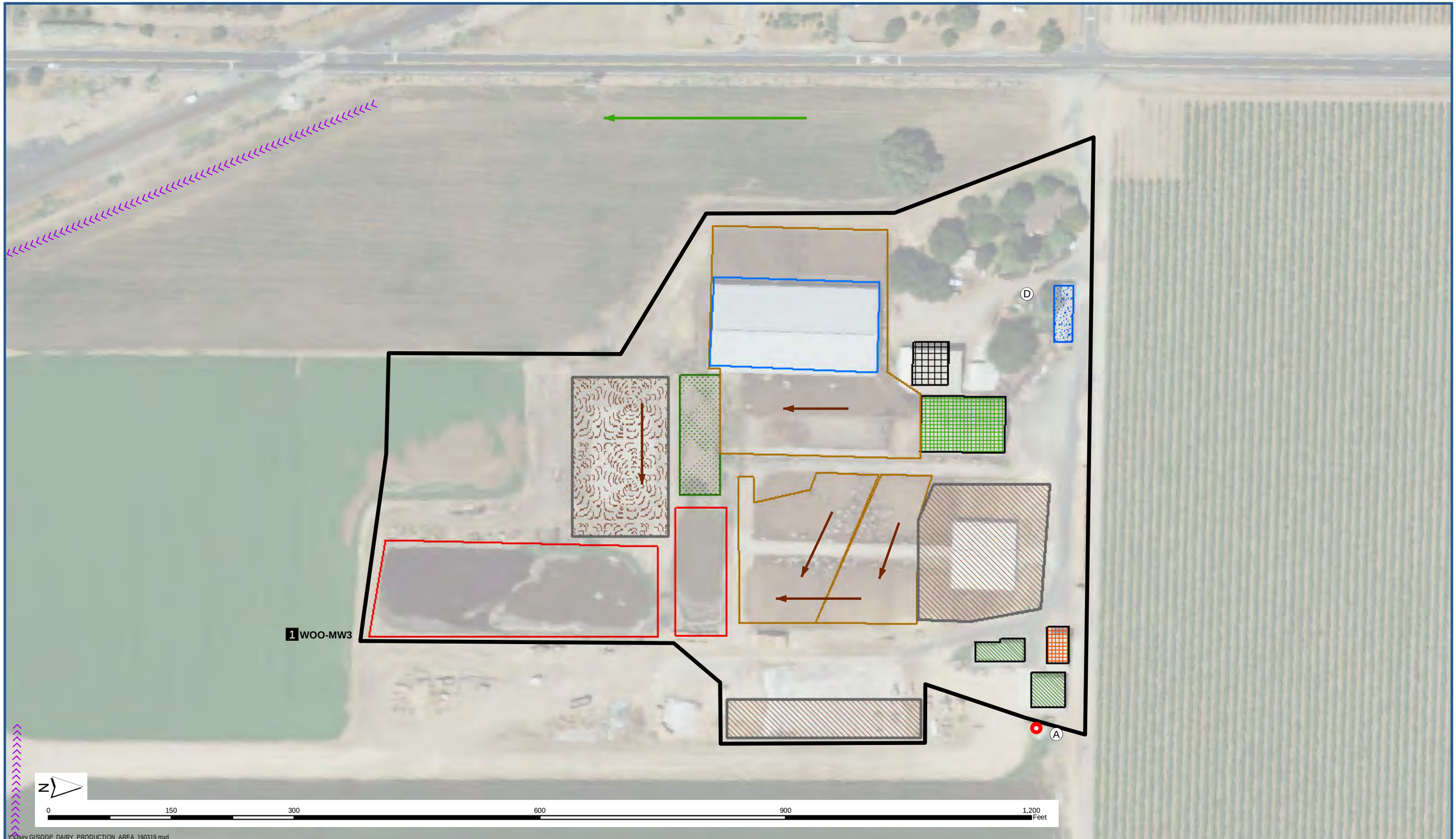
Dairy Production Area
ROB - Year 8

Central Valley Dairy Representative Monitoring Program



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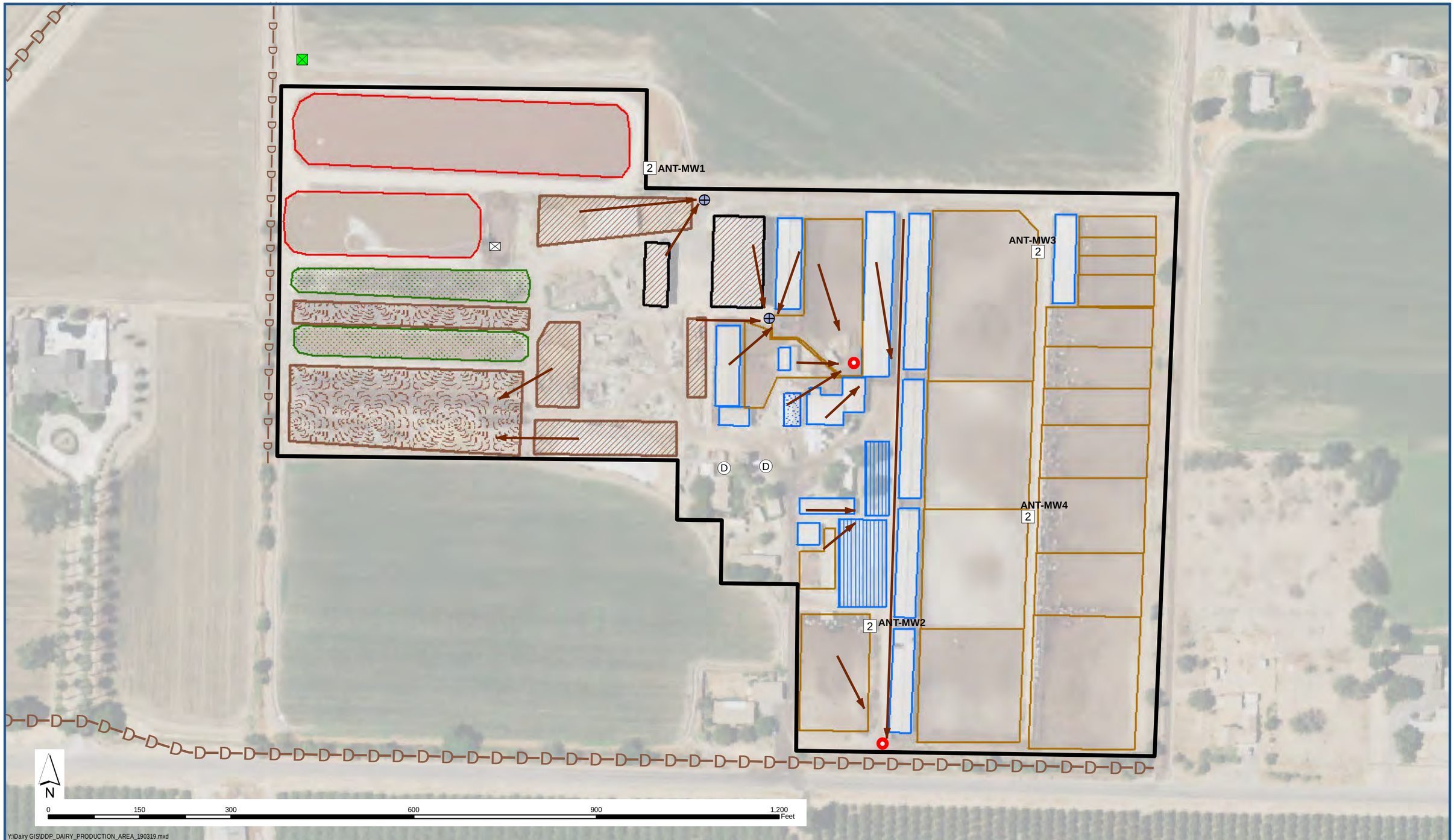
Dairy Production Area
WOO - Year 8

Central Valley Dairy Representative Monitoring Program



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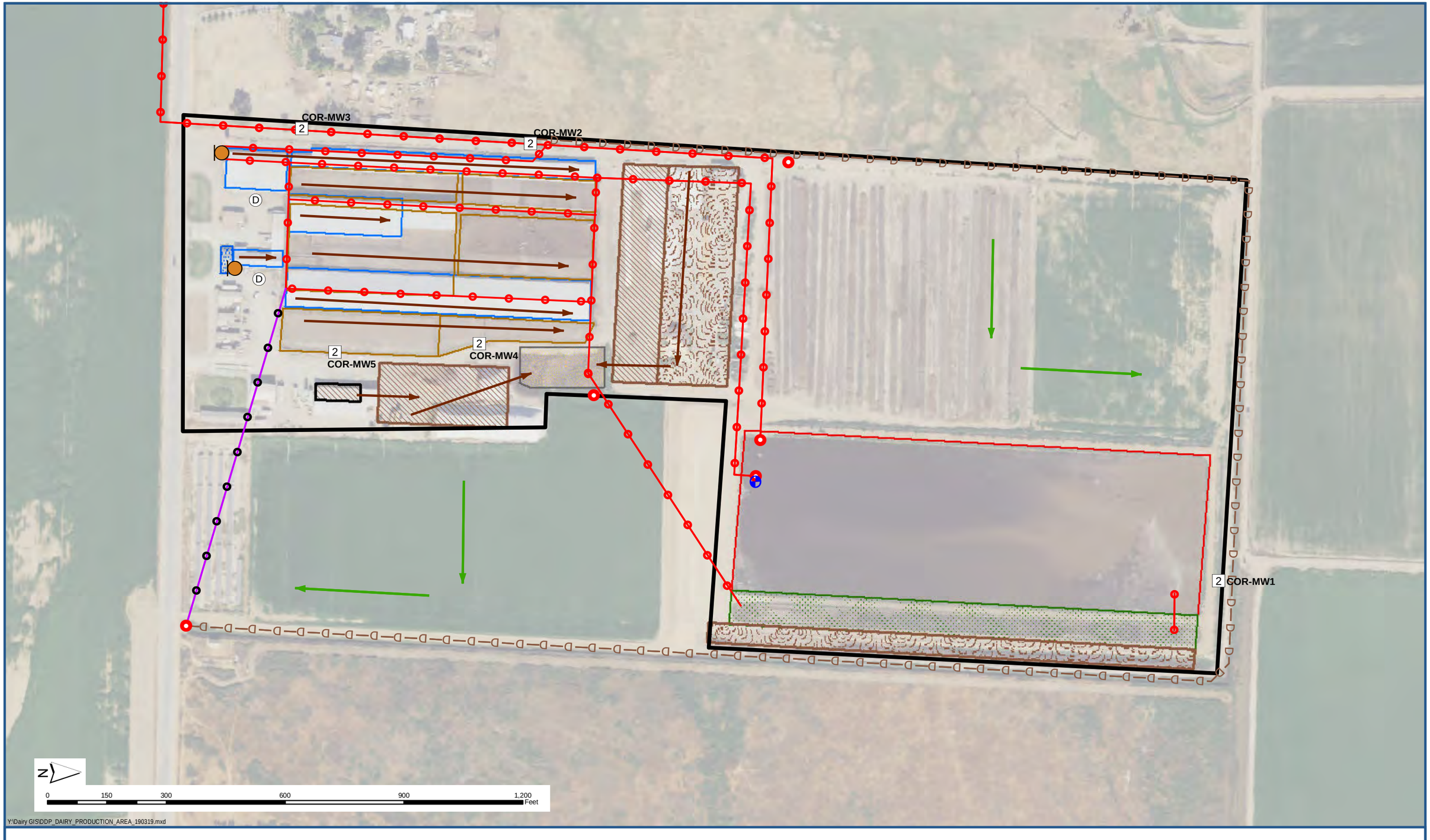
Dairy Production Area
ANT - Year 8

Central Valley Dairy Representative Monitoring Program



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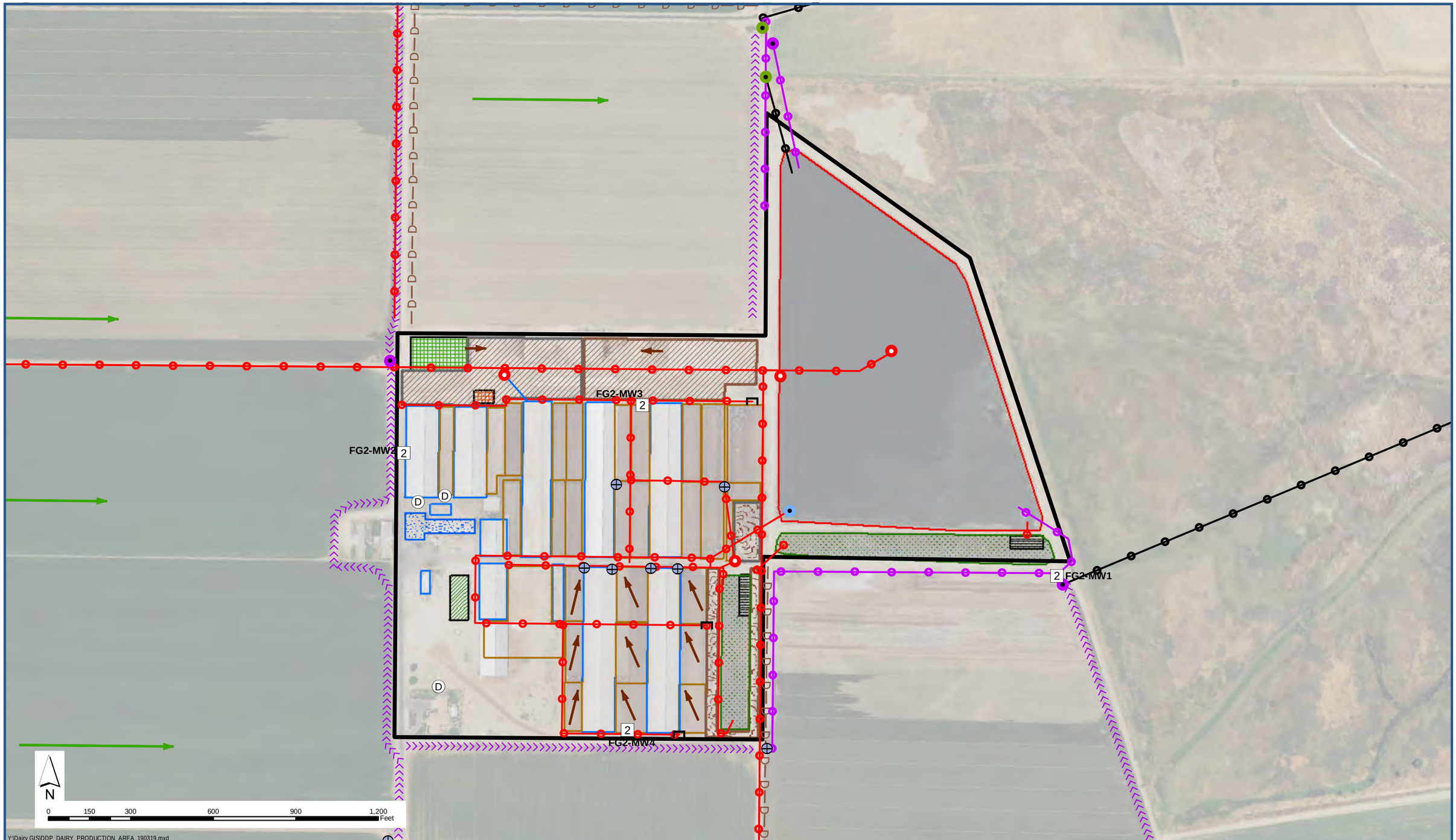
Dairy Production Area
COR - Year 8

Central Valley Dairy Representative Monitoring Program



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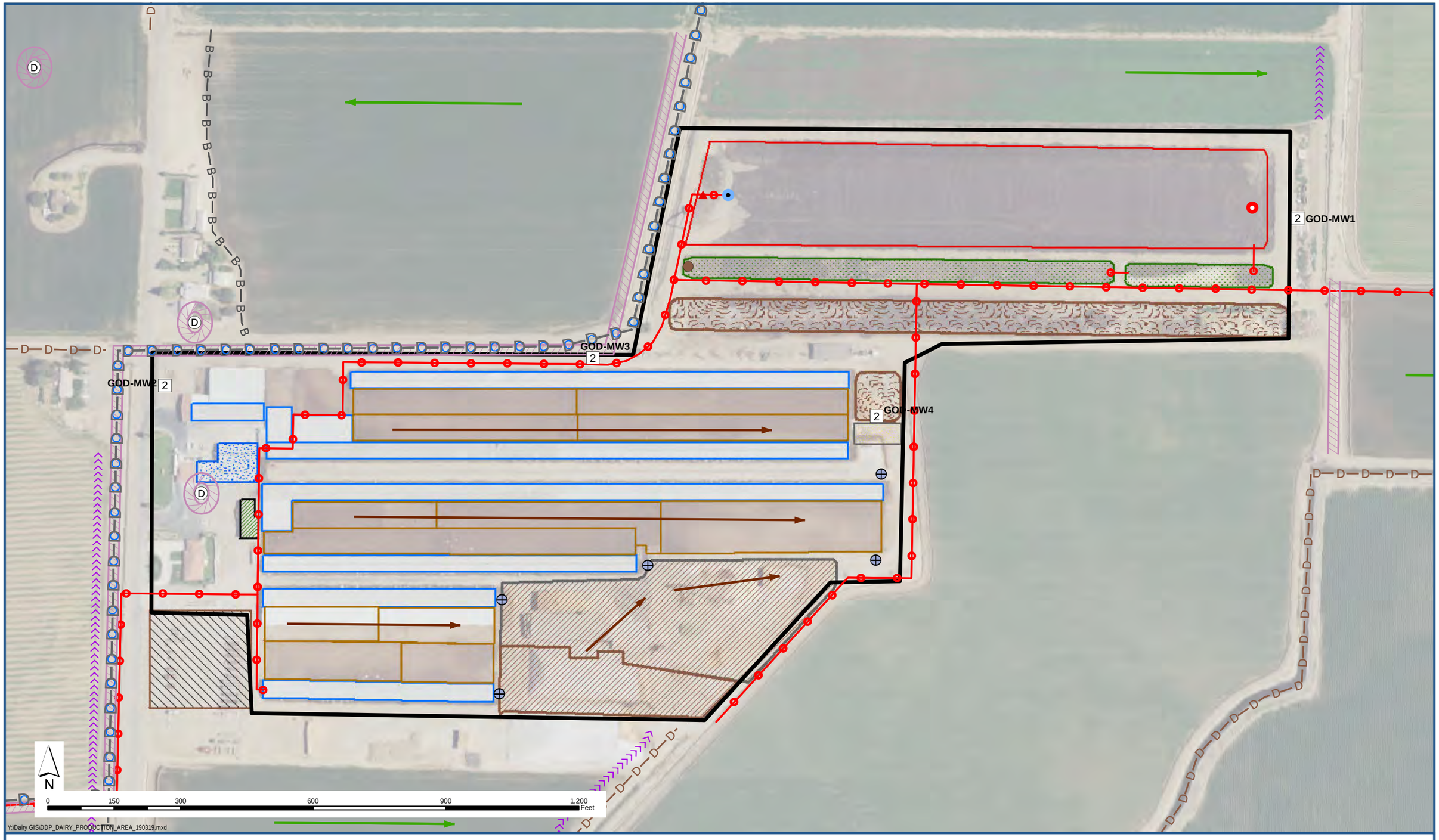
Dairy Production Area
FG2 - Year 8

Central Valley Dairy Representative Monitoring Program



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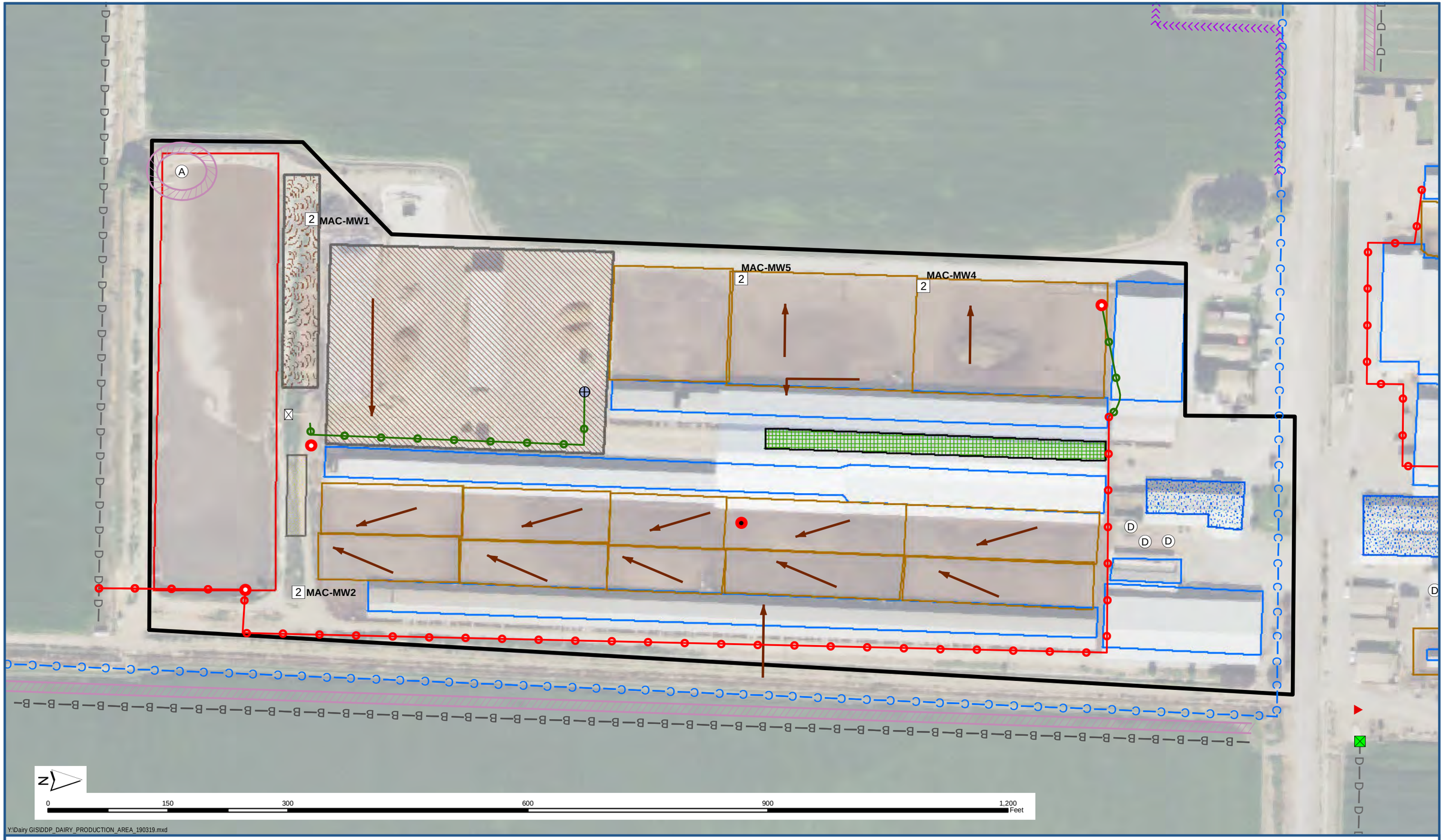
Dairy Production Area
GOD - Year 8

Central Valley Dairy Representative Monitoring Program



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Dairy Production Area
MAC - Year 8

Central Valley Dairy Representative Monitoring Program

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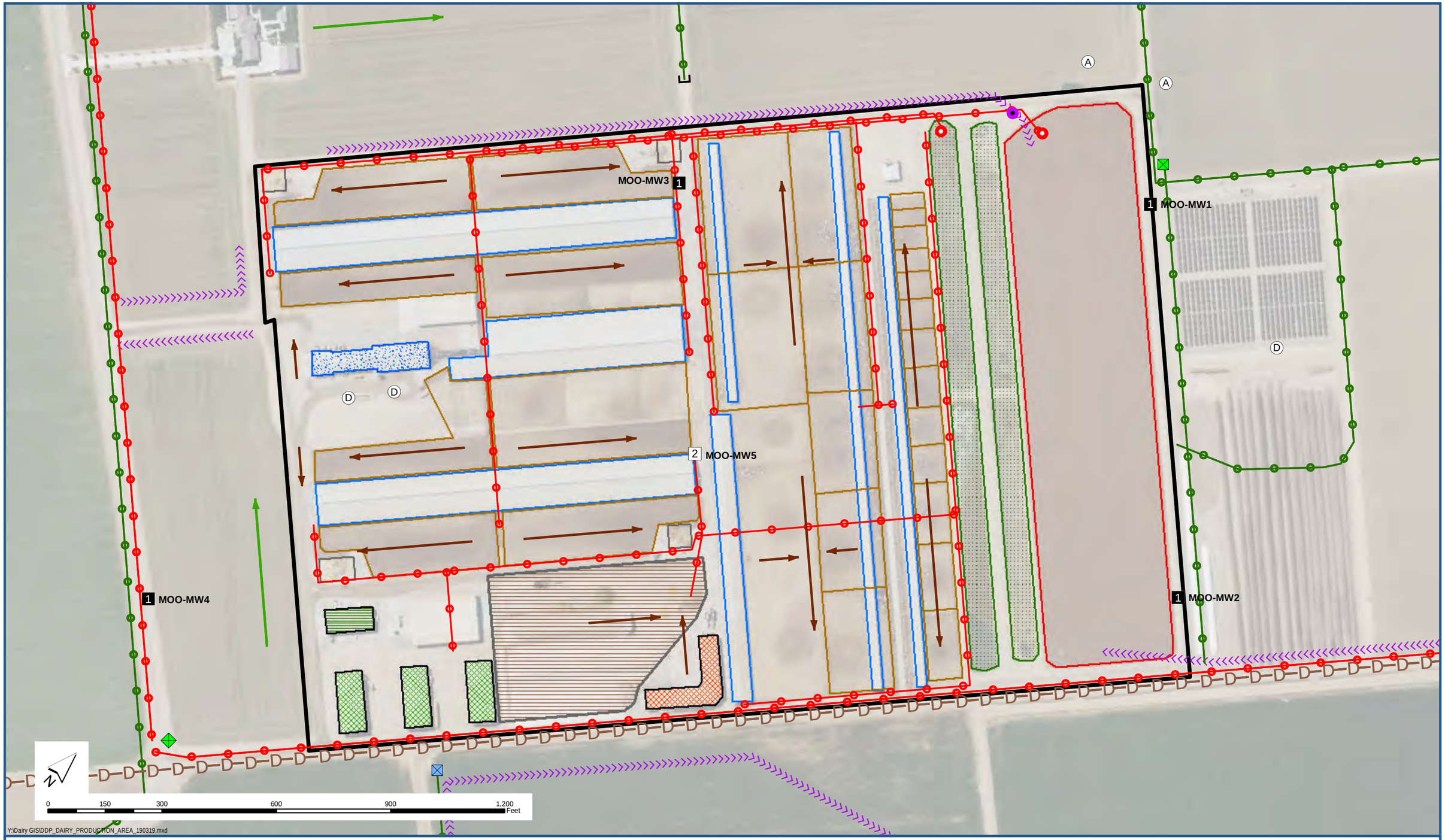
Dairy Production Area
NUN - Year 8

Central Valley Dairy Representative Monitoring Program



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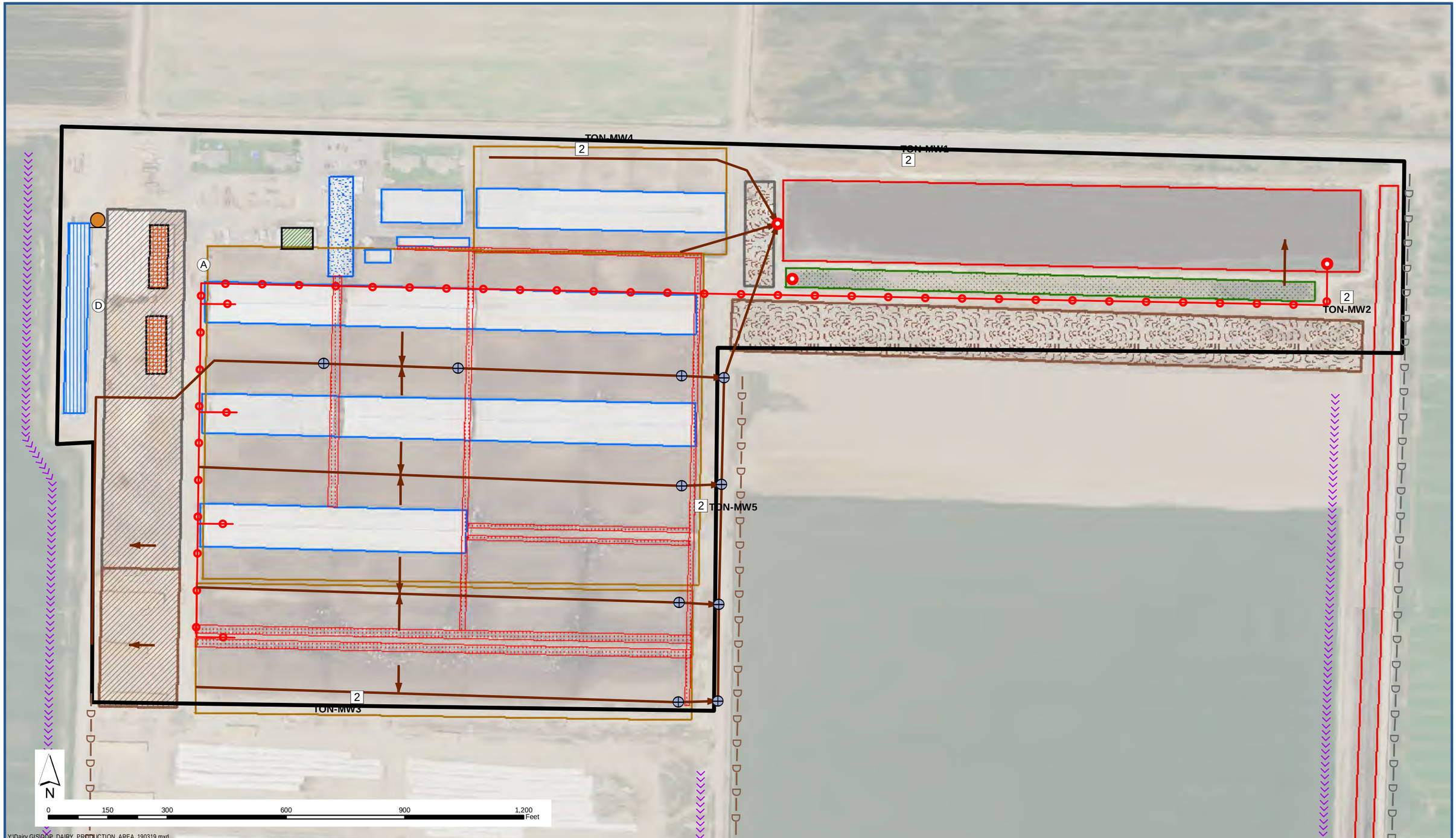
Dairy Production Area
MOO - Year 8

Central Valley Dairy Representative Monitoring Program



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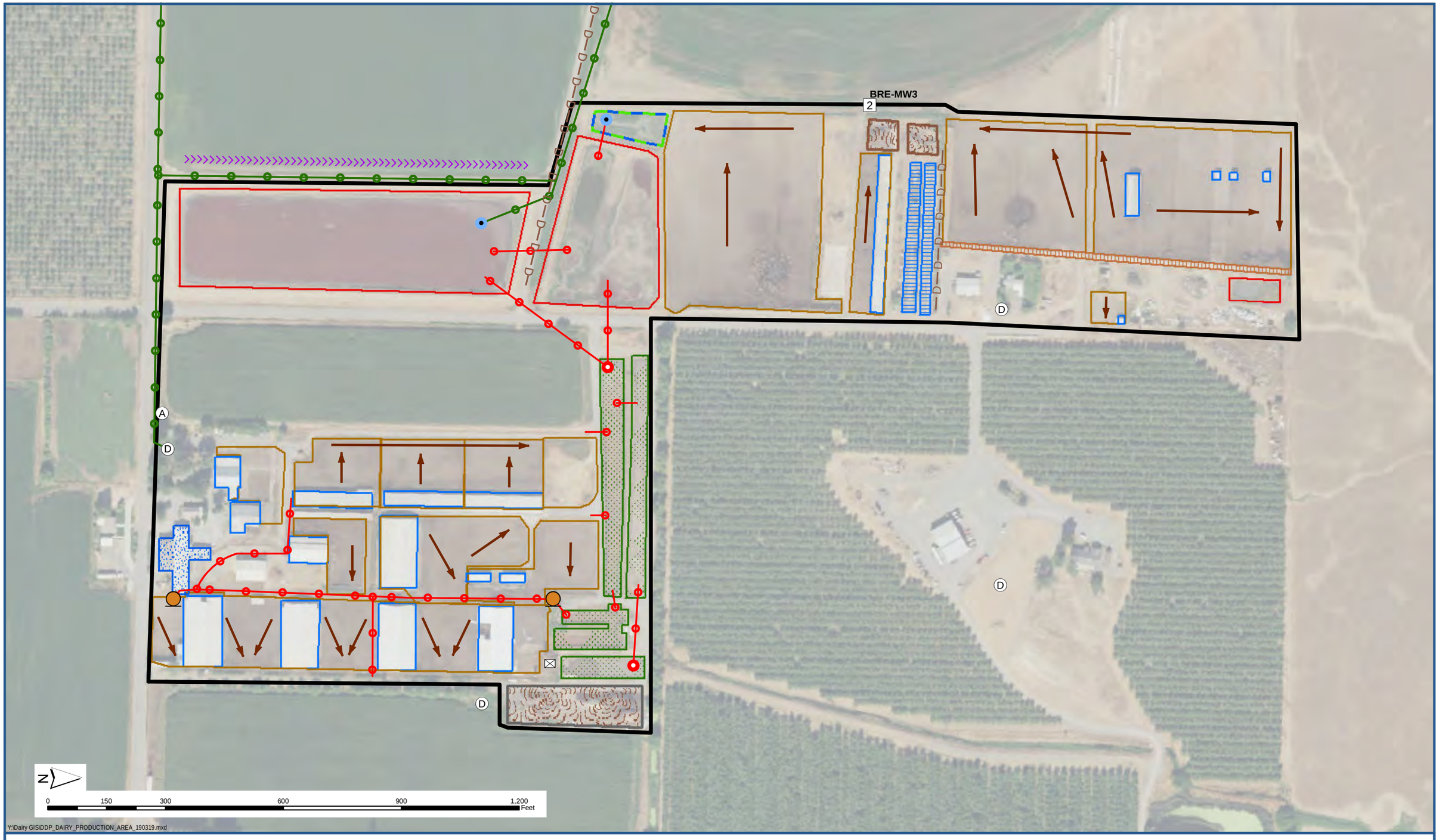
Dairy Production Area
TON - Year 8

Central Valley Dairy Representative Monitoring Program



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Dairy Production Area
BRE - Year 8

Central Valley Dairy Representative Monitoring Program

N

0 150 300 600 900 1,200 Feet

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Dairy Production Area
CRE - Year 8

Central Valley Dairy Representative Monitoring Program

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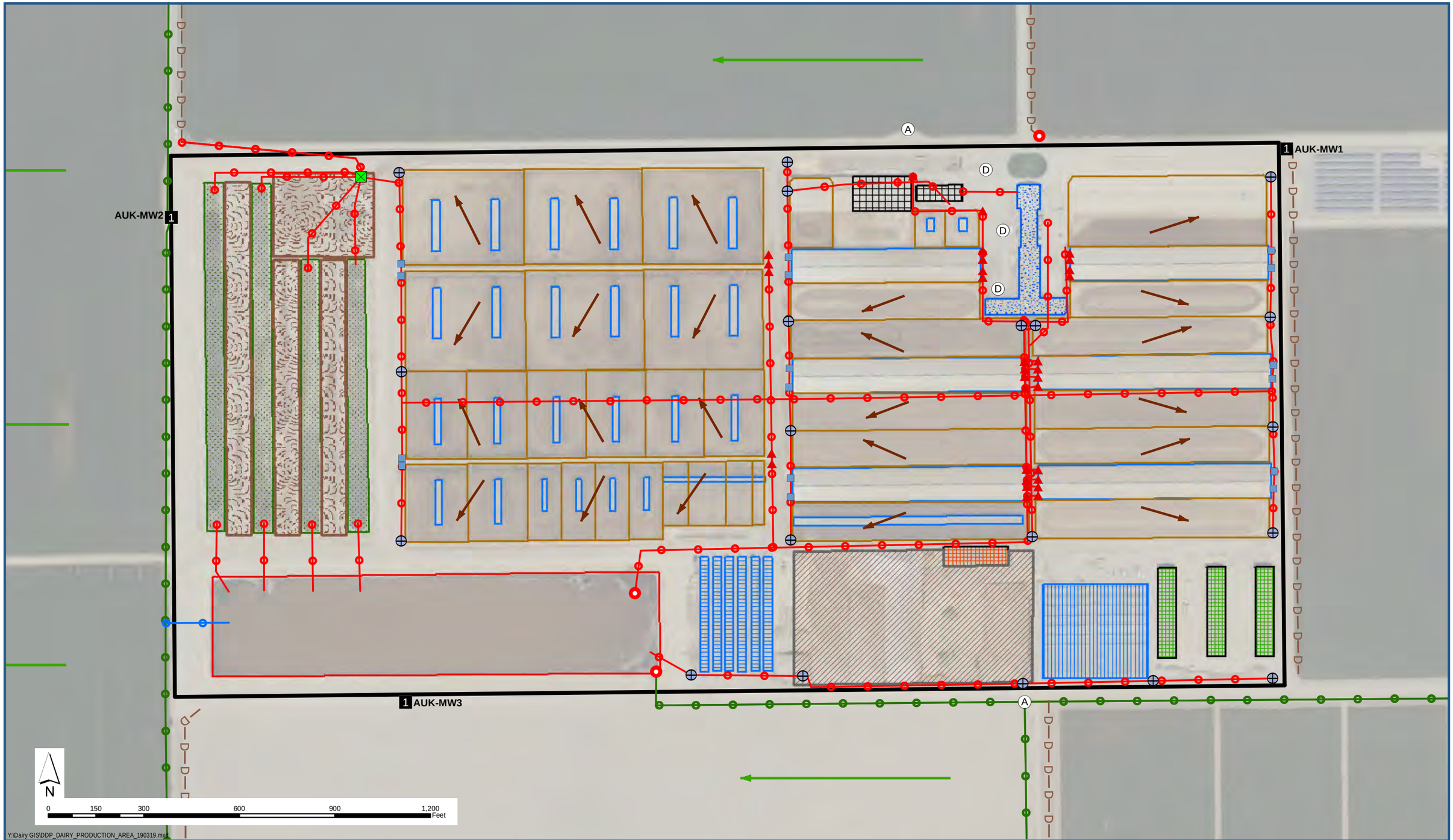
Dairy Production Area
MTS - Year 8

Central Valley Dairy Representative Monitoring Program



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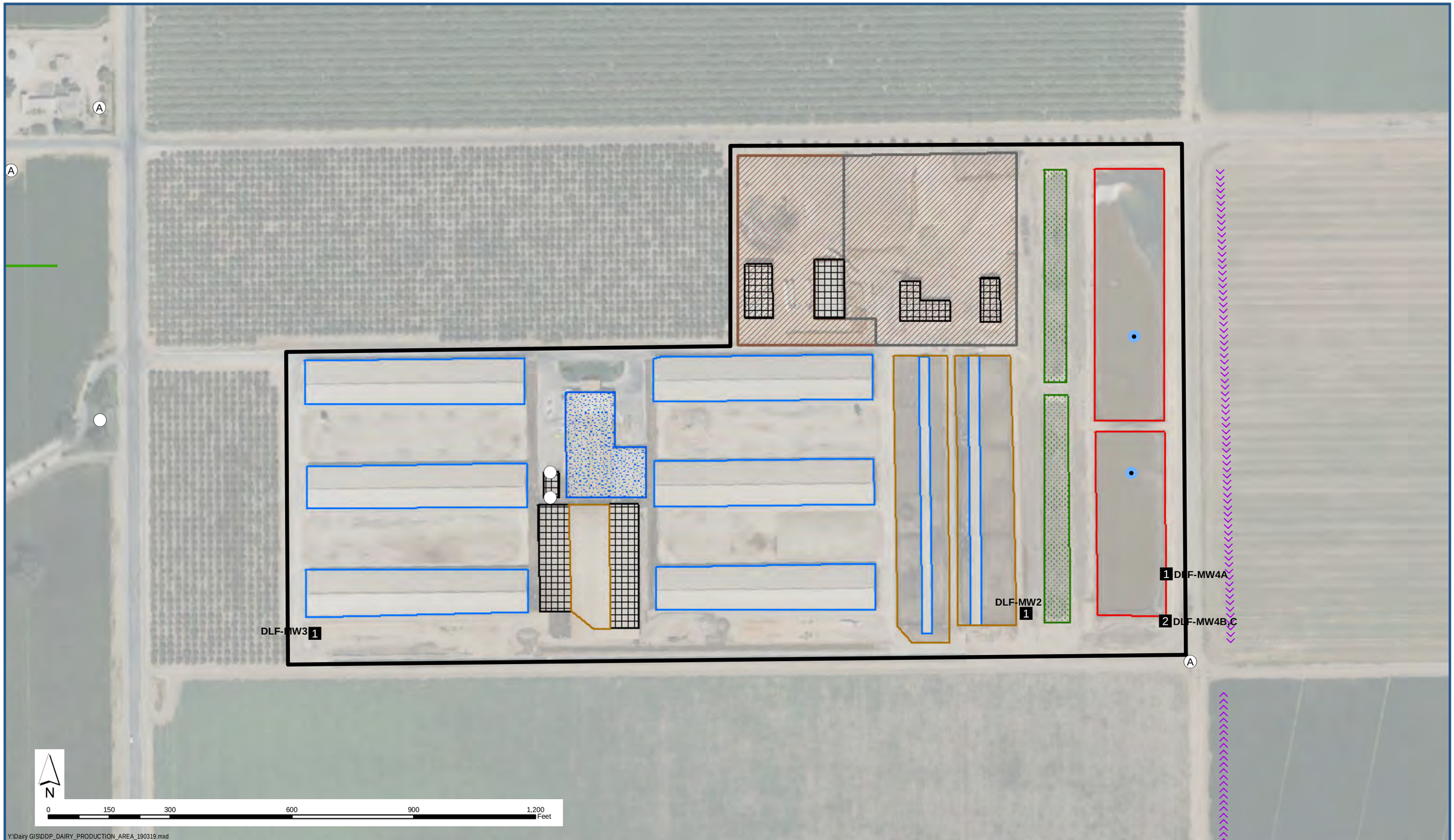
Dairy Production Area
AUK - Year 8

Central Valley Dairy Representative Monitoring Program



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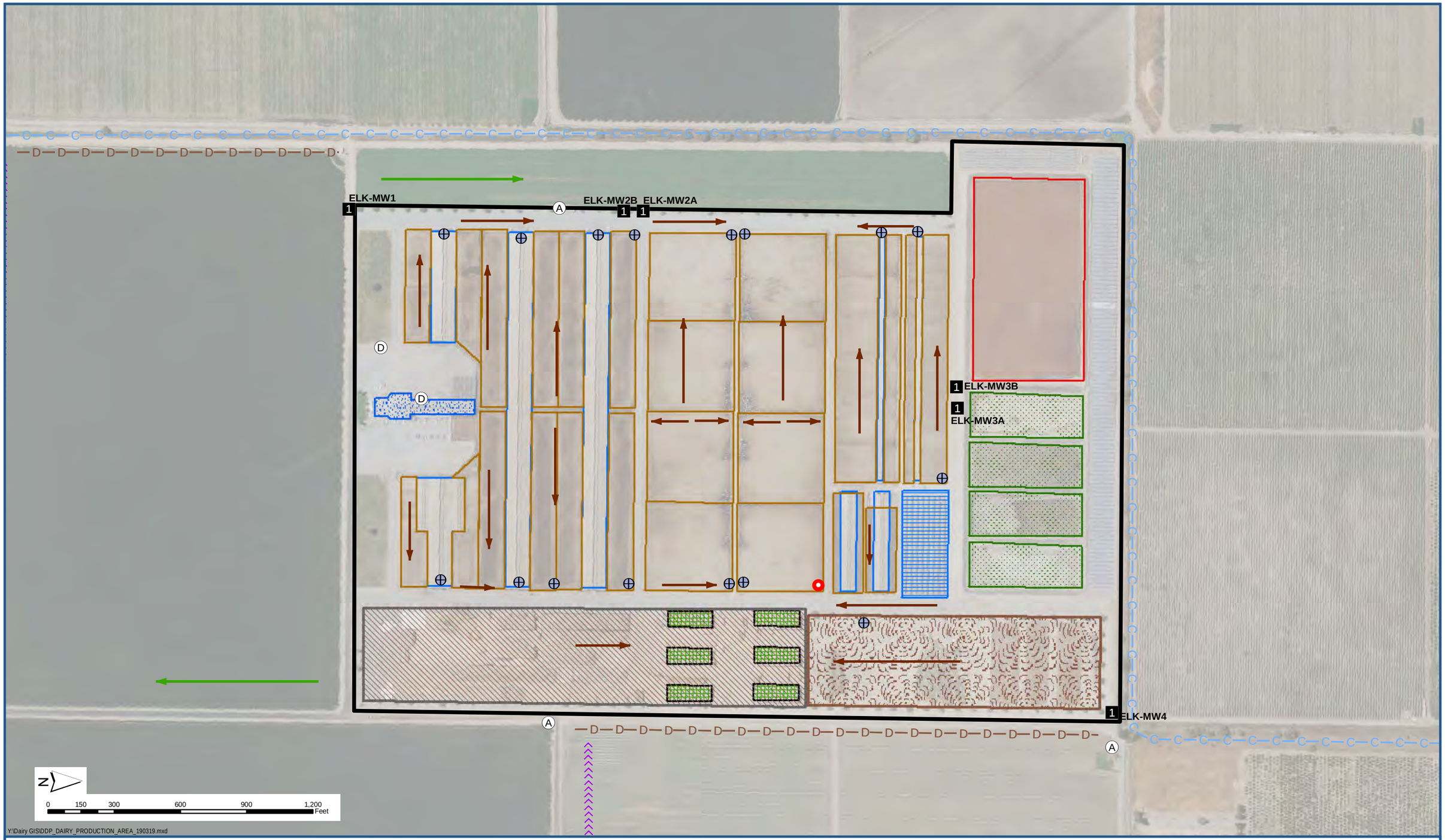
Dairy Production Area
DLF - Year 8

Central Valley Dairy Representative Monitoring Program



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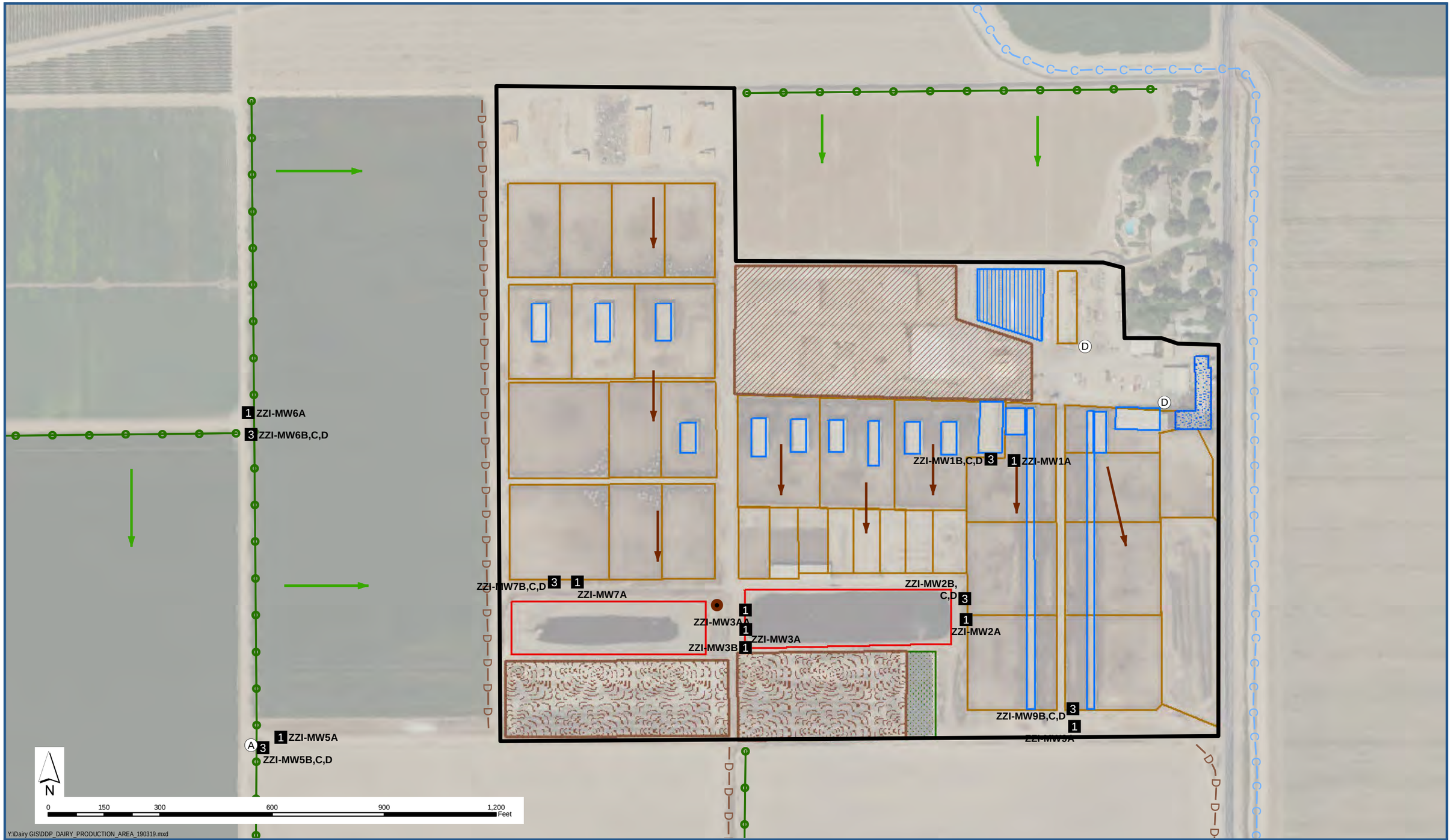
Consulting Engineers

Dairy Production Area
ELK - Year 8

Central Valley Dairy Representative Monitoring Program



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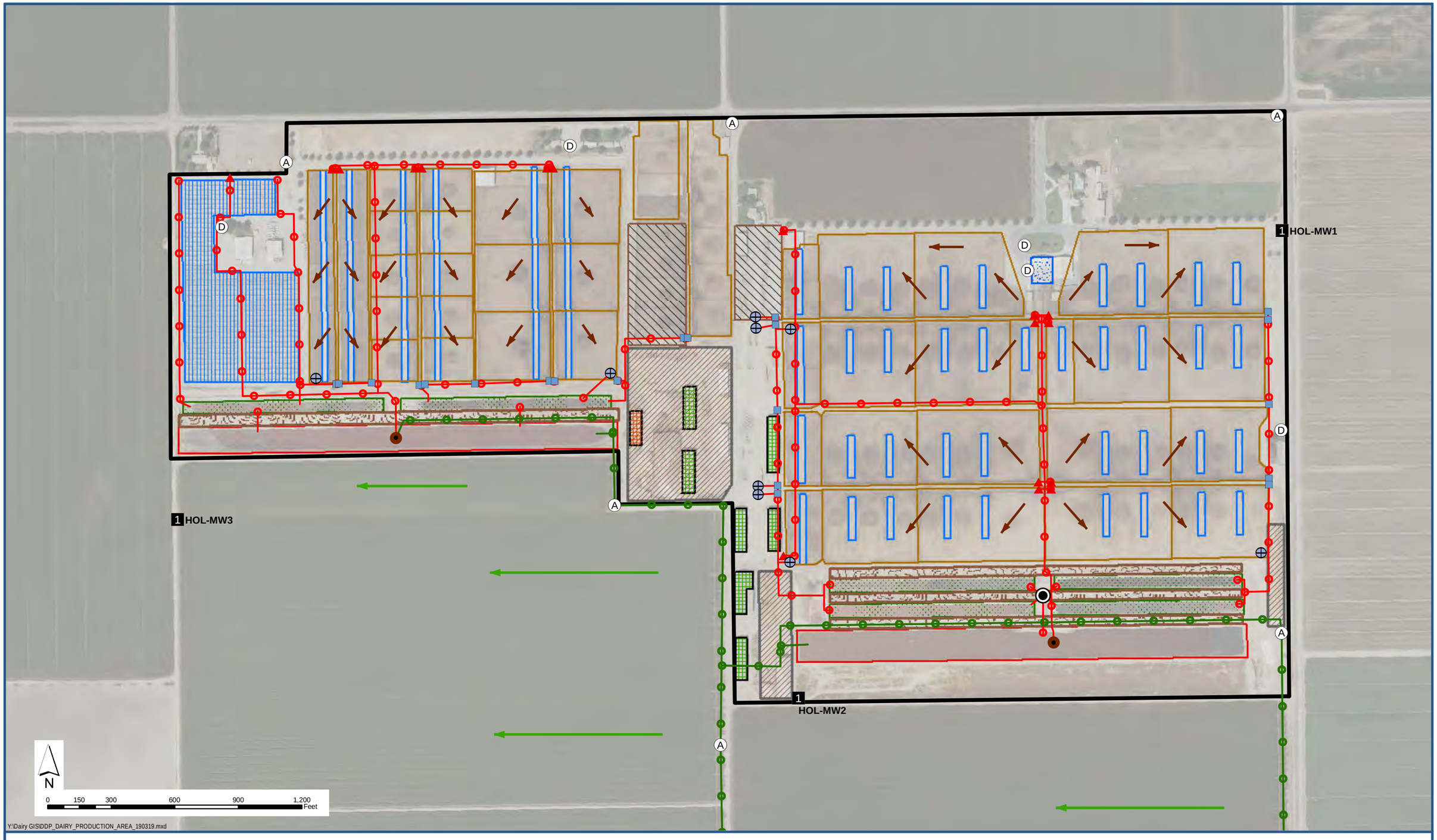
Consulting Engineers

Dairy Production Area
ZZI - Year 8

Central Valley Dairy Representative Monitoring Program



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Consulting Engineers

Dairy Production Area
HOL - Year 8

Central Valley Dairy Representative Monitoring Program

HYN-MW4

HYN-MW3

N

0 150 300 600 900 1,200 Feet

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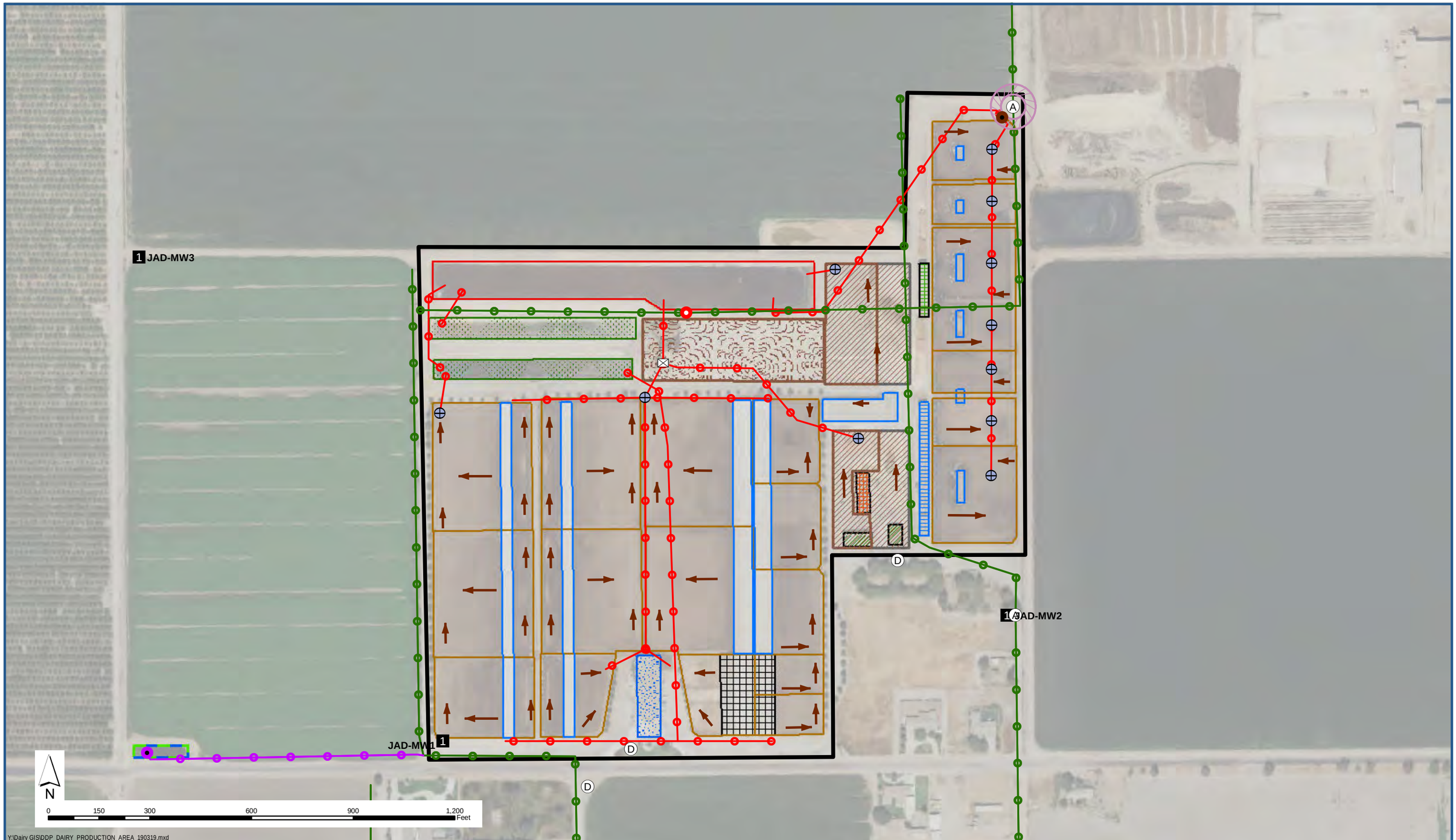
Dairy Production Area
HYN - Year 8

Central Valley Dairy Representative Monitoring Program



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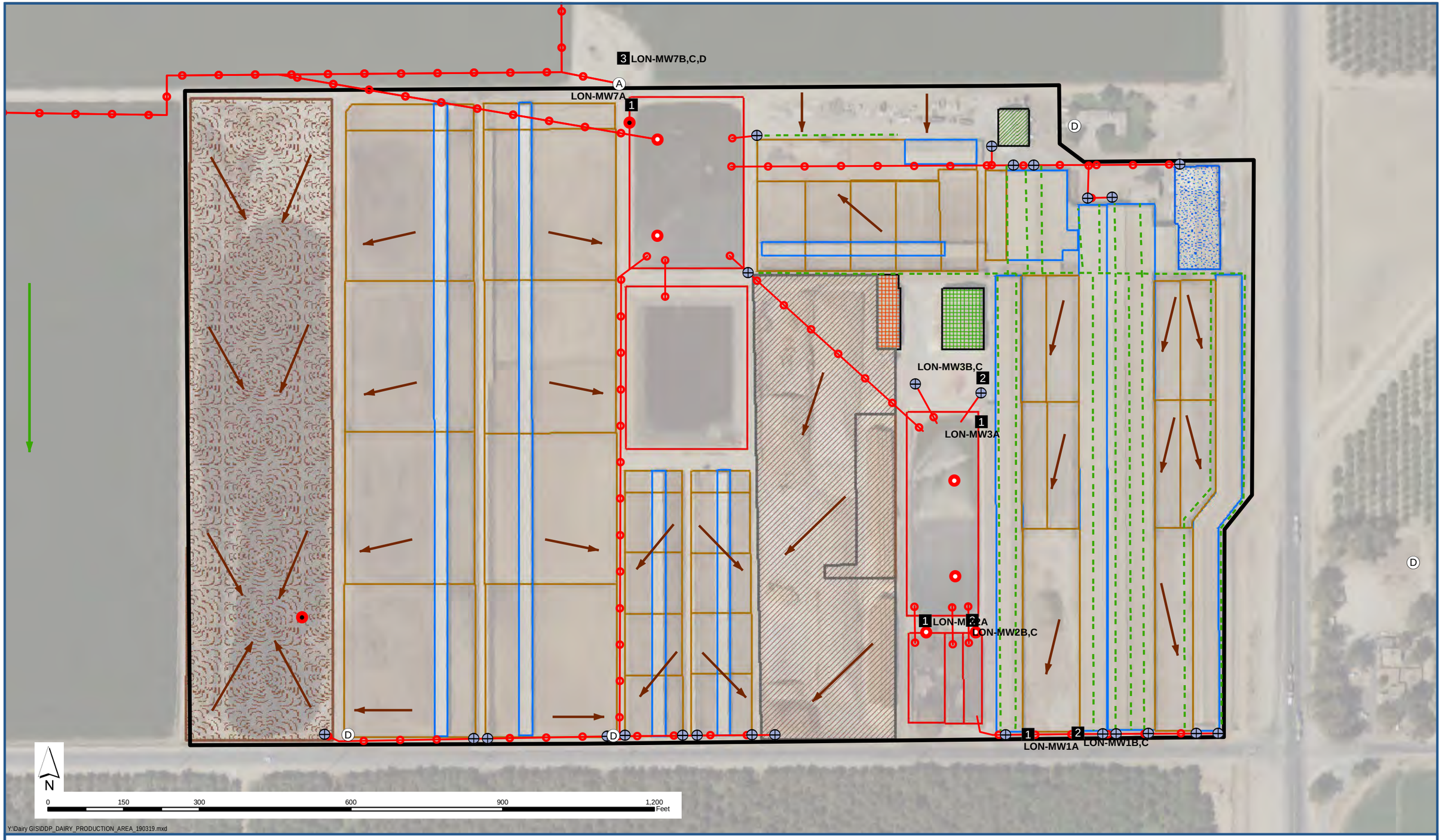
Dairy Production Area
JAD - Year 8

Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

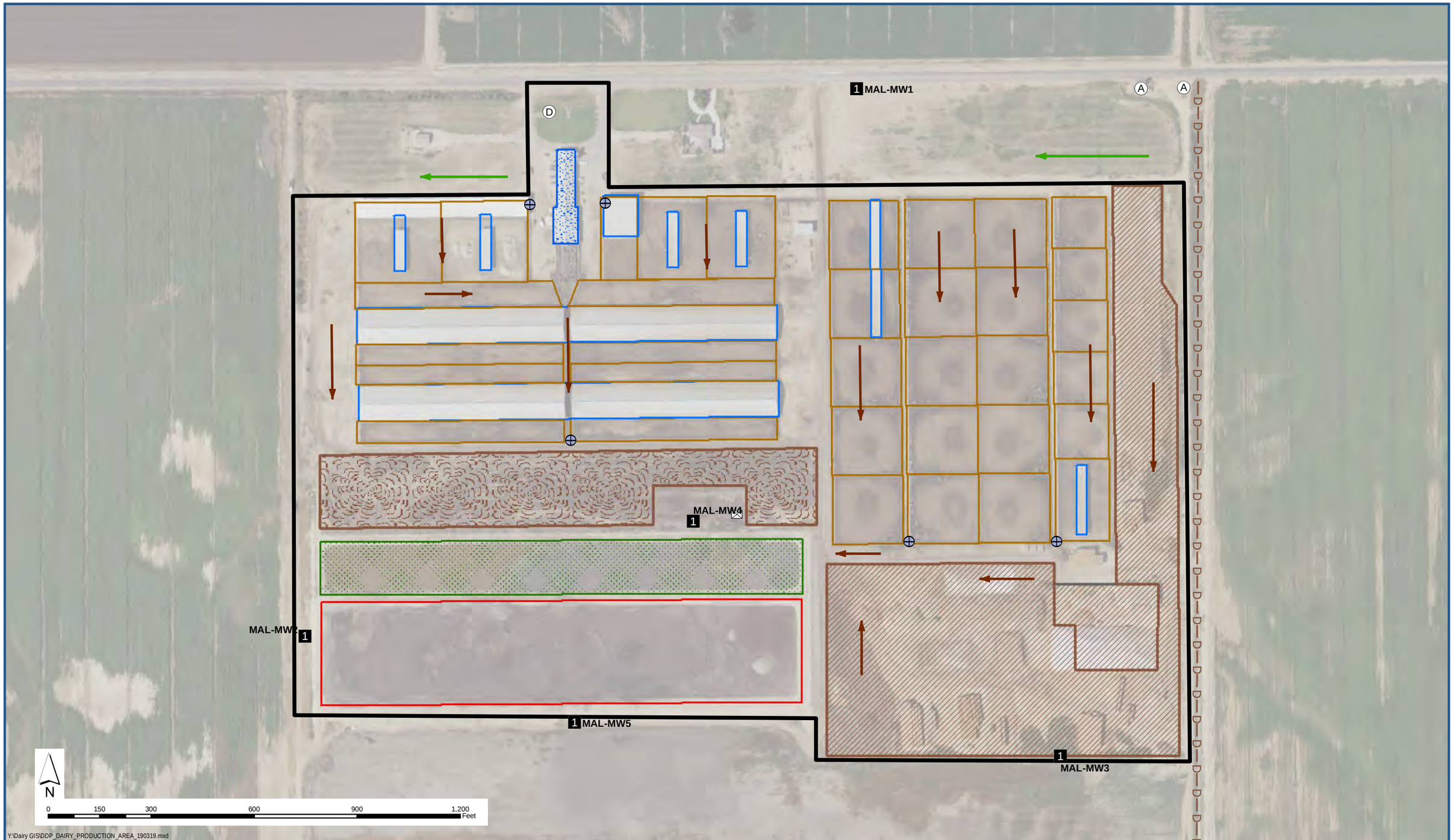
Dairy Production Area
LON - Year 8

Central Valley Dairy Representative Monitoring Program

Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area
ADO - Year 8

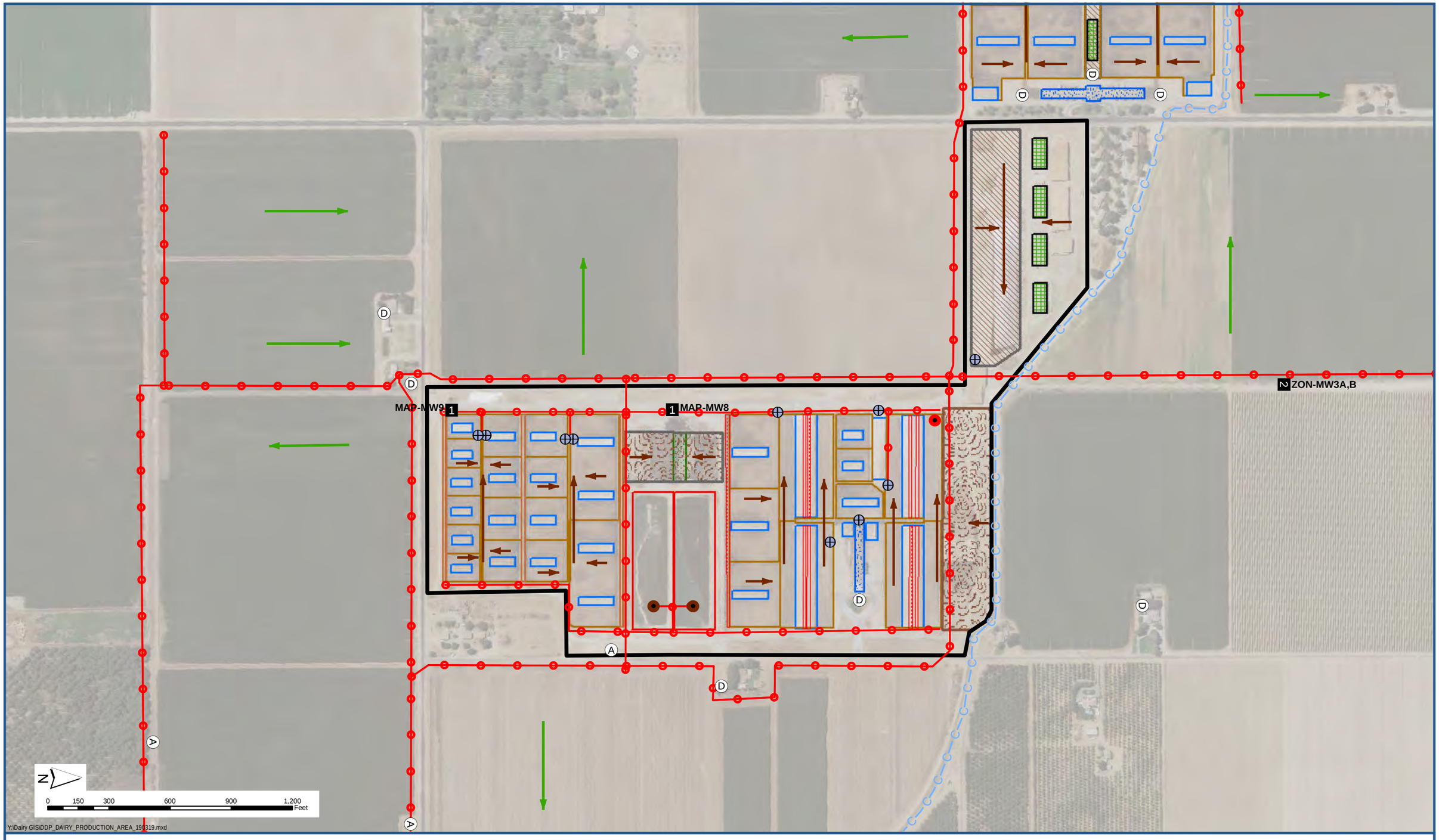
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area
MAL - Year 8

Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

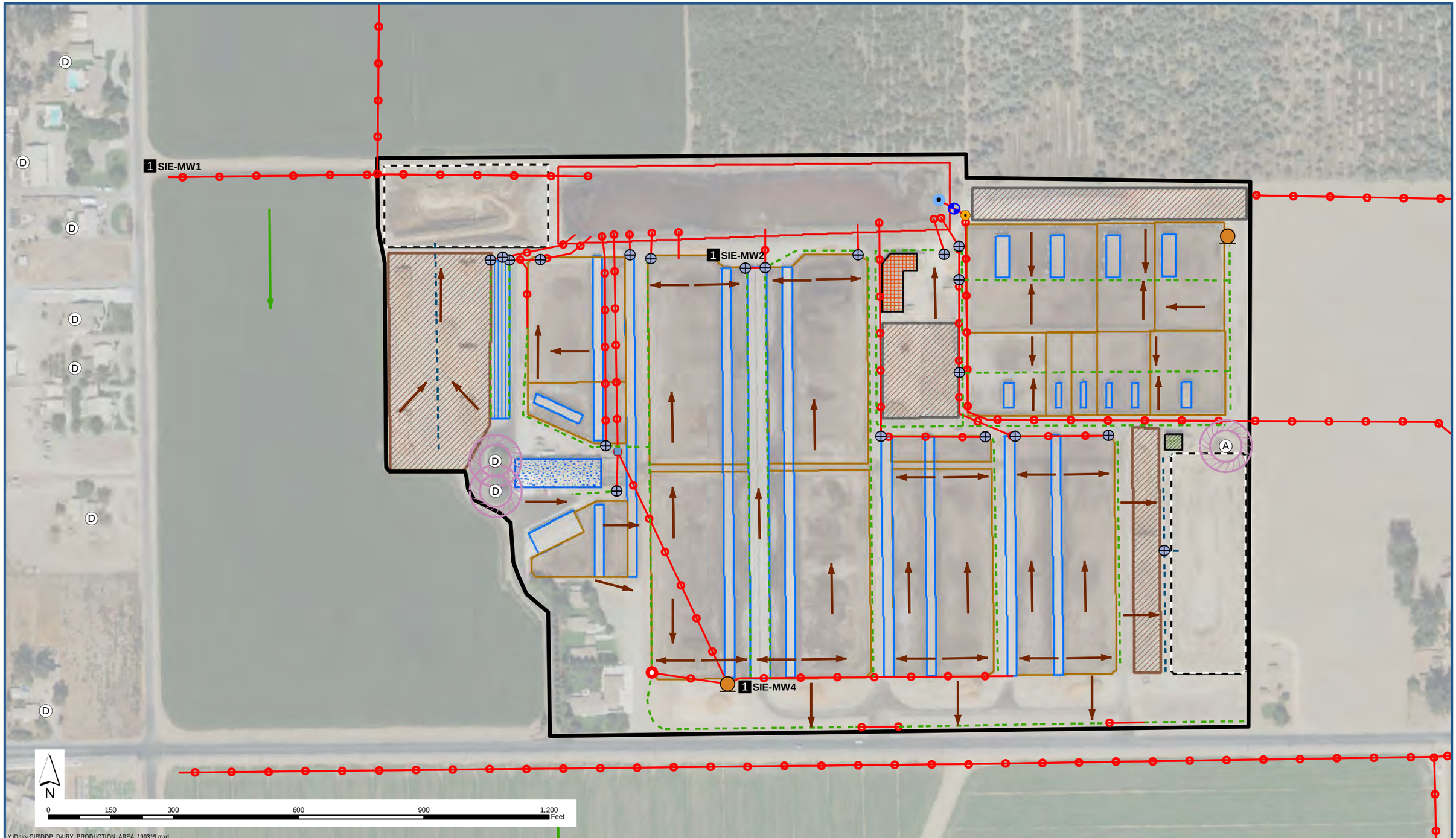
Dairy Production Area
MAP - Year 8

Central Valley Dairy Representative Monitoring Program

Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area
RIC - Year 8

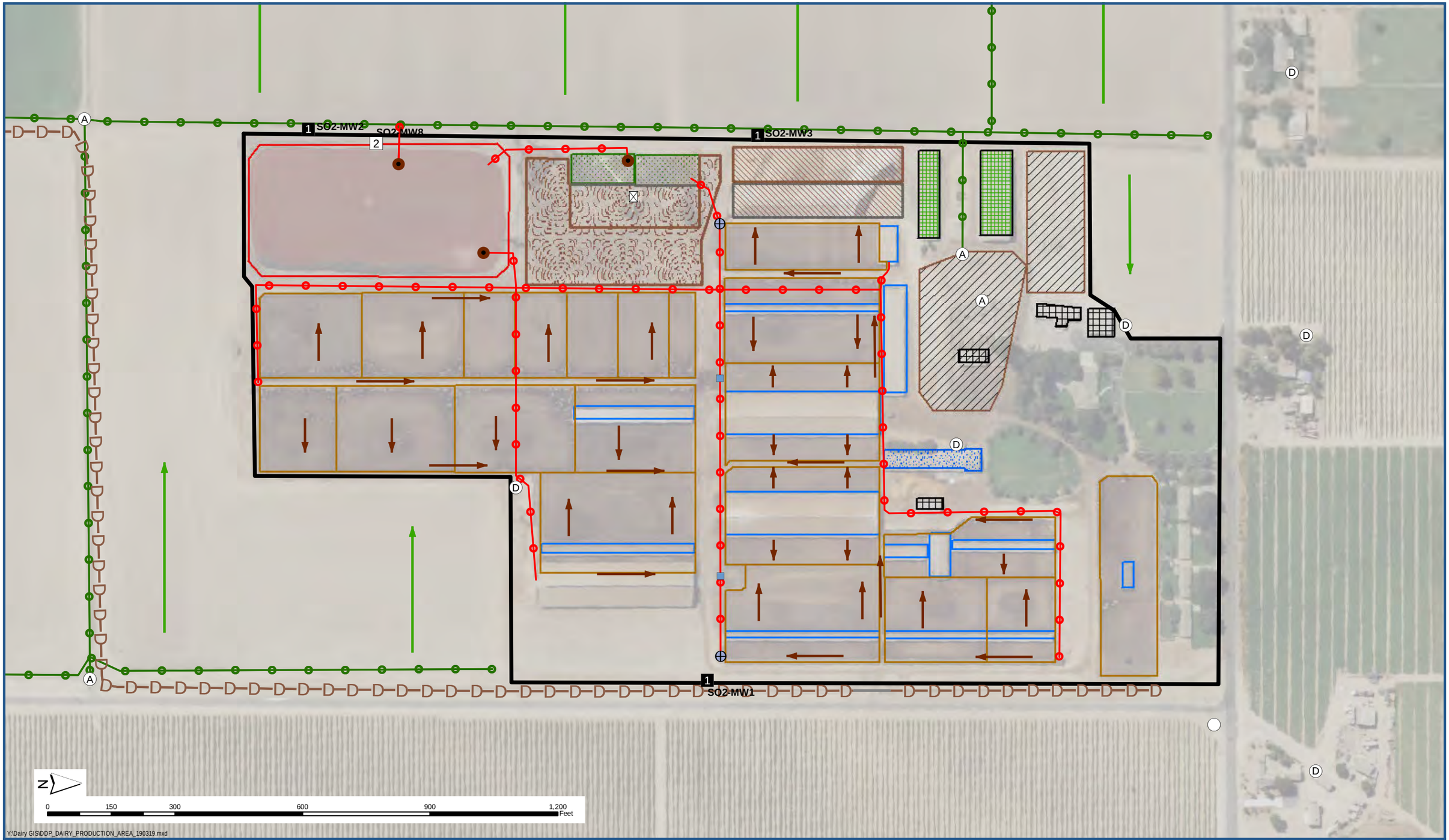
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area
SIE - Year 8

Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

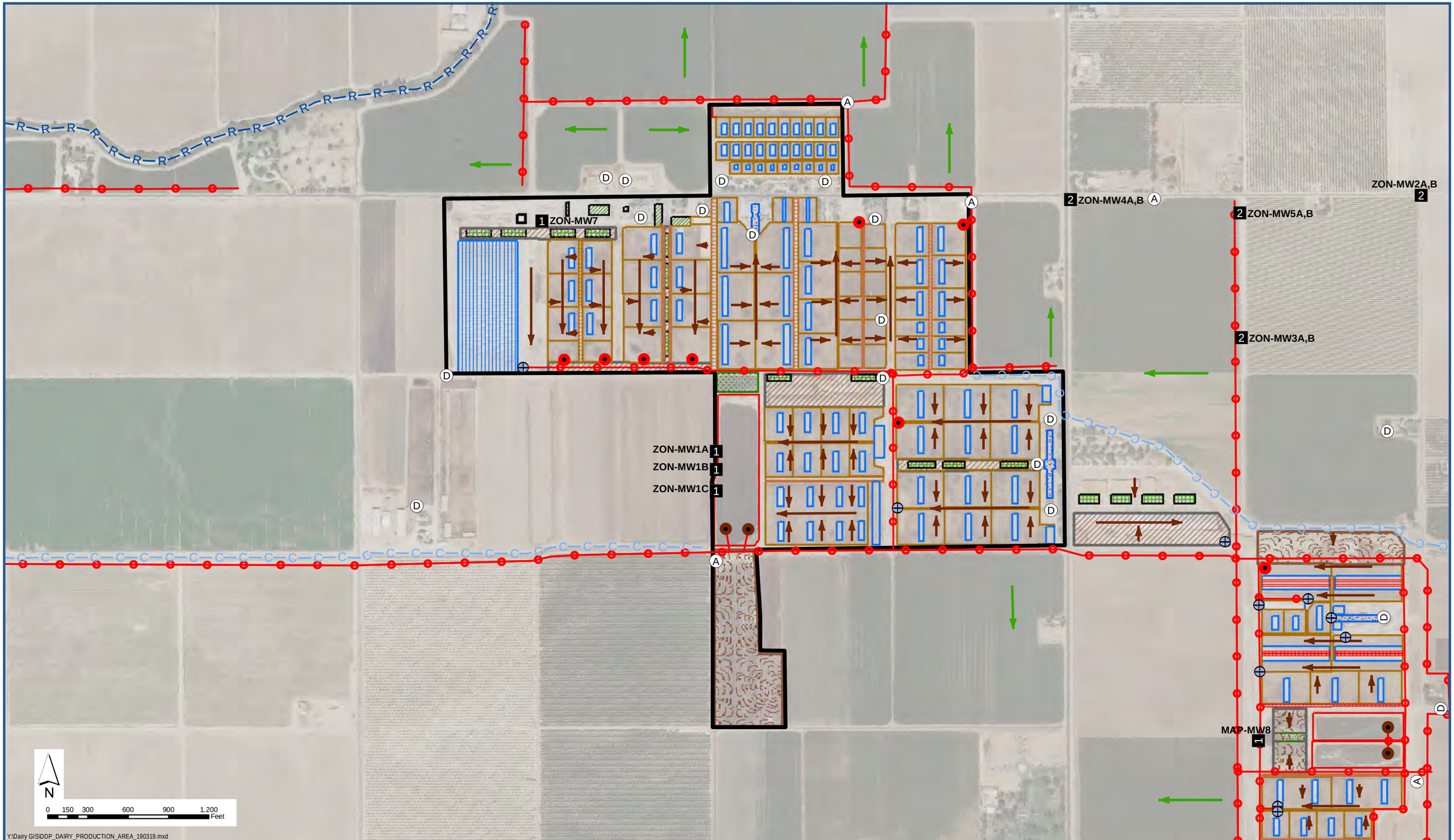
Dairy Production Area
SO2 - Year 8

Central Valley Dairy Representative Monitoring Program

Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area
SOJ - Year 8

Central Valley Dairy Representative Monitoring Program



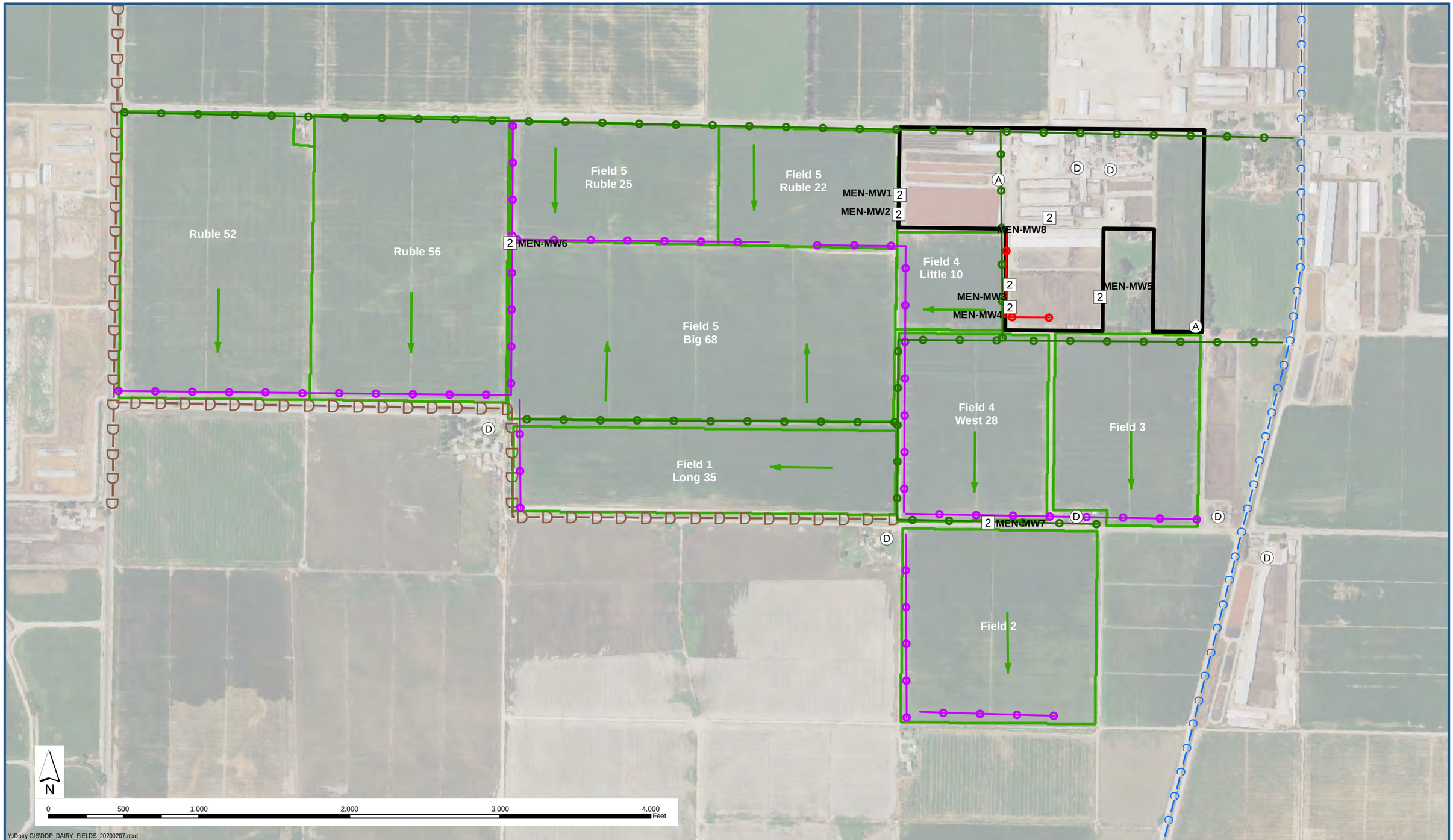
Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area
ZON - Year 8

Central Valley Dairy Representative Monitoring Program

Map Series
Dairy Production Area and Associated Fields

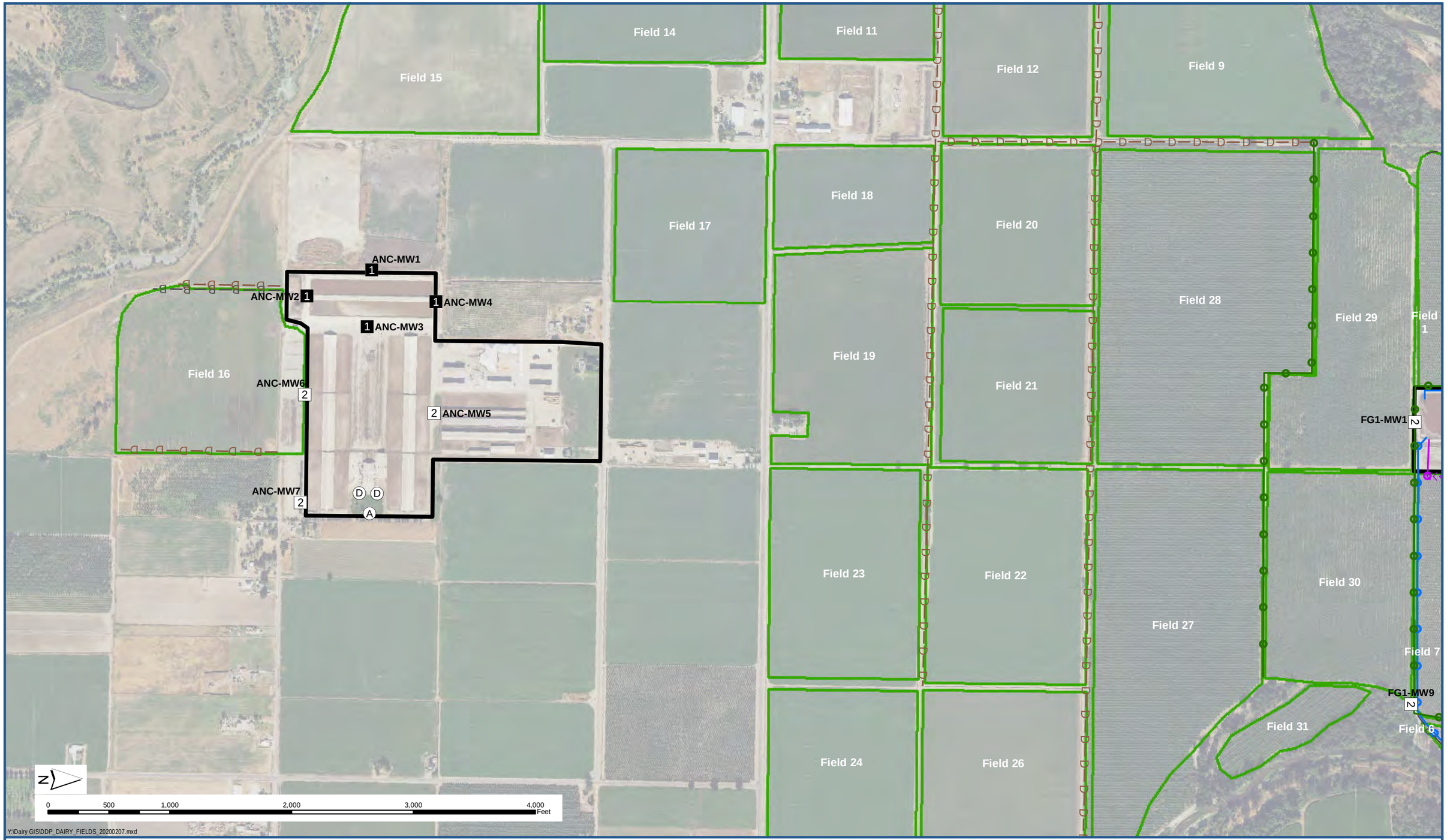
Central Area | East Side:	MEN, ANC, BET, DIE, DUR, FG1, COT, SAN, GEN, TRO, PLS, CAE, ROB, WOO
Central Area | West Side:	ANT, FG2, GOD, MAC and NUN, MOO, TON
North Area:	BRE, CRE, MTS
South Area:	AUK, DLF, ELK, ZZI, HOL, HYN, JAD, LON, MAL, MAP and ZON, RIC, SIE, SO2, SOJ



Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
MEN - Year 8

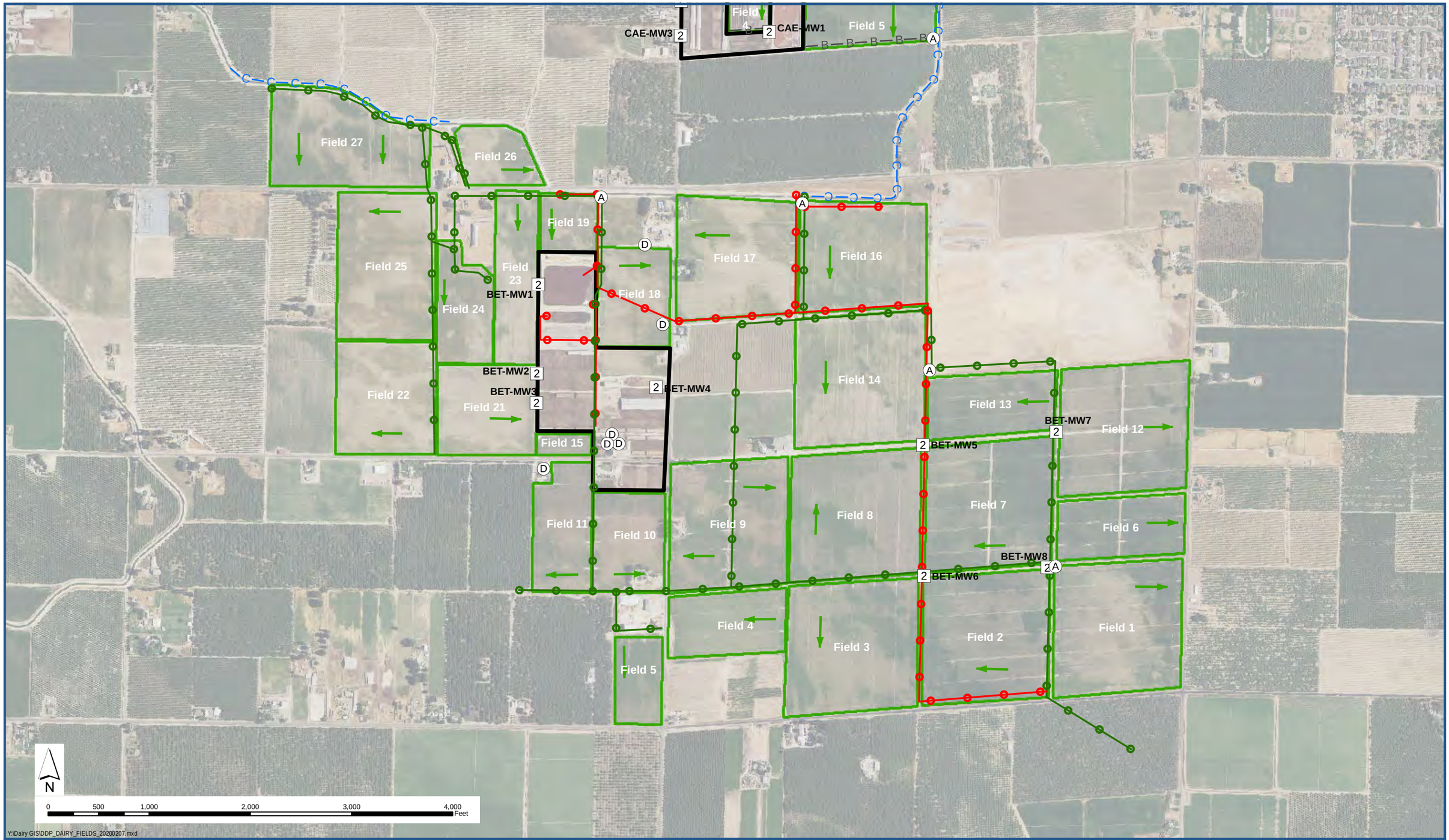
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
ANC - Year 8

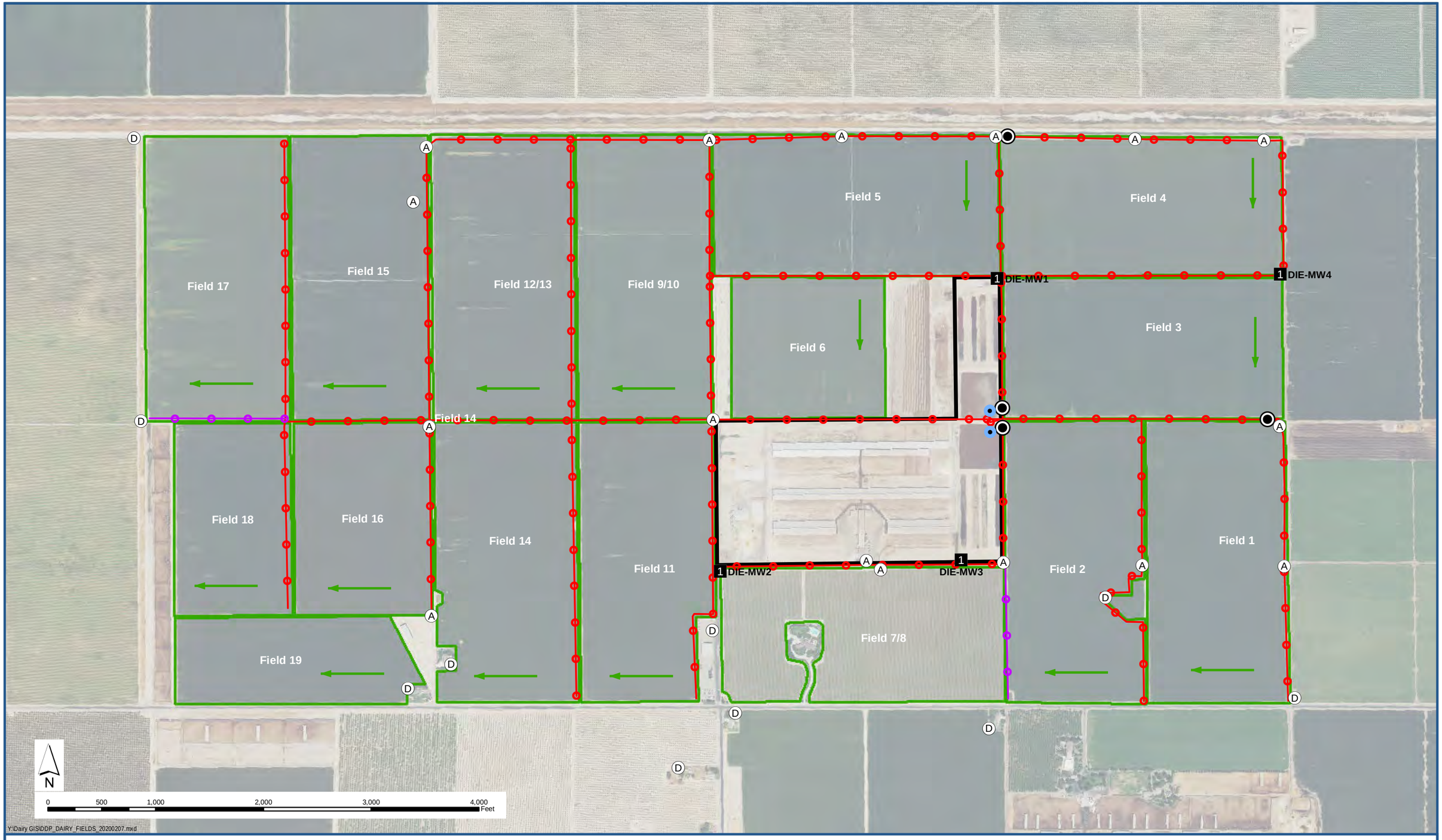
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
BET - Year 8

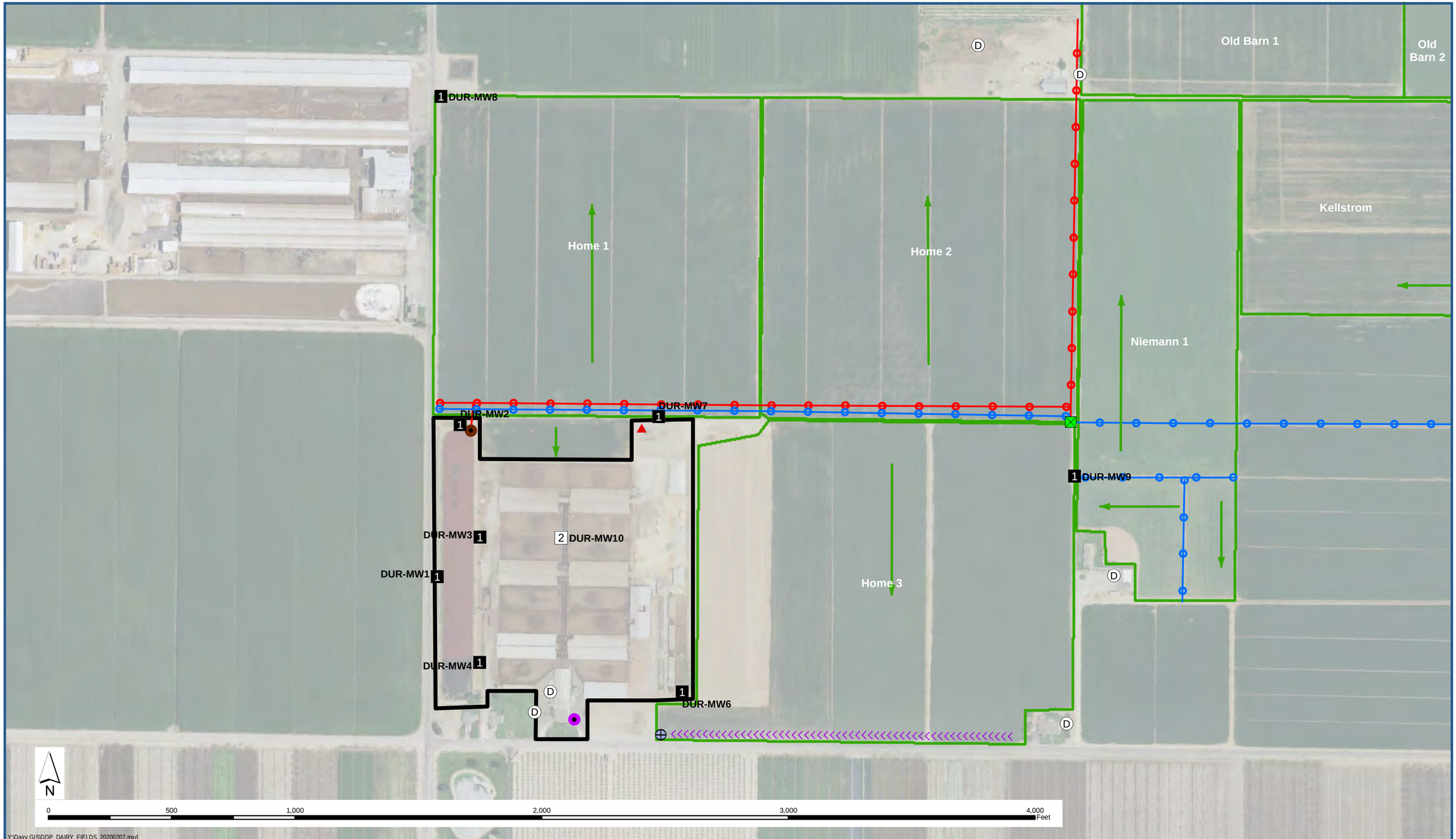
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
DIE - Year 8

Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

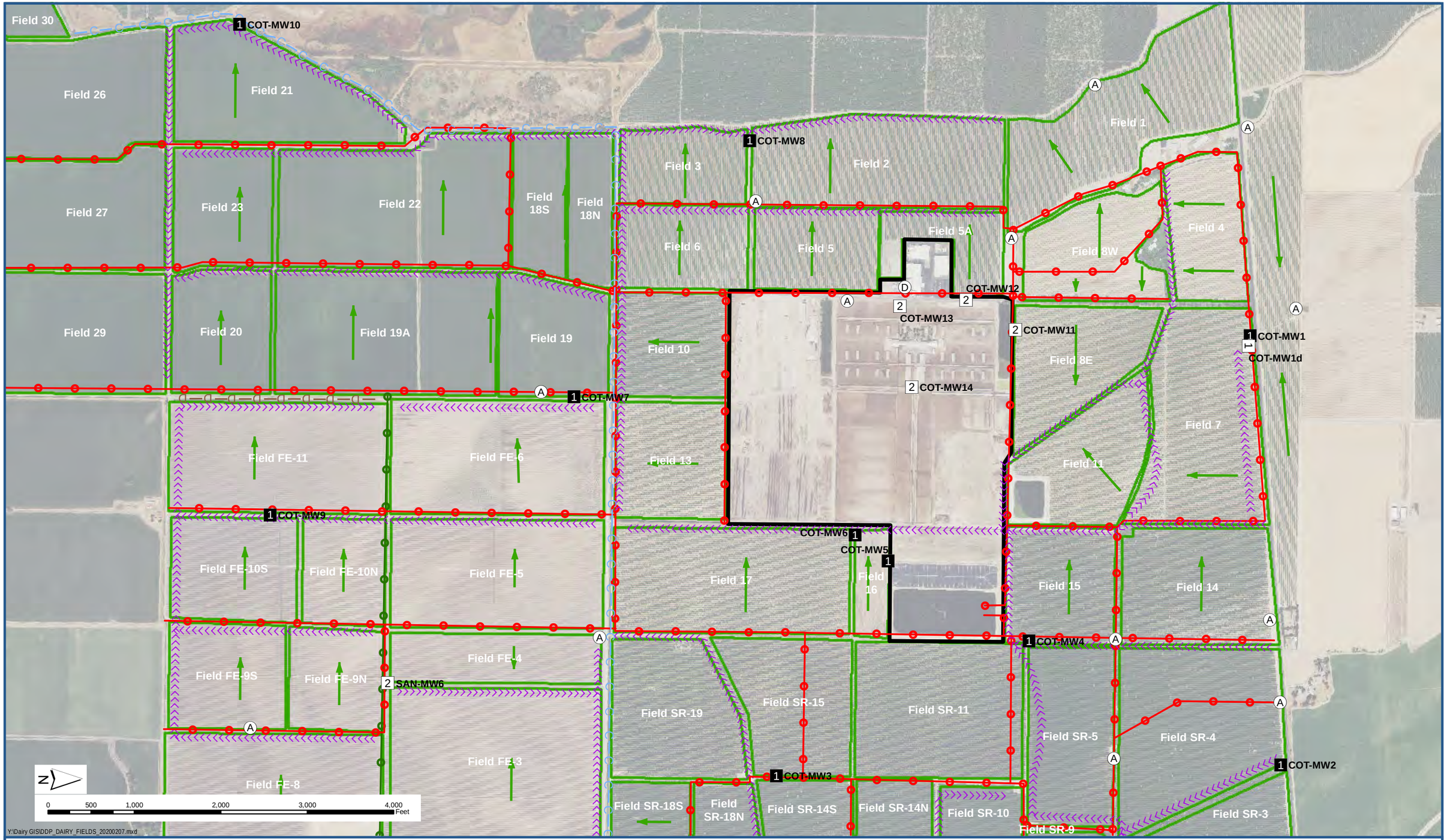
Dairy Production Area and Associated Fields
DUR - Year 8

Central Valley Dairy Representative Monitoring Program

Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
FG1 - Year 8

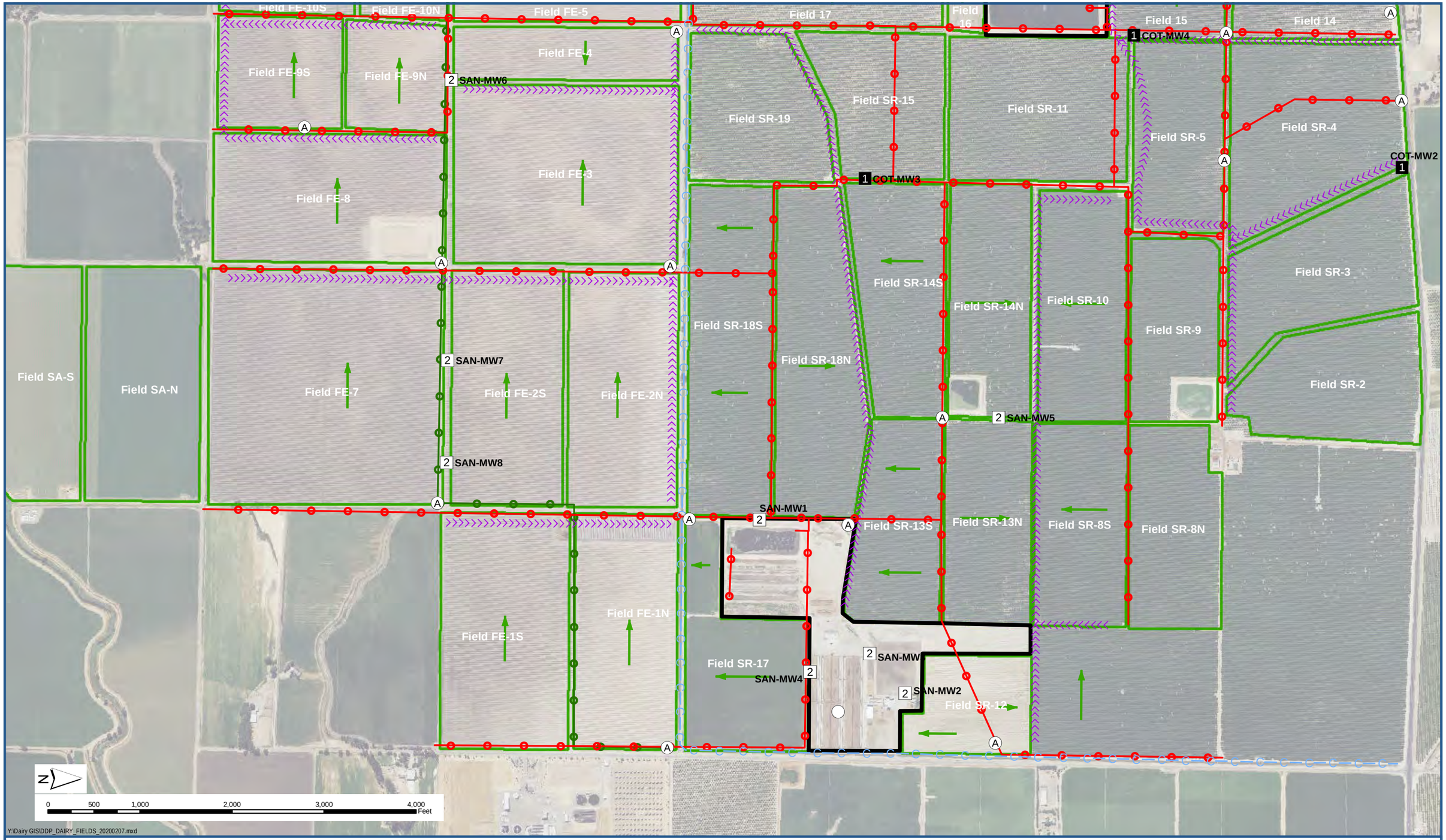
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
COT - Year 8

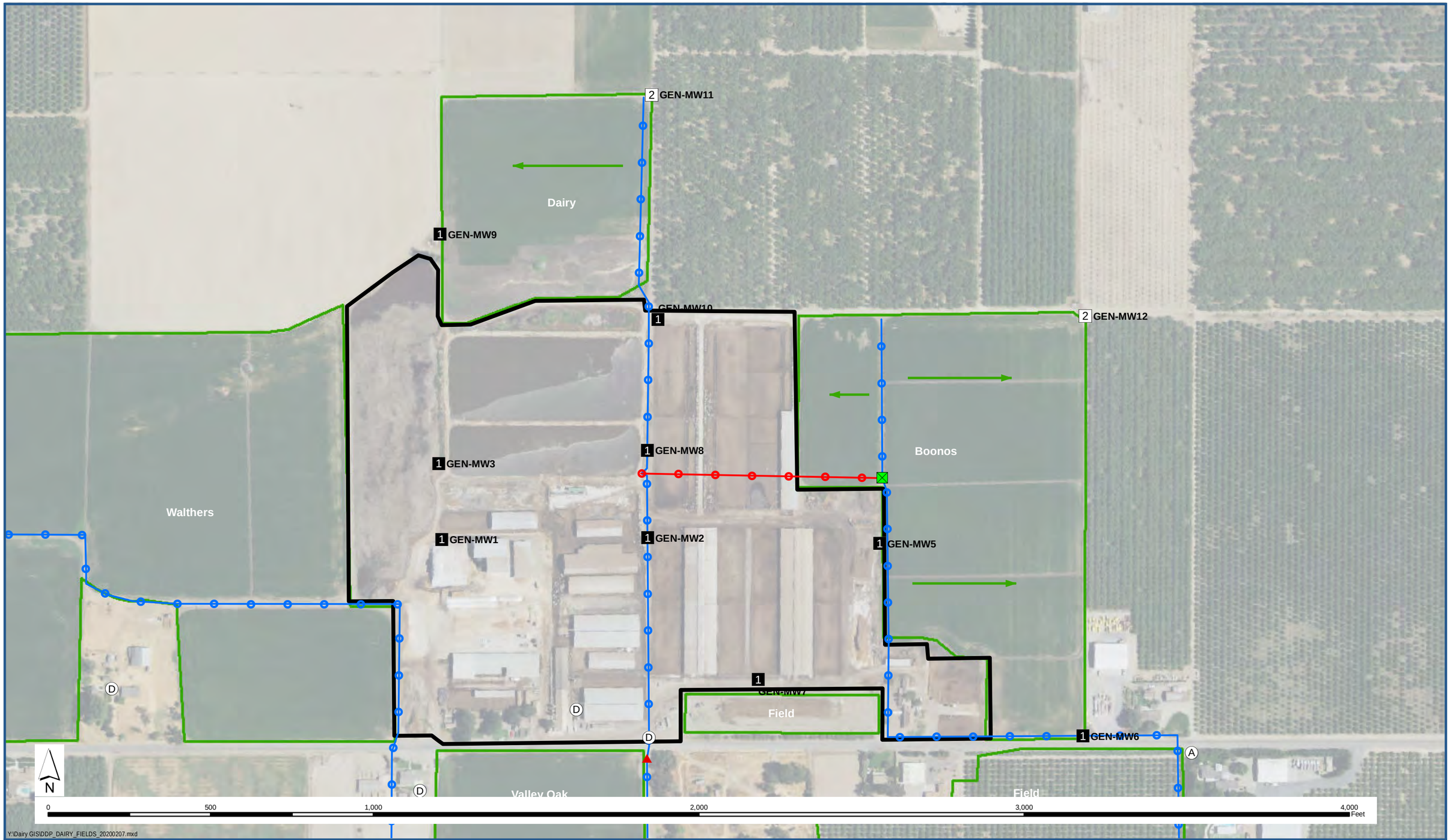
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
SAN - Year 8

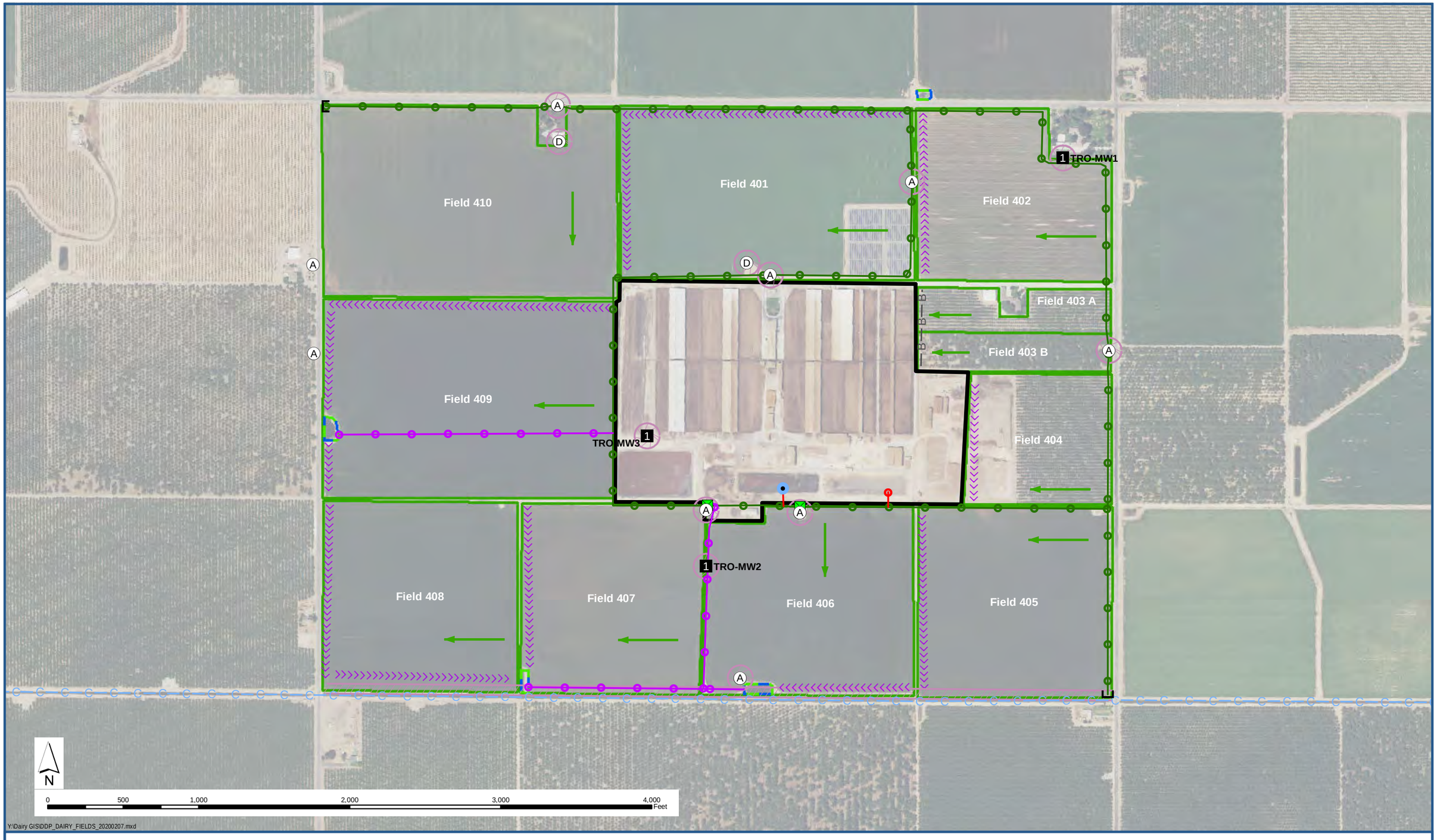
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
GEN - Year 8

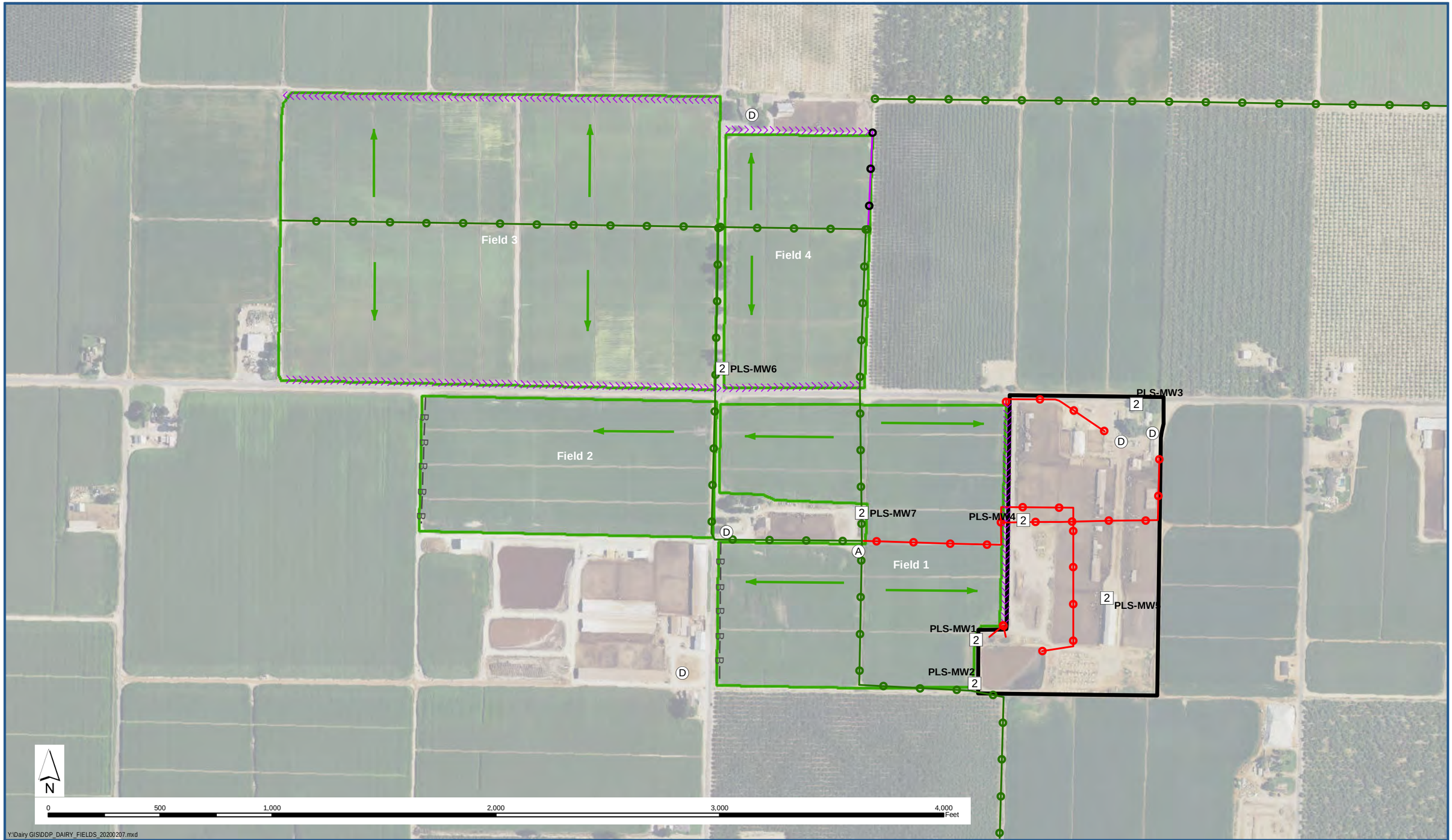
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
TRO - Year 8

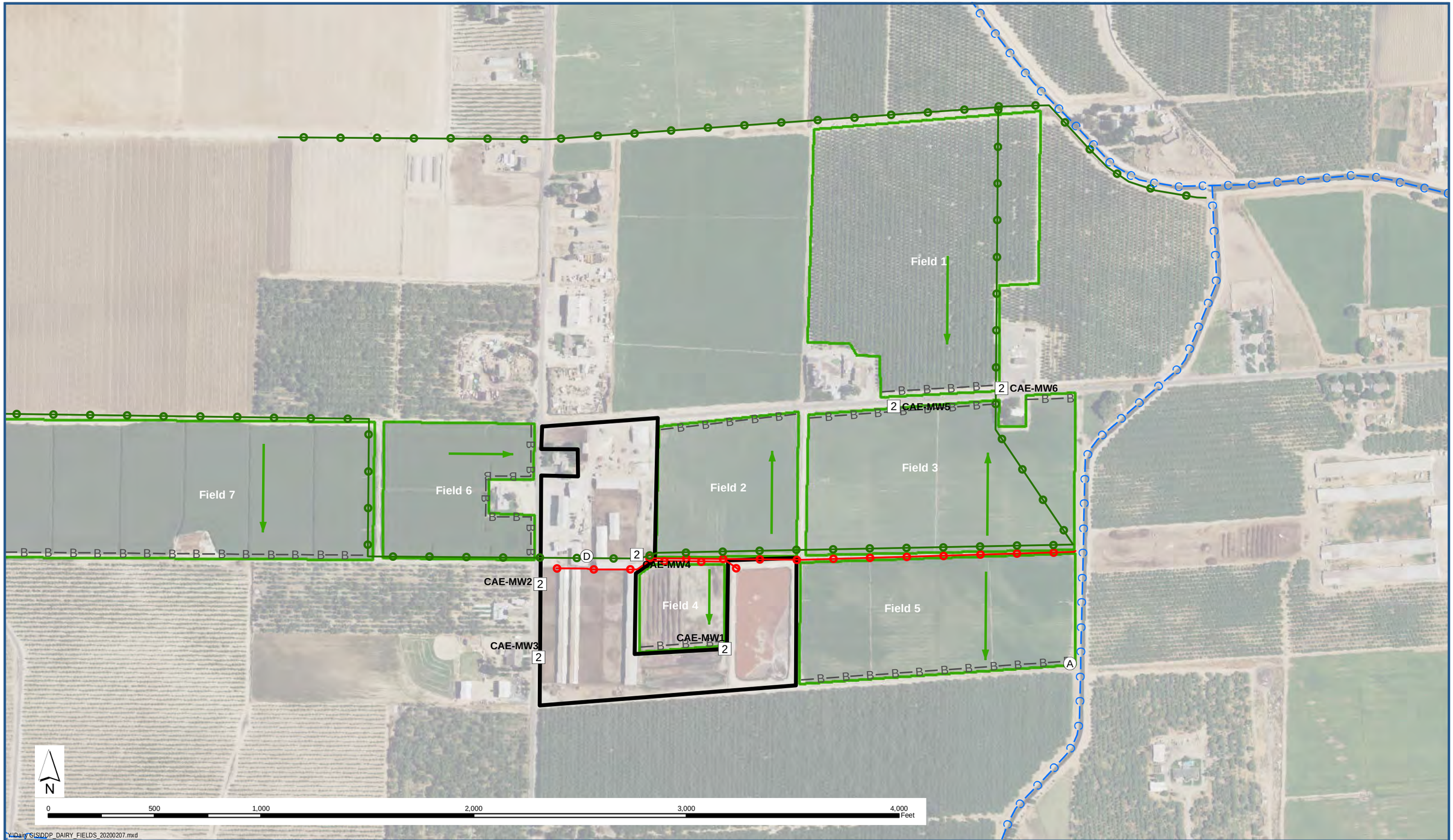
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
PLS - Year 8

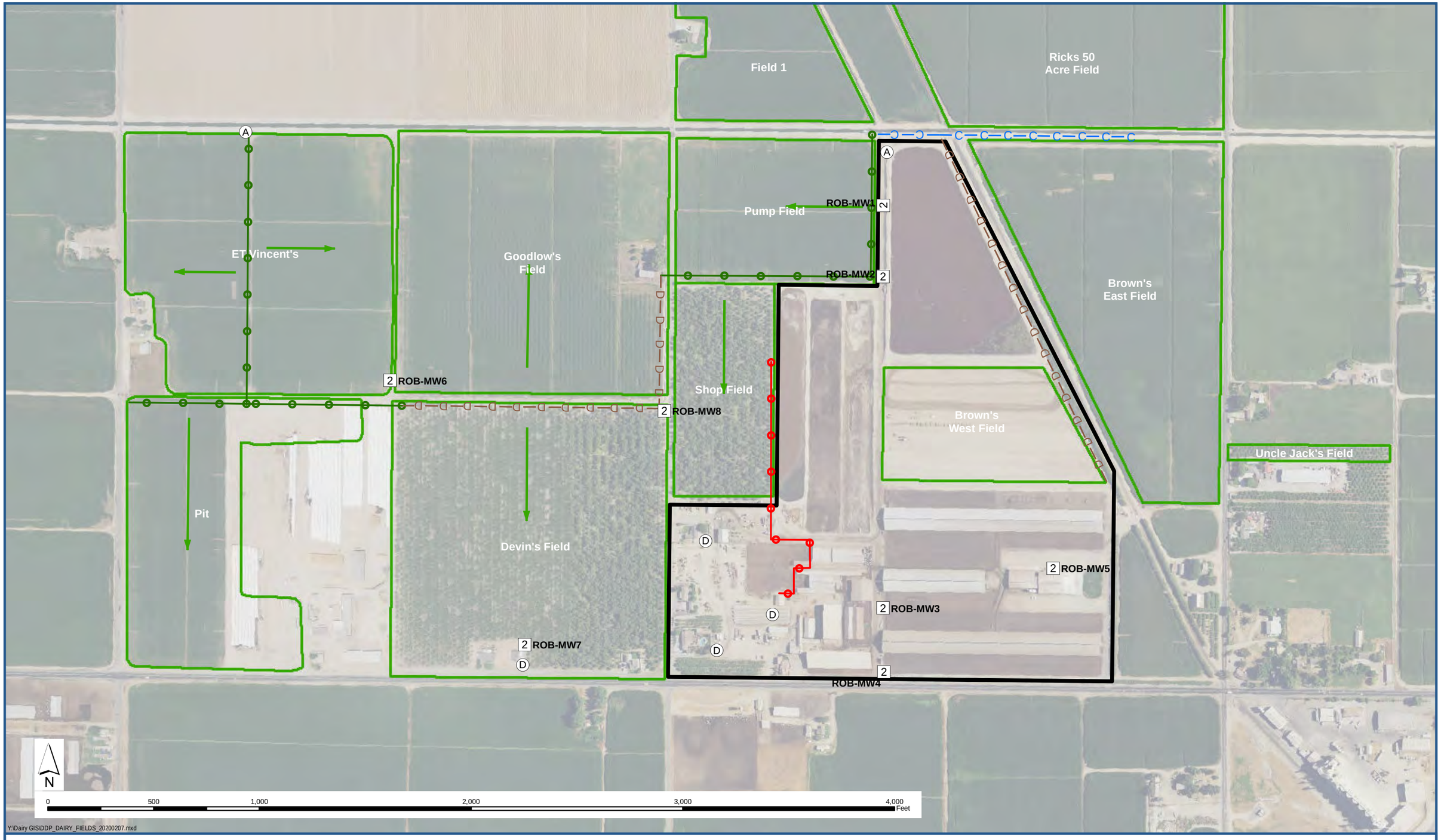
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
CAE - Year 8

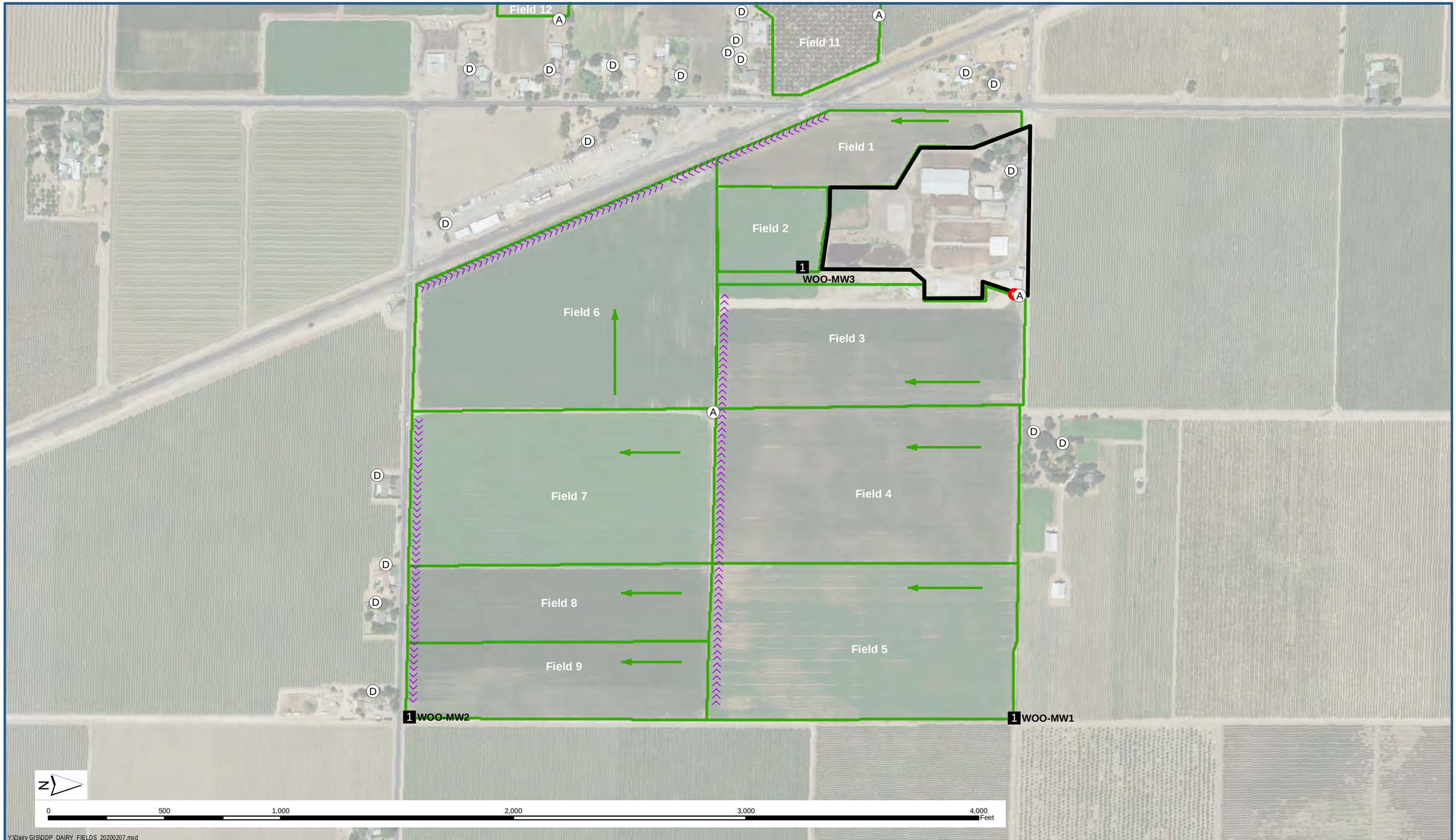
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
ROB - Year 8

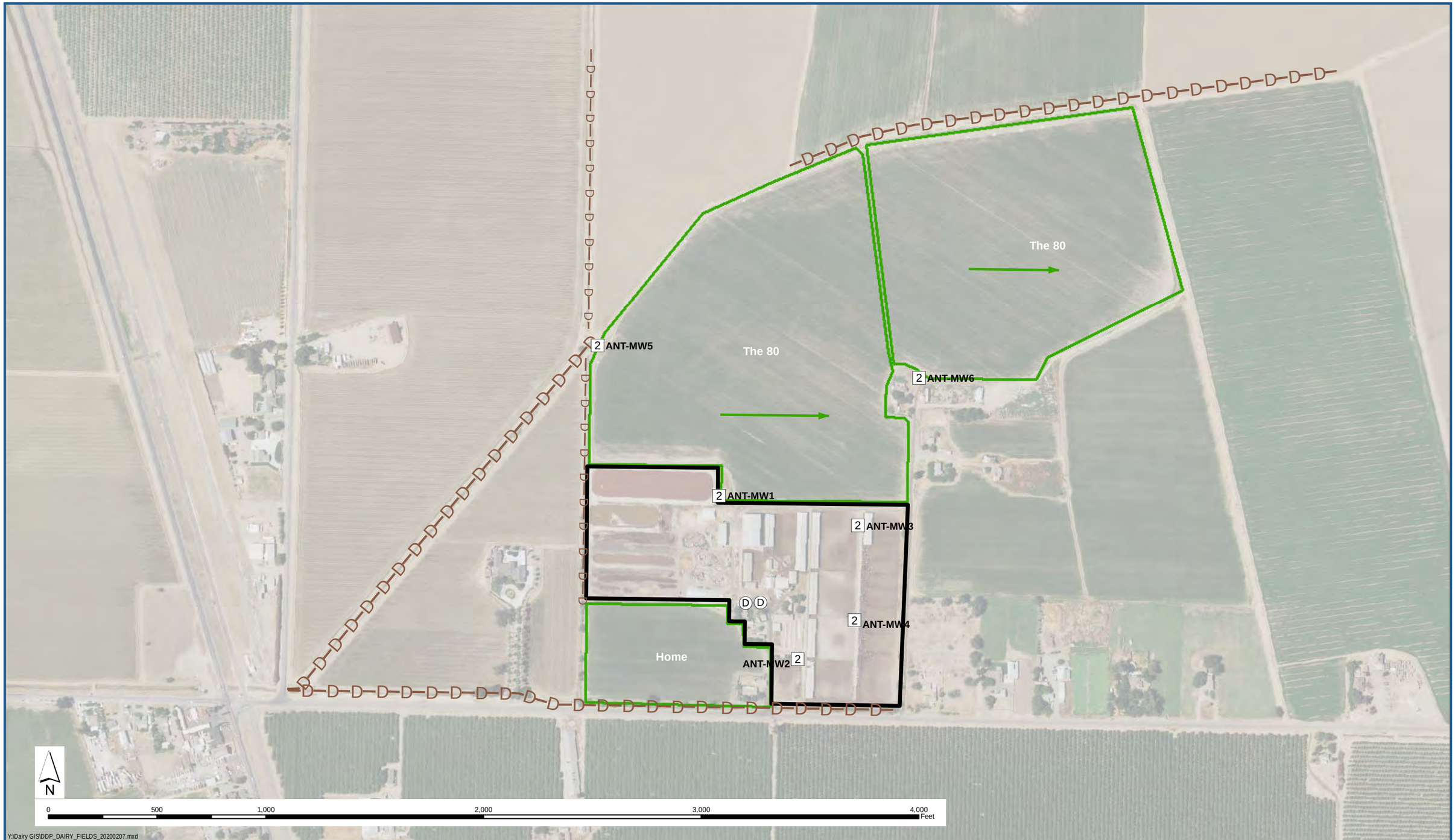
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
WOO - Year 8

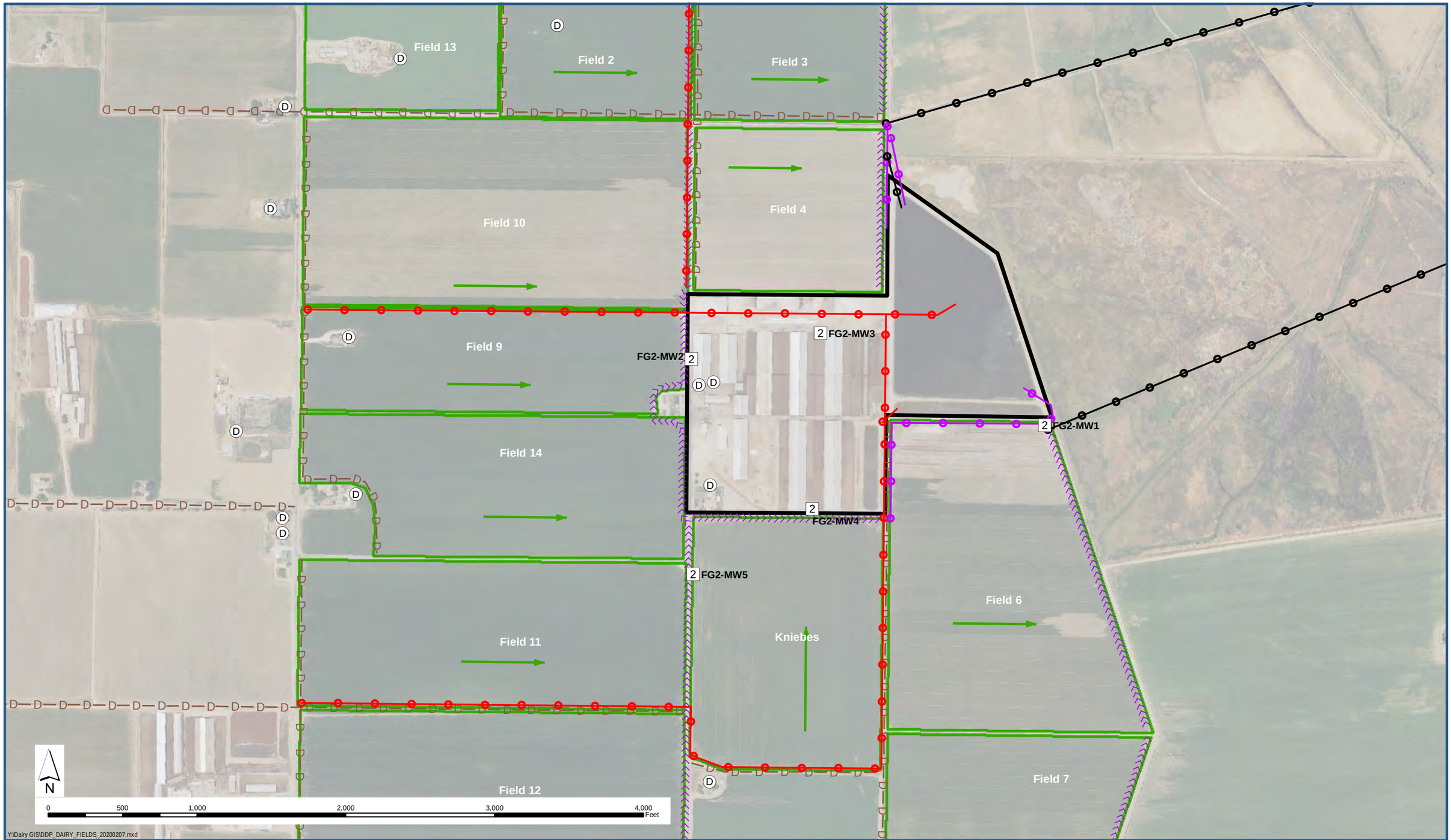
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
ANT - Year 8

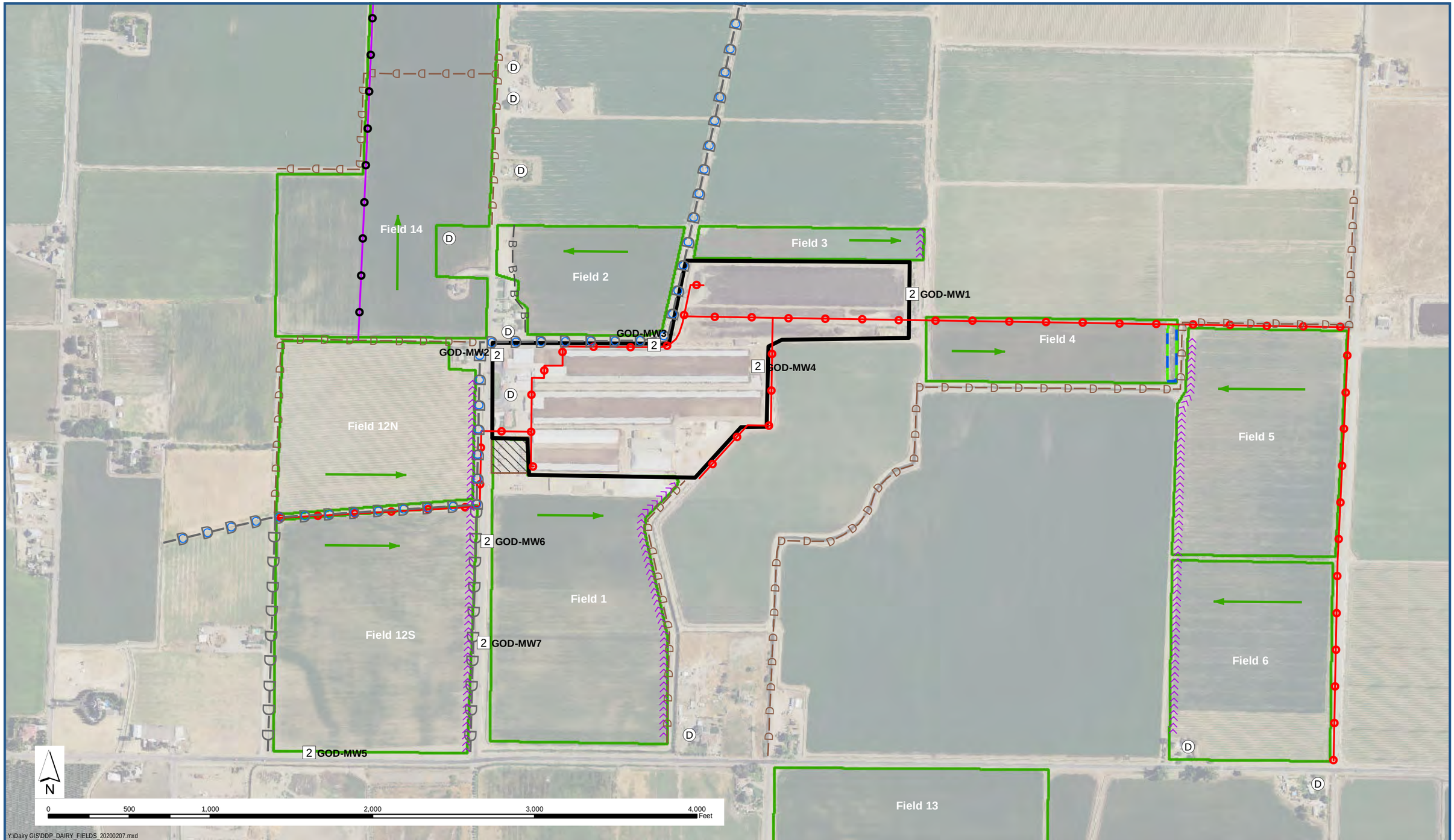
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
FG2 - Year 8

Central Valley Dairy Representative Monitoring Program



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Consulting Engineers

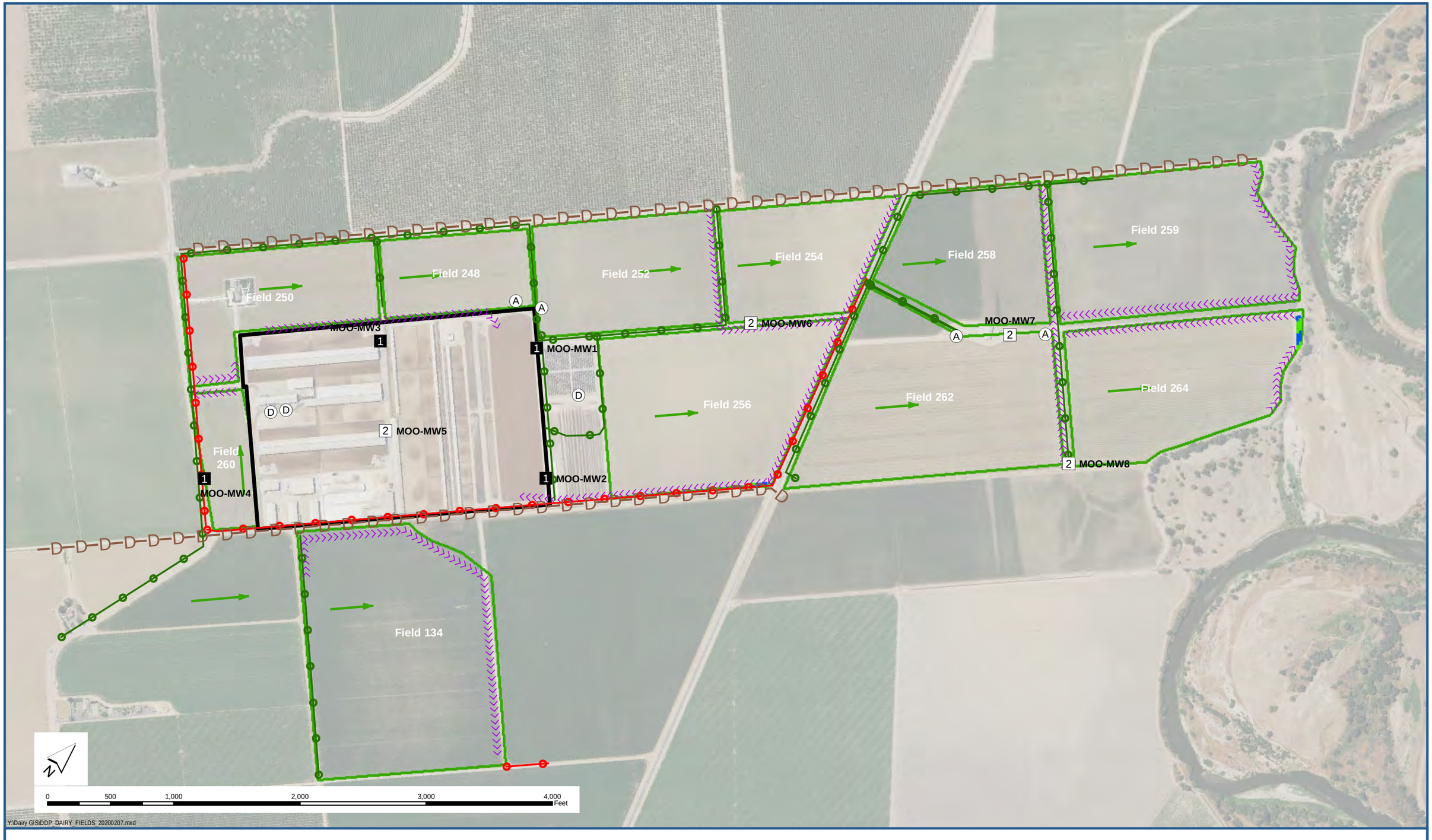
Dairy Production Area and Associated Fields
GOD - Year 8

Central Valley Dairy Representative Monitoring Program

Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
MAC/NUN - Year 8

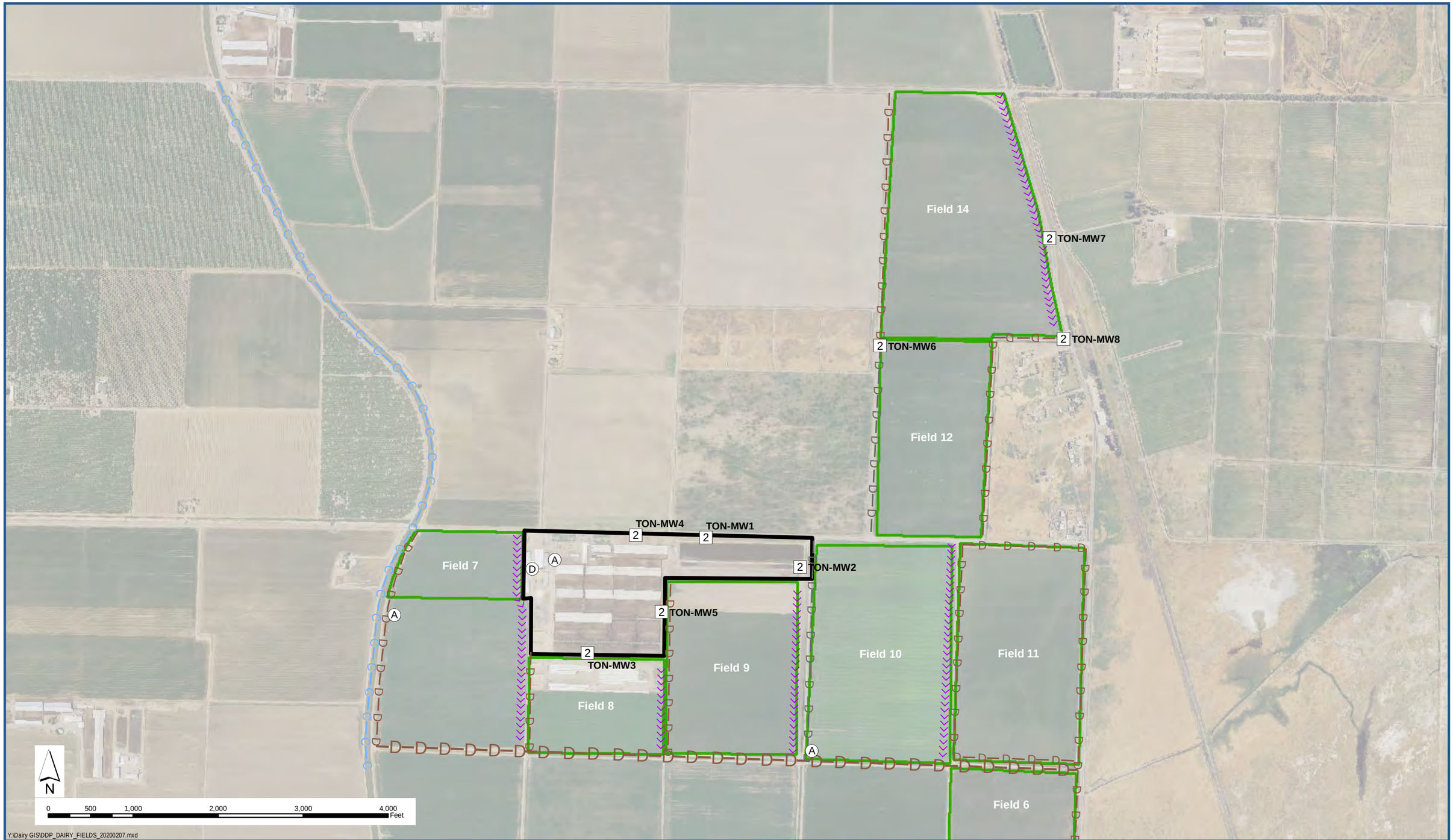
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
MOO - Year 8

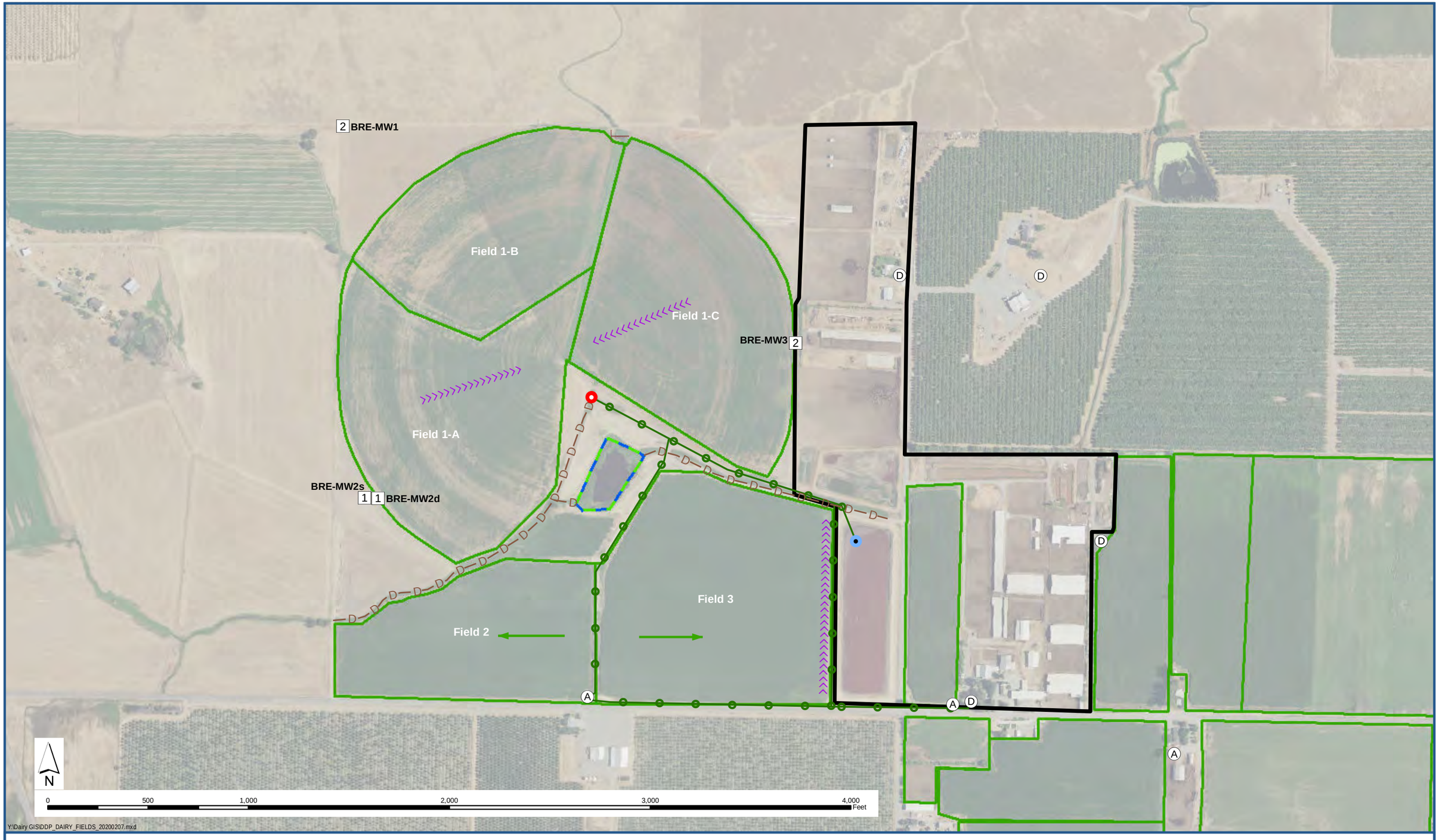
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
TON - Year 8

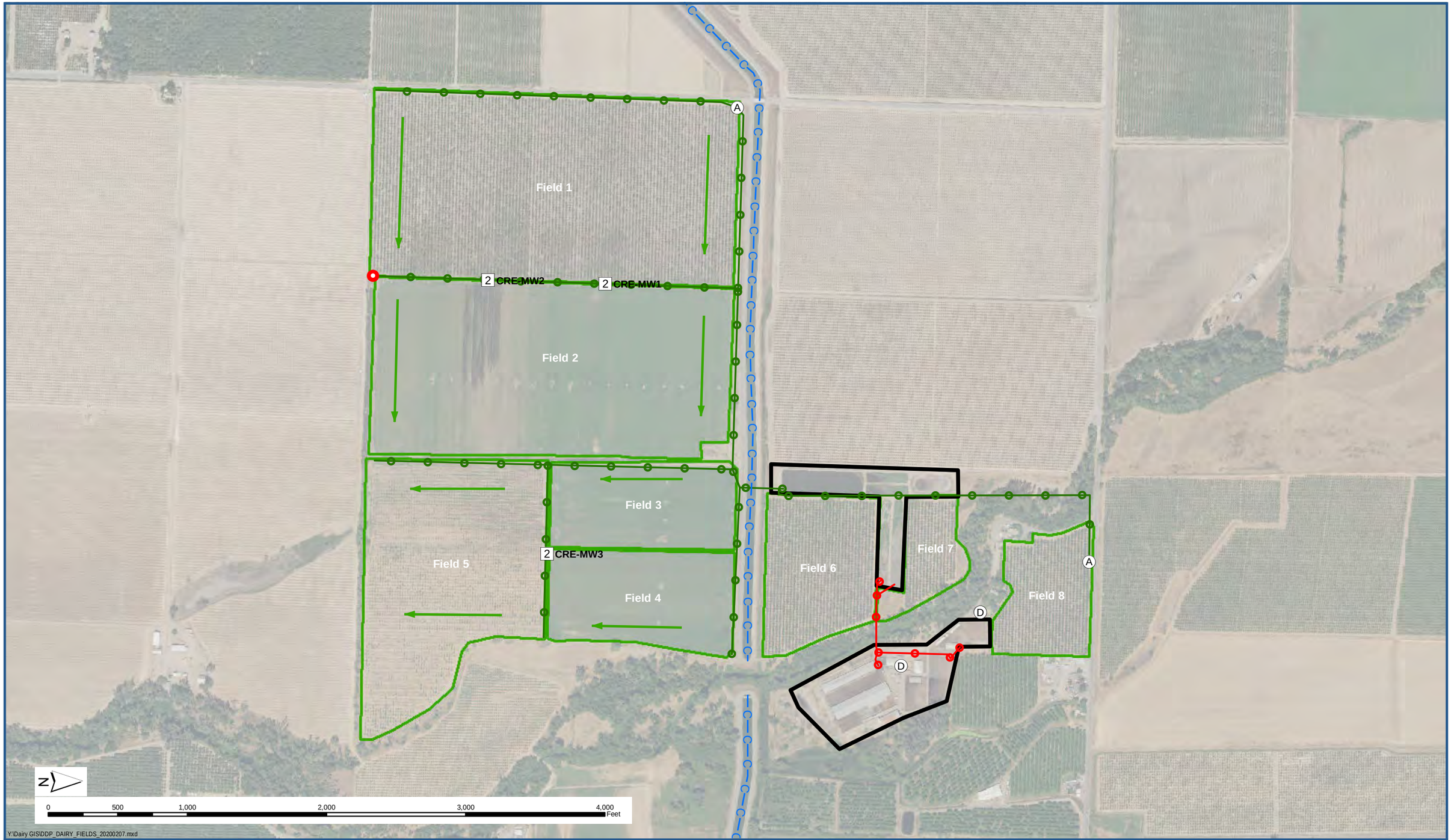
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
BRE - Year 8

Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

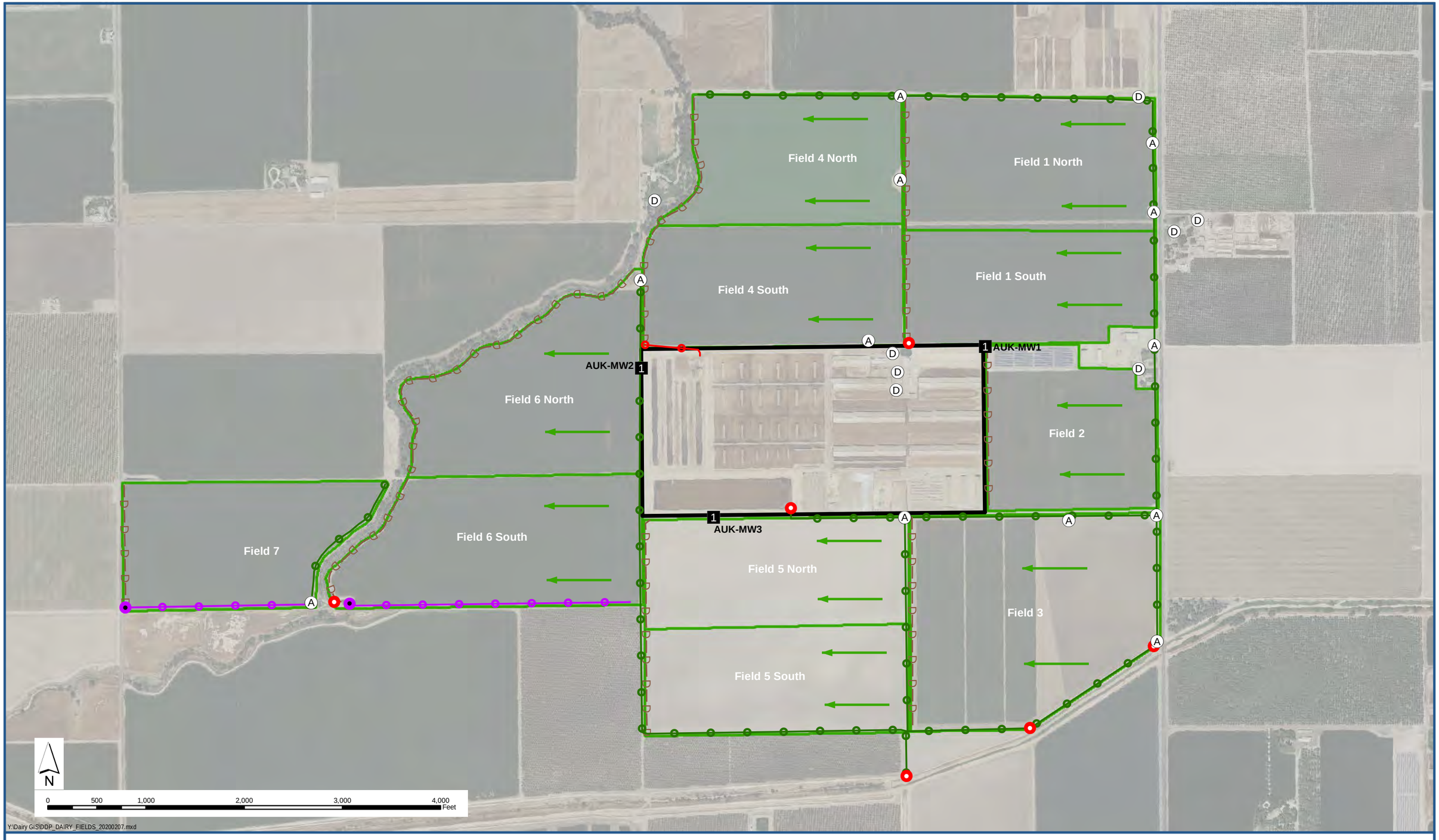
Dairy Production Area and Associated Fields
CRE - Year 8

Central Valley Dairy Representative Monitoring Program

Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
MTS - Year 8

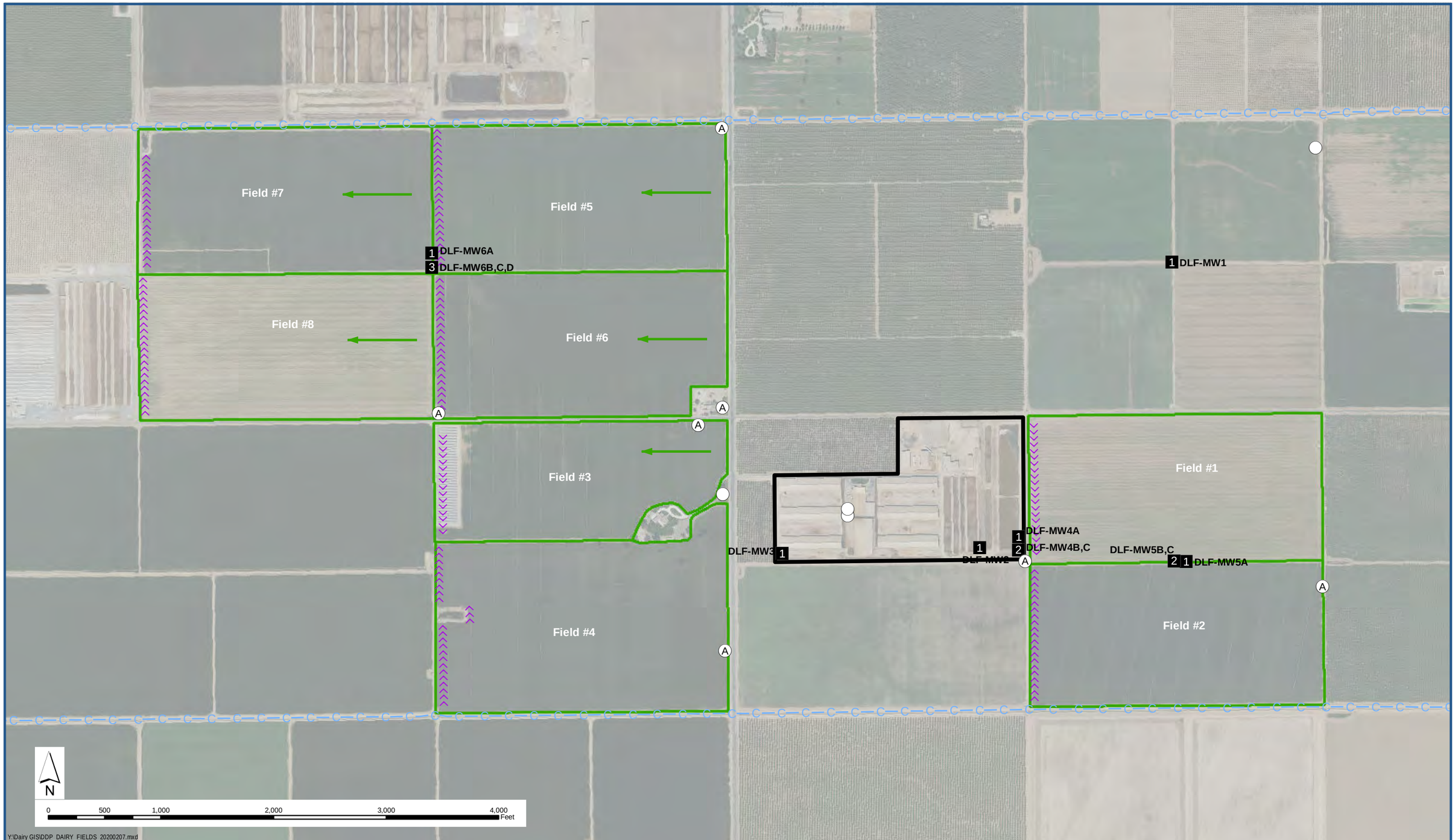
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
AUK - Year 8

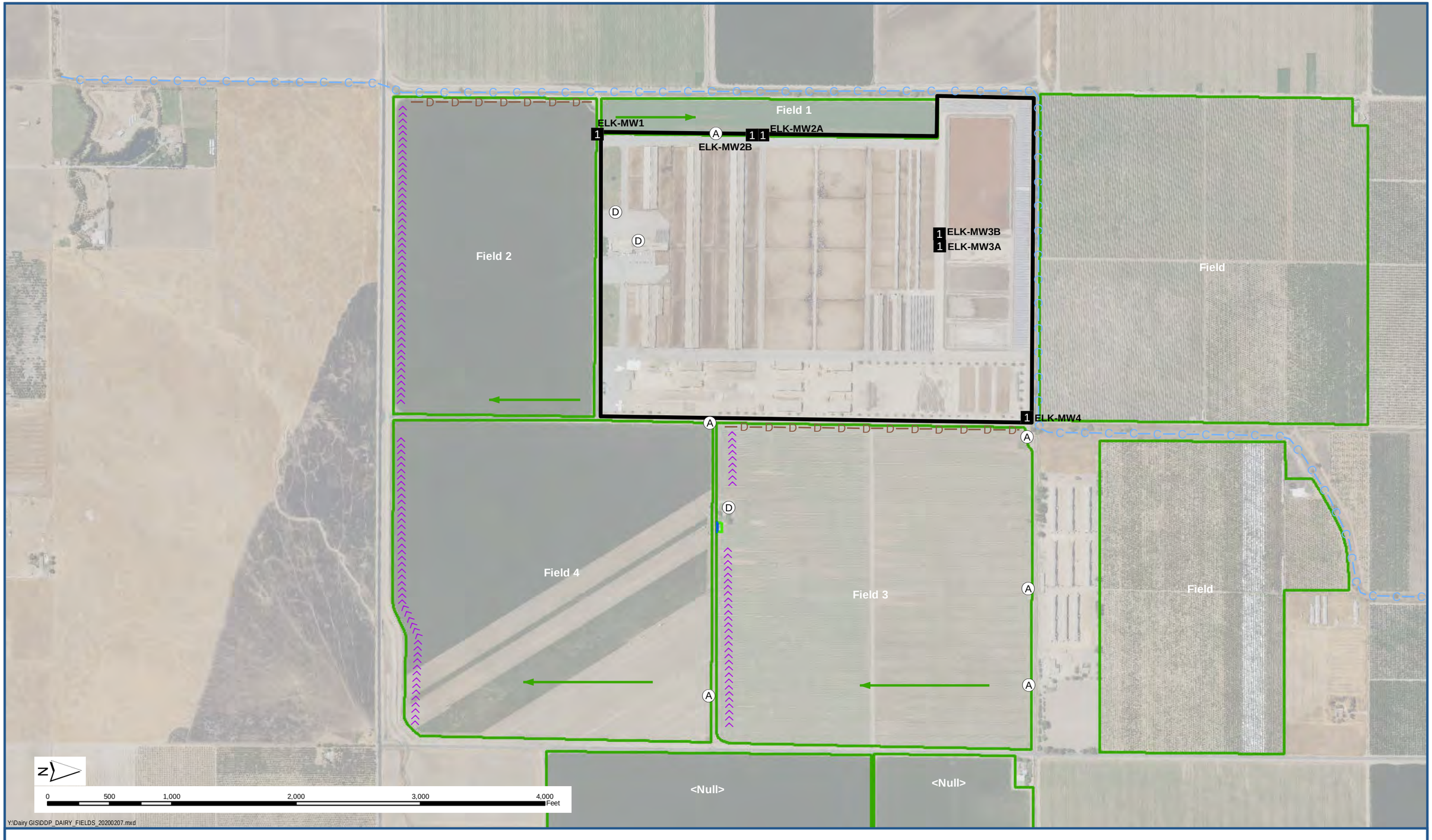
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
DLF - Year 8

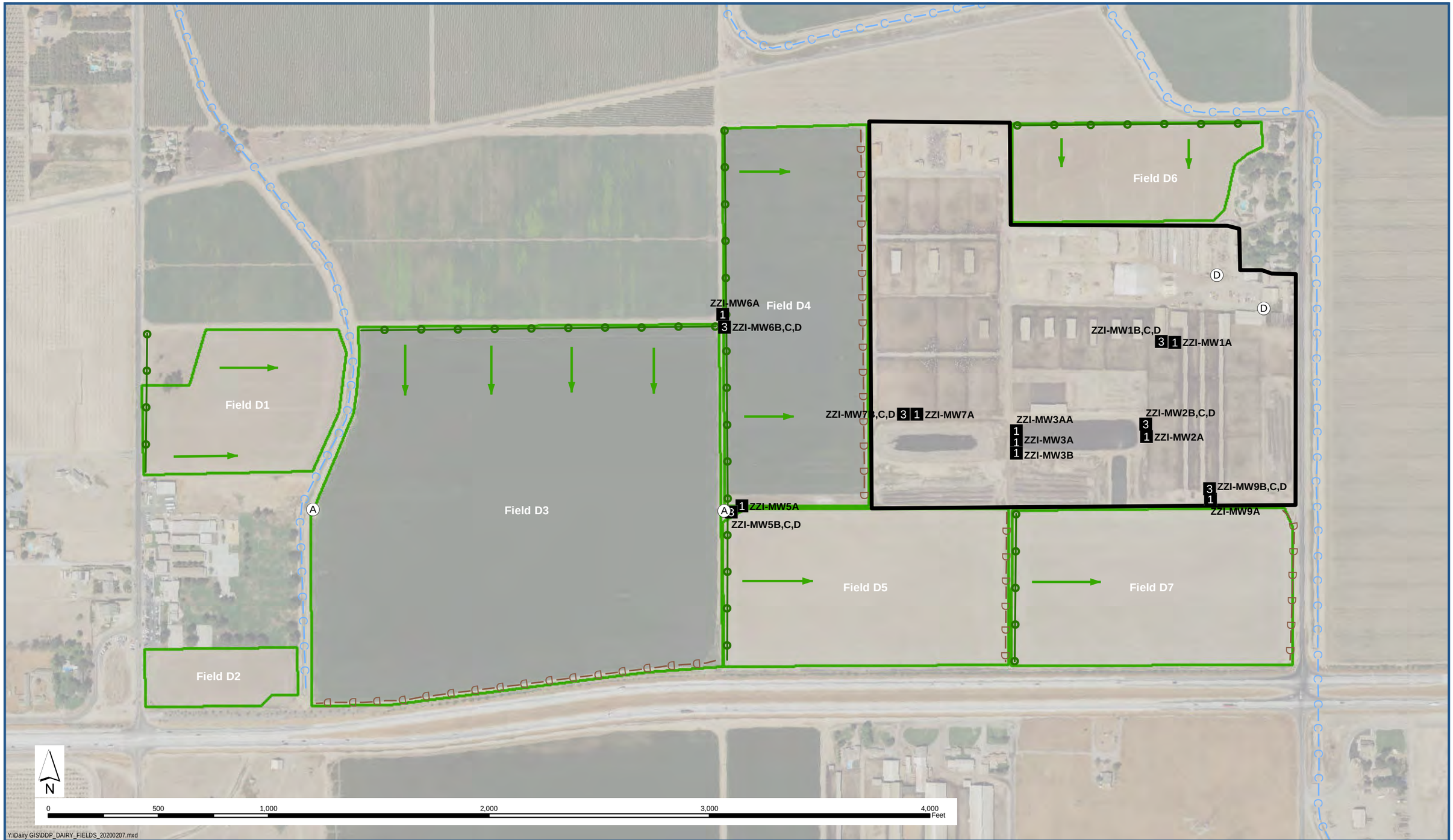
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
ELK - Year 8

Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
ZZI - Year 8

Central Valley Dairy Representative Monitoring Program

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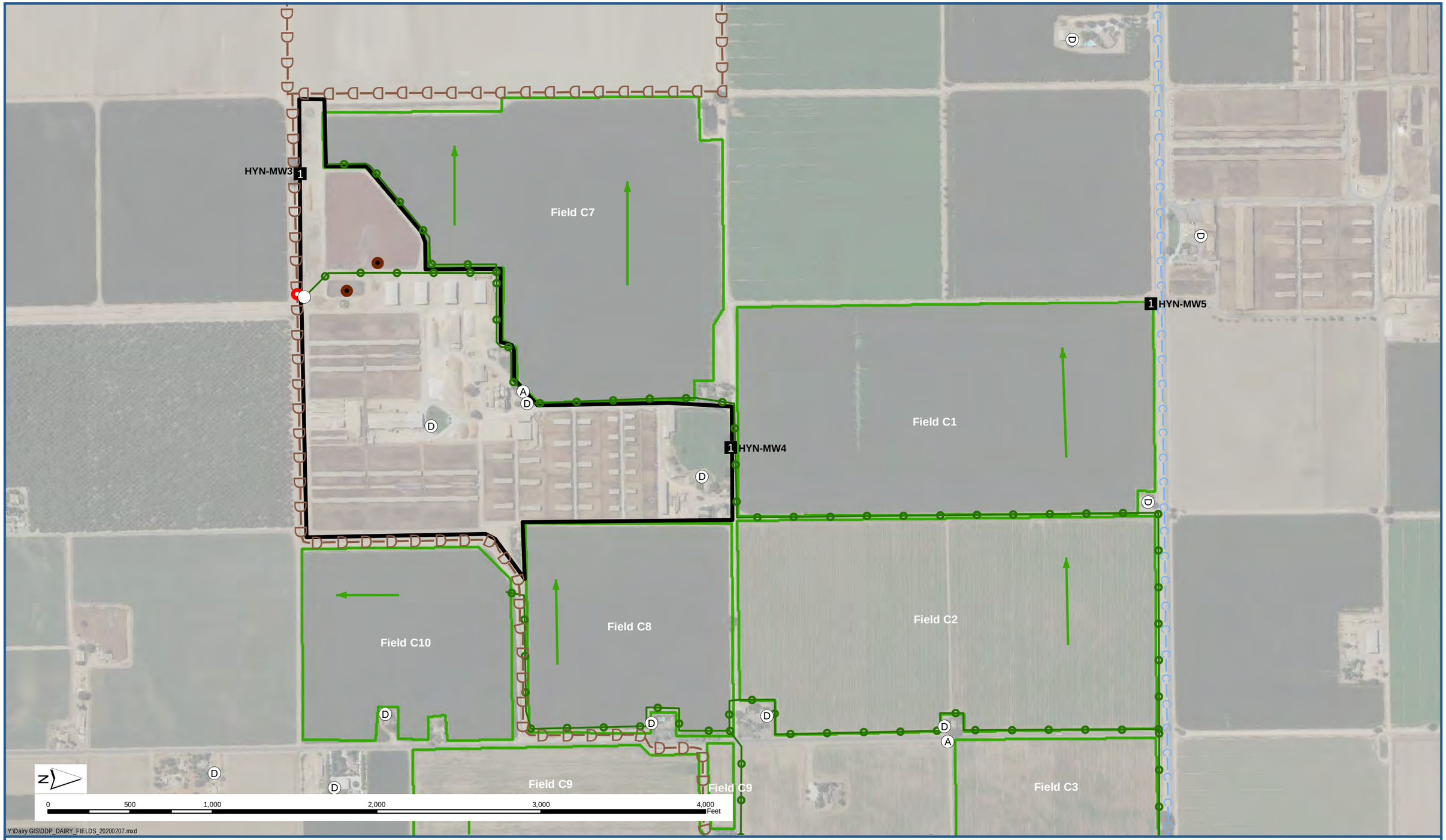
Consulting Engineers

Dairy Production Area and Associated Fields
HOL - Year 8

Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

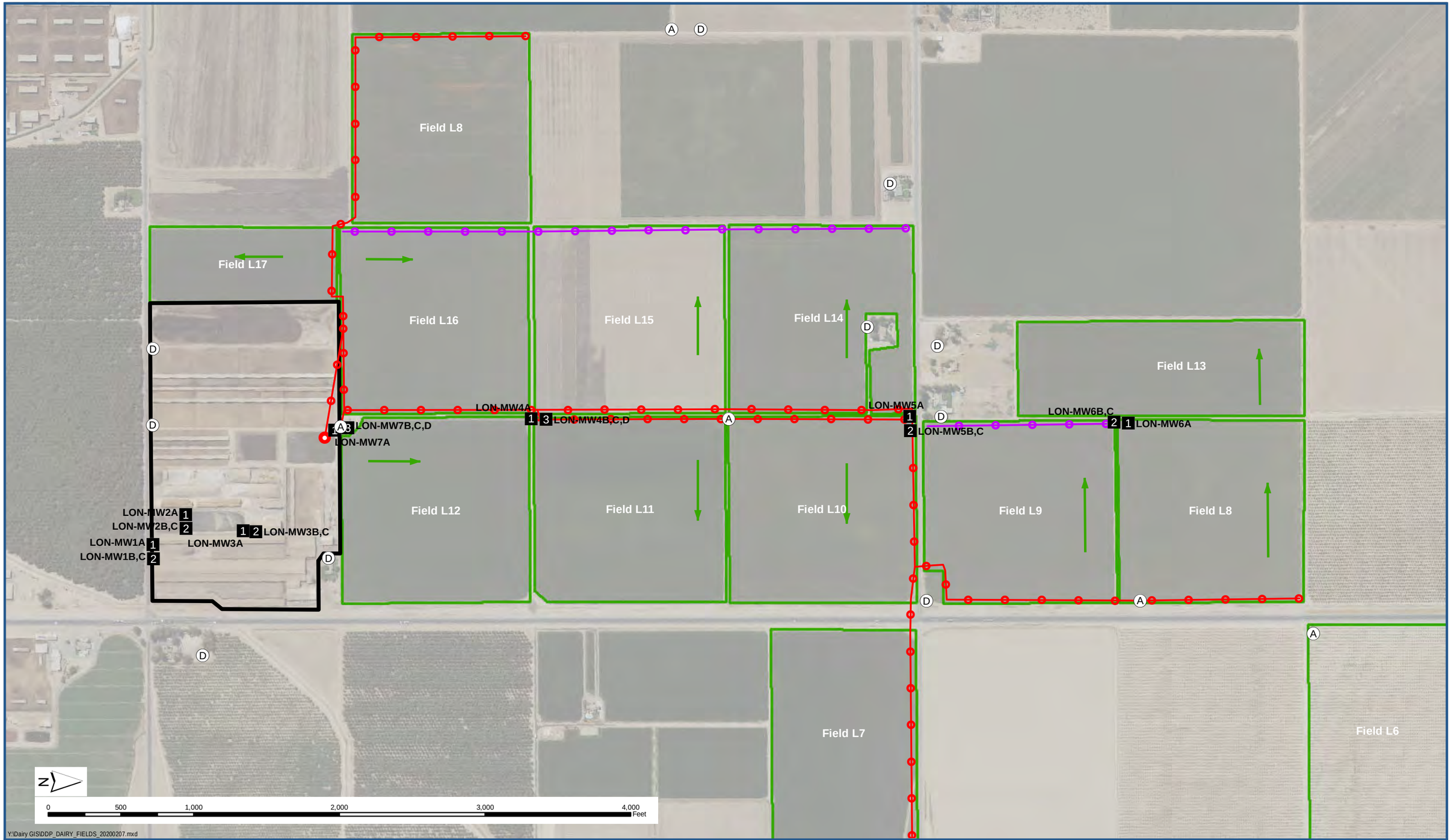
Dairy Production Area and Associated Fields
HYN - Year 8

Central Valley Dairy Representative Monitoring Program

Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
JAD - Year 8

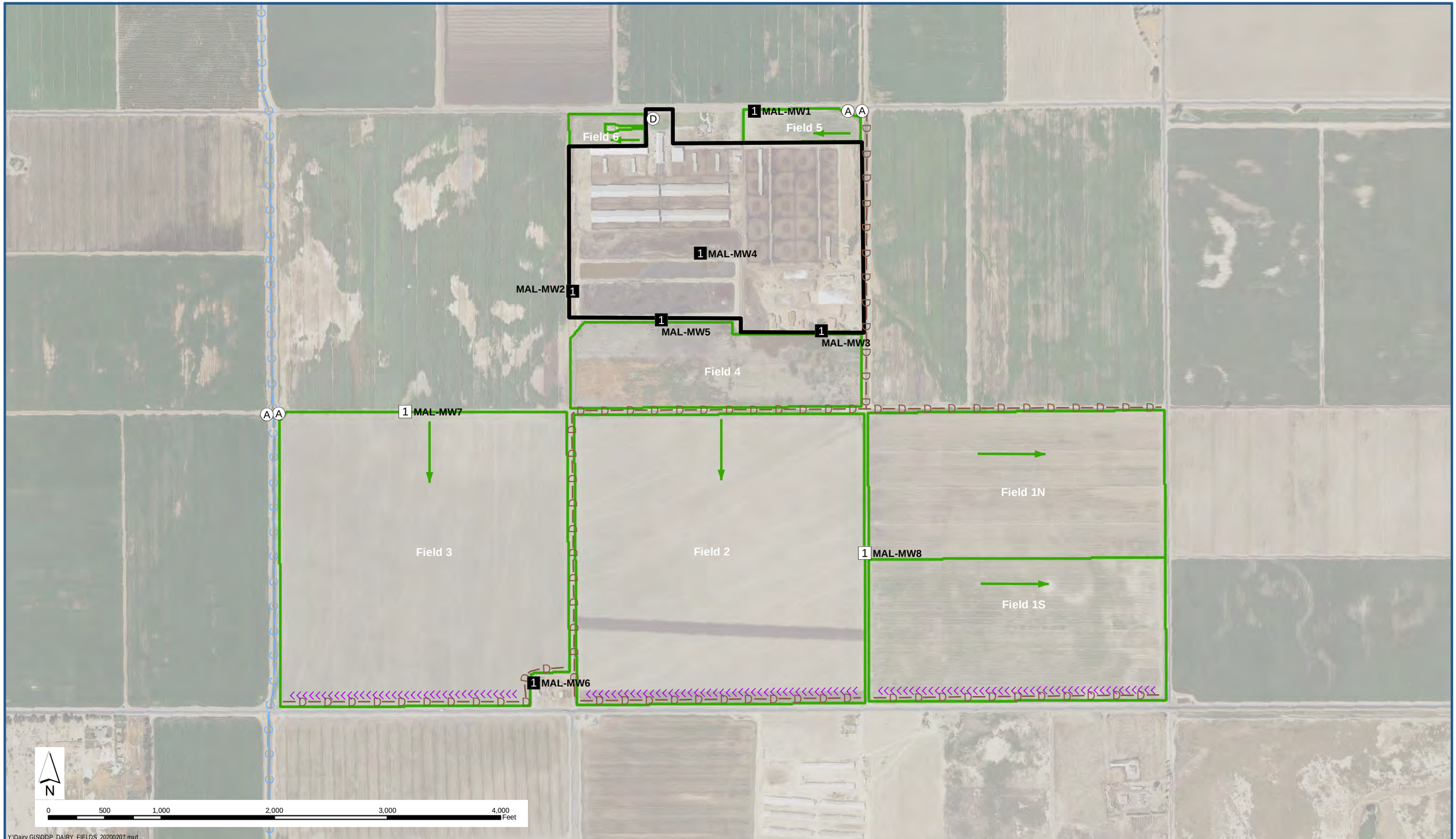
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
LON - Year 8

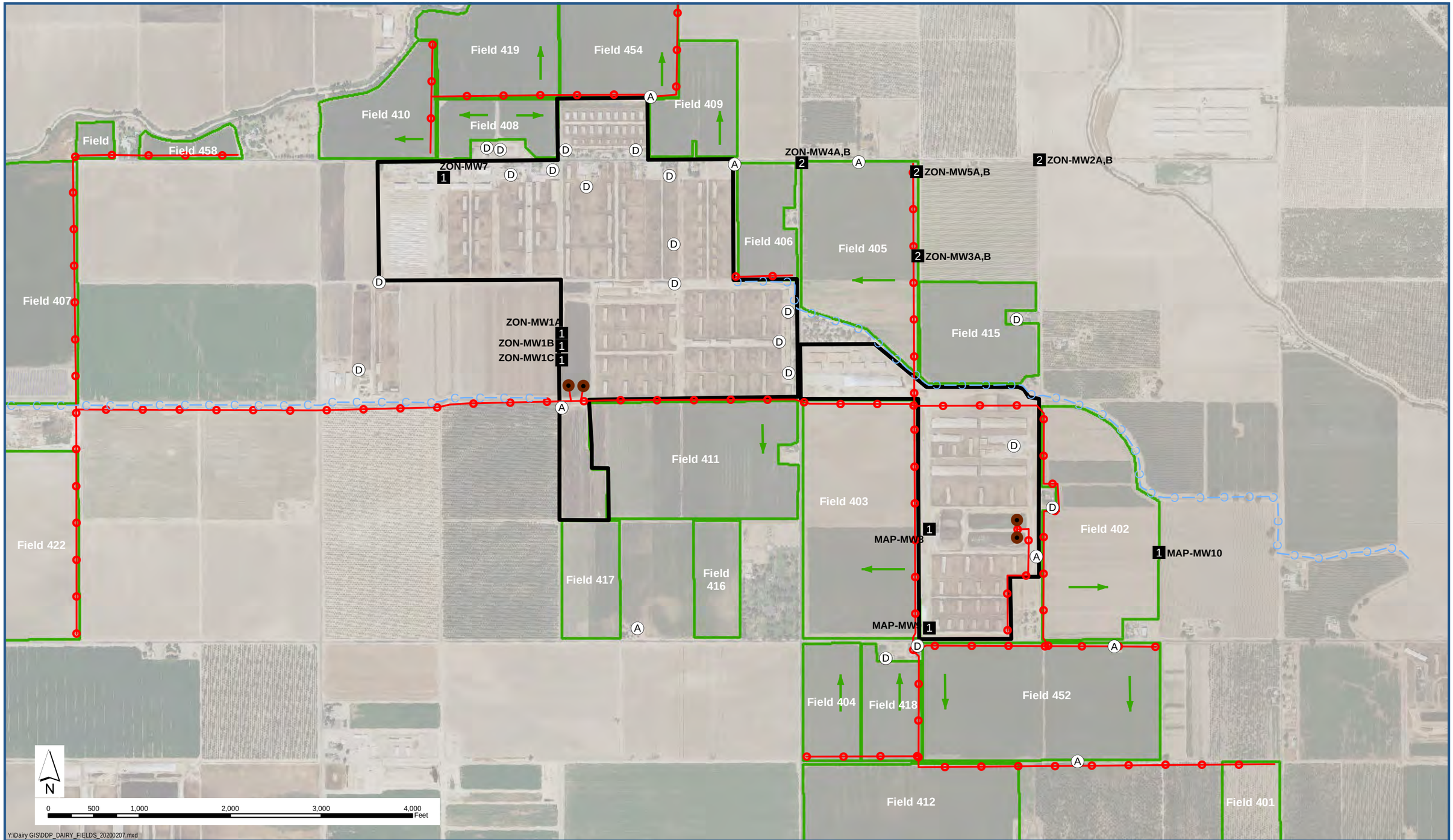
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
MAL - Year 8

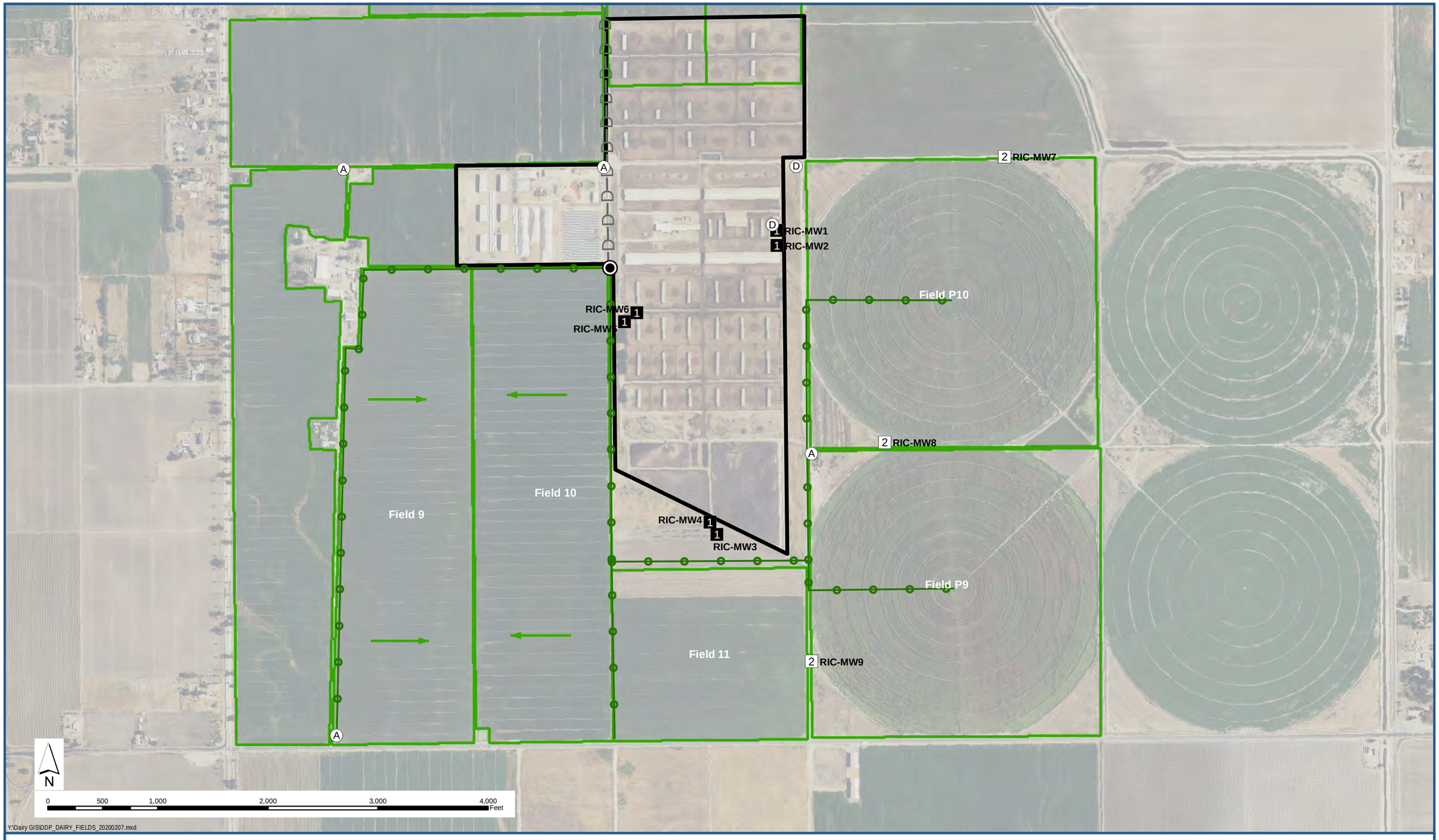
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
MAP/ZON - Year 8

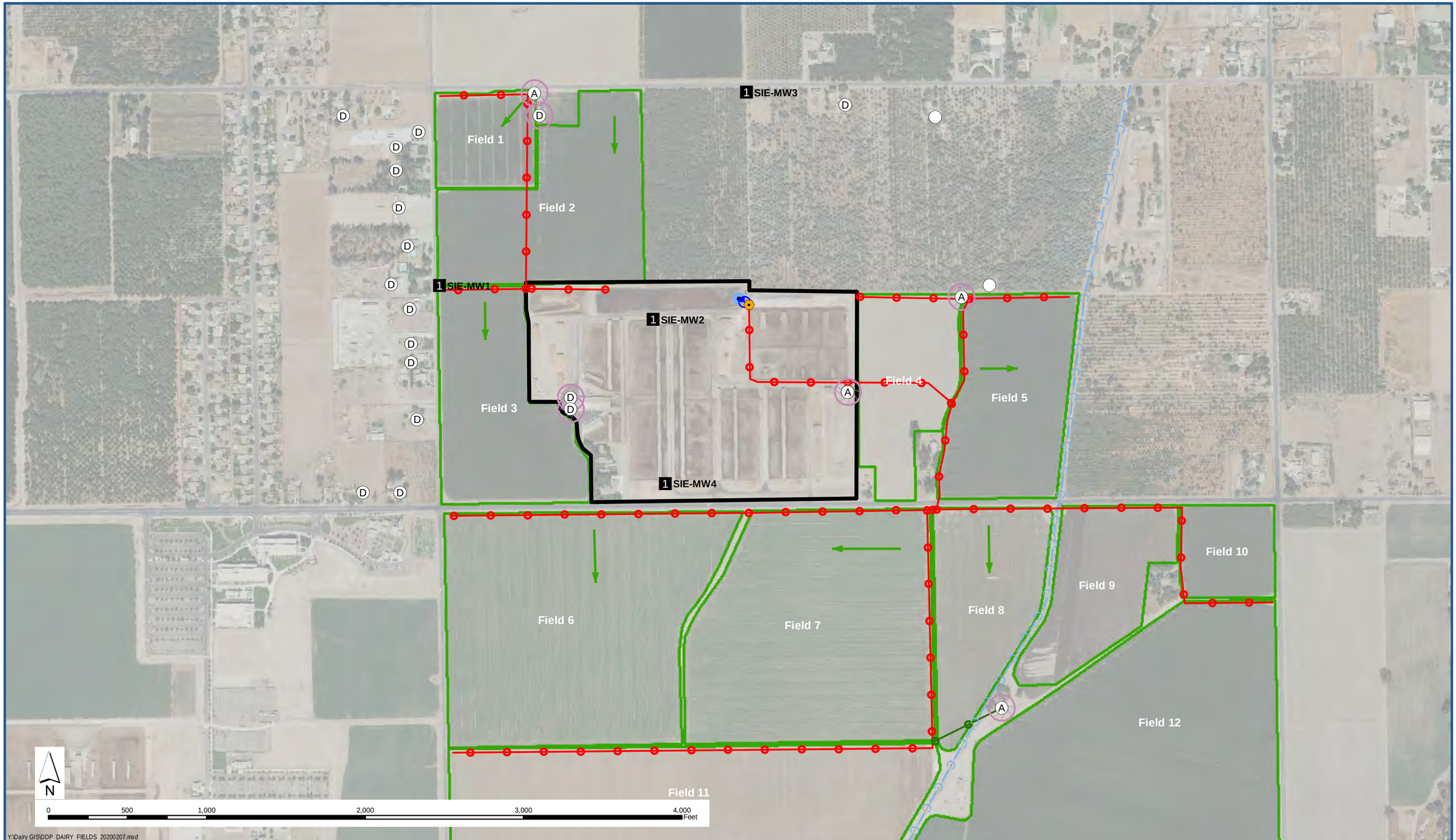
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
RIC - Year 8

Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

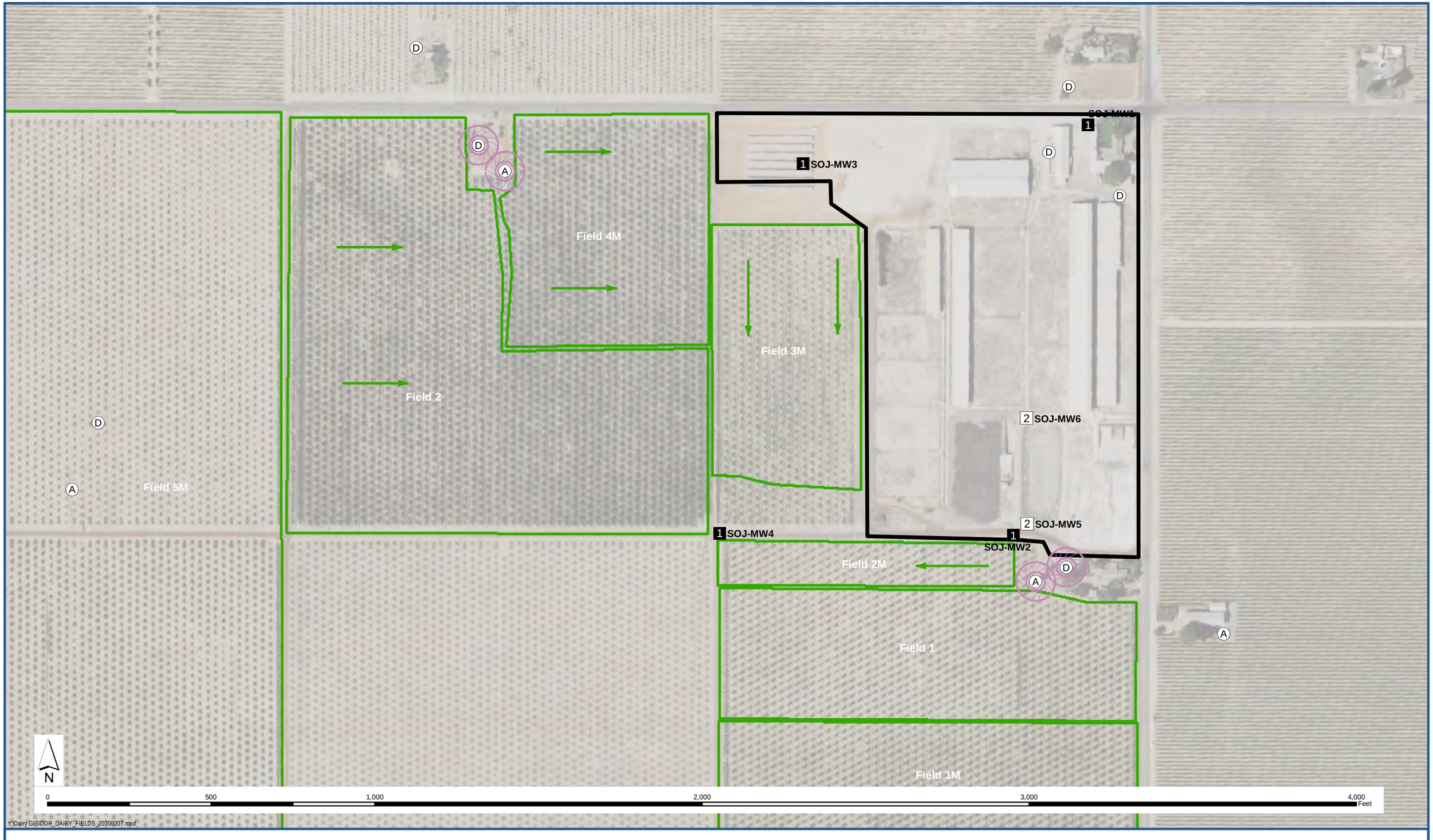
Dairy Production Area and Associated Fields
SIE - Year 8

Central Valley Dairy Representative Monitoring Program

Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
SO2 - Year 8

Central Valley Dairy Representative Monitoring Program



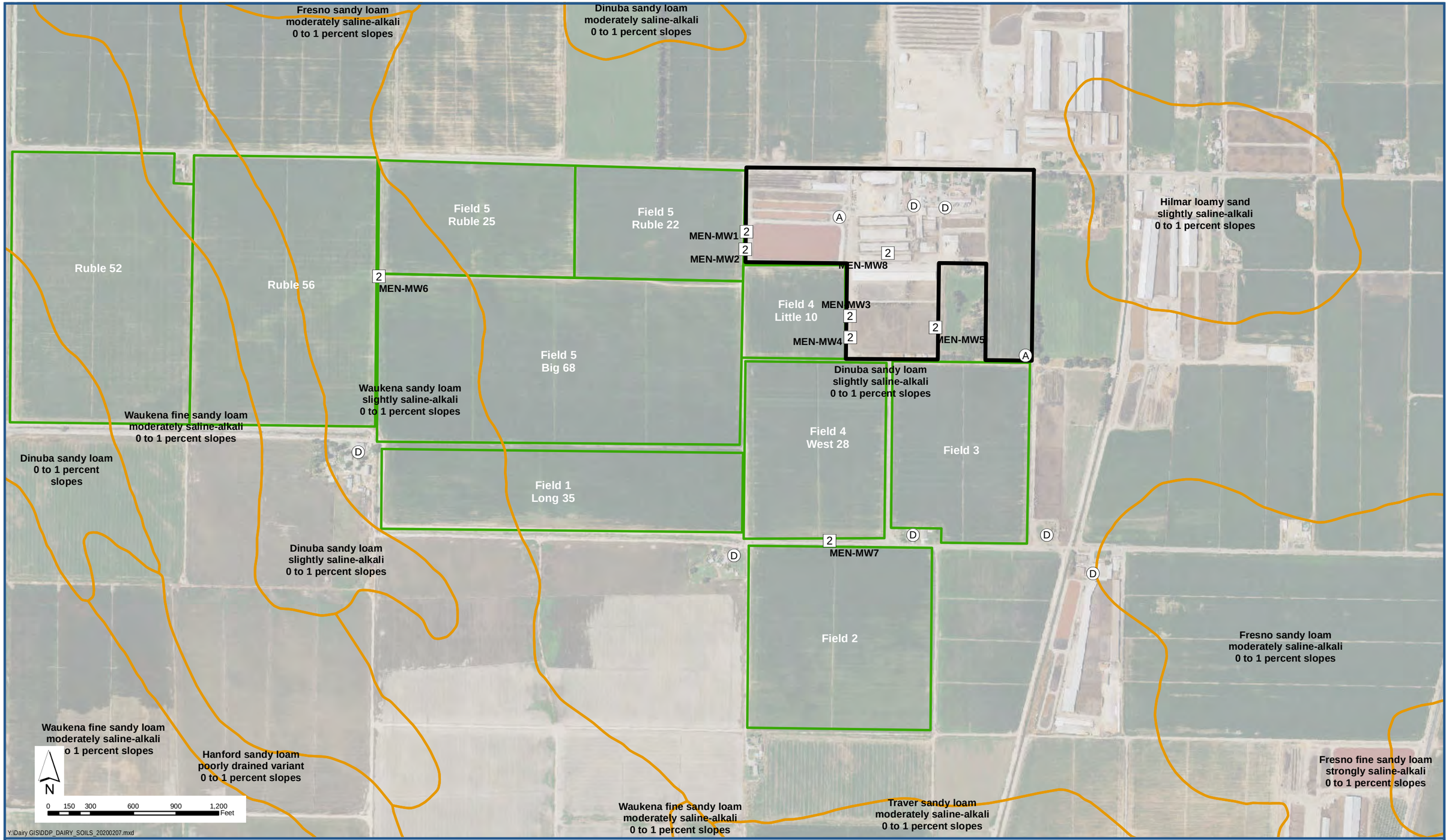
Luhdorff & Scalmanini
Consulting Engineers

Dairy Production Area and Associated Fields
SOJ - Year 8

Central Valley Dairy Representative Monitoring Program

Map Series
Soil Characteristics (NRCS – SSURGO) of Dairy Production Areas and Associated Fields

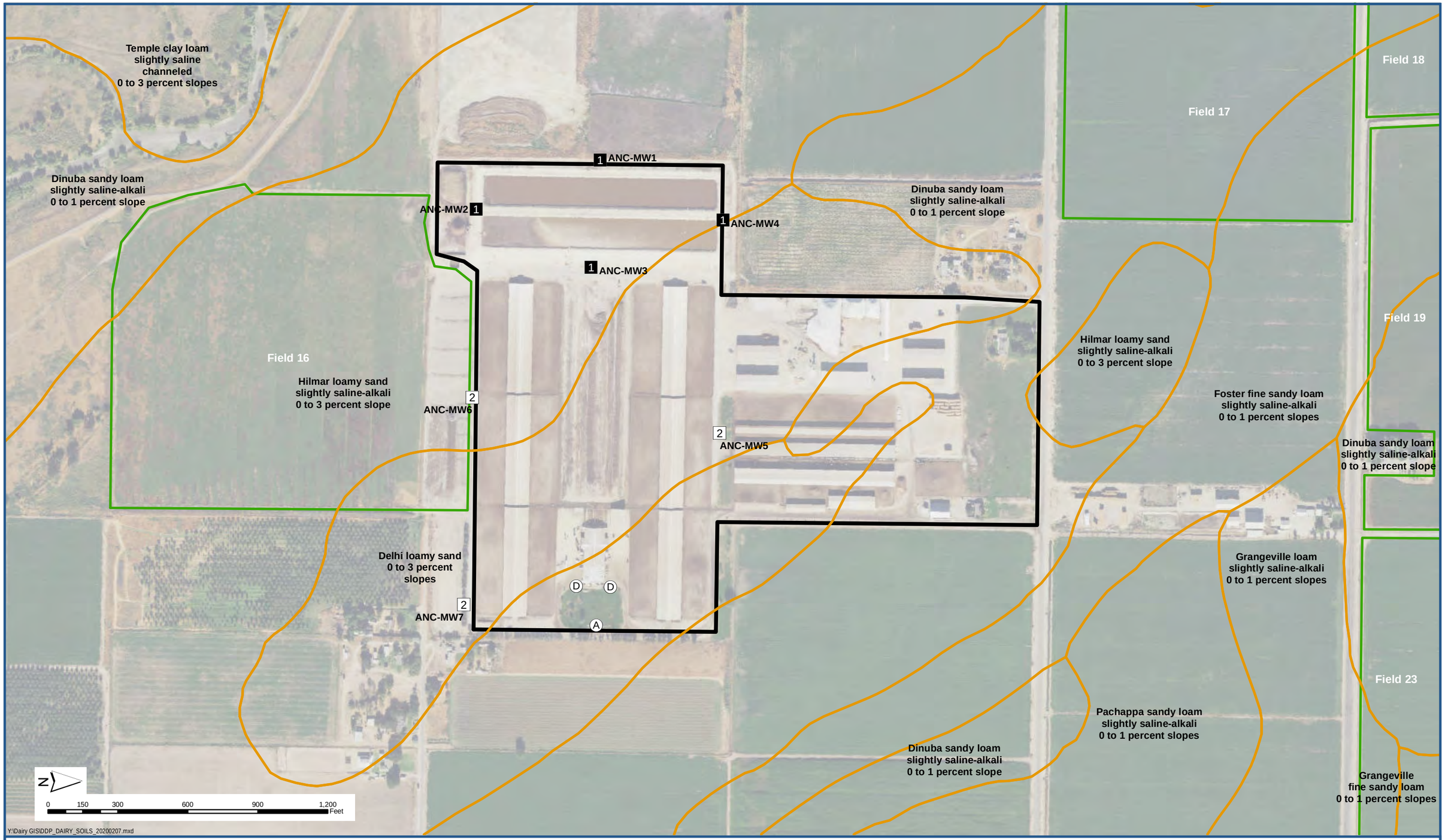
Central Area | East Side:	MEN, ANC, BET, DIE, DUR, FG1, BEA, COT, SAN, GEN, TRO, PLS, CAE, ROB, WOO
Central Area | West Side:	ANT, COR, FG2, GOD, MAC and NUN, MOO, TON
North Area:	BRE, CRE, MTS
South Area:	AUK, DLF, ELK, ZZI, HOL, HYN, JAD, LON, ADO, MAL, MAP and ZON, RIC, SIE, SO2, SOJ



Luhdorff & Scalmanini
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
MEN - Year 8

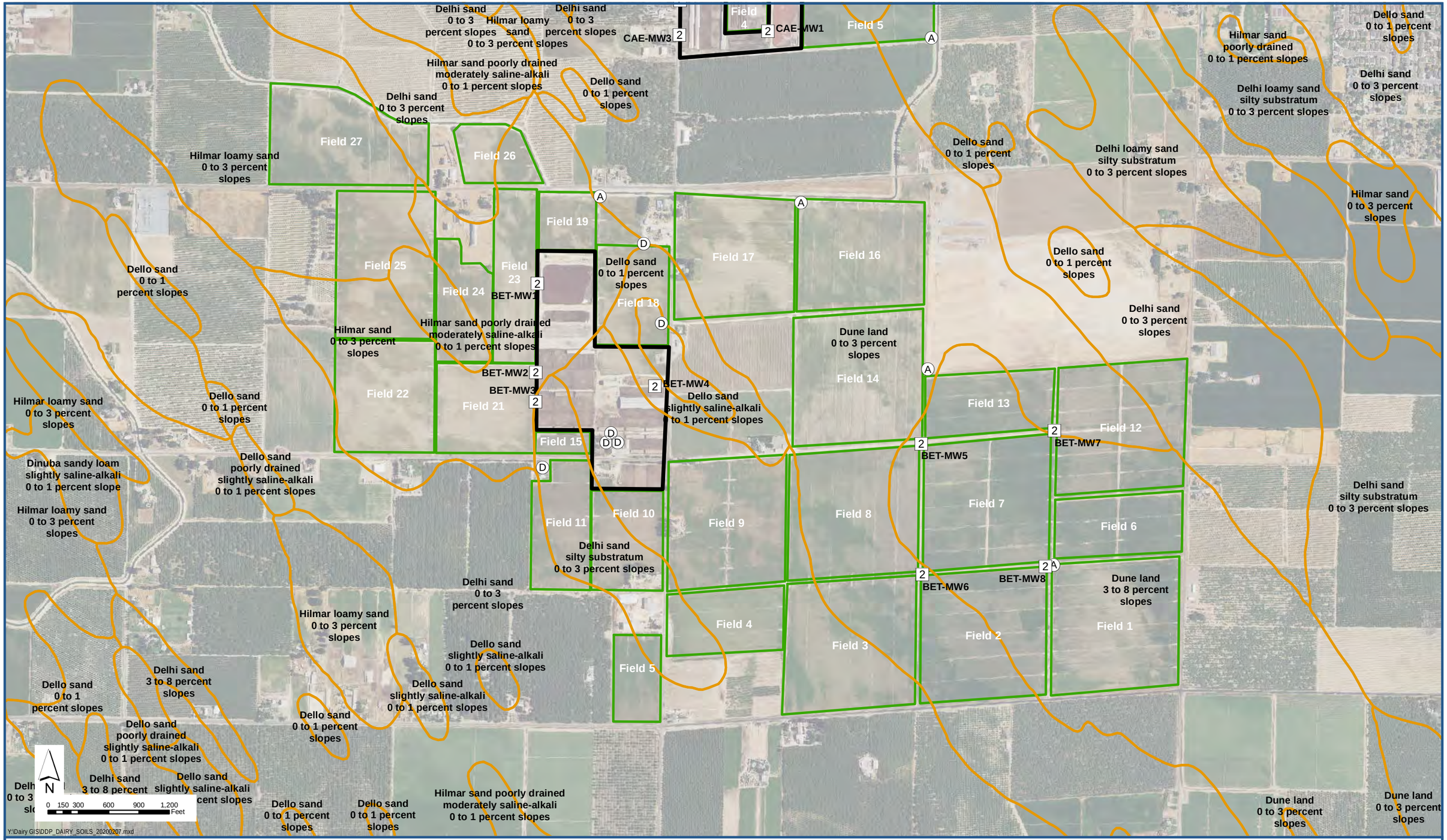
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
ANC - Year 8

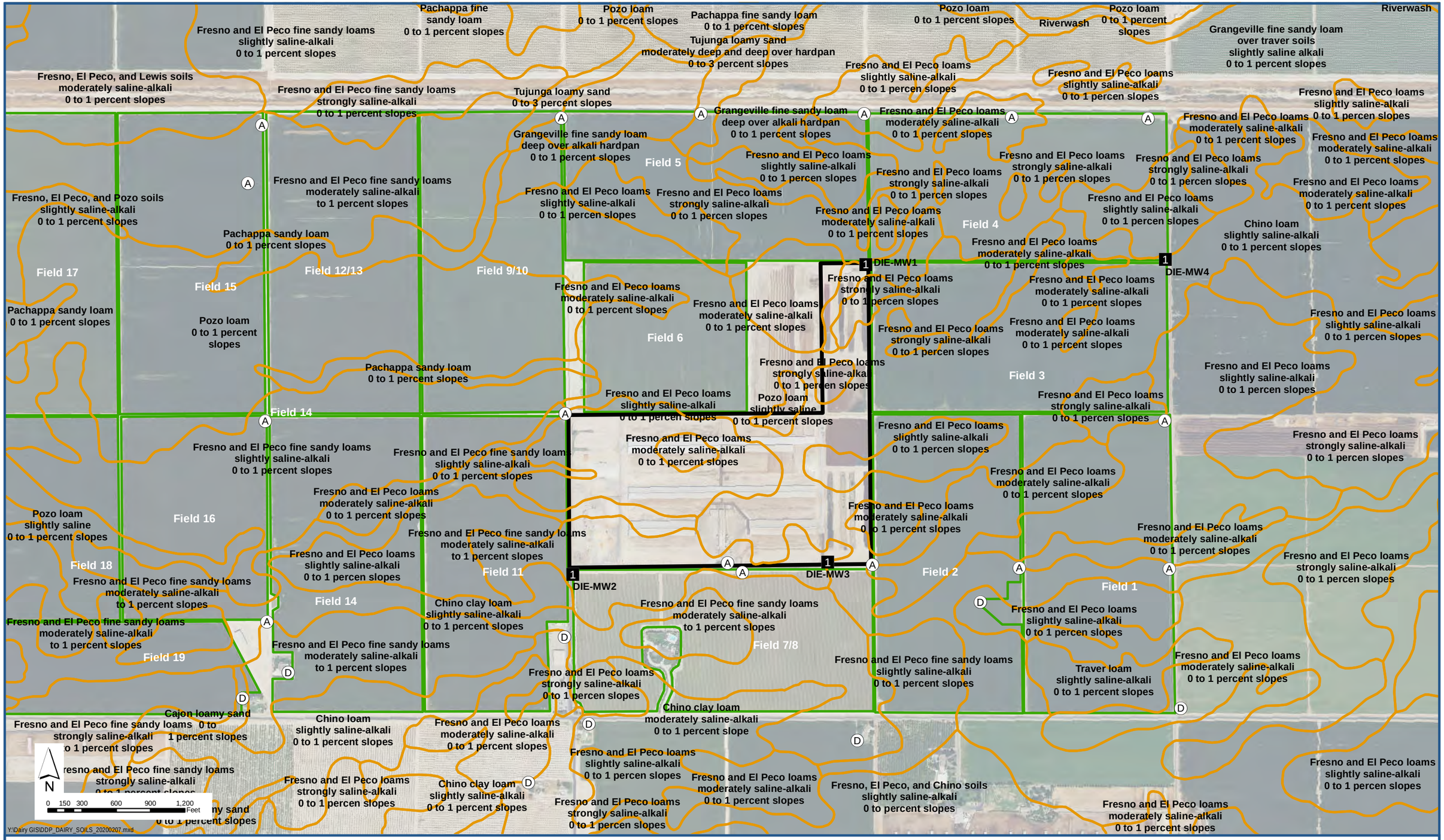
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
BET - Year 8

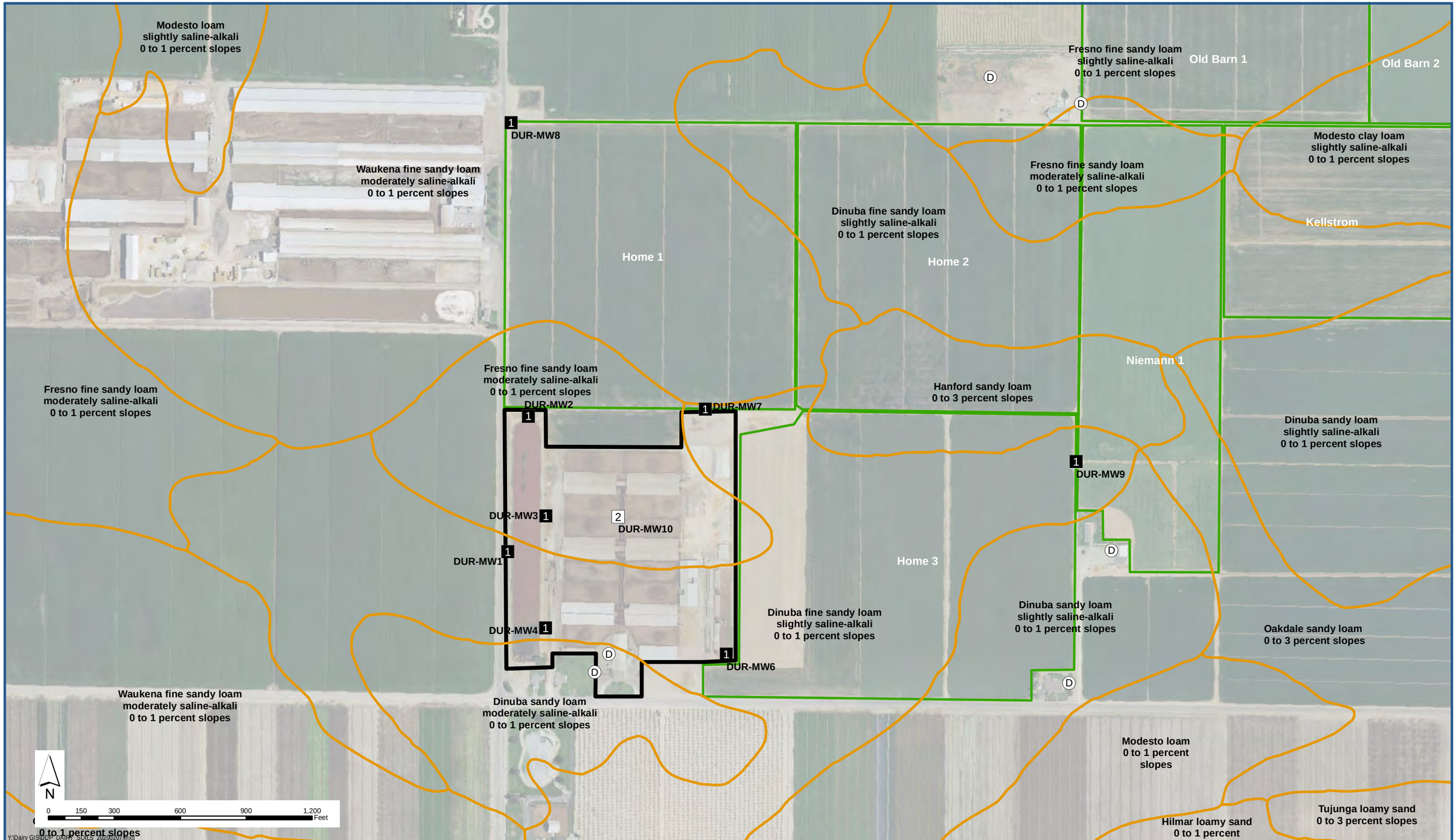
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
DIE - Year 8

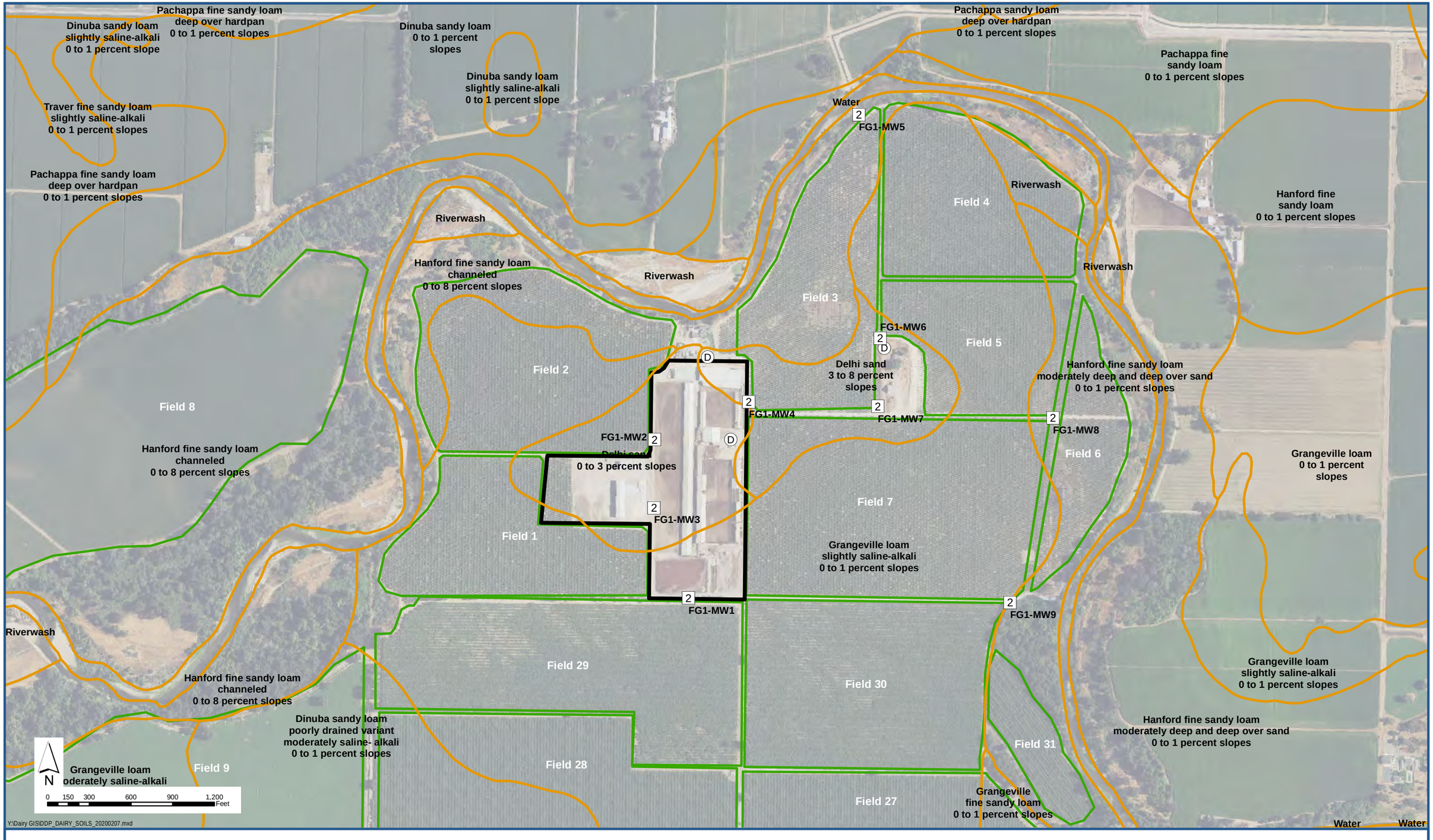
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
DUR - Year 8

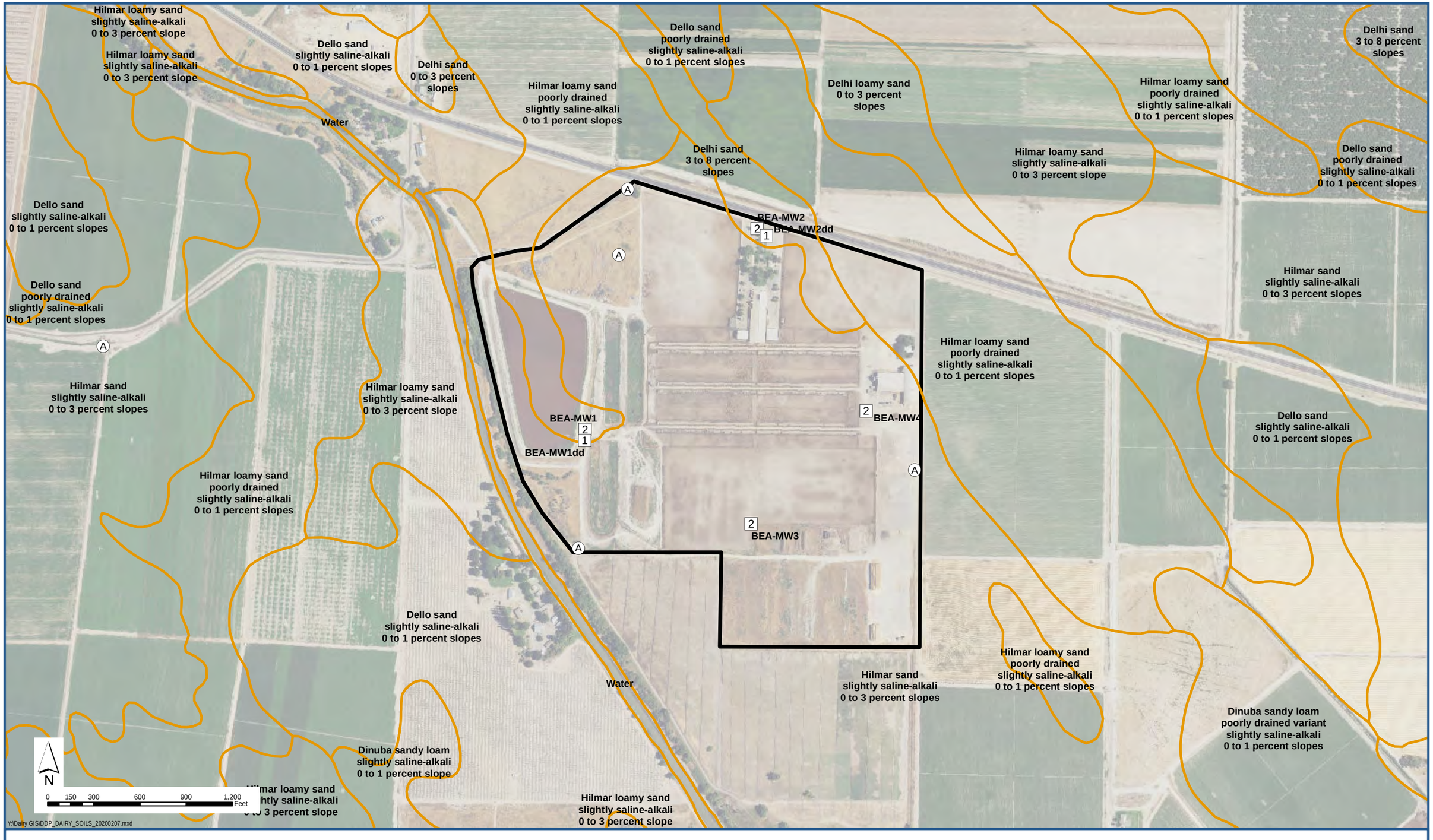
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
FG1 - Year 8

Central Valley Dairy Representative Monitoring Program



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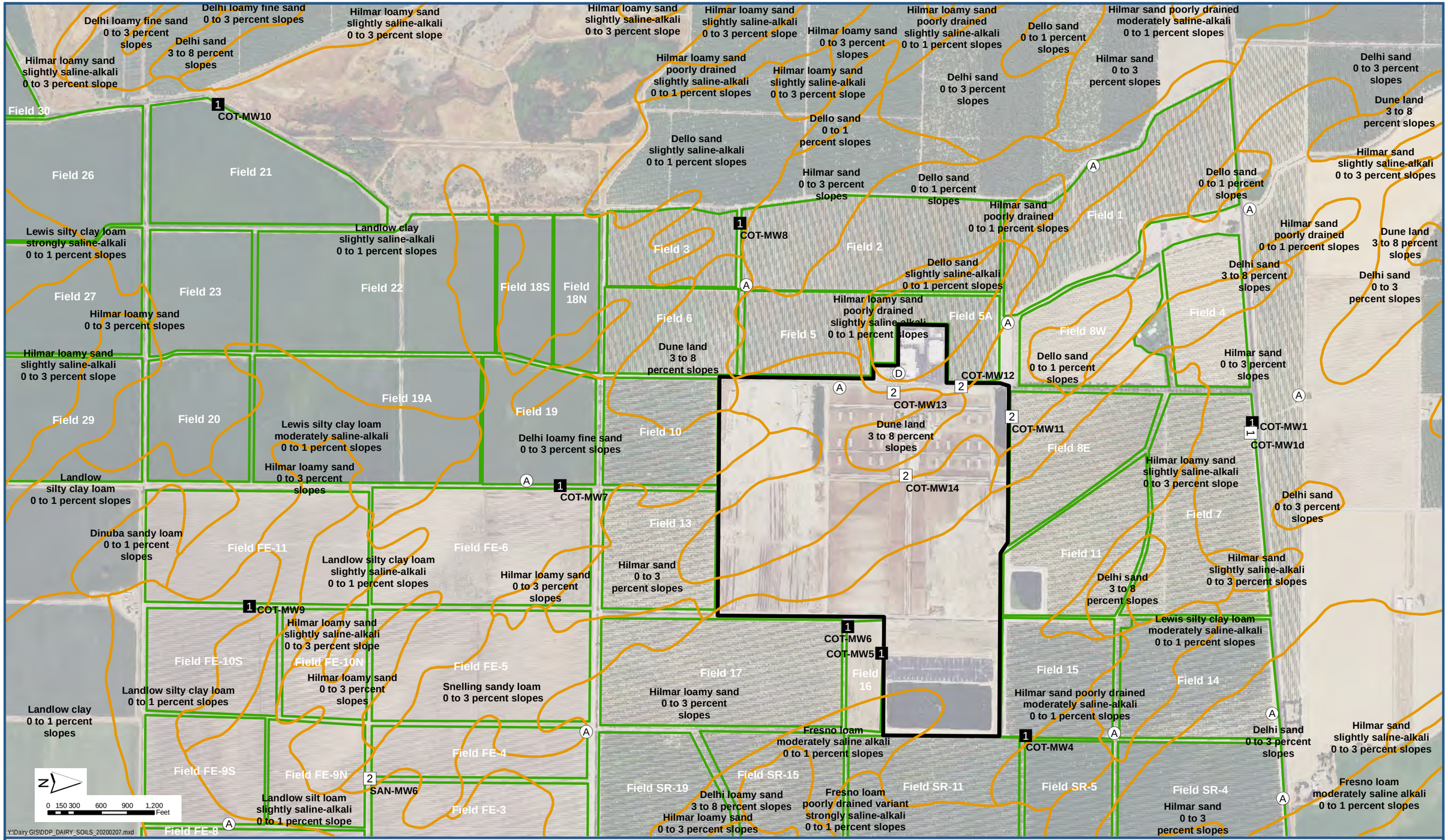
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
BEA - Year 8

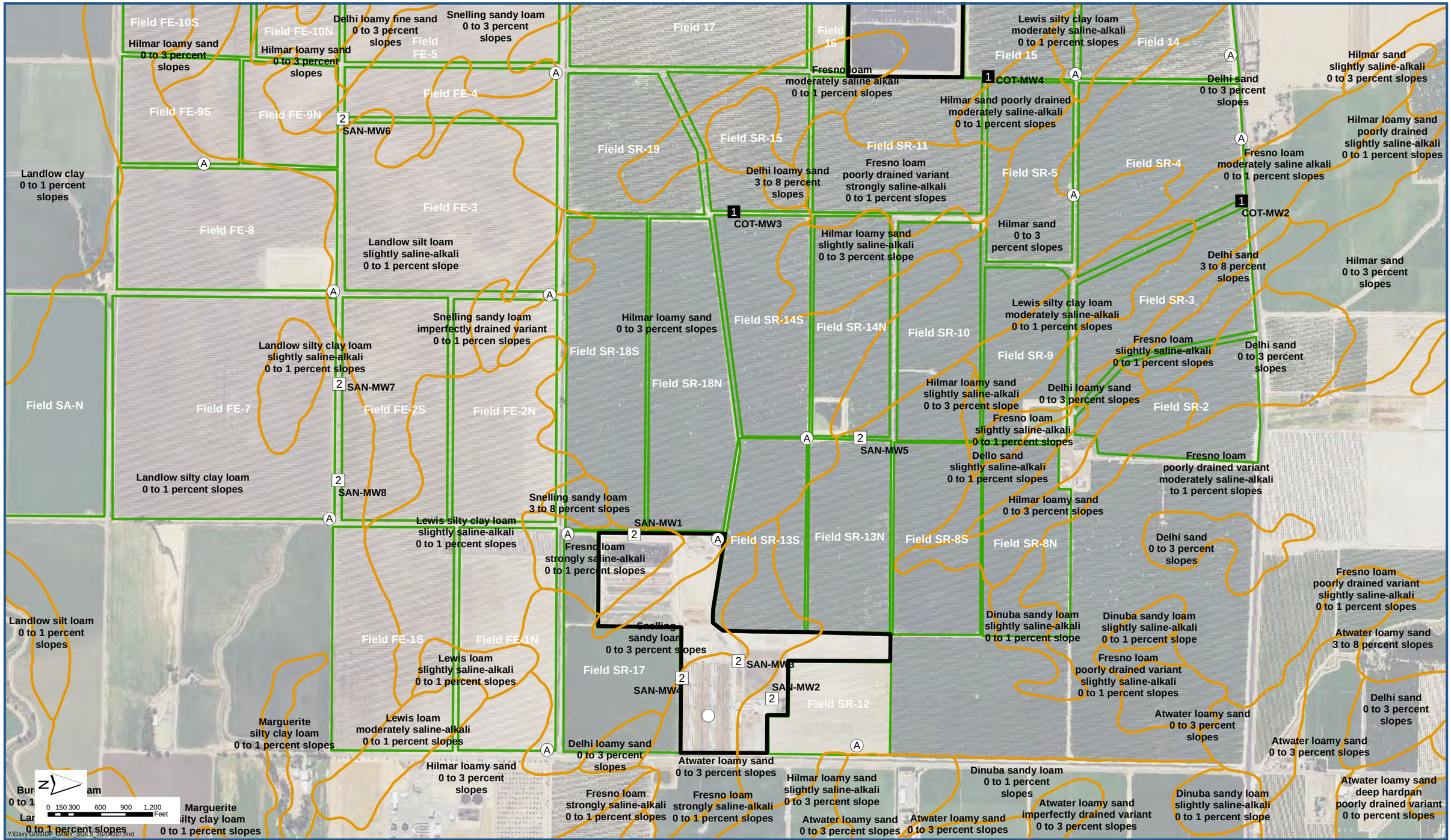
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
COT - Year 8

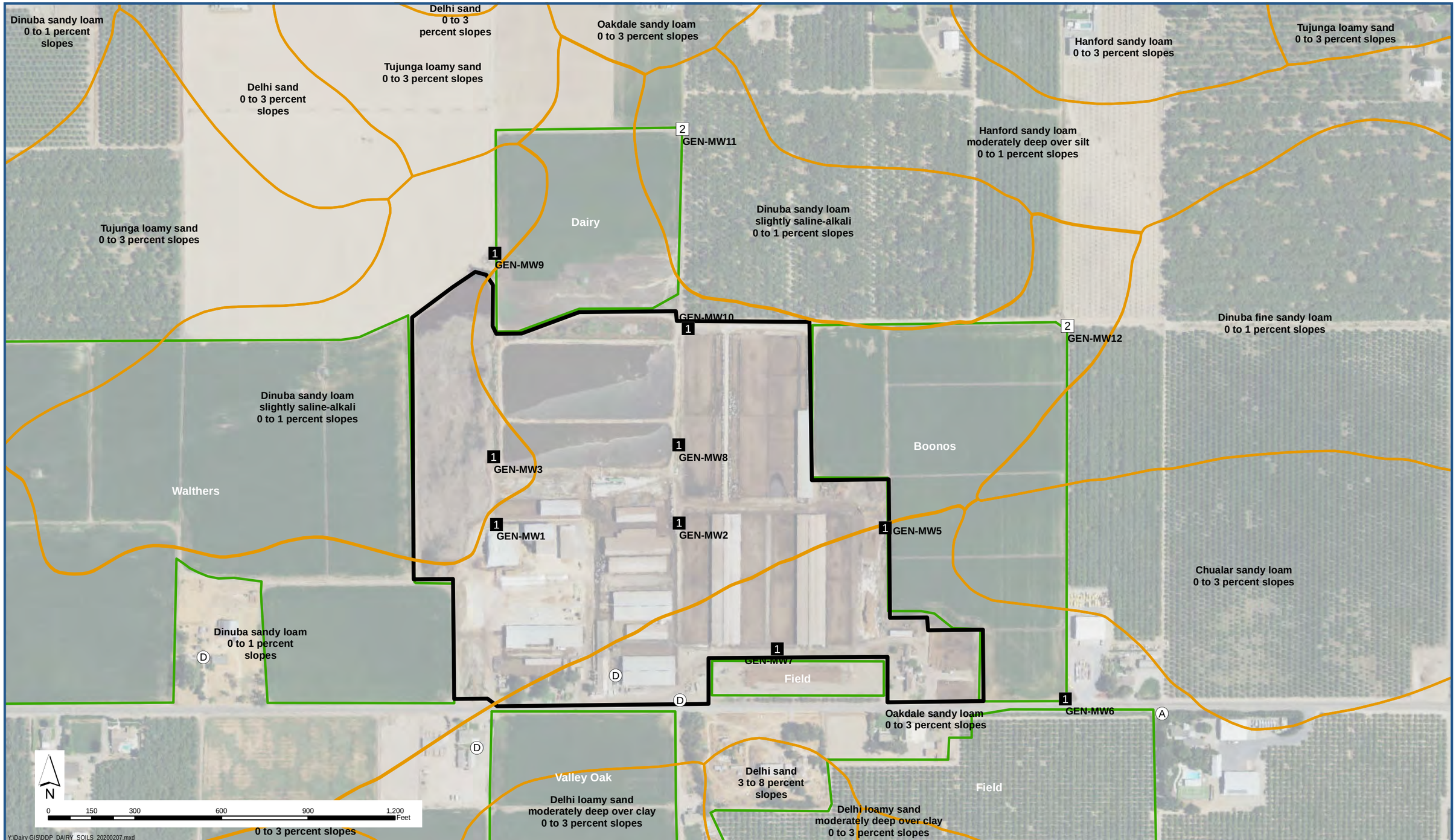
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
SAN - Year 8

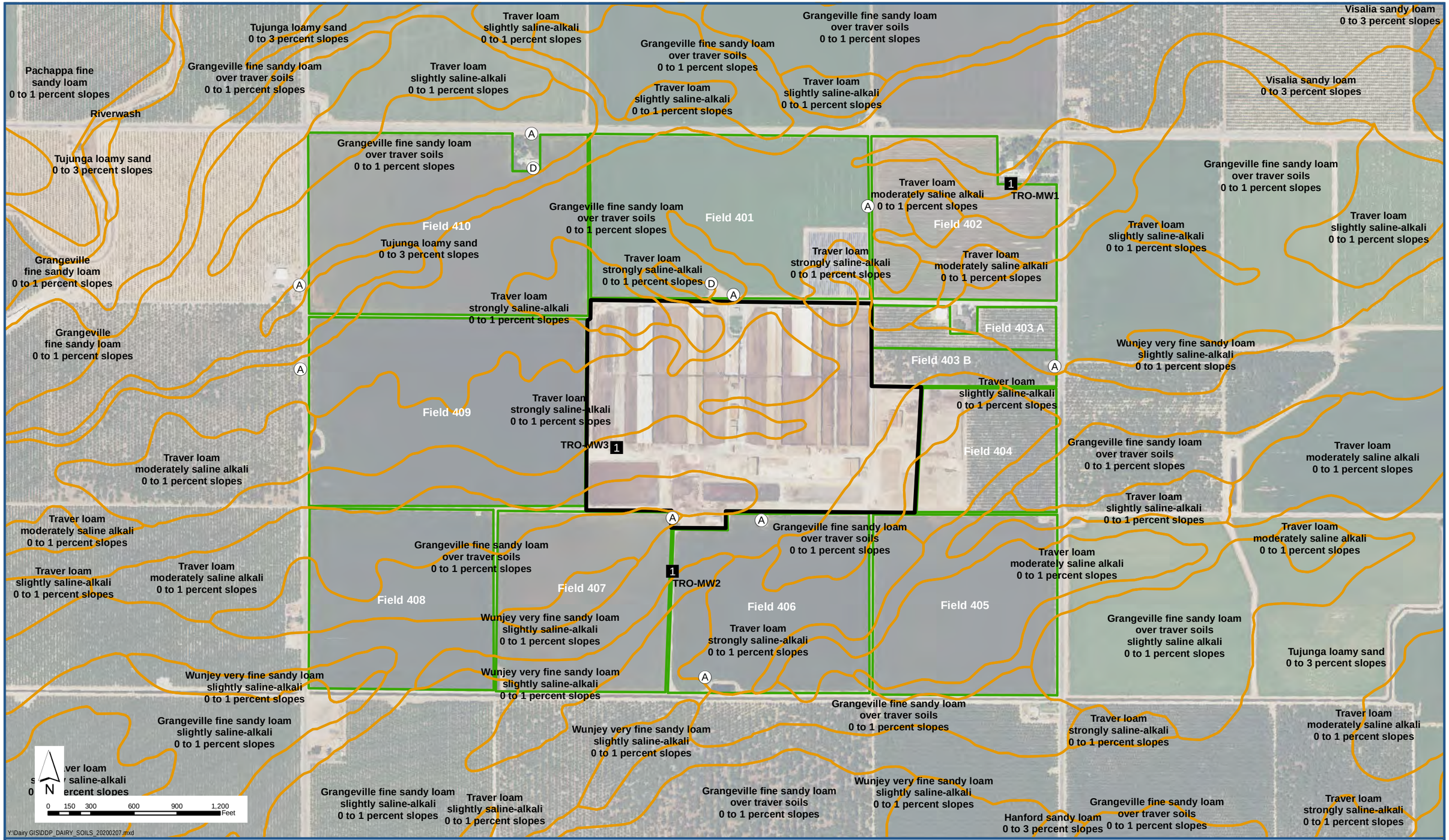
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
GEN - Year 8

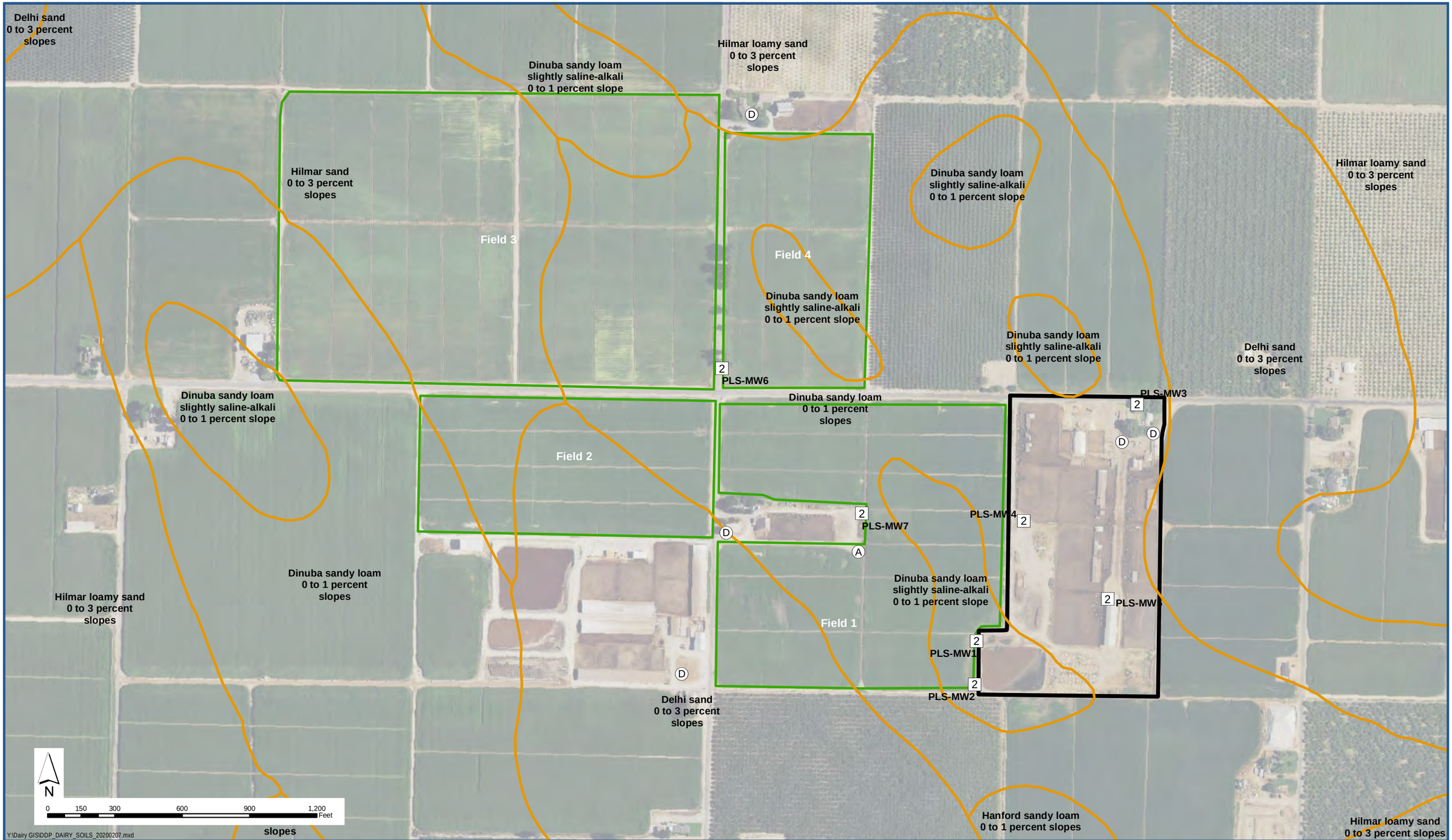
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
TRO - Year 8

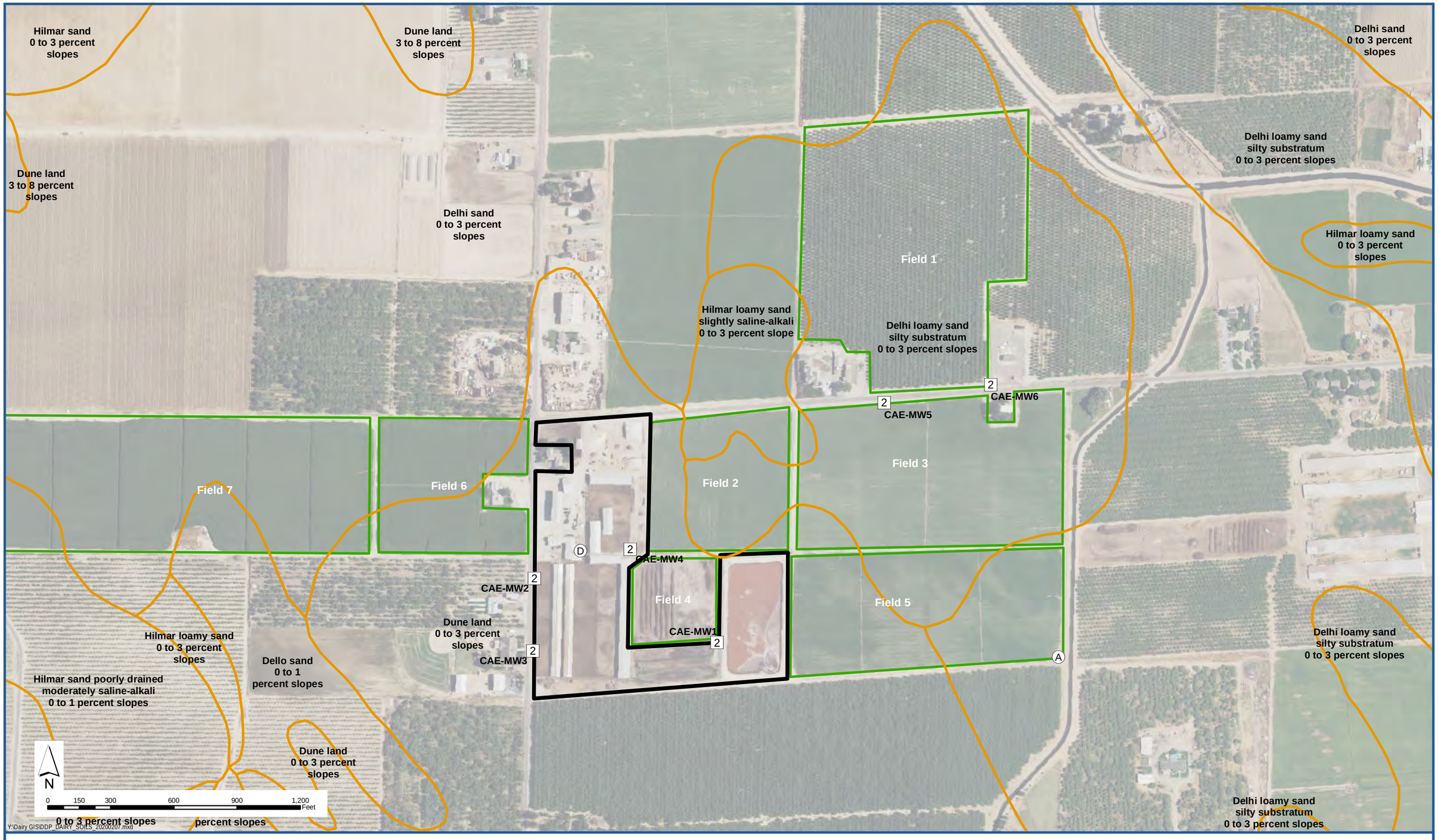
Central Valley Dairy Representative Monitoring Program



Luhdorff & Scalmanini
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
PLS - Year 8

Central Valley Dairy Representative Monitoring Program



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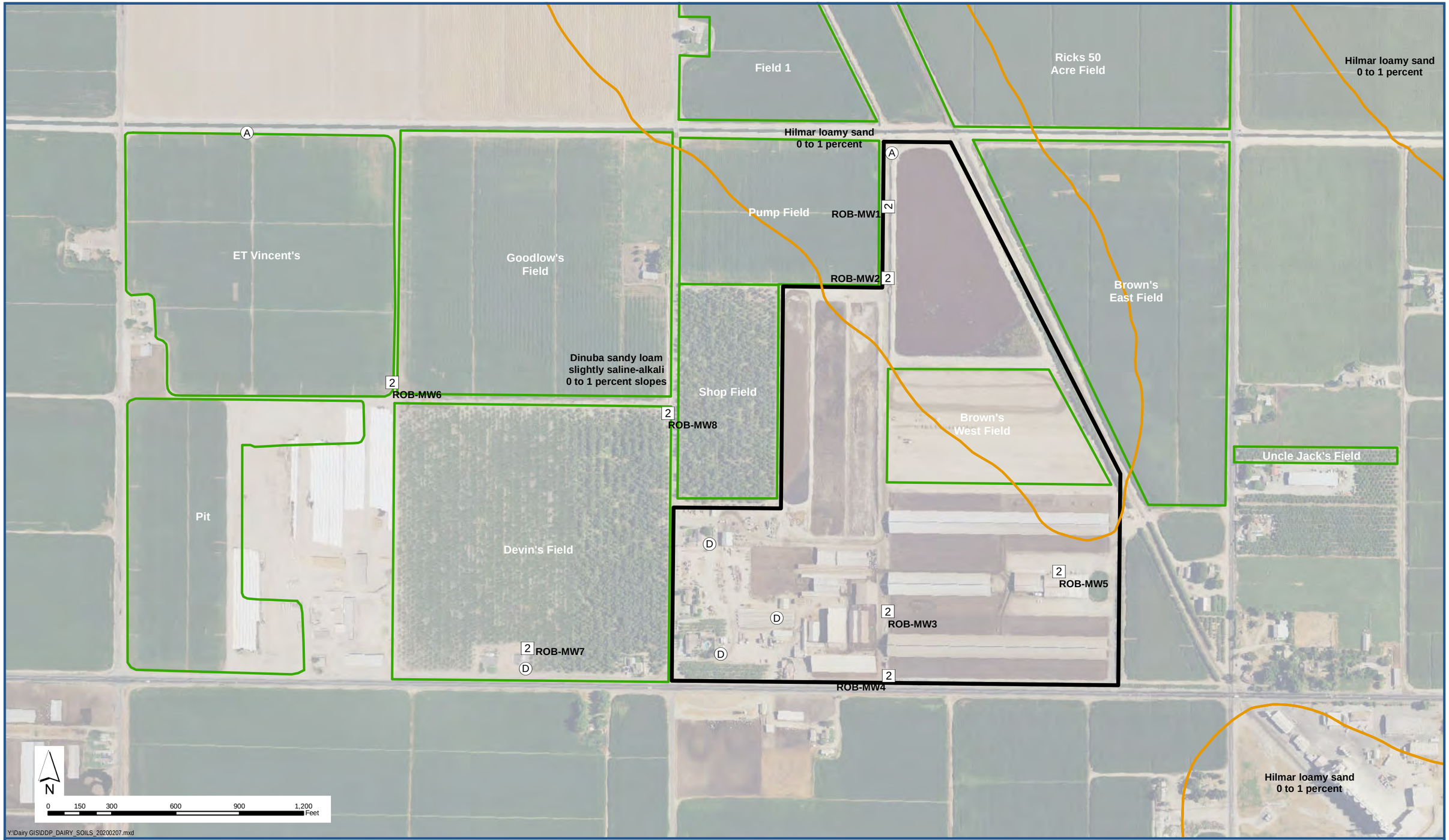
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
CAE - Year 8

Central Valley Dairy Representative Monitoring Program



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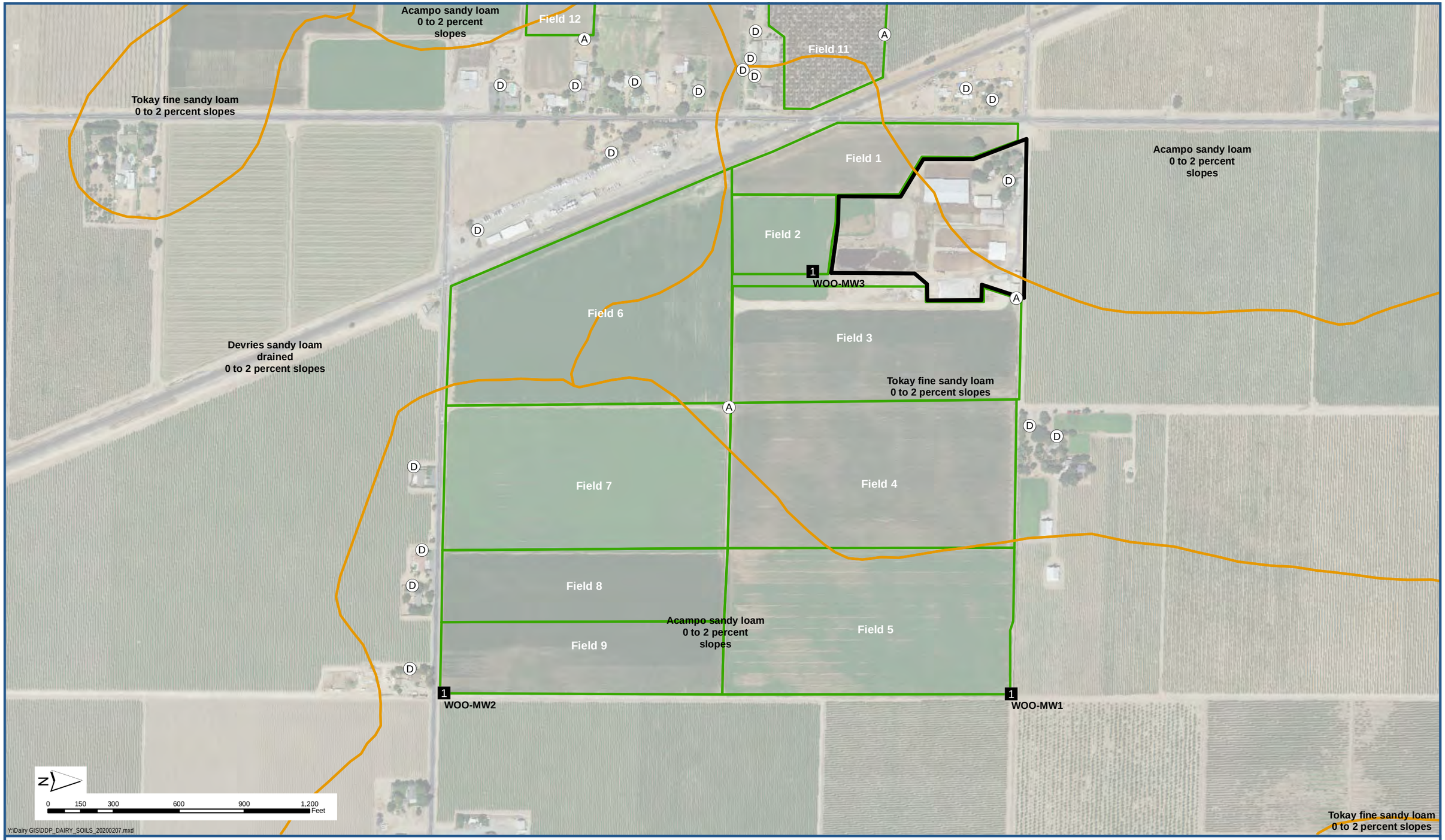
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
ROB - Year 8

Central Valley Dairy Representative Monitoring Program



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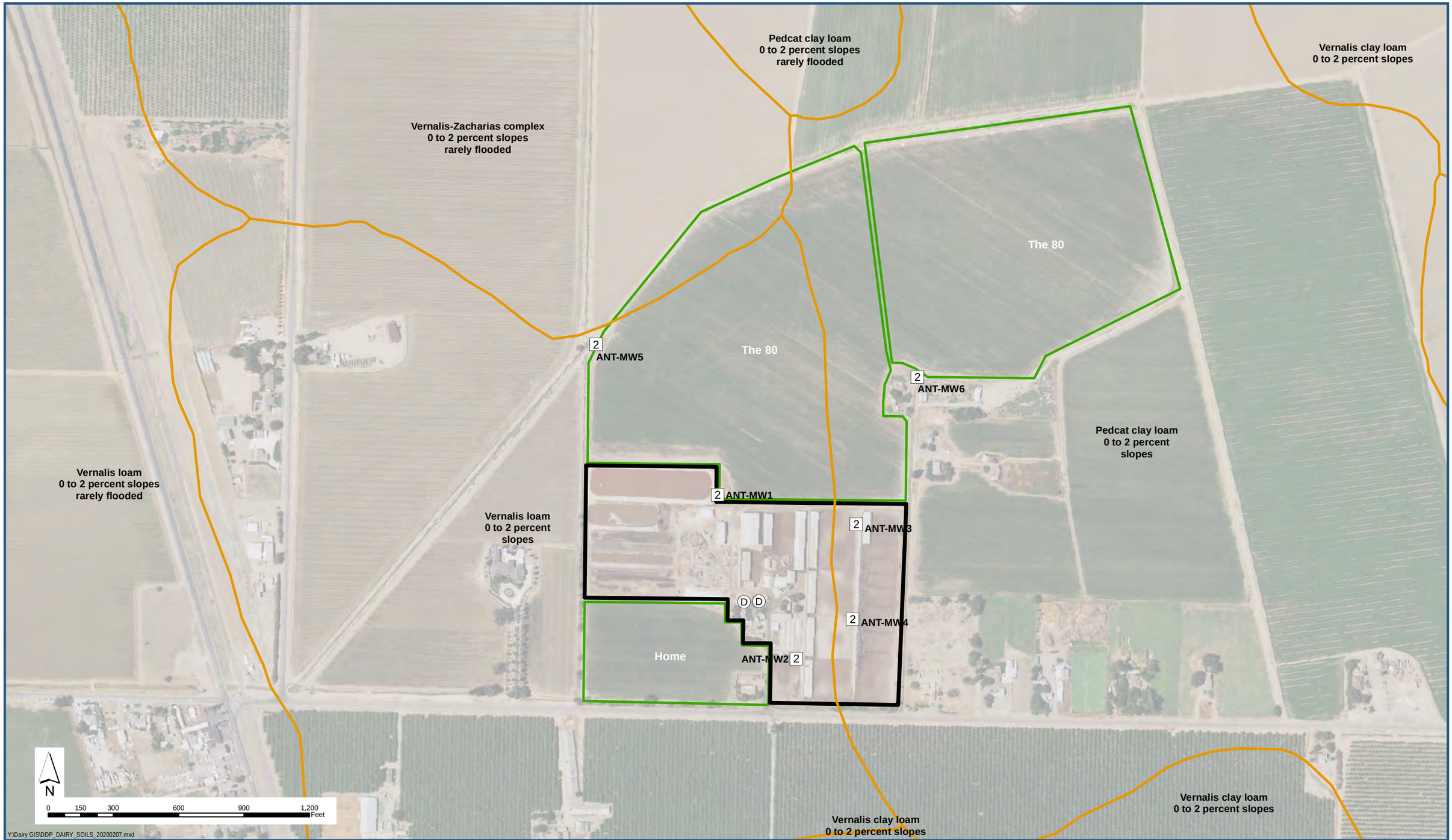
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
WOO - Year 8

Central Valley Dairy Representative Monitoring Program



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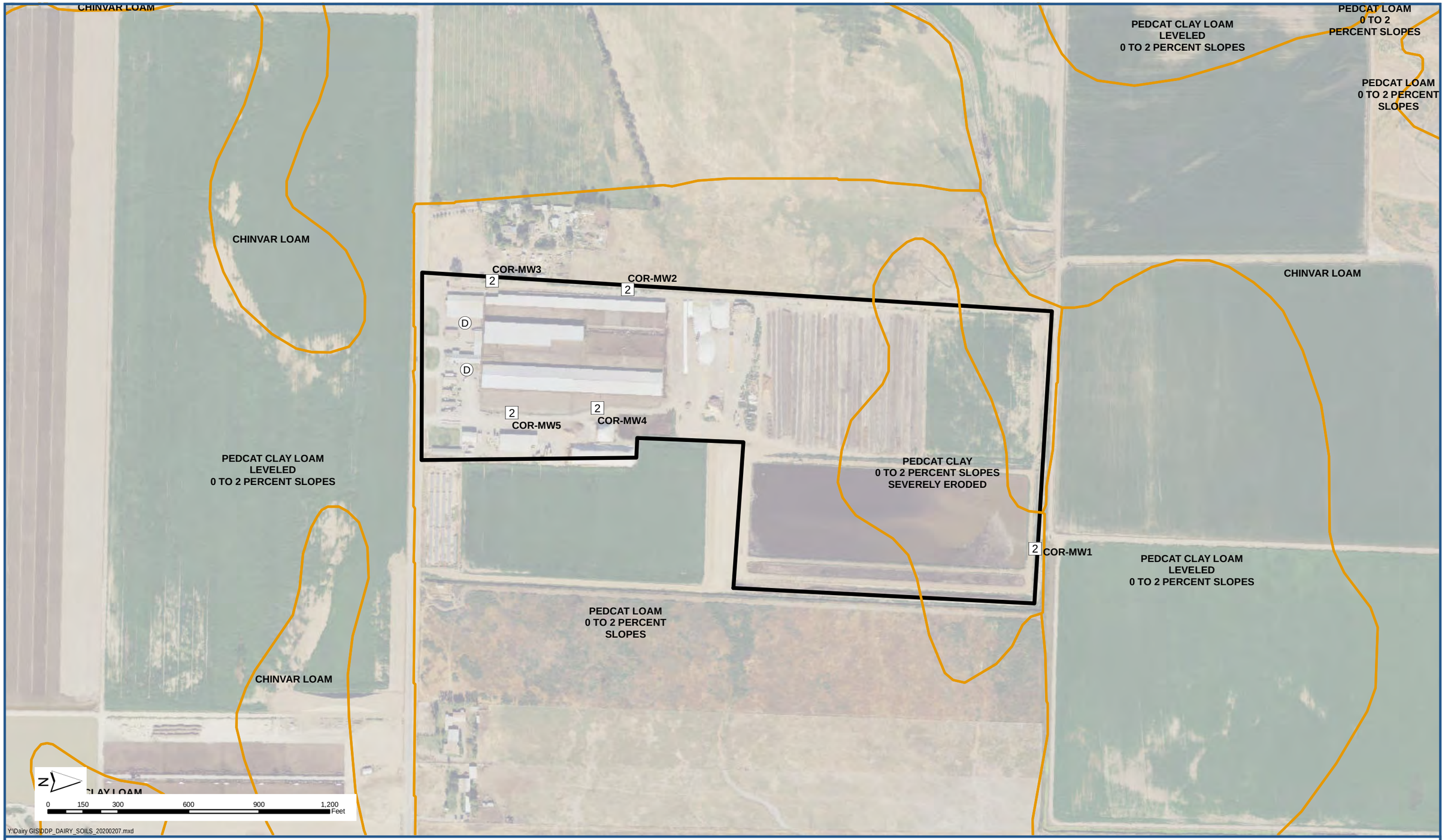
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
ANT - Year 8

Central Valley Dairy Representative Monitoring Program



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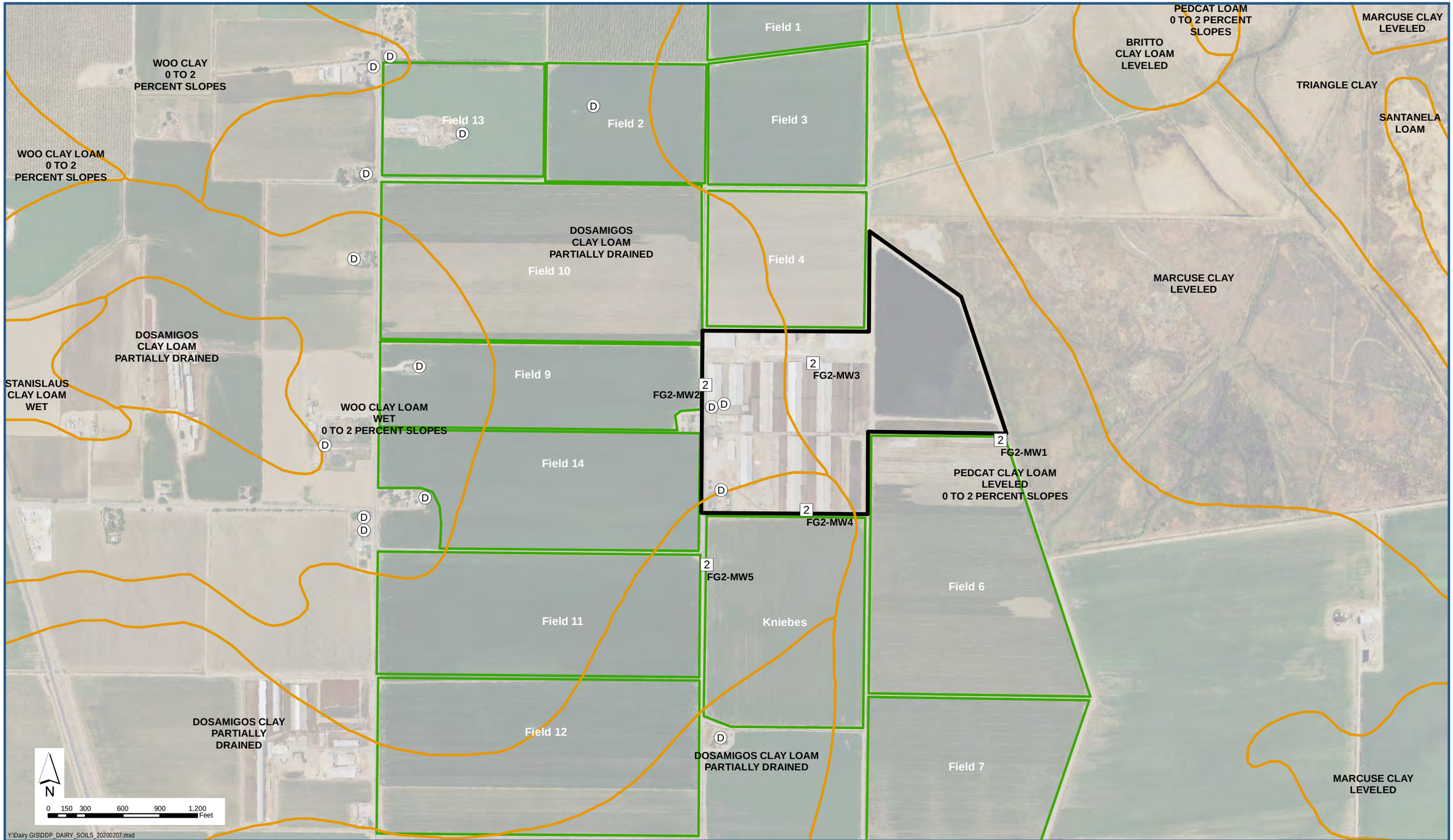
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
COR - Year 8

Central Valley Dairy Representative Monitoring Program



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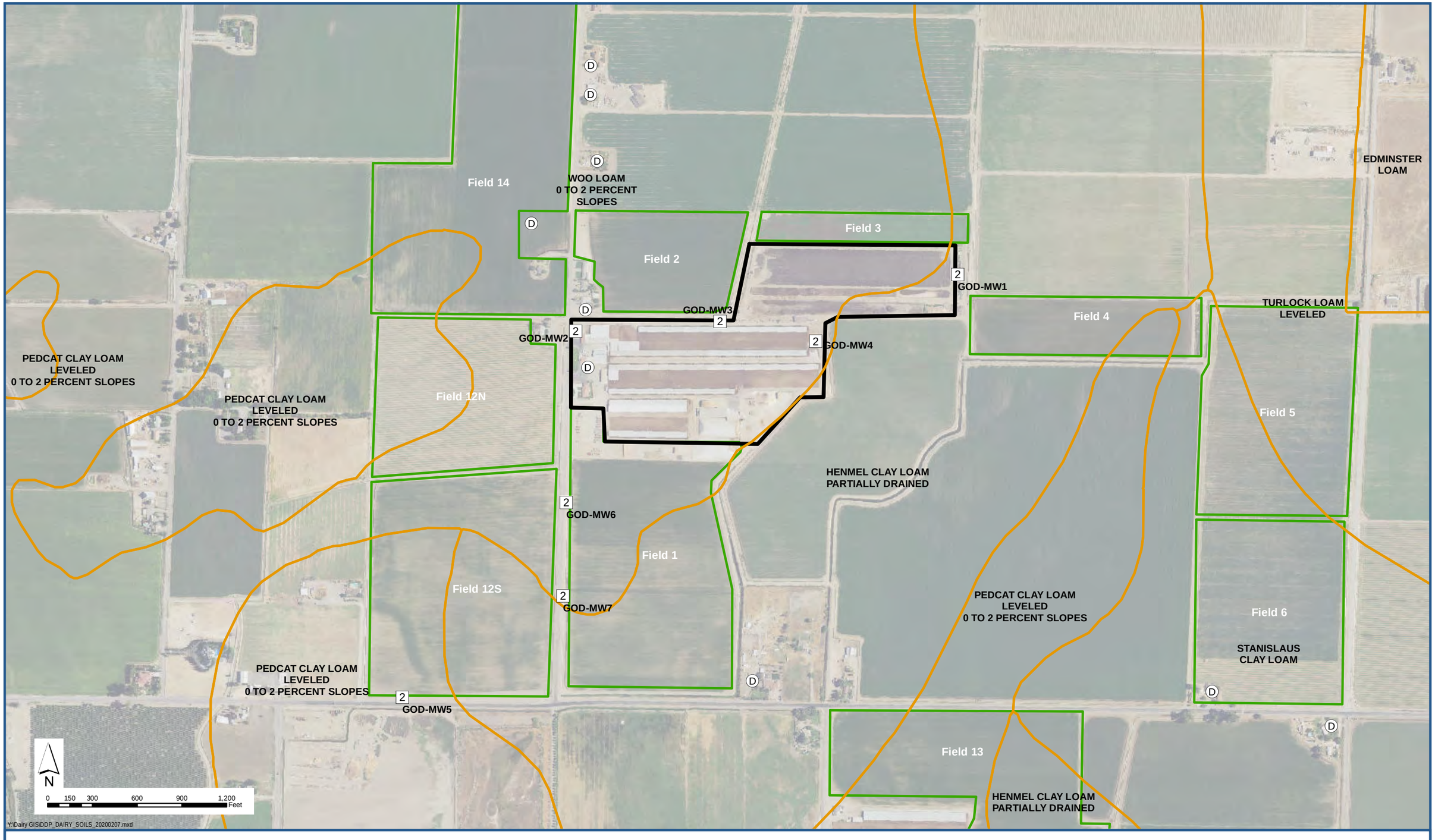
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
FG2 - Year 8

Central Valley Dairy Representative Monitoring Program



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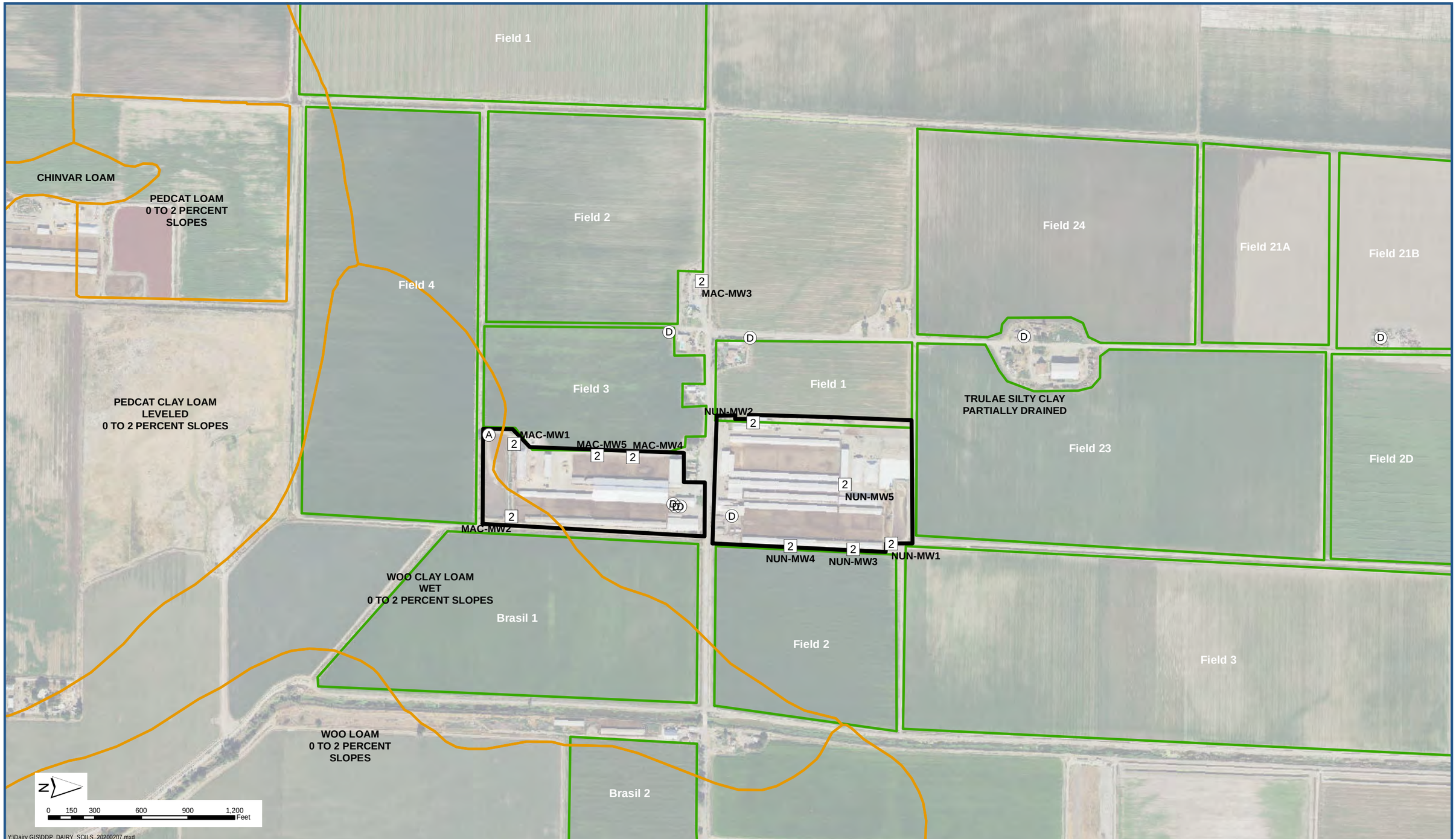
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
GOD - Year 8

Central Valley Dairy Representative Monitoring Program



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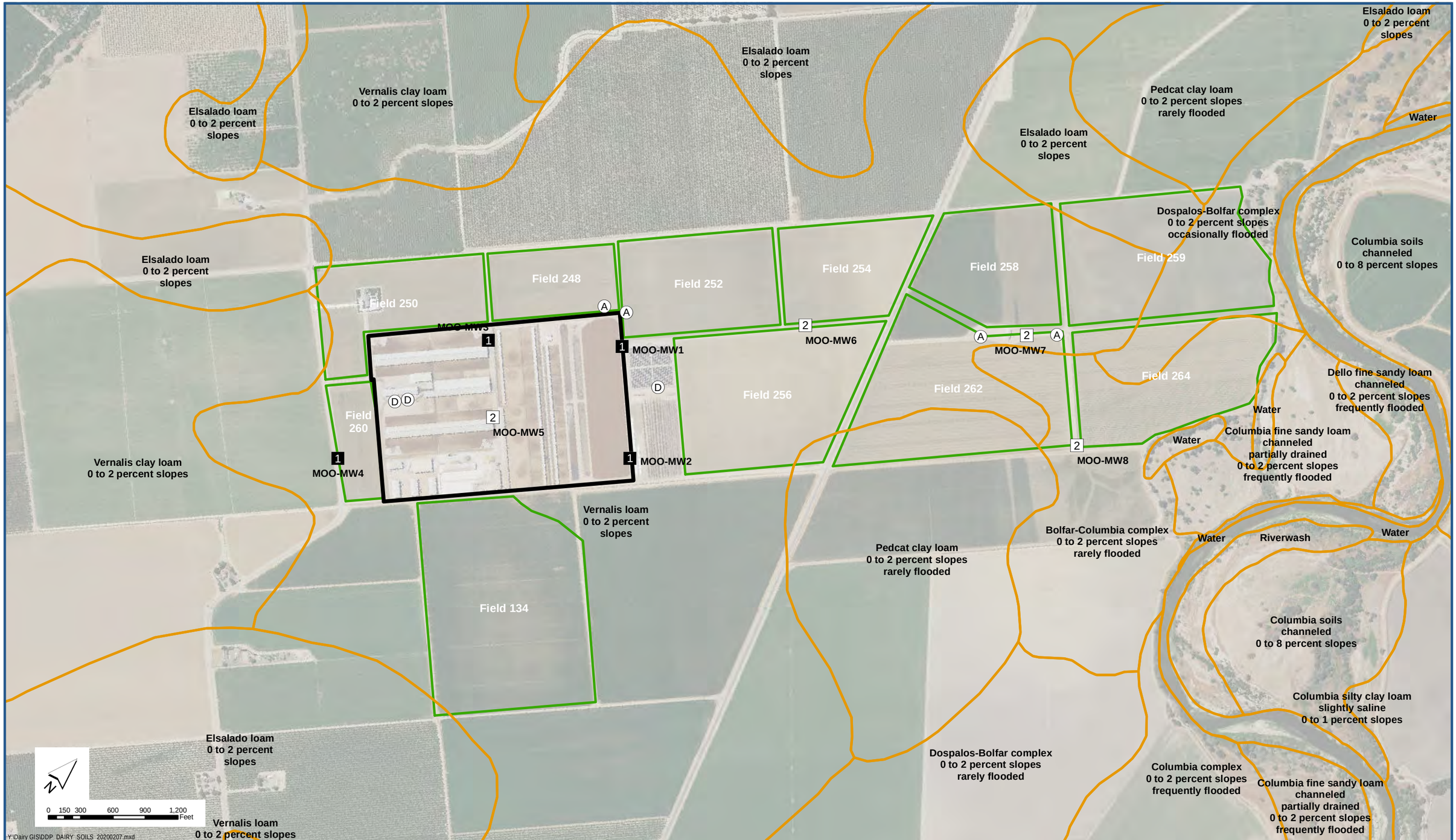
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
MAC/NUN - Year 8

Central Valley Dairy Representative Monitoring Program



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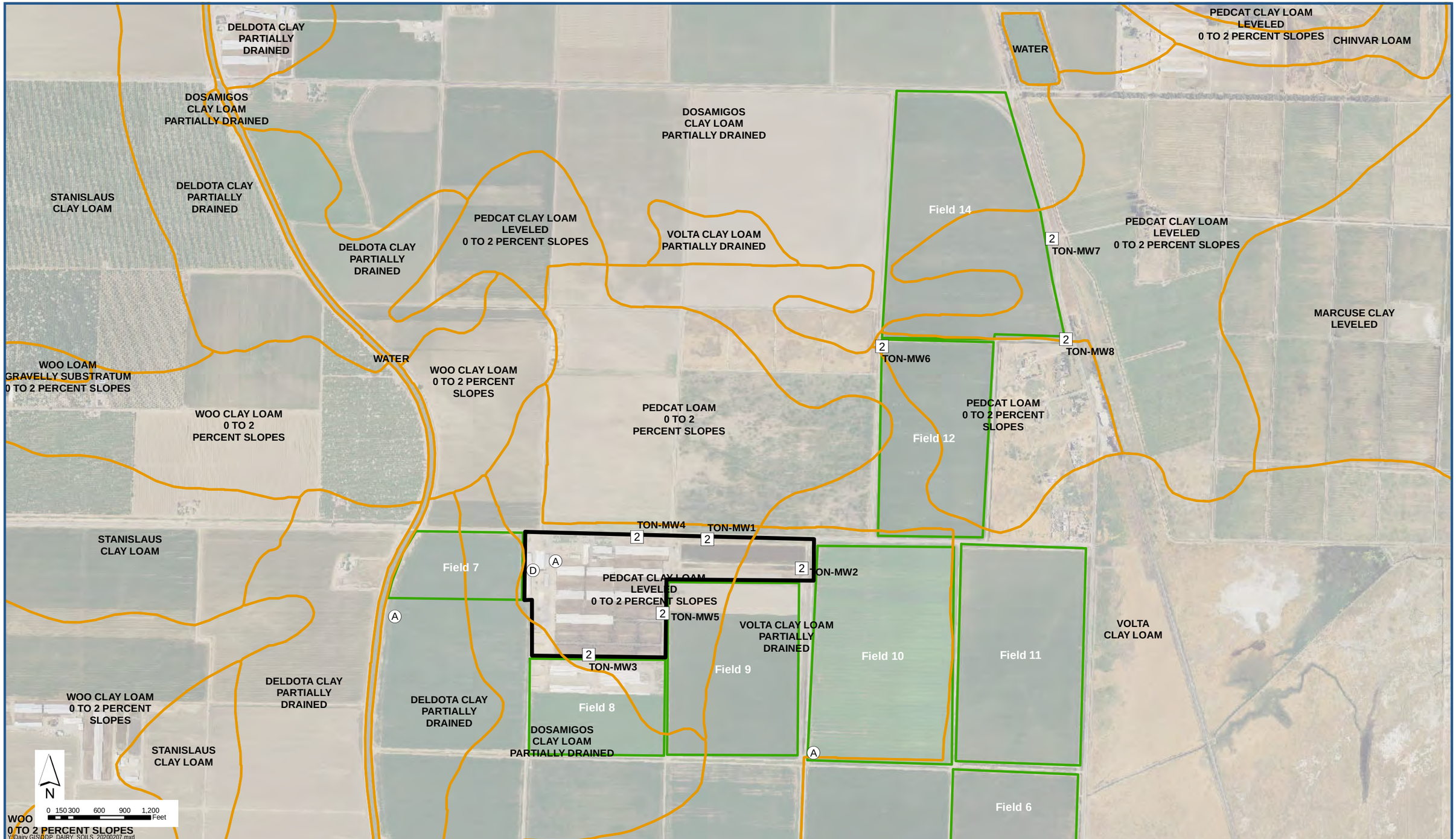
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
MOO - Year 8

Central Valley Dairy Representative Monitoring Program



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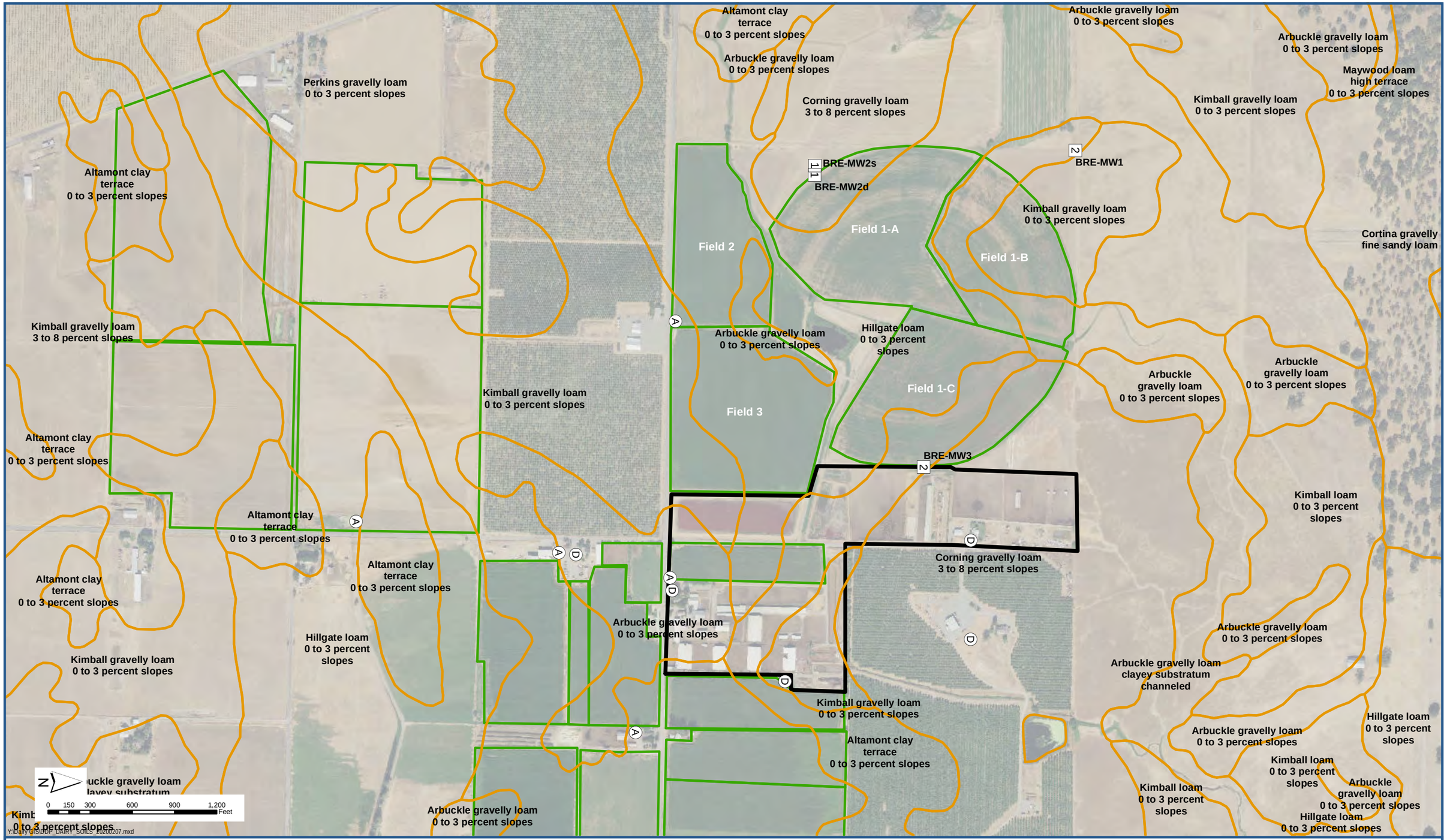
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
TON - Year 8

Central Valley Dairy Representative Monitoring Program



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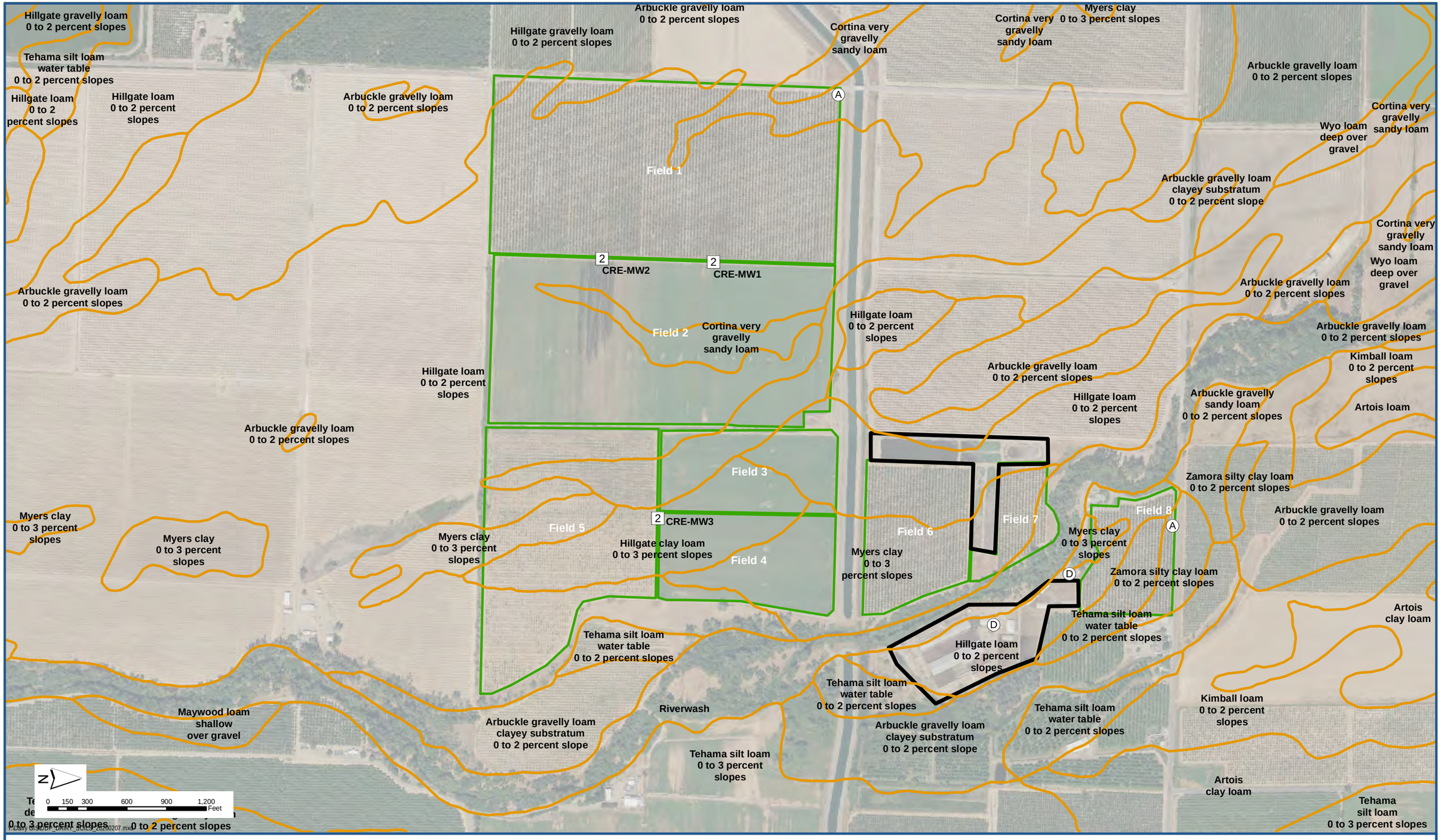
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
BRE - Year 8

Central Valley Dairy Representative Monitoring Program



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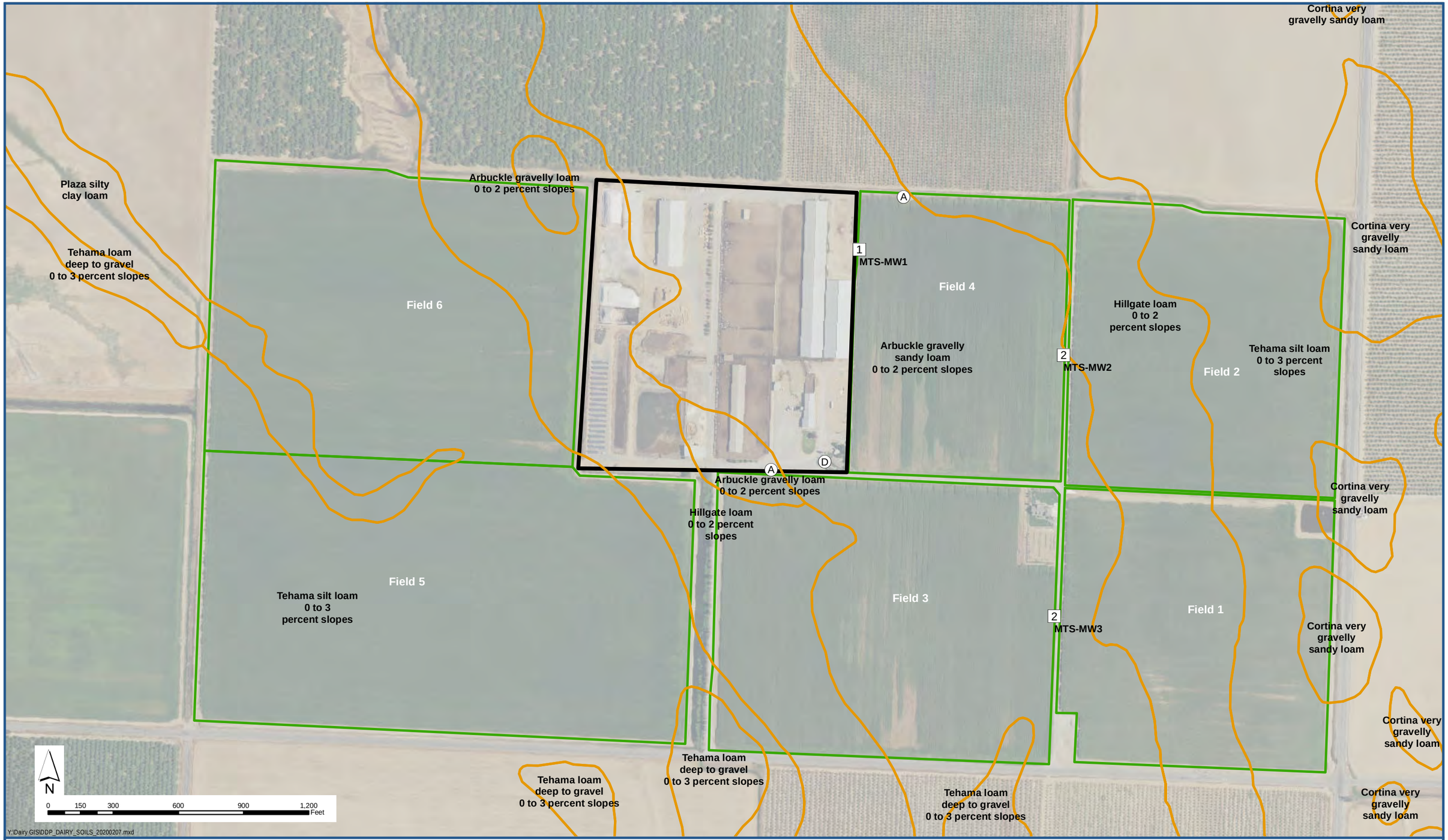
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
CRE - Year 8

Central Valley Dairy Representative Monitoring Program



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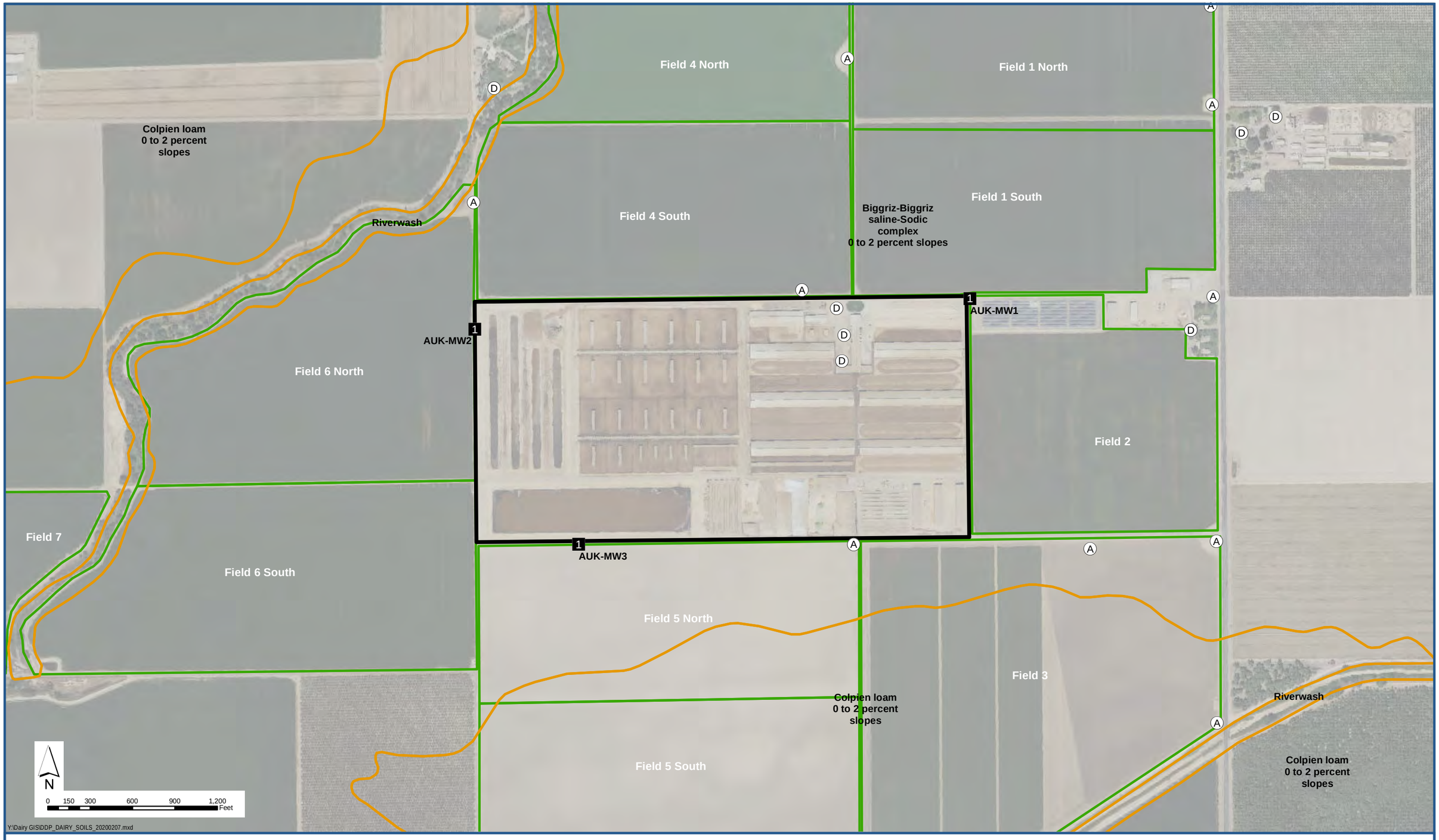
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
MTS - Year 8

Central Valley Dairy Representative Monitoring Program



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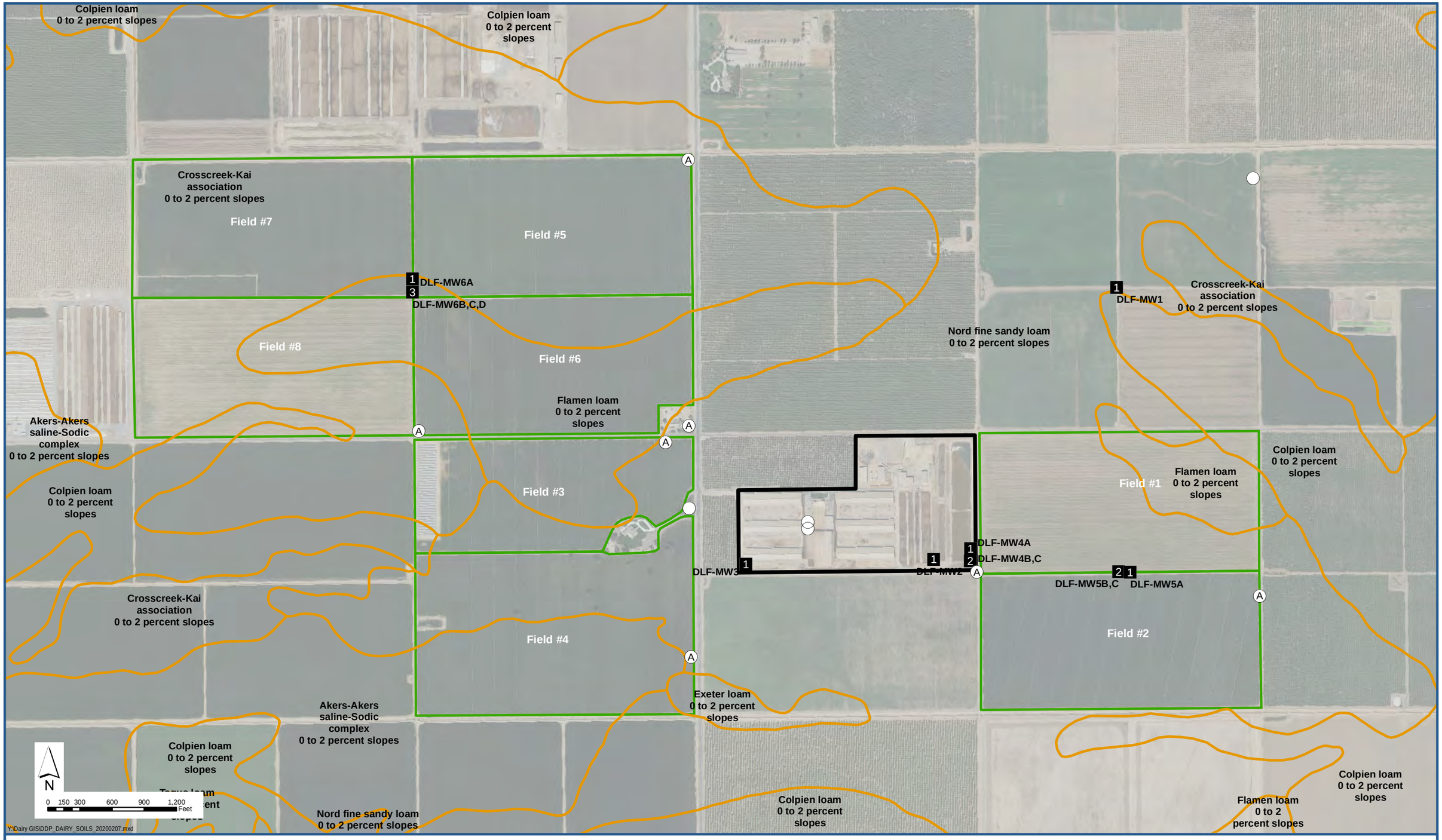
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
AUK - Year 8

Central Valley Dairy Representative Monitoring Program



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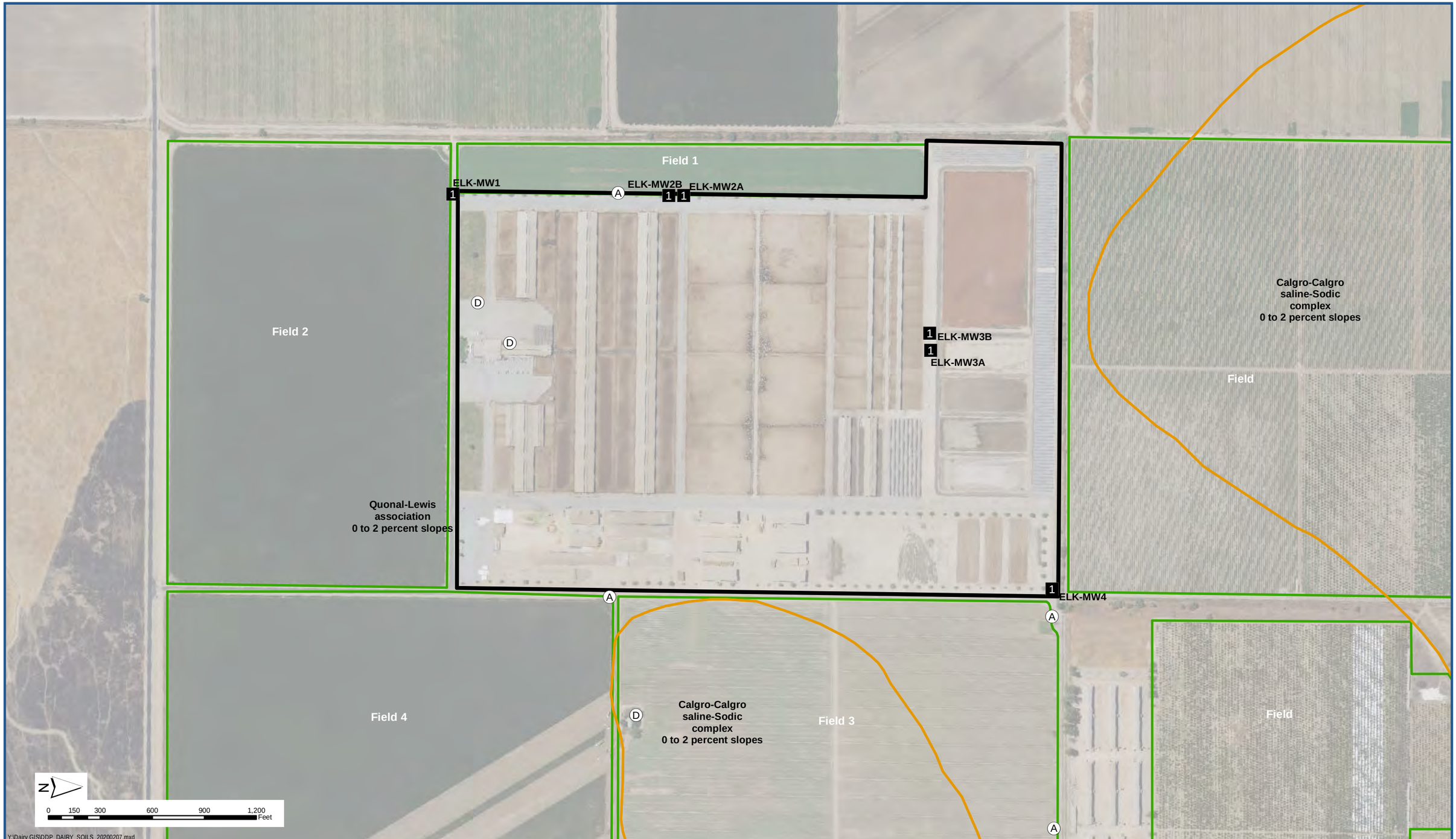
Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
DLF - Year 8

Central Valley Dairy Representative Monitoring Program



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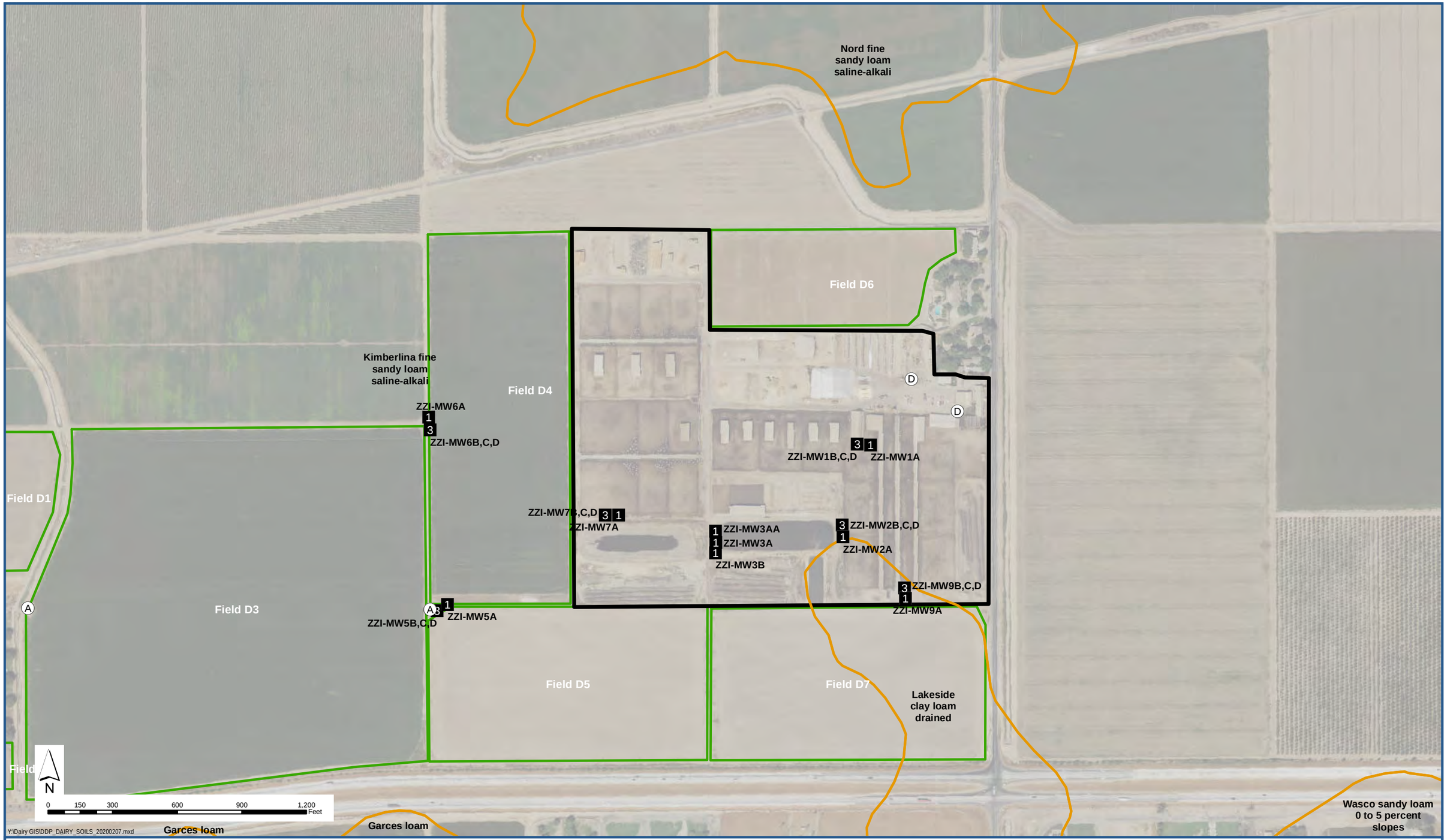
Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
ELK - Year 8

Central Valley Dairy Representative Monitoring Program



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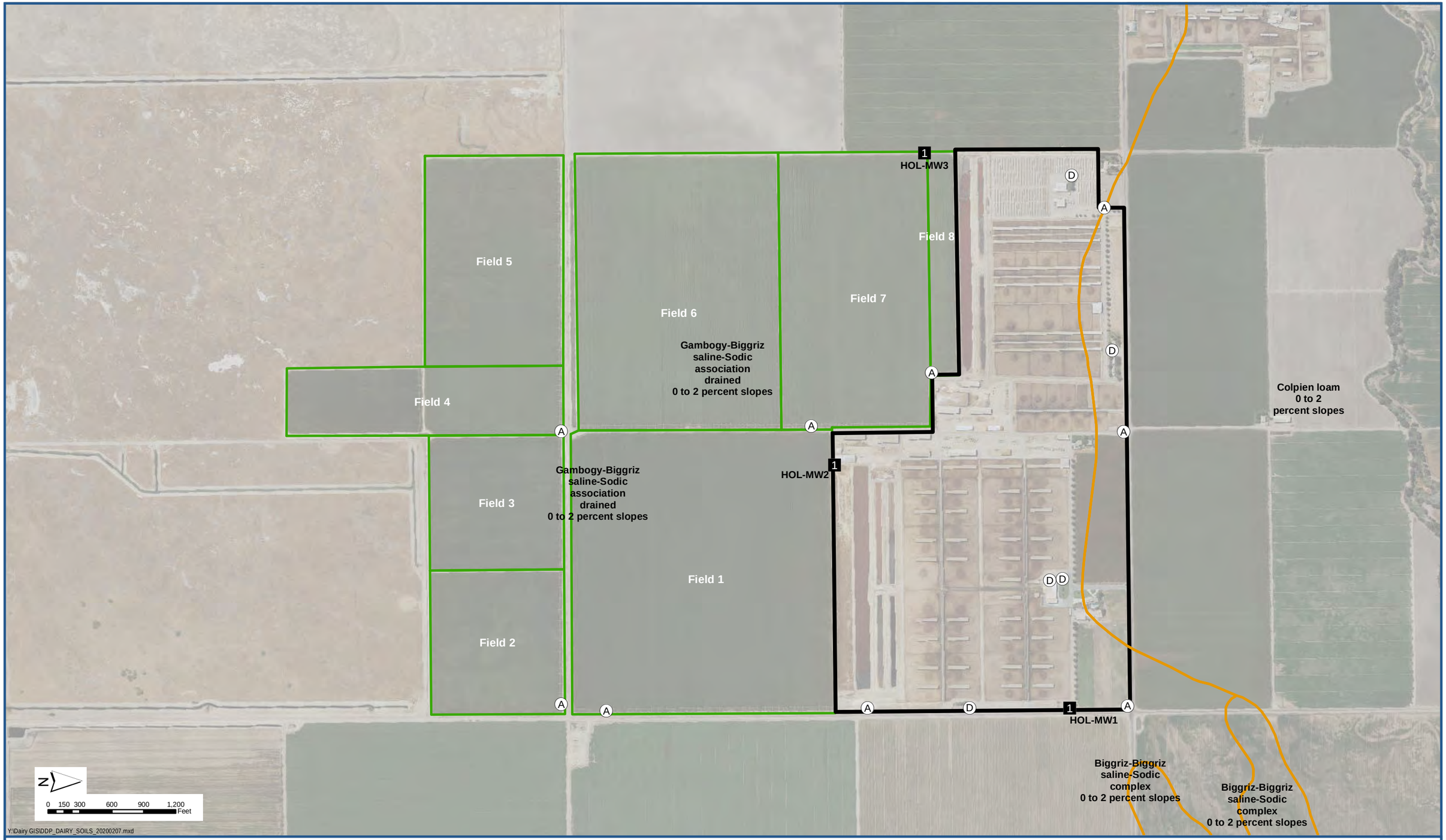
Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
ZZI - Year 8

Central Valley Dairy Representative Monitoring Program



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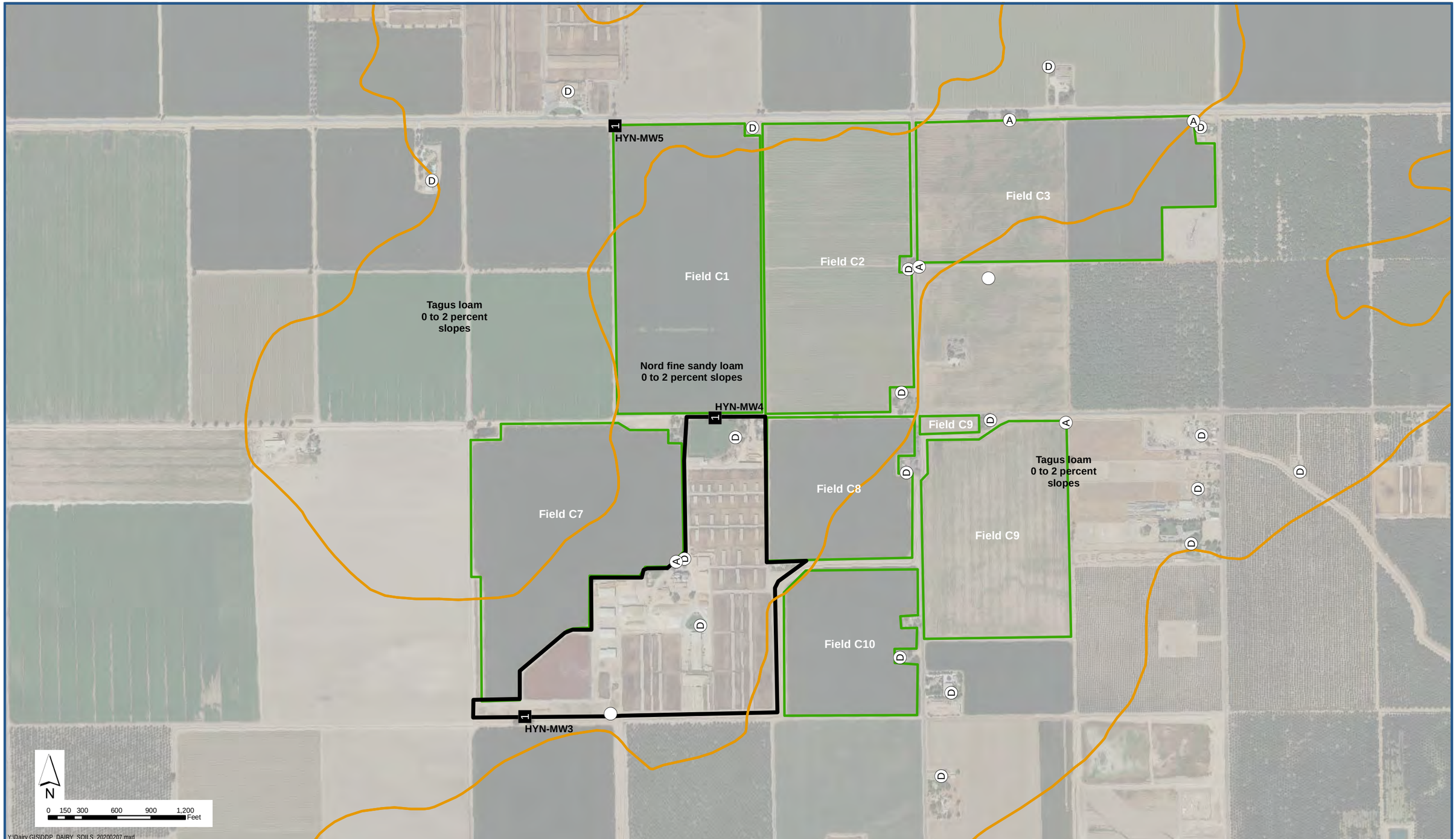
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
HOL - Year 8

Central Valley Dairy Representative Monitoring Program



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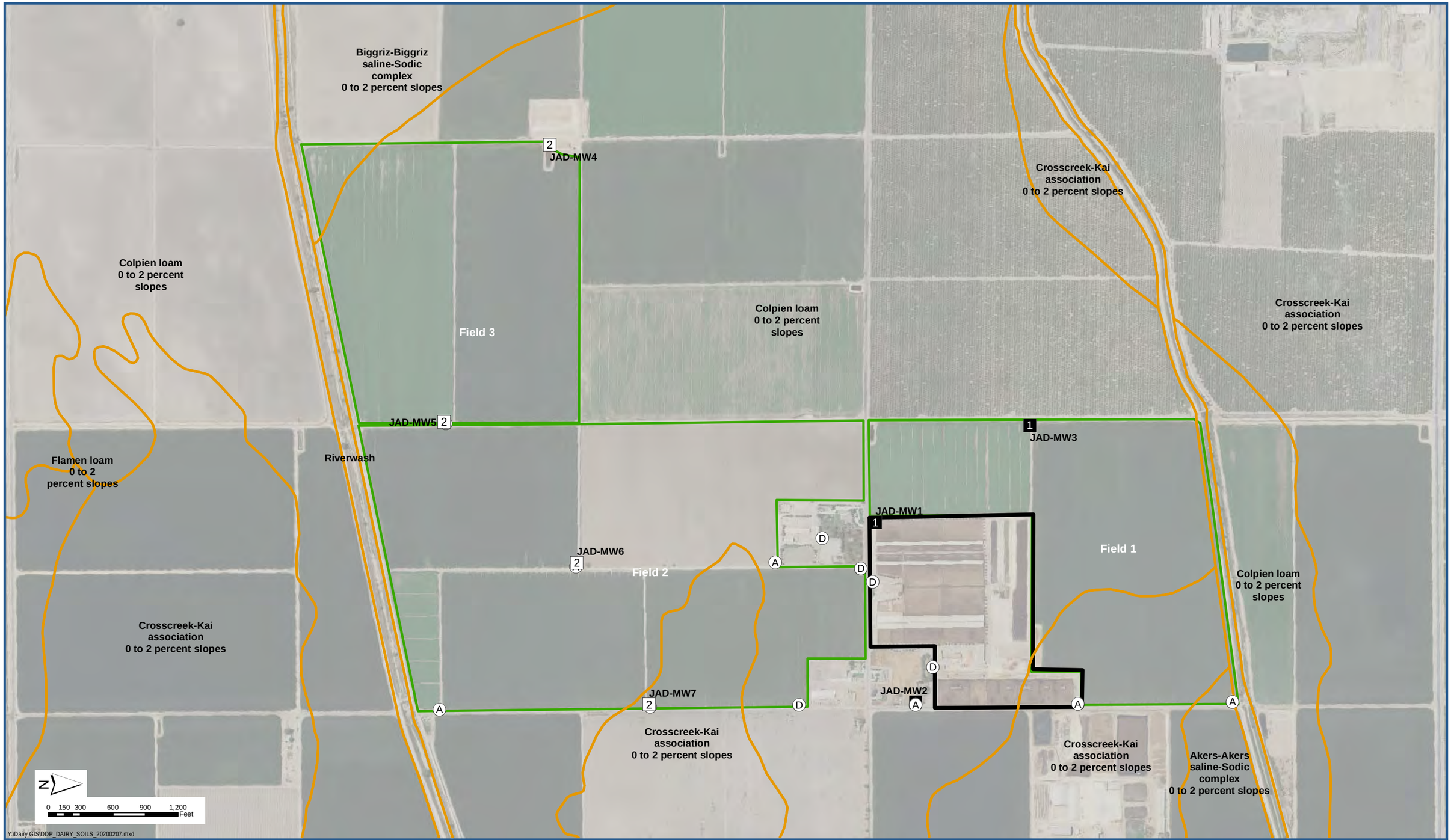
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
HYN - Year 8

Central Valley Dairy Representative Monitoring Program



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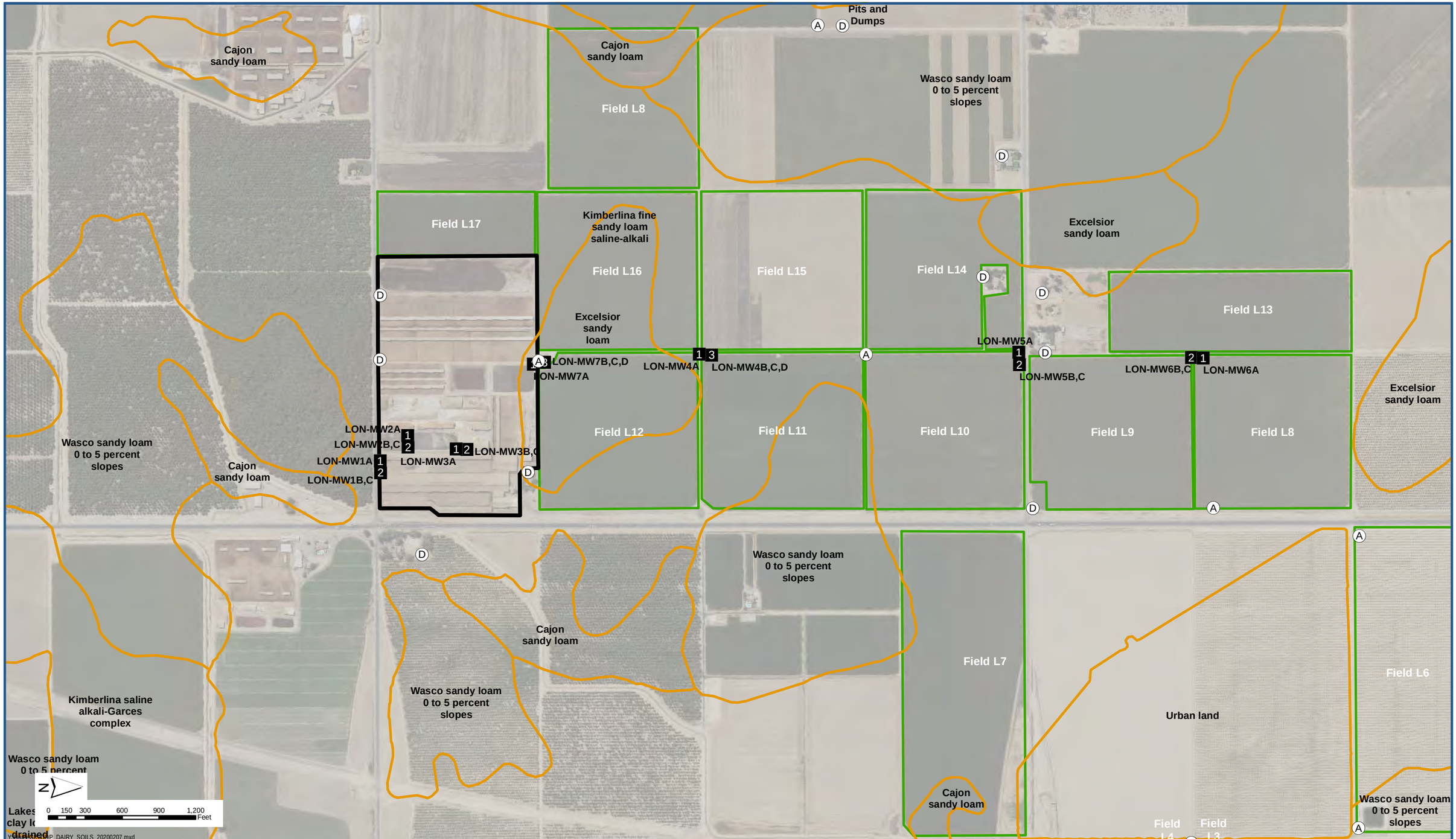
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
JAD - Year 8

Central Valley Dairy Representative Monitoring Program



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Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
LON - Year 8

Central Valley Dairy Representative Monitoring Program

Hesperia fine sandy loam moderately deep saline-alkali
Pachappa loam moderately deep
Hesperia sandy loam moderately deep
Hanford sandy loam
Hesperia fine sandy loam moderately deep saline-alkali
Hesperia fine sandy loam moderately deep
Hesperia fine sandy loam moderately deep saline-alkali
Hesperia fine sandy loam moderately deep
Hesperia fine sandy loam
Hesperia fine sandy loam moderately deep
Hanford sandy loam hard substratum
Field 1
Pachappa loam moderately deep
Field 2
Hesperia fine sandy loam moderately deep
Hesperia fine sandy loam moderately deep saline-alkali
Field 5
2 ADO-MW1
2 ADO-MW2
Hesperia sandy loam moderately deep saline-alkali
Field 4
Hesperia fine sandy loam moderately deep saline-alkali
Field 3
Field 6
Hesperia fine sandy loam
Hanford sandy loam
Hesperia fine sandy loam moderately deep saline-alkali
Hesperia fine sandy loam moderately deep saline-alkali
Hesperia fine sandy loam moderately deep saline-alkali
N
0 150 300 600 900 1,200 Feet
Y:\Dairy GIS\DDP_DAIRY_SOILS_20200207.mxd

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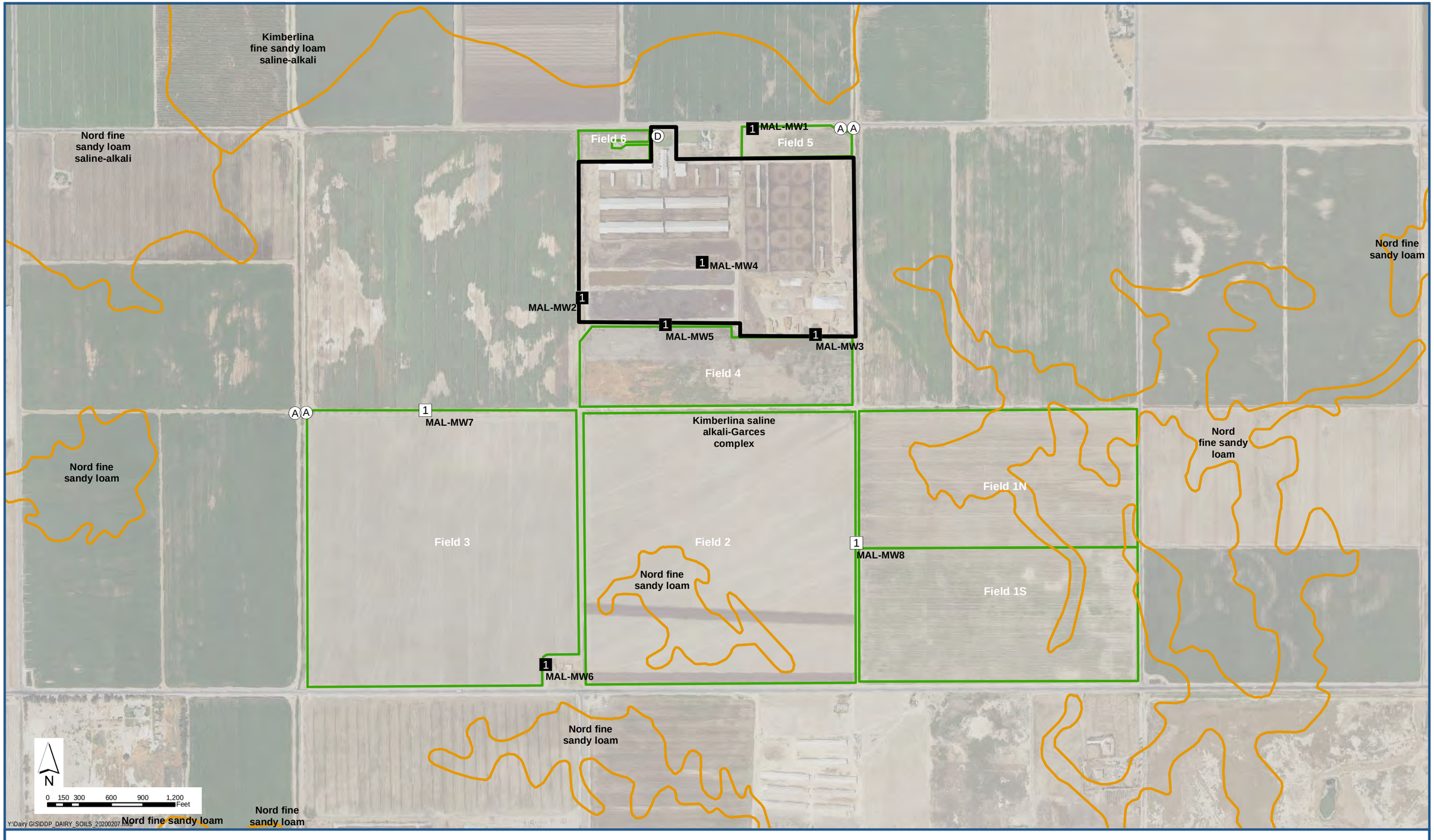
Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
ADO - Year 8

Central Valley Dairy Representative Monitoring Program



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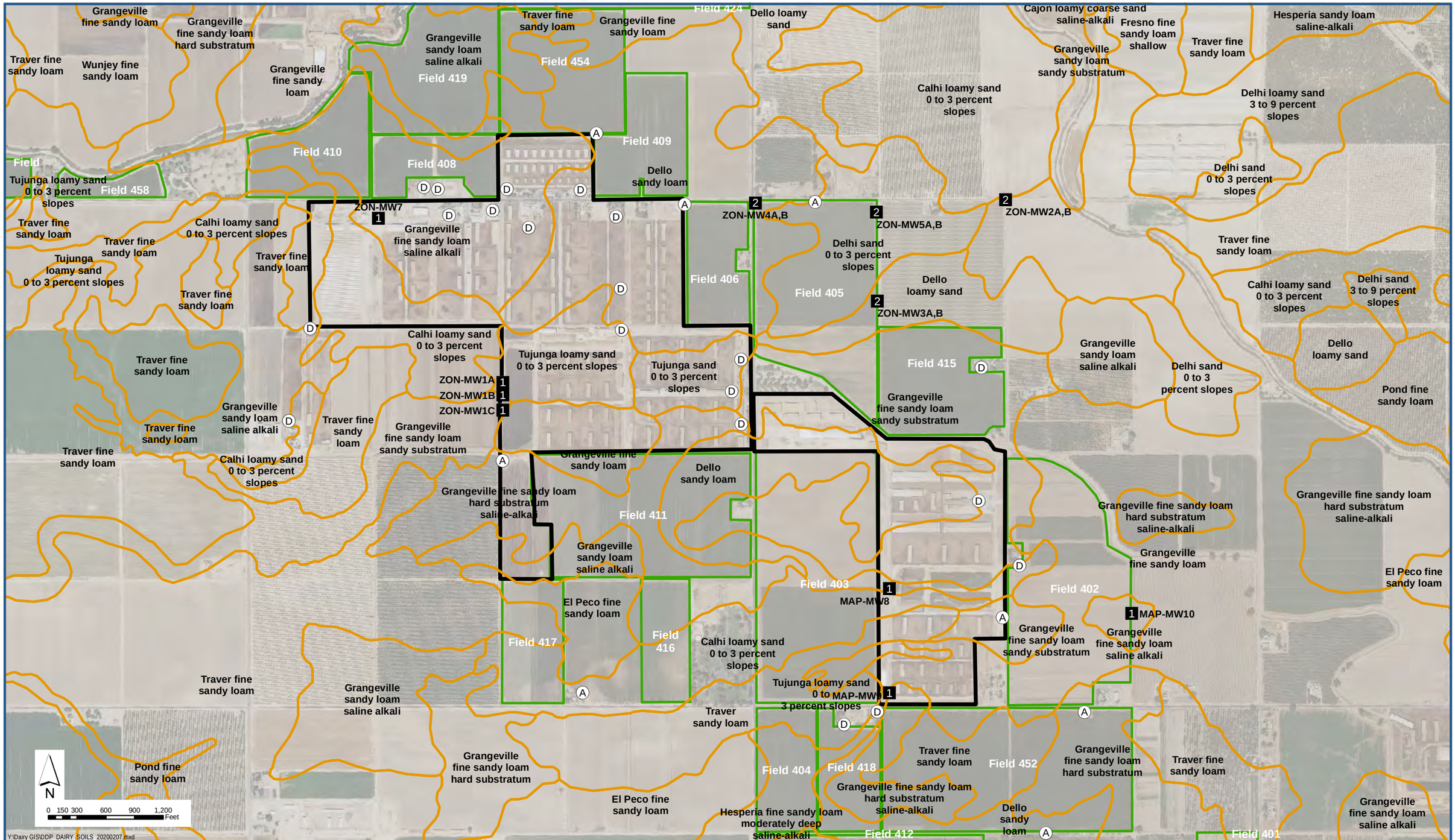
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
MAL - Year 8

Central Valley Dairy Representative Monitoring Program



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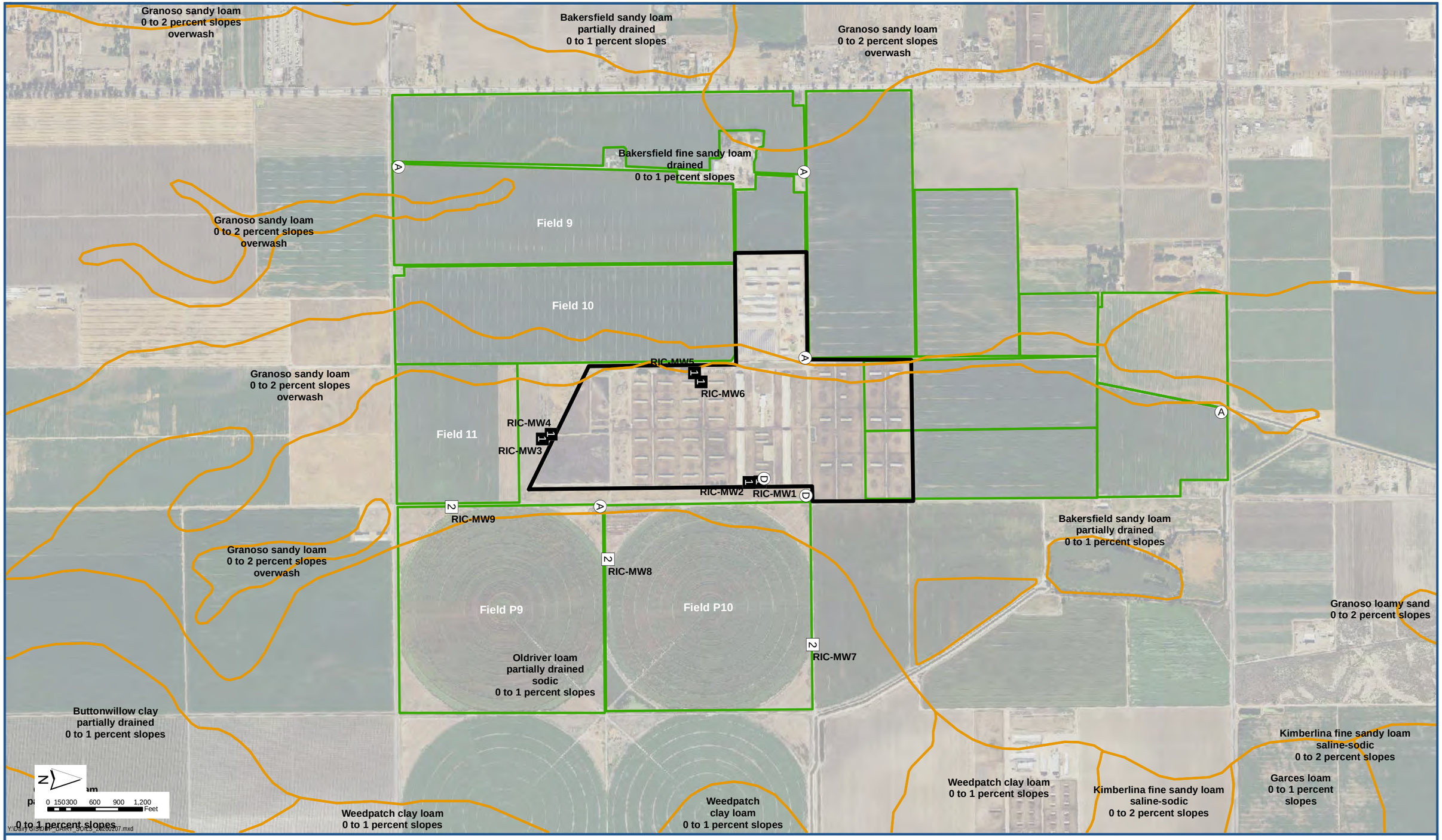
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
MAP/ZON - Year 8

Central Valley Dairy Representative Monitoring Program



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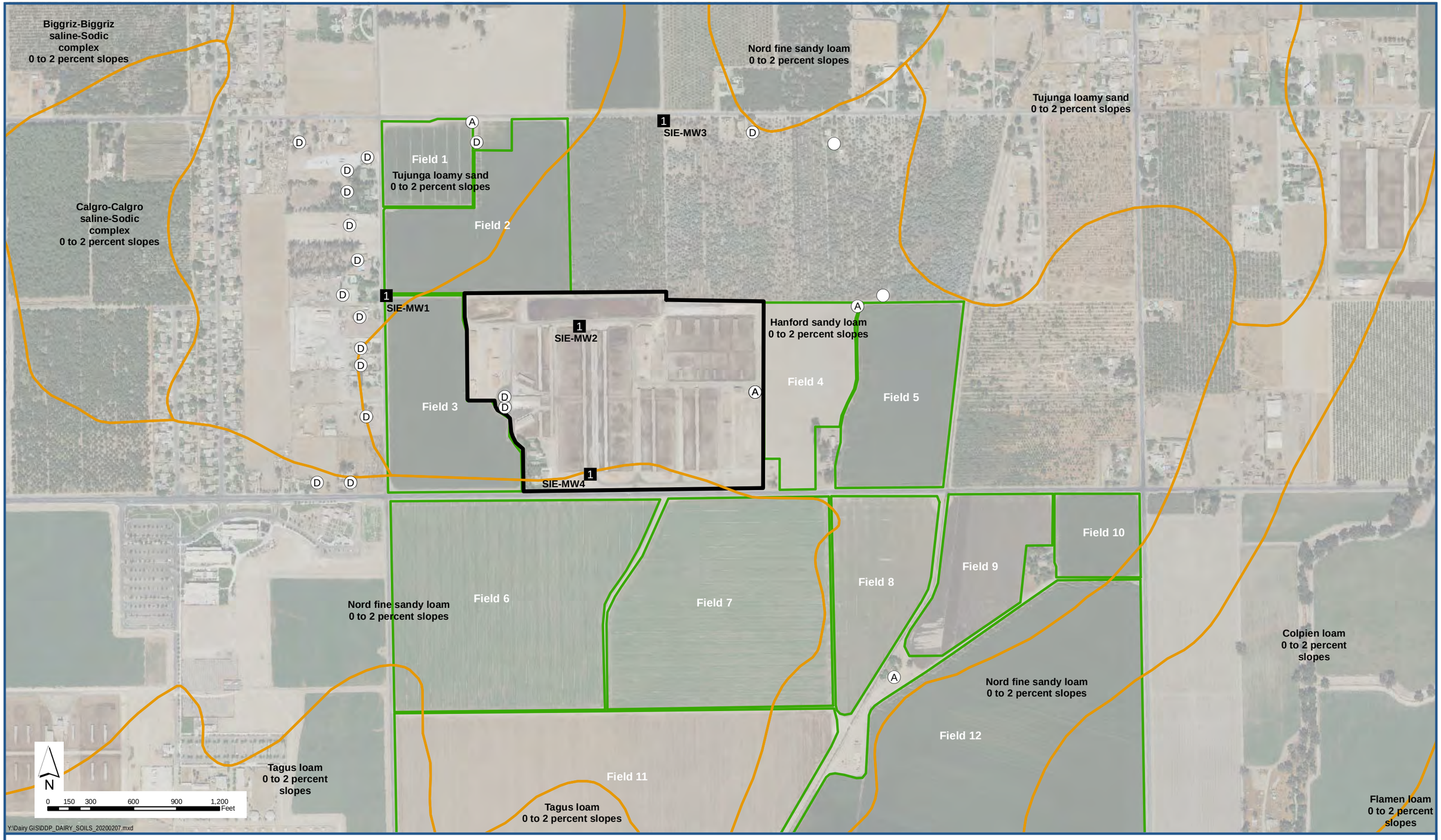
Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
RIC - Year 8

Central Valley Dairy Representative Monitoring Program



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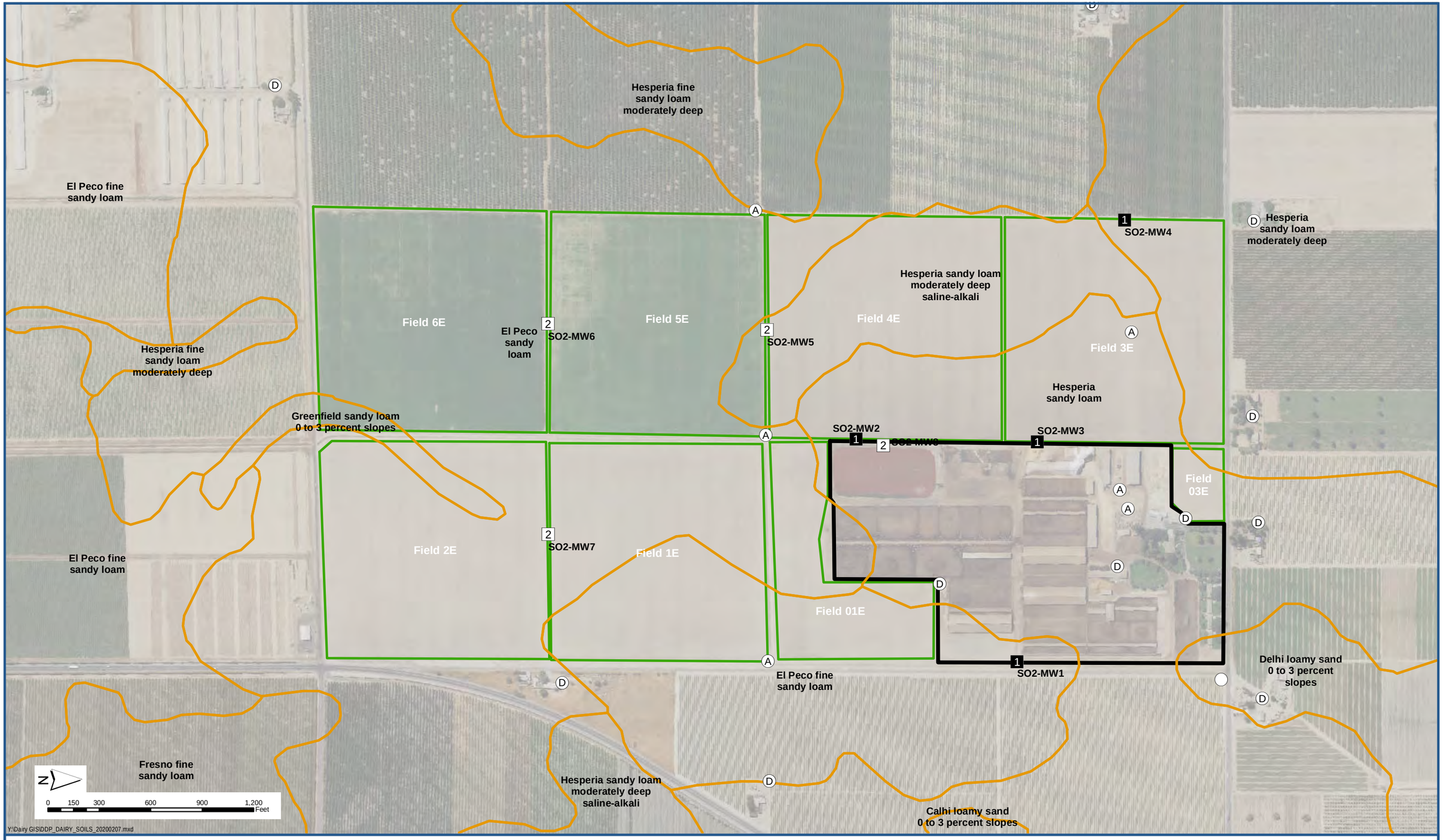
Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
SIE - Year 8

Central Valley Dairy Representative Monitoring Program



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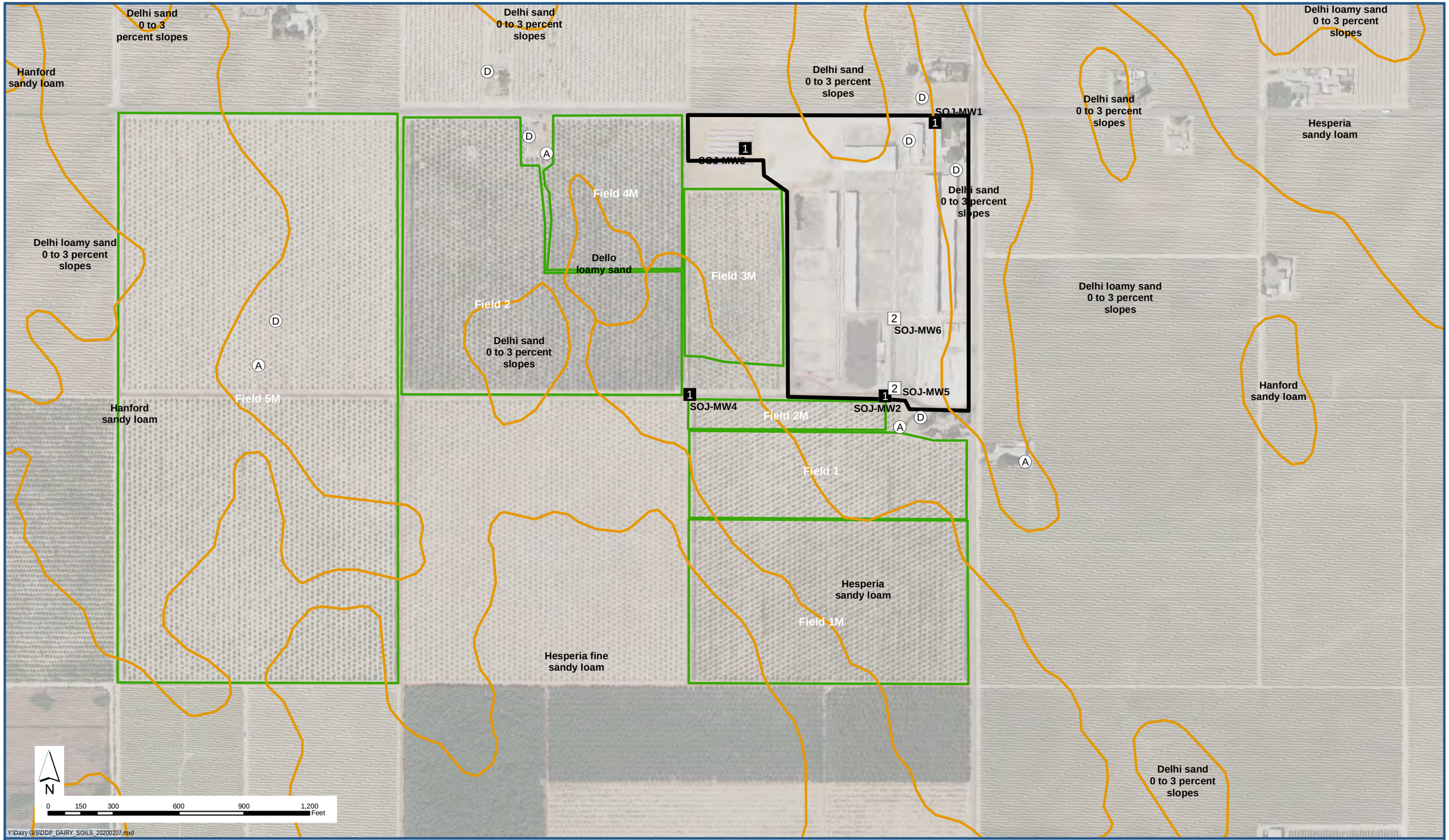
Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
SO2 - Year 8

Central Valley Dairy Representative Monitoring Program



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Consulting Engineers

Soil Characteristics (NRCS - SSURGO) of Dairy Production Area and Associated Fields
SOJ - Year 8

Central Valley Dairy Representative Monitoring Program