Lahontan Regional Water Quality Control Board

June 16, 2022

INTERESTED AGENCIES AND PARTIES:

REQUEST FOR COMMENTS - CLEANUP AND ABATEMENT ORDER R6T- 2022- (PROPOSED), REQUIRING SEVEN SPRINGS LIMITED PARTNERSHIP, FOX CAPITAL MANAGEMENT CORPORATION, BOBBY PAGES, INC., AND CONNOLLY DEVELOPMENT, INC TO ASSESS, CLEAN UP AND ABATE WASTE DISCHARGED TO WATERS OF THE STATE PURSUANT TO CALIFORNIA WATER CODE SECTIONS 13267 AND 13304 AT 1024 LAKE TAHOE BOULEVARD AND REGIONAL PERCHLOROETHYLENE GROUNDWATER PLUME, SOUTH LAKE TAHOE, EL DORADO COUNTY

The California Regional Water Quality Control Board, Lahontan Region (Water Board) intends to issue the enclosed proposed Cleanup and Abatement Order within the year. The proposed CAO names Seven Springs Limited Partnership, Fox Capital Management Corporation, Bobby Pages, Inc. and Connolly Development, Inc. as "Dischargers" and orders cleanup of discharges of solvent wastes from the former Lake Tahoe Laundry Works (Site). The discharges have resulted in violations of prohibitions contained in the Water Board's Water Quality Control Plan.

The Water Board is requesting your review and comments upon the proposed CAO (enclosed). The proposed CAO can also be viewed at the Water Board's webpage at http://www.waterboards.ca.gov/lahontan.

All comments regarding the proposed CAO must be received by the Water Board by **July 18, 2022 at 5:00 p.m**. Please send your comments to:

Katrina Fleshman, Executive Assistant
Lahontan Regional Water Quality Control Board
2501 Lake Tahoe Blvd.
South Lake Tahoe, CA 96150

Alternatively, you may electronically submit comments **(Subject Line: Lake Tahoe Laundry Works' proposed CAO Comments - [name of commenter])** to: lahontan@waterboards.ca.gov.

The proposed CAO is being issued to further address the regional perchloroethylene (PCE) groundwater plume originating from the Site. The proposed CAO requires the Dischargers to (1) Develop and Submit a Conceptual Site Model, (2) Prepare and Submit a Sampling and Analysis Plan and Quality Assurance Project Plan**,** (3) Develop, Submit, and Implement Site Investigation Work Plan(s), (4) Develop, Submit, and

Implement a Monitoring Well Installation Work Plan, (5) Develop, Submit, and Implement a Vapor Intrusion Investigation Work Plan, (6) Prepare and Submit a Human Health and Ecological Risk Assessment (HHERA), (7) Conduct Remedial Action, (8) Prepare and Submit a Public Participation Plan**,** and (9) Conduct Monitoring. These actions are needed to protect human health and the environment, and existing and potential beneficial uses, including the restoration of the drinking water aquifer for human consumption.

If you have questions or comments regarding this matter, please contact Brian Grey at (530) 542-5421.

BEN LETTON
ASSISTANT EXECUTIVE OFFICER

Enclosure: Cleanup and Abatement Order No. R6T-2022-(PROPOSED)

STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LAHONTAN REGION
CLEANUP AND ABATEMENT ORDER NO. R6T-2022-(PROPOSED)
REQUIRING

SEVEN SPRINGS LIMITED PARTNERSHIP
FOX CAPITAL MANAGEMENT CORPORATION
BOBBY PAGES, INC.
CONNOLLY DEVELOPMENT, INC

TO ASSESS, CLEANUP, AND ABATE
WASTE DISCHARGED TO WATERS OF THE STATE PURSUANT TO CALIFORNIA WATER CODE SECTIONS 13267 AND 13304

LAKE TAHOE LAUNDRY WORKS
1024 LAKE TAHOE BOULEVARD
SOUTH LAKE TAHOE, CALIFORNIA 96150
AND
REGIONAL PERCHLOROETHYLENE GROUNDWATER PLUME

SITE CLEANUP PROGRAM NO. T6S043
GEOTRACKER GLOBAL ID NO. SL0601754315

This Cleanup and Abatement Order No. R6T-2022-(PROPOSED) (Order) is issued to Seven Springs Limited Partnership, Fox Capital Management Corporation, Bobby Pages, Inc., and Connolly Development, Inc., based on provisions of Water Code (WC) sections 13304 and 13267, which authorize the California Regional Water Quality Control Board, Lahontan Region (Lahontan Water Board) to issue this Cleanup and Abatement Order and require the submittal of technical and monitoring reports.

The Lahontan Water Board finds that:

OVERVIEW

1. **Discharger(s):** Seven Springs Limited Partnership (Seven Springs), Fox Capital Management Corporation (Fox), Bobby Pages, Inc. and Connolly Development, Inc. are identified as "Dischargers" due to their or their predecessors':

   - Current or prior ownership of the property located at 1024 Lake Tahoe Boulevard, South Lake Tahoe, California, during a time when a waste discharge occurred, and/or

   - Current or prior operations at the former Lake Tahoe Laundry Works resulted in the discharge of wastes, including the volatile organic compounds (VOCs) perchloroethylene (PCE) and PCE degradation compounds including trichloroethylene (TCE), cis-1,2 dichloroethylene (cis-1,2 DCE), trans-1,2 dichloroethylene (trans-1,2 DCE), 1,1 dichloroethylene (1,1 DCE), vinyl chloride (VC), and other waste constituents of concern (collectively referred to as the contaminants of concern [COCs]) to the environment.

As detailed in this Order, the Dischargers have caused or permitted waste to be discharged or deposited where it is, or probably will be, discharged into the waters of the State, which creates, or threatens to create, a condition of pollution or nuisance. The presence of elevated levels of COCs in soil, soil vapor, and groundwater and the threat of vapor intrusion caused by these contaminants constitutes a public nuisance per se because the pollution occurred as a result of discharges of wastes in violation of the WC.

2. **Location:** The former Lake Tahoe Laundry Works (hereinafter referred to as "the Site") is located at 1024 Lake Tahoe Boulevard, South Lake Tahoe, El Dorado County (Assessor's Parcel Number 023-430-32-100). The Site is approximately 9,000 feet south of Lake Tahoe and approximately 5,500 feet south of the Tahoe Keys community (Tahoe Keys). The Site is located on the southwest corner of the intersection of Lake Tahoe Boulevard (Highway 50) and Emerald Bay Road (Highway 89) in an area locally referred to as the "South Y Area" (Figures 1 and 2). The portion of the Lake Tahoe Basin adjacent to, and downgradient from the Site relies on groundwater as its primary source of drinking water.[1]

3. **Site Description and Activities:** The Site is currently owned and managed by Seven Springs. A laundromat operated at the Site from the early 1970s to 2011. Another laundromat currently occupies the tenant space formerly occupied by Lake Tahoe Laundry Works.

4. **Chemical Usage:** Depositions from former operators[2], technical reports, regulatory correspondence, public comments, and other documents available in the case file indicate that PCE, a chlorinated solvent, was stored and used in a coin operated dry cleaning unit (DCU) operated at the Site from 1972 to 1979.

5. **Waste Discharges:** Site assessments conducted at the Site since 2003 indicate that the initial discharges of wastes to the soil and groundwater occurred as a result of dry cleaning operations between approximately 1972 and 1979. The Site assessments indicate that the soil, soil vapor, and groundwater (Figures 3 through 11) are impacted with COCs. The cleaning solvent delivery, handling, and disposal practices reported to have been utilized at the Site are consistent with the common release mechanisms identified in numerous dry cleaner studies and based upon the experience of State Water Board and Regional Water Quality Control Board staff. Spills/discharges associated with PCE delivery, handling, and disposal practices are the likely sources of waste discharge at the Site.

[1] South Tahoe Public Utility District, 2020. Tahoe South Subbasin (6-005.01) Annual Report 2020 Water Year, March 29, page 8
[2] AR11290-11678; Deposition of Mary Louise Baisley, former operator starting in 1976 (April 13, 2007)

6. **Investigations:** Site investigations started in the South Y Area after PCE was first reported in water supply wells in 1989. Since the initial discovery, multiple regional and site-specific investigations have been conducted by various parties to investigate and cleanup and abate its effects. The investigations conducted to date indicate the general geometry of a contiguous regional PCE plume, approximately one mile long, which originates at the Site and extends through the South Y Area to at least the Tahoe Keys. The lateral and vertical extent of the regional PCE plume shown on Figures 8, 9, and 10 represent estimates based on a summary of previous site-specific investigations conducted between January 2017 and November 2020 and a 2019 and 2020 reconnaissance-level field investigation. Additional investigations are required to address remaining data gaps and further refine the Lahontan Water Board staff's understanding of the lateral and vertical extent of the regional PCE plume.

7. **Remediation:** Remediation efforts at the Site have focused on a limited on-Site (i.e., land within the Site's property boundaries, both above and below the ground surface, hereafter "on-Site") source area identified by the Dischargers' consultants (Figure 12) and have been insufficient to address the extent of the discharge(s) (Figures 8 through 11). COCs discharged at the Site prior to remedial action implementation continue to discharge and threaten to discharge into waters of the State. COCs in groundwater that have escaped the radius of influence of the on-Site remediation activities continue to migrate, unabated, into municipal and domestic water supplies (Figures 13 and 17).

8. **Discharges Have Impacted Regional Groundwater:** The Lahontan Water Board are conducting a $4.6 million investigation and the data results from the first two years of investigation conclusively establish that the discharges from the Site have contributed to a contiguous regional PCE plume (Figures 8, 9, and 10), that originates at the Site, and extends, without interruption, north to the Tahoe Keys and to depths of approximately 240 feet below ground surface (bgs). The discharges have impaired Municipal and Domestic Supply (MUN) beneficial use (Figure 13) and COCs are present at concentrations that pose a threat to human health and the environment.

9. **Sources of Information:** The sources of information supporting this Order include, but are not limited to: reports and other documentation in Lahontan Water Board files, including meeting and telephone call documentation, and e-mail communication with Dischargers, their attorneys, and/or consultants, and Site visits. Relevant reports and data are also available at GeoTracker Global ID No. SL0601754315.[3] The Staff Report included as Attachment A provides more detail regarding the underlying bases for this Order.

REGULATORY AND LITIGATION HISTORY

10. The Lahontan Water Board issued a series of WC section 13267 investigative orders to the Dischargers beginning on June 5, 2003, which initiated soil and groundwater investigations related to the coin operated dry cleaning operation at the Site. The WC section 13267 investigative orders were dated April 12, 2004; May 17, 2004; July 26,

[3] Link to Site Case File on GeoTracker

2004; and November 4, 2005, and required description and illustration of floor drain, piping, and connections within the building and definition of the lateral and vertical extent of the discharge. The WC section 13267 investigative orders resulted in the submittal of work plans and technical reporting for the four investigations conducted between 2003 and 2006. The results of the four investigations identified on-Site discharges of PCE and other COCs to soil and groundwater. Although required in these WC section 13267 investigative orders, the lateral and vertical extent of PCE and other wastes was never determined.

11. On April 18, 2006, the Lahontan Water Board issued a WC section 13267 order, directing the Dischargers to submit a corrective action work plan. On July 14, 2006, the Lahontan Water Board Executive Officer agreed to postpone the requirement to submit a corrective action work plan per the Dischargers' request dated June 9, 2006.

12. On April 8, 2009, the Lahontan Water Board issued WC section 13267 Order No. R6T-2009-0013 directing the Dischargers to submit a work plan to remove contaminants on the property and contain PCE migration in groundwater. The Dischargers submitted the June 4, 2009 *Remedial Action Workplan for SZA Groundwater Investigation, SZA Groundwater Monitoring, Interim Remedial Action Vadose Zone Soil and Shallow Groundwater Cleanup* and follow-up addendum dated August 26, 2009 to comply. On September 1, 2009, the Lahontan Water Board accepted the tasks described in the above documents as interim remedial actions at the Site.

13. On June 13, 2013, the Lahontan Water Board requested public comments for proposed cleanup actions. The August 12, 2010 Draft Remedial Action Plan recommended the continued operation of the existing air sparge/soil vapor extraction (AS/SVE) system following pilot testing. No public comments were received, and the Dischargers continued operating the AS/SVE system as proposed.

14. On August 2, 2013, the Lahontan Water Board issued WC section 13267 Order No. R6T-2013-0064, which conditionally accepted the continued operation of the AS/SVE remediation system to remediate contaminants in soil, soil vapor, and groundwater and directed the Dischargers to submit quarterly remediation status reports. Investigative Order No. R6T-2013-0064 also indicated one year of verification monitoring would be required to ensure restoration of beneficial uses to the drinking water aquifer. The Dischargers have submitted quarterly remediation status reports in compliance with Order No. R6T-2013-0064. Verification monitoring has not been conducted to confirm restoration of beneficial uses.

15. On June 5, 2015, the Lahontan Water Board, Fox, and Seven Springs entered into a Stipulated Agreement for Replacement Water Supply at 883 and 903 Eloise Avenue.

16. On September 15, 2015, the Lahontan Water Board issued a request for comments on Proposed Cleanup and Abatement Order R6T-2015-PROP and subsequently issued a Revised Request for Comments on September 29, 2015. Comments were received from the Dischargers and three water purveyors following two comment period deadline extensions.

17. On February 17, 2016, the Lahontan Water Board provided a *Satisfaction of Stipulated Agreement for Replacement Drinking Water* letter to Fox and Seven Springs confirming provision of interim water supply and connection of both properties (883 and 903 Eloise Avenue) to public water supply.

18. On July 18, 2016, the Lahontan Water Board issued *Proposed Revisions to Lake Tahoe Laundry Works Cleanup and Abatement Order No. R6T-2016-PROP*, which outlined specific revisions to the proposed cleanup and abatement order and provided responses to comments received. Comments regarding the proposed revisions were received from the Dischargers and water purveyors.

19. On May 12, 2017, the Lahontan Water Board issued Cleanup and Abatement Order No. R6T-2017-0022 (2017 CAO) to the Dischargers. Seven Springs and Fox petitioned the 2017 CAO to the State Water Resources Control Board (State Water Board). The State Water Board provided letters dated August 7, 2017, which acknowledged the receipt of petitions and granted Seven Springs' request for its petition to be held in abeyance. On December 21, 2017, Seven Springs requested to have the abeyance removed and the petition for review activated. The State Water Board did not act on either petition and the petitions for Fox and Seven Springs were dismissed on September 11, 2017 and March 22, 2018, respectively.

20. Seven Springs and Fox subsequently challenged the 2017 CAO in El Dorado Superior Court on April 20, 2018.

21. On June 1, 2020, the El Dorado Superior Court vacated the 2017 CAO as to Fox and remanded to the Lahontan Water Board to consider, with respect to Fox, the criteria established for a former landowner/lessor in *United Artists Theatre Company, Inc. v. Regional Water Quality Control Board, San Francisco Region* (2019) 42 Cal.App.5th 851. The Staff Report included as Attachment A provides the analysis supporting identification of Fox as a Discharger.

22. In its December 10, 2020, Judgment, the El Dorado Superior Court granted in part and denied in part the Seven Springs petition for writ of mandate. The Court upheld identification of Seven Springs as a Discharger under WC section 13304. The Court found the 2017 CAO to be "properly limited to investigate, cleanup and abate the contamination on the property and originating from the site."

23. The Final Ruling (referenced in the Judgment) also found the portion of the 2017 CAO related to monitoring and technical reports was defective because cost and burden were not considered appropriately. The Court held that the Lahontan Water Board must set forth findings to bridge the analytical gap between the raw evidence and ultimate decision that the burden, including costs, of the technical reports bear a reasonable relationship to the need for the reports. Subsequently, the Court of Appeals issued the opinion in Sweeney v. California Regional Water Quality Control Board (2021) 61 Cal.App.5th 1, which upheld a different cleanup and abatement order containing a similar requirement for monitoring and technical reports, pursuant to WC

section 13267, that contained no costs, but merely a narrative explanation of the burden and benefits of the required reports.

24. Following issuance of the 2017 CAO to the Dischargers, Lahontan Water Board staff engaged in numerous meetings and draft document review and comment cycles with Fox, Seven Springs, and their consultants (EKI Water and Environment, Inc. [EKI] and PES Environmental, Inc. [PES]) to provide informal and formal CAO compliance guidance. The 2017 CAO required a work plan to define the lateral and vertical extent of discharges to groundwater originating from the Site utilizing a dynamic and iterative approach intended to streamline data collection.

25. In regular meetings with the Dischargers over the past four years, staff regularly 1) requested updates on the Dischargers' progress in determining the lateral and vertical extent of PCE discharges originating from the Site; 2) reminded the Dischargers that determining the lateral and vertical extent of PCE was a critical component of the 2017 CAO; and 3) informed the Dischargers that identification of other potential PCE sources that may be contributing to the regional PCE plume does not mean investigation objectives have been met.

26. Despite these regular communications, the Dischargers elected to focus on finding additional potential dischargers. The Dischargers have failed to delineate the lateral and vertical extent of COCs originating from the Site.

27. The Dischargers have continued to delay rather than expedite investigation activities to address CAO requirements. This has resulted in unacceptable schedules for data collection and evaluation of potential remedial options. This Order is necessary to establish clear, enforceable deadlines to complete necessary investigation, cleanup and abatement of discharges, and requirements to supply replacement water.

28. Due to Dischargers' continued (2003 to present day) failure to delineate the lateral and vertical extent of COCs originating from the Site, and significant impacts to receptors (i.e., drinking water supply wells), requiring immediate corrective actions, Lahontan Water Board staff pursued a grant from the State Water Board's Site Cleanup Subaccount Program (SCAP) in 2018 to address the critical need to take action to characterize the regional PCE plume and identify potential PCE sources. On March 4, 2019, the Lahontan Water Board received a $4,600,000 SCAP grant to investigate the regional PCE plume in the South Y Area (SCAP Regional PCE Plume Investigation). SCAP Regional PCE Plume Investigation activities were conducted during the 2019 and 2020 field seasons. Initial results provide 1) a general understanding of the lateral and vertical extent of the regional PCE plume, 2) an initial estimate of PCE concentrations and migration pathways within the regional PCE plume, 3) an initial evaluation of impaired, impacted and threatened receptors, 4) a confirmation that the regional PCE plume originates at the Site and extends without interruption from the Site to impaired receptors (i.e., the PCE contamination originating from the Site has migrated from the Site and has contributed to the regional PCE plume). This information supports the need for the actions required by this Order.

29. The obligations contained in this Order supersede and replace those contained in prior orders. However, the prior orders remain in effect for enforcement purposes; the Lahontan Water Board and/or the State Water Board may take enforcement actions (including, but not limited to, issuing administrative civil liability complaints) against dischargers who have not complied with directives contained in previously issued orders.

SITE INVESTIGATION HISTORY AND REMAINING DATA GAPS

30. Site investigations started in the South Y Area in 1989 after PCE was first reported in water supply wells. Since the initial discovery, multiple regional and site-specific investigations have been conducted by various parties to investigate and cleanup and abate its effects. Investigations prior to the 2017 CAO are not summarized here but are available to interested parties in Lahontan Water Board files or electronically on the public GeoTracker website. Additional investigations, including the SCAP Regional PCE Plume Investigation, and quarterly groundwater monitoring and remediation system status reporting, were also conducted after the adoption of 2017 CAO requirements. The following section provides a brief summary of these investigations and the 2015 indoor air investigations, relative to conclusions and data gaps. The Staff Report included as Attachment A provides additional information regarding the Site specific and regional PCE plume investigation history.

31. On-Site and off-Site (defined as any land both above and below the ground surface that is outside of the Site's property lines/boundaries, hereafter off-Site) preferential pathway investigation activities were conducted to evaluate the magnitude and extent of contaminant transport along preferential pathways (e.g., discharges that follow disturbed soils or conveyances such as a stormwater conveyance system or other subsurface utility corridors). The preferential pathway investigations indicate:

    a) On-Site waste discharge to the stormwater conveyance system based on the distribution and magnitude of PCE mass in soil vapor and groundwater near stormwater conveyance inlets (Figures 6 and 11) and the detections of PCE in soil within the stormwater conveyance system backfill (Figure 4).

    b) Off-Site contaminant transport via the stormwater conveyance system based on the stormwater conveyance system's configuration and the distribution and magnitude of PCE mass in soil vapor and groundwater near conveyance inlets and the discharge point into Tucker Basin (Figure 6 and 11).

    c) The evaluation of contaminant transport along the stormwater conveyance system remains incomplete. Additional investigation is necessary to evaluate the magnitude and extent of contamination within and downstream of Tucker Basin.

    d) On-Site discharges to the sanitary sewer are supported by the detections of PCE in soil vapor within utility backfill along the building's western perimeter (Figure 6) and in soil and groundwater beneath the building (Figures 3 and 14, respectively).

e) The evaluation of potential threat to human health posed by remaining contamination located beneath the Site building, including potential releases from the sanitary sewer, remains incomplete. The on-Site utility video assessment activities did not include inspection of the sanitary sewer pipelines beneath the former dry cleaner tenant space at the Site to identify potential defects. Additional sampling has not been identified or implemented below the building or adjacent to the off-Site sanitary sewer alignment backfill.

32. Groundwater data collected from the existing groundwater monitoring well network and from the additional investigations conducted following CAO issuance, including the State-funded SCAP Regional PCE Plume Investigation, indicates:

f) PCE concentrations in and downgradient of the pre-defined source area of the Site have significantly declined since operation of the AS/SVE remediation system commenced, but recent detections of PCE in on-Site and off-Site groundwater still exceed the United States Environmental Protection Agency (EPA) and California maximum contaminant level (MCL) and California EPA Office of Environmental Health Hazard Assessment Public Health Goals (PHG), which indicates residual mass remains a threat to human health (Figures 7 through 10 and 15).

g) PCE concentrations in on-Site and off-Site groundwater also exceed the San Francisco Bay Regional Water Quality Board Environmental Screening Level (ESL) for vapor intrusion which indicates a potential human health threat from the vapor intrusion to indoor air pathway (Figure 11).

h) Prior to and following on-Site remediation, COCs were detected in on-Site groundwater at concentrations that exceed MCLs and PHGs and at locations which indicate COCs from the Site migrated and continue to migrate, unabated, impairing the MUN beneficial use in the Lake Tahoe Hydrologic Unit (Figure 13).

i) PCE is found in groundwater in every downgradient step-out groundwater sample location advanced from the Site's property boundary to the regional PCE plume (Figures 8 through 10 and 16).

j) The SCAP Regional PCE Plume Investigation provided an initial estimate of the regional PCE plume's geometry and established that the Site is the most upgradient source of a contiguous PCE plume that extends, without interruption, north to the Tahoe Keys and to depths of approximately 200 feet bgs (Figures 8, 9, and 10). Although an estimate of the regional PCE plume's geometry was provided by these activities, additional investigation is still needed to delineate the extent of contamination in areas and depths where COC concentrations in groundwater remain above background levels and evaluate the impact and threat to human health and the environment.

k) Analytical results from multiple investigative studies and water system monitoring document that the regional PCE plume has impaired multiple municipal, small community, and private water supply wells (collectively referred to as water supply wells), and continues to impact and threaten the remaining active water supply wells in and adjacent to the regional PCE plume (Figure 13). Additional evaluation of the potential threat to human health, including potential mitigation measures (including replacement water and potential vapor intrusion), is needed.

l) The Dischargers' current and historical groundwater monitoring network is not sufficient to evaluate the lateral and vertical extent of COCs originating from the Site and/or adequate to evaluate the known and potential threats to water supply wells (Figure 2).

33. The Dischargers conducted a "self-directed" off-Site groundwater investigation in June and July 2017 to identify other potential PCE sources contributing to the regional PCE plume in the South Y Area. The investigation consisted of the collection of multi-depth groundwater samples at 19 locations within the South Y Area. PCE concentrations in groundwater were detected at 17 of the 19 locations; all locations were downgradient from the Site. No sources of PCE were identified upgradient from the Site (Figure 16).

34. Lahontan Water Board conducted an extensive investigation of other potential contributing discharges. On April 3, 2019, 223 WC section 13267 investigative orders were sent to potential responsible parties for 122 properties identified through records searches for businesses that may have used, stored, handled, or disposed of chlorinated solvents, within the estimated regional PCE plume area. The orders required a General Chemical Storage and Use Questionnaire, or a Dry Cleaner Specific Questionnaire be completed (questionnaires). Following the review of questionnaires received and historical Lahontan Water Board Site Cleanup Program case files, the Lahontan Water Board issued site-specific WC section 13267 investigative orders requiring suspected dischargers to investigate the extent of PCE contamination in soil, soil vapor, and groundwater. A source area inventory was developed to support SCAP Regional PCE Plume Investigation tasks and is currently being evaluated relative to the available groundwater data to identify other potential sources. These investigations and evaluation of potential additional PCE sources contributing to the regional PCE plume are ongoing and are not the subject of this CAO. Pursuant to State Water Board Resolution 92-49, the Lahontan Water Board will continue to make a reasonable effort to identify additional dischargers contributing to the regional PCE plume. It is not necessary to identify all dischargers prior to proceeding with requirements for investigation and clean up and abatement.

35. The current Lake Tahoe Laundry Works' conceptual Site model (CSM) is both incomplete and inaccurate, and must be updated. The current CSM does not comply with the requirements of Site investigations since 2003 and the 2017 CAO requirement to determine the lateral and vertical extent of discharges originating from the Site. In addition, the current CSM does not acknowledge (1) the extent of soil contamination above leaching to groundwater ESLs and soil contamination that has been in contact with seasonally shallow groundwater for decades, (2) the extent of potential contaminant migration that occurred prior to remedial implementation, (3) the extent, magnitude, geometry, and trends of the dissolved phase groundwater contamination, (4) on-Site discharges of PCE have contributed to the regional PCE plume , and (5)

the current impairments, impacts and threats currently posed to receptors by the contamination originating from the Site.

36. Since April 2010, soil vapor samples have been collected from the 10 on-Site shallow soil vapor probes, on an approximately quarterly basis, to evaluate the effectiveness of the on-Site AS/SVE remediation system operation. Despite the AS/SVE remediation system operation, recent on-Site PCE concentrations in soil vapor still exceed the vapor intrusion ESL (Figure 5). Additional investigations are required to delineate extent of contamination in soil vapor originating from the Site and evaluate the potential risk to human health due to vapor intrusion (i.e. to indoor air) from the remaining on-Site and off-Site source areas (e.g. Tucker Basin) and off-Site groundwater (i.e. portions of the regional PCE plume outside of the Site's property lines/boundaries).

37. In July and December 2015, indoor air assessments of select occupied tenant spaces within the South Y Shopping Center were conducted because on-Site shallow soil vapor concentrations of COCs exceeded the vapor intrusion ESL. Although the indoor air PCE concentrations detected did not exceed the ESL for indoor air, PCE was detected in each of the four tenant spaces sampled. The sampling demonstrated actual threats via the vapor intrusion pathway and the need to re-evaluate risk and potential mitigation measures.

38. Investigations conducted to date by the Discharger's consultants and others have not evaluated potential threats or impacts to surface water beneficial uses, including minor surface waters and minor wetlands, and ecological receptors. COC concentrations in soil and groundwater have been reported above ESLs for protection of terrestrial and aquatic habitats.

REMEDIAL ACTION SUMMARY

39. In April 2010, an AS/SVE system was installed to remediate chlorinated hydrocarbons in soil and shallow groundwater within the Dischargers' predefined "source zone area" at the Site (Figure 12). An estimated mass of approximately 982 pounds of VOCs have been removed by the AS/SVE system to date. Due to declining AS/SVE system performance and contamination identified outside of its radius of influence, the Dischargers must continue to evaluate other remedial options to enhance removal of the residual contaminant mass and to address ongoing off-Site COC migration in groundwater.

40. In September and October 2017, batch pumping events were performed to evaluate additional remedial options to remove on-Site PCE in groundwater. No additional batch pumping activities were performed because Lahontan Water Board staff expressed concerns that batch pumping activities could affect the results of an upcoming off-Site groundwater investigation (i.e., continued batch pumping could decrease PCE concentrations in off-Site groundwater and investigation results would not be representative). Post batch pumping groundwater monitoring revealed a significant reduction in PCE concentrations detected from shallow and middle zone

groundwater and demonstrated that this may be an effective remediation technology. Monitoring conducted during batch pumping provides additional lines of evidence to support hydraulic connection between the shallow and middle groundwater-bearing zones and the lack of an effective vertical barrier preventing contaminant transport between these zones.

41. In November 2019, an in-situ chemical oxidation pilot test (pilot test) was implemented to evaluate the feasibility of removing PCE remaining in the capillary fringe and shallow groundwater. Post pilot test groundwater monitoring indicate that in-situ chemical oxidation has significantly reduced VOC concentrations and is a potential remediation technology that can reduce PCE mass in shallow and middle zone groundwater.

42. The post pilot test groundwater monitoring also confirmed hydraulic connectivity between "shallow" and "middle" zones of the underlying aquifers. Visual and analytical monitoring results collected during the potassium permanganate injection pilot test refute a fundamental basis of the Dischargers' CSM, that a silt layer is purportedly preventing downward vertical migration of PCE and other COCs in groundwater.

43. Remedial actions were not implemented in an appropriate timeframe to effectively mitigate the lateral and vertical migration of PCE and other COCs migrating from the Site. Remedial actions were implemented approximately thirty years after the estimated discharge(s) of waste to the environment and were only designed to remediate on-Site soil above the water table and nearby underlying shallow groundwater. Prior to and following on-Site remediation, COCs have been detected in soil and groundwater at concentrations that exceed leaching to groundwater ESLs and MCLs, respectively, indicating ongoing threats to human health and the environment. Some of these areas are outside of the influence of current remediation activities, meaning that COCs continue to discharge and migrate, unabated, into groundwater, impairing the MUN beneficial use (Figure 13).

44. The installed AS/SVE system is not capable of remediating areas outside the pre-defined source zone area (Figure 12), including extensive areas of off-Site impacted groundwater which extend laterally beyond the boundaries of the Site and vertically at depths below the influence of the air sparge wells.

45. Additional remedial actions are necessary to clean up soil, soil vapor, and groundwater, control off-Site contaminant migration, and restore the MUN beneficial use of groundwater.

46. Water supply wells are currently impaired, impacted, or threatened by the regional PCE plume (Figures 13 and 17). None of the remediation conducted to date directly addresses these impacts. Treatment and/or replacement water is necessary for impaired water supply wells.

47. The bases of Dischargers' current CSM must be updated to acknowledge the permeability of the silt layer between the shallow and middle water-bearing zones and

further acknowledge the waste discharge and remedial action implementation timeframe and that the AS/SVE system has not eliminated off-Site contaminant migration and does not remediate the full extent of impacted soil, soil vapor and groundwater currently identified.

AUTHORITY – LEGAL REQUIREMENTS

48. WC section 13304, subdivision (a) provides that:

“(a) A person who has discharged or discharges waste into the waters of this state in violation of any waste discharge requirement or other order or prohibition issued by a regional board or the state board, or who has caused or permitted, causes or permits, or threatens to cause or permit any waste to be discharged or deposited where it is, or probably will be, discharged into the waters of the state and creates, or threatens to create, a condition of pollution or nuisance, shall upon order of the regional board, clean up the waste or abate the effects of the waste, or, in the case of threatened pollution or nuisance, take other necessary remedial action, including, but not limited to, overseeing cleanup and abatement efforts. A cleanup and abatement order issued by the state board or a regional board may require the provision of, or payment for, uninterrupted replacement water service, which may include wellhead treatment, to each affected public water supplier or private well owner. Upon failure of any person to comply with the cleanup or abatement order, the Attorney General, at the request of the board, shall petition the superior court for that county for the issuance of an injunction requiring the person to comply with the order. In the suit, the court shall have jurisdiction to grant a prohibitory or mandatory injunction, either preliminary or permanent, as the facts may warrant.”

49. WC section 13304, subdivision (c)(1) provides that:

“the person or persons who discharged the waste, discharges the waste, or threatened to cause or permit the discharge of the waste within the meaning of subdivision (a), are liable to that governmental agency to the extent of the reasonable costs actually incurred in cleaning up the waste, abating the effects of the waste, supervising cleanup or abatement activities, or taking other remedial actions.

50. WC section 13304, subdivision (f) requires that replacement water “shall meet all applicable federal, state, and local drinking water standards, and shall have comparable quality to that pumped by the public water system or private well owner” prior to the discharge of waste.

51. “Impaired wells” for the purposes of the initial interim emergency replacement water evaluation are considered to be water supply wells, as described in Finding 32f, in the “affected area” (see next finding) containing PCE or other COCs in concentrations that are above their respective MCL.

52. The "affected area" for the purposes of the initial interim emergency replacement water evaluation (Order 7bii) is considered to be the area impaired by contamination originating from the Site. The area to be evaluated for interim emergency replacement water is approximately bounded by Lake Tahoe Boulevard to the south, Venice Drive to the north, Glorene Avenue to the southwest, West Way to the west, and the South Upper Truckee River to the east. These boundaries shall be revised based on future data collection and evaluation.

53. The Lahontan Water Board acknowledges that providing bottled water to residences or businesses currently served by affected wells would, on its face, satisfy the requirement for uninterrupted replacement water service, specifically since the beneficial use affected is water for consumptive purpose and bottled water could meet this need. However, environmental justice requires that bottled water not be the permanent solution. Long-term replacement water likely consists of replacing the source water, thereby allowing community members total and unrestricted use of all household taps for consumptive use. Relying on long-term use of bottled water for all consumptive uses for residences that previously had the ability to consume water from any household tap interferes with the free use of their property and deprives those persons of prior quality of life expectations. Where the Discharger's actions require replacement water service, it is appropriate to require that not only the quality, but also the long-term replacement water service, be comparable to that which it was prior to the adverse effect to the water supply, even if bottled water must be the source of replacement water service on an interim basis. The fact that replacement water service will likely be in place for many years increases the necessity that there be a requirement in this Order for long-term replacement water service that enables the residents of the community to use their household taps.

54. WC section 13267, subdivision (b)(1) provides that:

    "In conducting an investigation . . ., the regional board may require that any person who has discharged, discharges, or is suspected of having discharged or, discharging, or who proposes to discharge waste within its region . . .shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefits to be obtained from the reports. In requiring those reports, the regional board shall provide the person with a written explanation with regard to the need for the reports, and shall identify the evidence that supports requiring that person to provide the reports."

55. This Order requires investigation and submittal of work plans and reports (collectively referred to as reports) as well as ongoing monitoring and other tasks required pursuant to WC section 13267. The burden, including costs, of these reports bears a reasonable relationship to the need for the reports and the benefits to be obtained from the reports. Specifically, the reports are needed in order to adequately delineate the extent and amount of waste discharged, assess the threat of continuing discharge and to facilitate compliance with implementing cleanup and abatement activities required by this Order, with the ultimate goal of restoring water quality and protecting

beneficial uses, including the drinking water supplies of the entire community of South Lake Tahoe. The record contains extensive evidence of the benefits to be obtained, including protecting an entire community from PCE, which is a classified by the EPA as a likely carcinogen to humans. Public health threats are not only in the form of impacts to drinking water supplies (which may be treated at the wellhead), but also include the potential for PCE vapors to volatilize up from the water table, potentially impacting the indoor air of residences and businesses overlying the plume. PCE vapors are not typically noticed (unlike a gas leak, for example), meaning that a person may inhale vapors for years without having any indication. The benefits to be obtained from the requirements for investigation include ensuring the protection of human health of local residents whose businesses and homes overlie the plume.

56. Additional benefits to be obtained include protection of the community's drinking water, both immediately and from threatened impacts that could occur in the future. The Staff Report (Section VII) describes the significant impacts already occurring on the South Lake Tahoe community water supply wells. Multiple water supply wells are currently impaired, impacted, or threatened by the regional PCE plume. For some water supply wells additional evaluation of the potential threat to human health is necessary, and required by the Order, while other certain water supply wells will require ongoing monitoring of known impacts to ensure people in the community are not adversely impacted.

57. Water supply wells in the South Y Area have been taken off-line (i.e., disconnected from the water distribution system), destroyed, or require wellhead treatment to remove PCE from groundwater prior to distribution while many others remain threatened by the regional PCE plume. Figures 13 and 17 display a recent snapshot of the approximate lateral extent of the regional PCE plume and locations of the impaired, impacted, and threatened supply wells in the South Y Area as of September 2020.

58. Municipal supply wells spanning three water districts have been impaired (PCE concentration detected above the MCL), impacted (PCE concentration detected below the MCL), or threatened (PCE has not been detected above the reporting limit but may be come impacted or impaired in the future due to regional PCE plume migration) by the regional PCE plume. The three affected water districts include the South Tahoe Public Utility District, Lukins Brothers Water Company and Tahoe Keys Water Company. These three water districts serve approximately 40,000 residents and hundreds of commercial properties. These three water districts provide 97 percent of the South Lake Tahoe's community. With the increased threat and severity of catastrophic wildfires in California, the ability of the community to rely upon these water resources is even more critical.

59. Based upon actual costs incurred during the SCAP Regional PCE Plume Investigation, cost estimates provided in the Proposition 1 granted-funded work for regional PCE plume related work, and various State Water Board cost estimation guidance documents and spreadsheets, the estimated costs of complying with the investigation and reporting requirements are in the range of approximately $6,600,000

to $11,100,000. Many of these costs are controllable and may be reduced significantly with aggressive and prompt remediation efforts. As an example, many extensive solvent plume cases have been resolved with high resolution investigation and remediation, reducing high concentration solvent plumes down to MCLs within a span of three to five years. That type of remedial effort would significantly reduce estimated long-term monitoring costs. Lahontan Water Board's cost estimate (see Attachment B) primarily focused on the professional services and related contractor costs for the preparation and submittal of technical and monitoring reports required for compliance with this Order under WC section 13267. This estimate is subject to uncertainty based on unanticipated changes in the scope of work, unanticipated changes in field conditions, unanticipated work required by other regulatory agencies, unanticipated changes due to adverse weather, and geographical variations in professional services costs and contractor costs. Tasks and details in the cost estimate (Attachment B) are not being provided as a directive and are not part of the requirements of this Order (see "Required Actions" section). Rather, Attachment B is provided merely to help the Dischargers understand Lahontan Water Board's consideration of the burden and costs associated with the investigation and reporting requirements. The cost of these reports is reasonable in relation to the need for the reports and the benefits to be obtained. The technical reports required by this Order are necessary to assure compliance with WC section 13304 and State Water Board Resolution No. 92-49, including to adequately investigate and cleanup the Site to protect the beneficial uses of waters of the state, to protect against nuisance, and to protect human health and the environment.

60. The State Water Board has adopted Resolution No. 92-49, the Policies and Procedures for Investigation and Cleanup and Abatement of Discharges Under WC section 13304 (Resolution 92-49). This Policy sets forth the policies and procedures to be used during an investigation or cleanup of a polluted site and requires that cleanup levels be consistent with State Water Board Resolution 68-16, the Statement of Policy With Respect to Maintaining High Quality of Waters in California (Resolution 68-16). Resolution 92-49 and the Water Quality Control Plan for the Lahontan Region (Basin Plan) establish the cleanup levels to be achieved. Resolution 92-49 requires the waste to be cleaned up to background, or if that is not feasible, to an alternative level that is the most stringent level that is economically and technologically feasible in accordance with California Code of Regulations, title 23, section 2550.4. The Lahontan Water Board's Basin Plan, which was initially adopted on March 31, 1995, and amended from time-to-time, identifies beneficial uses and establishes water quality objectives to protect beneficial uses. The Site lies within the Tahoe South Subbasin of the Tahoe Valley Groundwater Basin (TVS Basin) of the Lake Tahoe Hydrologic Unit. As set forth in the Basin Plan, the designated beneficial uses for groundwater in the Lake Tahoe Hydrologic Unit include MUN, agricultural supply (AGR), and industrial service supply (IND). Water quality objectives to protect the beneficial use of MUN that apply to the groundwater at the Site include the "Chemical Constituents and Radioactivity", which incorporates by reference state maximum contaminant levels set forth in Title 22 of the California Code of Regulations. The MCLs for PCE and TCE is 5 µg/L, and cis-1,2 DCE is 6 µg/L. As discussed in the

Findings of this Order, the concentrations of PCE, TCE, and cis-1,2 DCE in groundwater at and downgradient of the Site exceed the water quality objectives applicable to the wastes.

61. Regionwide Prohibitions in Section 4.1 of the Basin Plan include:

    a) The discharge of waste that causes violation of any narrative or numeric water quality objective contained in this Plan is prohibited.

    b) Where any numeric or narrative water quality objective contained in this Plan is already being violated, the discharge of waste that causes further degradation or pollution is prohibited.

    c) The discharge of waste that could affect the quality of waters of the state that is not authorized by the State or Regional Water Board is prohibited.

62. Unit/Area Prohibitions for the Lake Tahoe Hydrologic Unit in Section 5.2 of the Basin Plan include a prohibition of the discharge attributable to human activities of any waste or deleterious material to surface waters of the Lake Tahoe Hydrologic Unit.

63. The designated beneficial uses of minor surface waters and minor wetlands for the South Tahoe Hydrologic Unit are MUN, AGR, GWR, REC1, REC2, COMM, COLD, WILD, and SPWN. Water quality objectives to protect these beneficial uses include narrative and numerical water quality objectives in the Basin Plan. As set forth in Finding 32, the discharges of waste at the Site exceed the water quality objectives applicable to the wastes.

64. The exceedance of applicable narrative or numeric water quality objectives in the Basin Plan constitutes contamination, pollution and nuisance as defined in WC section 13050.

65. The threat of vapor intrusion into buildings at and near the Site has caused or threatens to cause nuisance as defined in WC section 13050, subdivision (m). In particular, the threat of vapor intrusion is potentially injurious to health, indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property; affects at the same time an entire community; occurs during or as a result of the treatment or disposal of waste.

66. The Lahontan Water Board may require the Dischargers to submit a Public Participation Plan or engage in other activities to disseminate information and gather community input regarding the Site, as authorized or required by WC sections 13307.1, 13307.5 and 13307.6.

67. This Order requires investigation and cleanup in compliance with the WC, the applicable Basin Plan, State Water Board Resolutions 92-49 and 68-16, and other applicable plans, policies, and regulations. All Dischargers are responsible for complying with each and every requirement, unless otherwise specifically noted.

DISCHARGER LIABILITY

68. The COCs and other potential waste constituents discharged at the Site constitute "waste," as defined in WC section 13050, subdivision (d). The ongoing migration of these wastes is a "discharge." Dischargers have thus permitted, caused or permitted, and/or threaten to cause or permit waste to be discharged where it has and probably will be discharged into the waters of the state and have created and/or threaten to create a condition of pollution and nuisance.

69. Dischargers are liable for public nuisance because they created and/or contributed to the creation of groundwater contamination that has impaired the MUN beneficial use. Despite knowing of significant contamination Dischargers have failed to delineate the lateral and vertical extent of the regional PCE plume, as required by Lahontan Water Board orders over a period of several years, or remediate known contamination that continues to migrate, unabated.

Seven Springs Limited Partnership

70. The El Dorado Superior Court upheld naming Seven Springs as a Discharger. Seven Springs is the current owner of the property, indisputably knows of the ongoing discharge of waste and has the legal ability to control it.

Connolly Development, Inc.

71. The coin operated DCU used PCE as a cleaning solvent and was present at the Site from 1972 to about 1979/1980. During this time there were two prior landowners, Connolly Development, Inc. and Century Properties Equity Fund 73. Connolly Development, Inc., formed in 1966, purchased the property to develop the Site. Connolly Development, Inc. owned the Site starting around 1972 and up until it sold the Site in September 1974 to Century Properties Equity Fund 73. Century Properties Equity Fund 73 then leased the Site in September 1974, including a lease back to Connolly Development Inc. for at least one year, and later sold it on December 19, 1985.

72. Connolly Development Inc. is named as Discharger because of their ownership and lease of the property, and knowledge of the coin operated DCU at the Site during their ownership and lease. As owner of the property, Connolly Development had knowledge of and control over the activities occurring at the Site that caused the discharge, which include the re-filling of the drum that contained the solvents, and the legal ability to prevent the discharge. As the owner of the Site, Connolly Development had control over leasing out retail space, managing and maintaining common areas such as sidewalks, parking areas and delivery areas. Connolly Development was identified as a Discharger in the 2017 CAO and did not contest liability.

Century Properties Equity Fund 73

73. Century Properties Equity Fund 73 (Century 73), a Limited Partnership, was also the owner of the Site at the time the self-service, coin-operated, dry cleaning machine existed in the laundromat at the Site. Like Connolly Development, as the owner of the Site, Century 73 had knowledge of and control over the activities occurring at the Site that caused the discharge and had the legal ability to prevent the discharge. Even if the discharge occurred during the time that Connolly Development owner the property, under established Water Board precedent, Century 73 would be considered to have been in possession during the time of the discharge because “the discharge continues as long as pollutants are being emitted at the site.” (SWRCB WQ Order 89-8, p. 14.)

74. Century 73 was identified as a Discharger in the 2017 CAO and did not contest liability.

Fox Capital Management Corporation

75. Fox Capital Management Corporation was the general partner of Century 73 and subsequently changed its name to Fox Capital Management Corporation in or around 1986. As Century 73’s general partner, it is liable for all obligations of the limited partnership, including the environmental contamination from the operation of the partnership. As a general partner, Fox Capital Management Corporation, formerly Fox & Carskadon Financial Corporation, also had knowledge of and control over the activities occurring at the Site that caused the discharge. The evidence establishes that Fox knew or should have known of the general activity that created a reasonable possibility of discharge into waters of the state that could create or threaten to create a condition of pollution or nuisance.

Bobby Pages, Inc.

76. This Order also names Bobby Pages, Inc., who operated the DCU at the Site and subleased the Site to other dry cleaner operators during the relevant period (1972 through 1979/1980) the DCU was present at the Site. Bobby Pages, Inc., was identified as a Discharger in the prior Cleanup and Abatement Order and did not contest liability.

77. The Lahontan Water Board will consider whether additional dischargers caused or permitted the discharge of waste at the Site and whether additional dischargers should be added to this Order. The Lahontan Water Board may amend this Order or issue a separate order or orders in the future as more information becomes available. The Lahontan Water Board is issuing this Order to avoid further delay of Site remediation and provision of replacement water.

OTHER CONSIDERATIONS

78. Issuance of this Order is being taken for the protection of the environment in accordance with the California Environmental Quality Act (CEQA) (Public Resources Code § 21000 et seq.). This Order requires the Dischargers to submit plans for approval prior to implementation of cleanup activities at the Site. Submittal of plans is exempt from CEQA as it will not cause a direct or indirect physical change in the environment and/or is an activity that cannot possibly have a significant effect on the environment. (Cal. Code Regs., tit. 14, § 15061, subd. (b)(3).) CEQA review of potential future plans would be premature and speculative at this time, as there is not enough information concerning the Dischargers' proposed remedial activities and possible associated environmental impacts. If the Lahontan Water Board determines that implementation of any future proposed plan required by this Order will have a significant effect on the environment, the Lahontan Water Board will conduct the necessary and appropriate environmental review prior to Executive Officer's approval of the applicable plan. Many activities, including groundwater and soil vapor sampling, well installation and some forms of remediation are ministerial projects exempt from CEQA. (Cal. Code Regs., tit. 14, § 15268.) The Lahontan Water Board has already reviewed past and existing efforts to conduct AS/SVE, groundwater batch pumping and in situ chemical oxidation prior to implementation and determined these activities do not have a significant effect on the environment. (Cal. Code Regs., tit. 14, § 15061, subd. (b)(3).)

79. Pursuant to WC section 13304, the Lahontan Water Board may seek reimbursement for all reasonable costs to oversee cleanup of such waste, abatement of the effects thereof, or other remedial action.

80. It is the policy of the State of California that every human being has the right to safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes (WC section106.3.). This Order promotes that policy by requiring the Discharger(s) to clean up the groundwater to ensure protection of drinking water and provide replacement water.

81. The Lahontan Water Board has adopted State Water Board Resolution No. 2017-0012 Comprehensive Response to Climate Change (Comprehensive Response to Climate Change). This Order promotes the Comprehensive Response to Climate Change and implementation of the Sustainable Groundwater Management Act to help protect groundwater resources against drought and climate change to ensure the community of South Lake Tahoe has access to safe, accessible, and affordable drinking water.

82. Any person aggrieved by this action of the Lahontan Water Board may petition the State Water Board to review the action in accordance with WC section 13320 and title 23, California Code of Regulations, sections 2050 and following. The State Water Board must receive the petition by 5:00 p.m., 30 days after the date of this Order, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by

5:00 p.m. on the next business day. Filing a petition does not stay operative deadlines and requirements. Copies of the law and regulations applicable to filing petitions will be provided upon request or may be found on the Internet at: http://www.waterboards.ca.gov/public_notices/petitions/water_quality

REQUIRED ACTIONS

THEREFORE, IT IS HEREBY ORDERED, pursuant to WC sections 13304 and 13267 that the Dischargers shall investigate, cleanup the waste and abate the effects of waste forthwith discharging at and from **1024 Lake Tahoe Boulevard, South Lake Tahoe, California, including the extent of the regional PCE plume**. "Forthwith" means as soon as reasonably possible, but in any event no later than the compliance dates in Attachment C, Time Schedule. More specifically, the Dischargers shall:

1) **Develop and Submit a CSM**

The CSM shall be based upon the data collected by the Dischargers as well as other data sources (e.g., data collected during SCAP Regional PCE Plume Investigation as well as data collected by others within and adjacent to the regional PCE plume). The CSM shall be prepared in accordance with the most recent available USEPA and DTSC guidance[4].

Currently available information indicates that assessment, characterization and delineation of waste constituents is incomplete, and the preparation and submittal of work plans to complete assessment and characterization of COCs in soil, soil vapor, and groundwater and to fully delineate the vertical and lateral extent of waste in soil, soil vapor, and groundwater (on-Site and off-Site) is still needed. The bases for the additional work shall be described in the CSM and proposed in the work plans as set forth in Orders 2 through 5 below. The CSM and all future CSM updates shall:

a. Provide a written presentation with graphic illustrations of nature and extent of COCs in soil, soil vapor, and groundwater originating from the Site contributing to the regional PCE plume and potential and known impacts of contamination to human and ecological receptors.

b. Include a description of discharge scenario(s), regional PCE plume geology and hydrogeology, on-Site and off-Site preferential pathways (e.g., stormwater conveyance system, sanitary sewer, other subsurface utilities), potential vertical conduits (e.g. water supply wells and monitoring wells), distribution of wastes in soil, soil vapor, and groundwater, exposure pathways associated with the regional PCE plume, sensitive receptors (i.e., schools, day cares, nursing homes, etc.) and water supply wells.

c. Acknowledge 1) off-Site migration of PCE contamination has occurred in the past, and is still occurring, 2) the regional PCE plume originates at the Site and continues

[4] DTSC's June 2012 *Guidelines for Planning and Implementing Groundwater Characterization of Contaminated Sites*

without interruption to the Tahoe Keys (and potentially beyond), 3) the regional PCE plume has impaired the MUN beneficial use of groundwater, 4) PCE contaminant transport from the Site has occurred since the initial release that occurred over 40 years ago and is still occurring despite the operation of the AS/SVE system since 2010, 5) the AS/SVE system does not remediate the full extent of soil, soil vapor and groundwater contamination currently identified on-Site which has resulted in the discharge of PCE off-Site, 6) an effective lithologic barrier to inhibit downward migration of PCE contamination in groundwater does not exist at the Site and there is a hydraulic connection between shallow and middle water bearing zones, and 7) the Site meets all of the Dischargers' PCE source criteria defined and is a PCE source contributing to the regional PCE plume.

d. Identify data gaps to be addressed in the Site Investigation Work Plan(s).

e. The CSM and routine CSM updates (as new data becomes available) acceptable to the Executive Officer shall be submitted in conformance with the requirements detailed in Attachment C, Time Schedule.

2) **Prepare and Submit a Sampling and Analysis Plan and Quality Assurance Project Plan**

a. Prepare and submit a comprehensive Sampling and Analysis Plan (SAP), documenting the procedural and analytical requirements for sampling soil, soil vapor, surface water (if applicable), subsurface utility backfill (e.g., stormwater and sanitary sewer conveyance system backfill) and groundwater. The SAP will be utilized for all phases of investigation, monitoring, and remediation system performance monitoring.

b. Prepare and submit a comprehensive Quality Assurance Project Plan (QAPP) describing the quality assurance procedures, quality control activities, and technical activities that will be implemented to ensure data quality objectives are met.

c. Update the SAP and QAPP as necessary to accommodate applicable regulatory changes, sampling method changes, analytical test method changes, and scope of work changes.

d. A SAP and QAPP, acceptable to the Executive Officer, shall be submitted in conformance with the requirements detailed in Attachment C, Time Schedule.

3) **Develop, Submit, and Implement Site Investigation Work Plan(s)**

The Site Investigation Work Plan(s) (SIWP) shall propose investigation activities to update on-Site and off-Site information with the data required to define the full lateral and vertical extent of the discharge and evaluate potential threats to human health and ecological receptors. The data collected will be used to support development of the Monitoring Well Installation Work Plan (Order 4), Vapor Intrusion Work Plan (Order 5), Human Health and Ecological Risk Assessment (Order 6), and recommendations for appropriate interim (Order 7d) and final (Order 7e) remedial actions to cleanup and abate contamination, including replacement water (Orders 7b and 7c). The SIWP shall:

a. Fully assess the lateral and vertical extent of wastes in soil, soil vapor, and groundwater to support evaluation of the potential threat from each media through each relevant exposure pathway for all identified COCs originating from the Site. “Fully assess” means the Dischargers must perform step-out sampling, both laterally and vertically, until soil and soil vapor concentrations are defined to the applicable ESLs (i.e., direct exposure, vapor intrusion, terrestrial habitat, leaching to groundwater) and groundwater concentrations of COCs are defined to 0.5 µg/L (i.e., the reporting limit for each COC; the method detection limit will be utilized as the practical limitation for defining natural background concentrations). If investigation data are being collected to support the Human Health and Ecological Risk Assessment, applicable health and ecological-based screening levels shall be considered when developing data quality objectives for the SIWP.

b. Fully assess the extent of discharges along preferential pathways (e.g., stormwater conveyance system [including Tucker Basin and other stormwater retention/infiltration basins in the system], sanitary sewer, other subsurface utilities) within the regional PCE plume to support evaluation of the potential threats to human health.

c. Fully assess the migration of discharges along vertical conduits (e.g., water supply wells and monitoring wells) within the regional PCE plume to support evaluation of the potential threats to human health.

d. Fully assess COC-impacted soil, soil vapor, and groundwater to support evaluation of the potential threats to sensitive receptors (i.e., schools, day care facilities, nursing homes, etc.).

e. Fully assess COC-affected soil, soil vapor, surface water (e.g., stormwater conveyance system infiltration/detention basins), and groundwater to support evaluation of the potential threats to ecological receptors.

f. Provide an implementation schedule for delineation activities described above. Step-out sampling shall proceed without significant interruption. Any failure to continue conducting sampling for a period exceeding ten business days is a significant interruption. If a significant interruption is anticipated or occurs, Dischargers shall notify the Lahontan Water Board (i.e., case manager) immediately with an explanation of the cause of the delay and steps the Dischargers will take to resolve it. Notification does not excuse noncompliance. Exceptions will be considered for interruptions related to circumstances beyond the Dischargers’ control, such as unanticipated supplemental work plan review and approval process time, contractor availability, short-term adverse weather disruptions, and long-term adverse weather disruptions (i.e., the Basin Plan's Tahoe Basin annual soil disturbance prohibition period extending from October 15 to May 1).

g. The Dischargers' investigation strategy shall not stop based upon an alleged contribution from another site (e.g., the evaluation of the stormwater conveyance system on the Former Big O Tire site to Tucker Basin).

h. Concurrent and phased on-Site and off-Site investigations are warranted due to the previous protracted investigations, and completion of the full Site characterization may require multiple submittals of SIWP for review and approval.

i. A SIWP, acceptable to the Executive Officer, shall be submitted in conformance with the deadline detailed in Attachment C, Time Schedule.

j. Scheduling, implementation, completion, and reporting of all Site investigation related activities required in this Order shall be conducted in conformance with the requirements detailed in Attachment C, Time Schedule and Attachment D, Technical Report Requirements.

4) **Develop, Submit, and Implement a Monitoring Well Installation Work Plan(s)**

The Monitoring Well Installation Work Plan(s) (MWIWP) shall propose a monitoring well network and program that is appropriate to 1) evaluate migration of COC-impacted groundwater, 2) evaluate regional PCE plume behavior at the plume boundaries, 3) evaluate COC trends in groundwater within the regional PCE plume, 4) evaluate COC trends within the estimated capture zones of water supply wells, 5) provide early detection capabilities (sentry wells or other equivalent mechanism) for impacted and threatened water supply wells, and 6) aid in evaluating interim and final remedial actions. The MWIWP shall:

a. Fully evaluate available groundwater and lithological data generated from the SIWP(s), Discharger's investigations, the SCAP Regional PCE Plume Investigation, and work conducted by others within the regional PCE plume to support well location and design rationale.

b. Identify specific data quality objectives and rationale for each well to be utilized in the monitoring well network and incorporated into the groundwater monitoring and reporting program. At a minimum, the well name, well/property owner, well location description, well installation method(s), well construction details (i.e., diameter and material, total depth, annular seal depths, filter pack interval, and screen interval), rationale, and sampling frequency shall be provided.

c. Provide copies of access agreements and/or written permission to install/utilize existing wells on properties owned by others, encroachment permits, and El Dorado County Department of Public Health drilling/well installation permits.

d. Provide an implementation schedule for installing any monitoring wells to be utilized in the monitoring well network within the MWIWP.

e. A MWIWP, acceptable to the Executive Officer, shall be submitted in conformance with the deadlines in Attachment C, Time Schedule.

f. Scheduling, implementation, completion, and reporting of all site assessment related activities required in this Order shall be conducted in conformance with the requirements detailed in Attachment C, Time Schedule and Attachment D, Technical Report Requirements.

5) **Develop, Submit, and Implement a Vapor Intrusion Investigation Work Plan**

The Vapor Intrusion Investigation Work Plan (VIIWP) shall evaluate current concentrations of waste constituents in on-Site and off-Site soil vapor and propose an investigation in accordance with the most current indoor air sampling and mitigation guidance[5] to investigate areas with identified potential vapor intrusion threats (e.g., tenant spaces within the existing on-Site building). The VIIWP shall:

a. Implement an investigation to evaluate the risk posed to human health through the vapor intrusion to indoor air pathway from soil vapor (including vapors from VOC-affected groundwater) and consider the transport of COC-affected soil vapor and groundwater along preferential pathways (e.g., stormwater conveyance system, sanitary sewer, other subsurface utilities and their backfills). The investigation shall evaluate both on-Site and off-Site locations and consider temporal and seasonal variability.

b. Describe soil vapor probe installation and sampling methods for collection of sub-slab soil vapor samples.

c. Describe indoor air and ambient air sample collection methods.

d. Estimate the incremental and cumulative cancer risk and non-cancer hazard indices and include calculations, explanatory text interpreting and qualifying the results in Report(s).

e. Collect and evaluate indoor air data in accordance with the DTSC HERO HHRA Note 5, which identifies the EPA Region 9 Interim Indoor Air Response Action Levels for indoor air concentrations of TCE under differing exposure scenarios and determine if a Proposition 65 notice is required.

f. Identify and recommend soil vapor sampling points or wells and the associated sampling frequency to be used for any long-term soil vapor monitoring.

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[5] *Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air* (DTSC, CalEPA, October 2011) and *Advisory-Active Soil Gas Investigations* (CalEPA, July 2015

g. Provide an implementation schedule within the VIIWP.

h. A VIIWP acceptable to the Executive Officer shall be submitted in conformance with the requirements detailed in Attachment C, Time Schedule.

i. Scheduling, implementation, completion, and reporting of all site assessment related activities required in this Order shall be conducted in conformance with the requirements detailed in Attachment C, Time Schedule and Attachment D, Technical Report Requirements.

6) **Prepare and Submit a Human Health and Ecological Risk Assessment**

Prepare and submit a human health risk assessment (HHRA) and, if applicable, an ecological risk assessment, considering all waste constituents in soil, soil vapor, surface water, and groundwater, all exposure pathways and sensitive receptors and applying existing regulatory human health and ecological screening levels and/or acceptable risk assessment models in accordance with current guidance. The HHERA shall, at a minimum:

a. Evaluate the potential risk COCs pose to the complete exposure pathways for soil and groundwater (i.e., ingestion, dermal exposure, inhalation and ecological exposure).

b. Evaluate the potential risk COCs pose to the vapor intrusion to indoor air pathway for soil vapor and groundwater, including potential short-term exposure to TCE.

c. Compare available soil, soil vapor, surface water, and groundwater COC concentrations to soil, soil vapor, and groundwater ESLs and MCLs to evaluate the potential and known threats the remaining contamination poses to human health and ecological receptors.

d. Complete a screening level evaluation or a Site-specific risk assessment. If Dischargers complete a Site-specific risk assessment, exposure levels selected must be relevant for exposure pathways and receptors for the Site and shall be acceptable to the Executive Officer and may be reviewed by the California Office of Environmental Health Hazard Assessment (OEHHA). Acceptable exposure levels for Site COCs shall be considered when developing remedial alternatives.

e. The HHERA shall conform with the most current guidance documents[6], and be acceptable to the Executive Officer.

[6] Preliminary Endangerment Assessment Guidance Manual (DTSC, Revised October 2015), Supplemental Vapor Intrusion Guidance, DTSC HERO HHRA Note 5, Vapor Intrusion Mitigation Advisory (DTSC. 2011b), San Francisco Bay Regional Water Board Vapor Intrusion Framework (SF Bay Water Board, 2014), and Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air (USEPA, 2015)

f. A HHERA, acceptable to the Executive Officer, shall be submitted in conformance with the deadlines in Attachment C, Time Schedule.

g. Scheduling, implementation, completion, and reporting of all HHERA (if applicable) related activities required in this Order shall be acceptable to the Executive Officer and conducted in conformance with the requirements detailed in Attachment C, Time Schedule.

7) **Conduct Remedial Action**

Develop and implement a cleanup and abatement program for the cleanup of wastes in the soil, soil vapor, surface water, and groundwater and the abatement of the effects of the discharges of waste on beneficial uses of water, human health, and the environment. Remedial actions shall include, at a minimum:

a. **Current Corrective Actions**

i) The Dischargers shall continue to operate the existing AS/SVE system at the Site until alternate and/or additional remedial methods are implemented or otherwise accepted.

b. **Develop, Submit, and Implement Interim Emergency Water Replacement Plan**

i) For all impaired wells within the affected area (see Findings 51 and 52) that are owned or operated by municipal water supply entities, provide a report to the Lahontan Water Board that is acceptable to the Executive Officer describing how the Dischargers intend to provide (or pay for) interim replacement water to each affected municipal supply entity until the permanent water supply plan is proposed and implemented. If interim replacement water is selected rather than payment, the report shall address the following: source(s) of the replacement water, available information on the variability of the quality of the supply water, supply chain management considerations, proposed testing frequency based on any variability information and supply chain management plans, and a contingency plan.

ii) For all impaired wells within the affected area (see Findings 51 and 52) that are owned or operated by municipal water supply entities, provide (or pay for) interim emergency uninterrupted replacement water service and/or treatment.

iii) For all non-municipal water supply wells within the affected area determine whether wells are impaired.

iv) For all non-municipal water supply wells that are impaired, provide interim emergency uninterrupted replacement water service and/or treatment.

v) The requirement to provide interim emergency water supply will be suspended once the Discharger provides an acceptable permanent replacement water supply or treatment option as described in Order 7c.

vi) Provide a report to the Lahontan Water Board listing all wells that have been provided interim emergency uninterrupted water service. The report must include addresses and unique well identification numbers. The report must list the bottled water service being used or describe the treatment implemented and the water volume being provided or describe the alternative water supply option being implemented. The report must include documentation to show that interim water supply meets state primary and secondary drinking water standards. If interim water supply is denied by a property owner or occupant, the report shall include proof or evidence of such refusal.

vii) Provide a report to the Lahontan Water Board prior to changing any aspect of the method for providing interim replacement water service. However, in the case where the Discharger must change its method due to unplanned or unanticipated quality issues or availability, the Discharger may change its method without first notifying the Water Board if needed to maintain compliance with this Order.

viii) Scheduling, implementation, completion, and reporting of all Interim Emergency Water Replacement related activities required in this Order shall be acceptable to the Executive Officer and conducted in conformance with the requirements detailed in Attachment C, Time Schedule.

c. **Develop, Submit, and Implement Permanent Water Replacement Plan**

i) Develop a comprehensive Permanent Water Replacement Plan (PWRP), acceptable to the Executive Officer, to provide long term uninterrupted wellhead treatment and/or replacement water service (provision of or payment for) to each affected water districts or non-municipal well owner within the "affected area" described in Finding 51, including those removed from service and/or destroyed due to PCE impairment (i.e. lost and/or reduced well yield shall be replaced/restored). Any replacement water shall, at a minimum, meet all applicable federal, state, and local drinking water standards (e.g. MCLs or any other another relevant regulatory standards in the Basin Plan) and shall have comparable quality to that pumped by the public water system or non-municipal water supply well owner prior to the discharge of waste. "Uninterrupted replacement water service" means that water shall be supplied continuously to meet human water consumption needs (including drinking and cooking) with no break in water availability longer than two hours.

The PWRP shall also evaluate the threat the regional PCE plume poses to water supply wells that may become impaired in the future and contain a contingency plan to immediately provide uninterrupted replacement water service, should those wells become affected. The PWRP shall include, at a minimum:

(1) Figures, tables, and narrative identifying and assessing supply wells affected by or threatened by the regional PCE plume.

(2) A summary of the impaired, impacted, and threatened supply well names, property/well owner, well location description, well installation method(s), well construction details (i.e., diameter and material, total depth, annular seal depths, filter pack interval, and screen interval) and most recent sampling data.

(3) A description of initial assessment sampling activities that have been, or will be, implemented in conformance with the SAP at each impaired, impacted, and threatened supply well to evaluate human health risk and impacts to beneficial use of groundwater.

(4) An evaluation of at least three different methods to provide replacement water to impaired water supply well owners including the “pay for option” to provide long term replacement water. The evaluation shall include the following, at a minimum:

(a) Discussion of the feasibility and timing to implement each method including the need and timing for permits, approvals, and environmental analysis.

(b) Comparison of the quantity of water that can be provided by each method relative to the specific water supply well need (e.g., typical domestic household supply need).

(c) An analysis of byproducts or wastes that may be generated by each method including disposal options and costs.

(d) A water quality monitoring and reporting plan to verify quality and performance of the implemented replacement supply or wellhead treatment.

(e) A communication plan to document discussion and consent for implementation of the replacement water supply or wellhead treatment from the public water suppliers and private well owners with affected wells.

ii) A PWRP, acceptable to the Executive Officer, shall be submitted in conformance with the deadlines in Attachment C, Time Schedule.

iii) Scheduling, implementation, completion, and reporting of all PWRP related activities required in this Order shall be conducted in conformance with the requirements detailed in Attachment C, Time Schedule.

d. **Interim Remedial Action Plan**

i) Submit an initial and comprehensive Interim Remedial Action Plan (IRAP), consistent with State Water Board Resolution No. 92-49, to evaluate interim remedial action alternatives where COCs exceed screening levels for protection of human health and the environment. The IRAP shall address on-Site and off-Site areas and provide the technical basis for selecting and designing final remedial measures. Phased and concurrent investigations will be necessary to support IRAP implementation. The IRAP shall recommend one or more alternatives for implementation and include plans to address immediate threats identified through currently available information and from data collected during SIWP implementation. The IRAP shall include, at a minimum:

(1) A plan to enhance contaminant mass removal and address off-Site COC migration at the Site.

(2) A plan to evaluate and destroy any vertical conduits (e.g., water supply wells and/or monitoring wells) within the regional PCE plume that allow the downward migration of COCs.

(3) A plan to remediate COCs identified in any preferential pathways (e.g., stormwater conveyance system/Tucker Basin) located within the regional PCE plume.

(4) A plan to mitigate any threats to human health at the Site or off-Site via the vapor intrusion to indoor air pathway.

(5) A plan to address any immediate threats to the MUN beneficial use of groundwater outside of the PWRP actions.

(6) A proposed time schedule for IRAP plan implementation.

ii) An IRAP, acceptable to the Executive Officer, shall be submitted in conformance with the requirements in Attachment C, Time Schedule.

iii) Scheduling, implementation, completion, and reporting of all IRAP related activities required in this Order shall be conducted in conformance with the requirements detailed in Attachment C, Time Schedule.

e. **Remedial Action Plan**

i) Develop and submit a comprehensive Remedial Action Plan(s) (RAP) for cleanup of wastes in the soil, soil vapor, and groundwater. The RAP shall include, at a minimum:

(1) A feasibility study or assessment report for evaluation of the cleanup technologies considered for remediation of soil, soil vapor and groundwater and the need for any additional interim remedial measures and pilot tests. Multiple remedial measures may be needed and may be implemented to achieve all cleanup goals.

(2) Cleanup proposals for soil, soil vapor, and groundwater that comply with State Water Board Resolution 92-49 and Resolution 68-16.

(3) Description of the selection criteria for choosing the proposed method over other potential remedial options. Discuss the technical merit, suitability of the selected method under the given site conditions and waste constituents present, economic and temporal feasibility, and immediate and/or future beneficial results.

(4) Description of any pilot projects intended to be implemented.

(5) Estimation of cumulative mass of wastes to be removed and timeframe to reach cleanup goals with the selected method(s). Include all calculations and methodology used to obtain this estimate.

(6) A proposed schedule for completion of the RAP.

ii) A RAP, acceptable to the Executive Officer, shall be submitted in conformance with the requirements detailed in Attachment C, Time Schedule.

iii) Scheduling, implementation, completion, and reporting of all RAP related activities required in this Order shall be conducted in conformance with the requirements detailed in Attachment C, Time Schedule.

8) **Prepare and Submit a Public Participation Plan**

a. Prepare and submit a Public Participation Plan (PPP) in accordance with WC sections 13307.5 and 13307.6 and current USEPA, CalEPA, and DTSC guidance for public participation.[7] The PPP shall be prepared with the goal of providing stakeholders and other interested persons with periodic, meaningful opportunities to review, comment upon, and to influence investigation and cleanup activities. The PPP shall include the following, at a minimum:

i) Procedures to be implemented to communicate water quality testing results in writing to:

(1) All owners of all impaired, impacted, or threatened water supply wells within the regional PCE plume, and

(2) Relevant regulatory agencies (e.g., Lahontan Water Board and El Dorado County Department of Public Health). Procedures shall consider the need for materials to be provided in languages other than English.

ii) Community involvement strategies to be used, such as use of fact sheets, plans to conduct community meetings or workshops, and establishing an information repository.

iii) Procedures to be implemented to address the public participation requirements for each IRAP and RAP implementation stage.

(1) The following tasks shall be completed by the deadlines in Attachment C, Time Schedule:

(a) Submit a baseline community assessment.

(b) Submit an interested persons contact list.

(c) Submit a draft fact sheet that provides information, appropriately targeted to the literacy and translational needs of the community, about the investigation and remedial activities concerning the discharges of waste at the Site.

iv) Public participation activities shall coincide with key decision-making points throughout the process as specified or as directed by the Executive Officer.

v) A PPP, acceptable to the Executive Officer, shall be submitted in conformance with the requirements in Attachment C, Time Schedule.

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[7] Public Participation Manual (DTSC, 2001) https://dtsc.ca.gov/get-involved/policies-procedures-public-participation-program/

vi) Scheduling, implementation, completion, and reporting of all PPP related activities required in this Order shall be conducted in conformance with the requirements detailed in Attachment C, Time Schedule.

9) **Conduct Monitoring**

Implement a groundwater and remediation system performance monitoring program as set forth in Attachment E.

10) **Time Schedule**

The Dischargers shall submit all required work plans and reports and complete work within the schedule in any approved work plan or IRAP and the time schedule set forth in Attachment C, Time Schedule attached hereto and incorporated herein by reference, which may be revised by the Executive Officer at his/her discretion.

OTHER REQUIREMENTS AND SPECIFICATIONS

11) **Authorized Inspection and Entry**

The Lahontan Water Board's authorized representative(s) shall be allowed:

a. Entry upon premises where a regulated facility or activity is located, conducted, or where records are stored, under the conditions of this Order;

b. Access to copy any records that are stored under the conditions of this Order;

c. Access to inspect any facility, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order; and

d. The right to photograph, sample, and monitor the Site and/or off-Site work equipment and infrastructure for the purpose of ensuring compliance with this Order, or as otherwise authorized by the California WC.

12) **Contractor/Consultant Qualification**

As required by the Business and Professions Code sections 6735, 7835, and 7835.1, all reports shall be prepared by, or under the supervision of, an appropriately experienced California registered professional civil engineer or geologist and signed by the registered professional. All technical reports submitted by the Discharger(s) shall include a statement signed by the authorized representative certifying under penalty of law that the representative has examined and is familiar with the report and that to his knowledge, the report is true, complete, and accurate. All technical documents shall be signed by and stamped with the seal of the above-mentioned qualified professionals that reflects a license expiration date.

13) **Compliance with All Laws and Requirements**

This Order is not intended to permit or allow the Discharger(s) to cease any work required by any other Order issued by the Lahontan Water Board, nor shall it be used as a reason to stop or redirect any investigation or cleanup or remediation programs ordered by the Lahontan Water Board or any other agency. Furthermore, this Order does not exempt the Discharger(s) from compliance with any other laws, regulations, or ordinances which may be applicable, nor does it legalize these waste treatment and disposal facilities, and it leaves unaffected any further restrictions on those facilities which may be contained in other statutes or required by other agencies.

14) **Notice of Changed Name or Ownership**

The Discharger(s) shall submit a notice to the Lahontan Water Board 30-days in advance of any planned changes in name, ownership, or control of the Site and shall provide a notice to the Lahontan Water Board 30-days in advance of any planned physical changes to the Site that may affect compliance with this Order. In the event of a change in ownership or operator, the Discharger(s) also shall provide a notice 30 days in advance, by letter, to the succeeding owner/operator of the existence of this Order, and shall submit a copy of this advance notice to the Lahontan Water Board. Transfer of ownership does not automatically transfer responsibility for the requirements in this Order.

15) **Well Abandonment Approval**

Abandonment of any groundwater well(s) utilized in the Groundwater MRP must be approved by and reported to the Lahontan Water Board at least 30 days in advance. If, in the Executive Officer's judgment, any removed groundwater well is necessary to monitor the discharge of waste, the well must be replaced within 90 calendar days, at a location approved by the Lahontan Water Board. With written justification, the Lahontan Water Board may approve the abandonment of groundwater wells without replacement. When a well is removed, all abandonment work shall be completed in accordance with California Department of Water Resources Bulletin 74-90, "California Well Standards," Monitoring Well Standards Chapter, Part III, Sections 16-19.

16) **Extensions**

In the event compliance cannot be achieved within the terms of this Order, the Dischargers have the opportunity to request, in writing, an extension of the time specified. The extension request shall include an explanation why the specified date could not or will not be met and justification for the requested period of extension. Any extension request shall be submitted as soon as the situation is recognized and no later than the compliance date. Extension requests not approved in writing with reference to this Order are denied.

17) **Delegated Authority to the Executive Officer**

The Lahontan Water Board, through its Executive Officer, may revise this Order as additional information becomes available. Upon request by the Dischargers, and for good cause shown, the Executive Officer may defer, delete or extend the date of compliance for any action required of the Dischargers under this Order. The authority of the Lahontan Water Board, as contained in the California WC, to order investigation and cleanup, in addition to that described herein, is in no way limited by this Order.

Reference herein to determinations and considerations to be made by the Lahontan Water Board regarding the terms of the Order shall be made by the Executive Officer or his/her designee. Decisions and directives made by the Executive Officer with respect to this Order shall be as if made by the Lahontan Water Board.

18) **Continue Uninterrupted Cleanup and Abatement**

The Dischargers shall continue to implement any remediation or monitoring activities until such time as the Executive Officer determines that sufficient cleanup has been accomplished and this Order has been rescinded.

19) **Cost Reimbursement**

The Dischargers shall reimburse the Lahontan Water Board for reasonable costs associated with oversight of the investigation and cleanup of the waste at or emanating from the Site.

20) **Reports Submitted Under Penalty of Law**

The Lahontan Water Board, under the authority given by WC section 13267, subdivision (b)(1), requires you to include a statement in all reports submitted under this Order signed by a senior authorized representative (not by a consultant). The statement shall be in the following format:

> “I, [NAME], certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision, in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

21) **Electronic Submission of Reports**

On September 30, 2004, the State Water Board adopted the resolution to revise regulations in Chapter 30, Division 3 of Title 23 of CCR, which requires persons to ensure electronic submission of laboratory analytical data (i.e., soil, soil vapor, or groundwater chemical analysis) and locational data (i.e., location and elevation of groundwater monitoring wells) via the Internet to the State Water Board's GeoTracker database. You must upload all available Electronic submittal of information (ESI) concerning the Site to the State Water Board's GeoTracker database: the report (in PDF format), laboratory analytical data (in electronic data format [EDF]), monitoring event information in GEO_WELL format, an updated site map (GEO_MAP) showing any new monitoring well locations, boring logs in PDF (GEO_BORE) to be used to link to well locations, monitoring well latitude and longitude (GEO_XY) survey data, and monitoring well elevation data (GEO_Z). Hard copy paper reports, which have already been electronically uploaded to GeoTracker, are no longer required to be submitted to the Water Board. The regulations and other background information are available at https://geotracker.waterboards.ca.gov

22) **Enforcement**

Failure to comply with the terms or conditions of this Order may result in imposition of civil liabilities, imposed either administratively by the Lahontan Water Board or judicially by the Superior Court in accordance with Water Code sections 13268, 13304, 13308, and/or 13350, and/or referral to the Attorney General of the State of California.

23) **Bankruptcy**

None of the obligations imposed by this Order on the Dischargers are intended to constitute a debt, damage claim, penalty or other civil action which should be limited or discharged in a bankruptcy proceeding. All obligations are imposed pursuant to the police powers of the State of California intended to protect the public health, safety, welfare, and environment.

Ordered by: ________________ Date: _______________

MICHAEL PLAZIAK, P.G.
EXECUTIVE OFFICER

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Attachment B: Lahontan Water Board’s Engineer’s Cost Estimate of Investigation and Reporting Scenarios

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FIGURES

FIGURE 1: SITE LOCATION, THIRD QUARTER 2021 MONITORING REPORT (PES, 2021)

PES. 15 December 2021. Third Quarter 2021 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

Cleanup and Abatement Order
Figure 1

PES Environmental, Inc.
Engineering & Environmental Services
AN NV5 COMPANY

Site Location
Quarterly Monitoring Report
Former Lake Tahoe Laundry Works
South Lake Tahoe, California

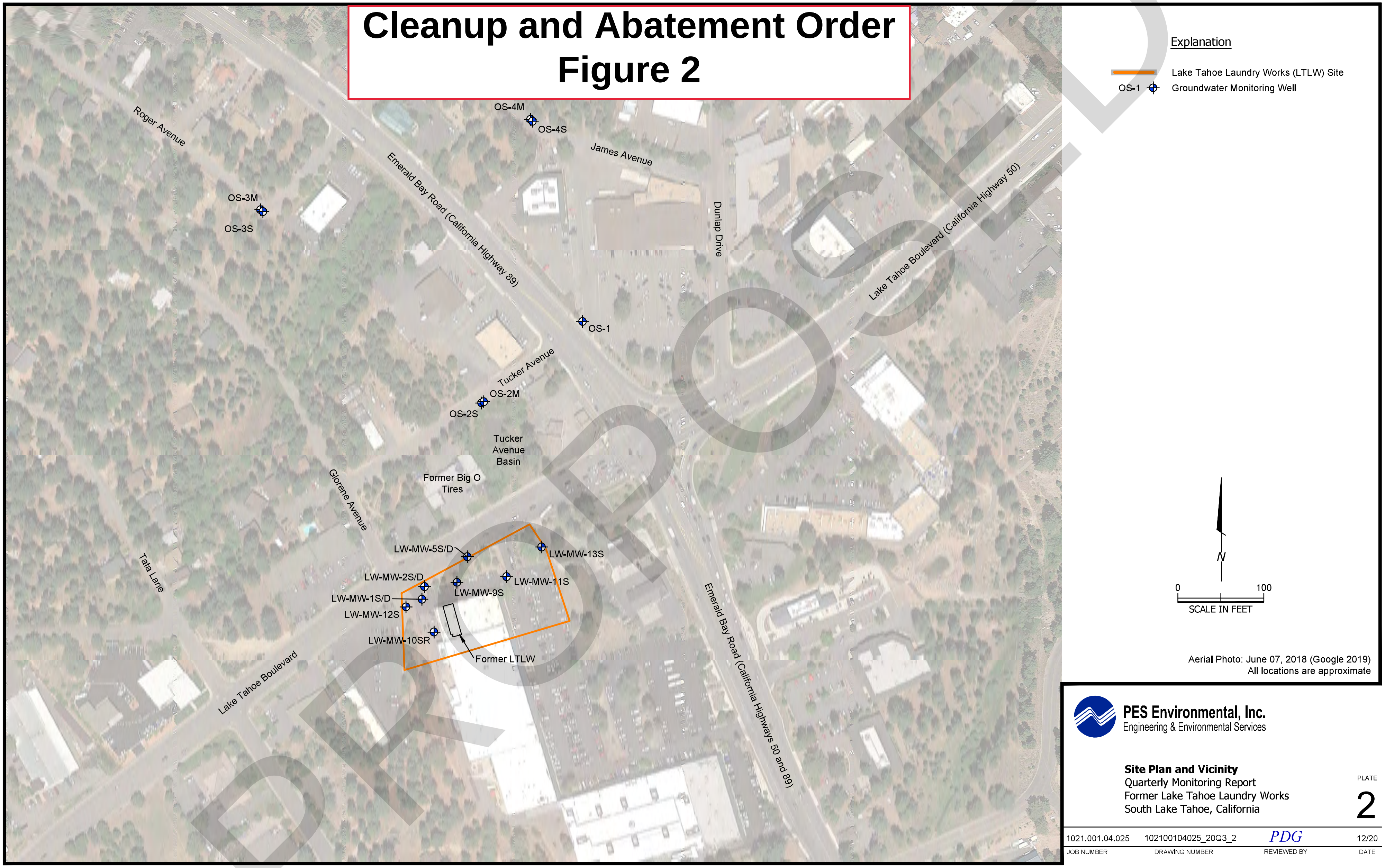
PLATE
1

1021.001.04.036	102100104036_21Q3_1	KSF	12/21
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

FIGURE 2: SITE PLAN AND VICINITY, THIRD QUARTER 2021 MONITORING REPORT (PES, 2021)

PES. 15 December 2021. Third Quarter 2021 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

Cleanup and Abatement Order
Figure 2



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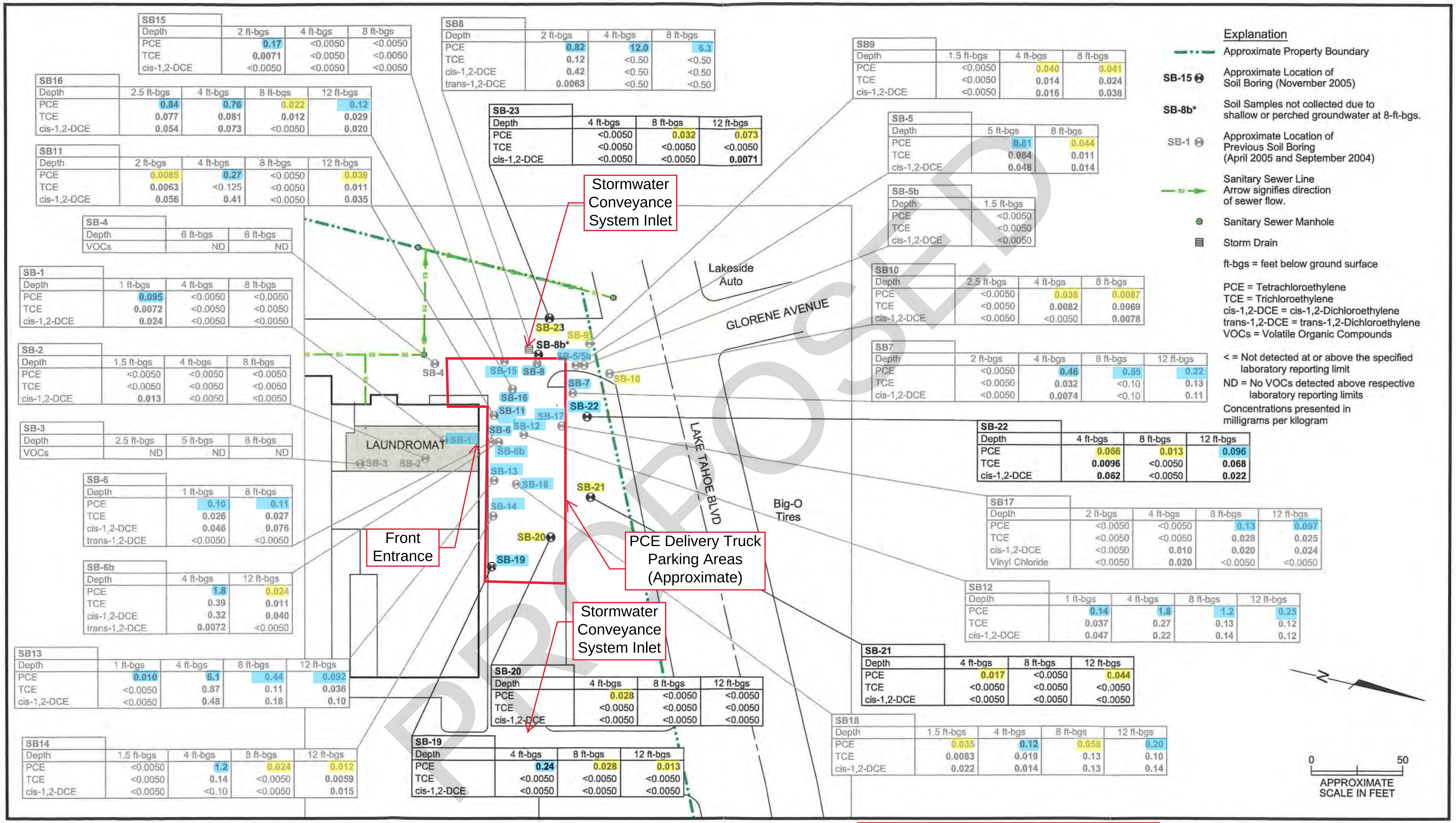
PES. 31 January 2006. Additional Soil Investigation Results, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California, RWQCB SLIC Case No. T6S043.



SB15

Depth	2 ft-bgs	4 ft-bgs	8 ft-bgs
PCE	0.17	<0.0050	<0.0050
TCE	0.0071	<0.0050	<0.0050
cis-1,2-DCE	<0.0050	<0.0050	<0.0050

SB16

Depth	2.5 ft-bgs	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	0.84	0.76	0.022	0.12
TCE	0.077	0.081	0.012	0.029
cis-1,2-DCE	0.054	0.073	<0.0050	0.020

SB11

Depth	2 ft-bgs	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	0.0085	0.27	<0.0050	0.039
TCE	0.0063	<0.125	<0.0050	0.011
cis-1,2-DCE	0.056	0.41	<0.0050	0.035

SB-4

Depth	6 ft-bgs	8 ft-bgs
VOCs	ND	ND

SB-1

Depth	1 ft-bgs	4 ft-bgs	8 ft-bgs
PCE	0.095	<0.0050	<0.0050
TCE	0.0072	<0.0050	<0.0050
cis-1,2-DCE	0.024	<0.0050	<0.0050

SB-2

Depth	1.5 ft-bgs	4 ft-bgs	8 ft-bgs
PCE	<0.0050	<0.0050	<0.0050
TCE	<0.0050	<0.0050	<0.0050
cis-1,2-DCE	0.013	<0.0050	<0.0050

SB-3

Depth	2.5 ft-bgs	5 ft-bgs	8 ft-bgs
VOCs	ND	ND	ND

SB-6

Depth	1 ft-bgs	8 ft-bgs
PCE	0.10	0.11
TCE	0.026	0.027
cis-1,2-DCE	0.046	0.076
trans-1,2-DCE	<0.0050	<0.0050

SB-6b

Depth	4 ft-bgs	12 ft-bgs
PCE	1.8	0.024
TCE	0.39	0.011
cis-1,2-DCE	0.32	0.040
trans-1,2-DCE	0.0072	<0.0050

SB13

Depth	1 ft-bgs	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	0.010	6.1	0.44	0.092
TCE	<0.0050	0.87	0.11	0.036
cis-1,2-DCE	<0.0050	0.48	0.18	0.10

SB14

Depth	1.5 ft-bgs	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	<0.0050	1.2	0.024	0.012
TCE	<0.0050	0.14	<0.0050	0.0059
cis-1,2-DCE	<0.0050	<0.10	<0.0050	0.015

SB8

Depth	2 ft-bgs	4 ft-bgs	8 ft-bgs
PCE	0.82	12.0	6.3
TCE	0.12	<0.50	<0.50
cis-1,2-DCE	0.42	<0.50	<0.50
trans-1,2-DCE	0.0063	<0.50	<0.50

SB-23

Depth	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	<0.0050	0.032	0.073
TCE	<0.0050	<0.0050	<0.0050
cis-1,2-DCE	<0.0050	<0.0050	0.0071

SB-20

Depth	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	0.028	<0.0050	<0.0050
TCE	<0.0050	<0.0050	<0.0050
cis-1,2-DCE	<0.0050	<0.0050	<0.0050

SB-19

Depth	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	0.24	0.028	0.013
TCE	<0.0050	<0.0050	<0.0050
cis-1,2-DCE	<0.0050	<0.0050	<0.0050

SB9

Depth	1.5 ft-bgs	4 ft-bgs	8 ft-bgs
PCE	<0.0050	0.040	0.041
TCE	<0.0050	0.014	0.024
cis-1,2-DCE	<0.0050	0.016	0.038

SB-5

Depth	5 ft-bgs	8 ft-bgs
PCE	0.81	0.044
TCE	0.084	0.011
cis-1,2-DCE	0.048	0.014

SB-5b

Depth	1.5 ft-bgs
PCE	<0.0050
TCE	<0.0050
cis-1,2-DCE	<0.0050

SB10

Depth	2.5 ft-bgs	4 ft-bgs	8 ft-bgs
PCE	<0.0050	0.038	0.0087
TCE	<0.0050	0.0082	0.0069
cis-1,2-DCE	<0.0050	<0.0050	0.0078

SB7

Depth	2 ft-bgs	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	<0.0050	0.46	0.55	0.22
TCE	<0.0050	0.032	<0.10	0.13
cis-1,2-DCE	<0.0050	0.0074	<0.10	0.11

SB-22

Depth	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	0.066	0.013	0.096
TCE	0.0096	<0.0050	0.068
cis-1,2-DCE	0.062	<0.0050	0.022

SB17

Depth	2 ft-bgs	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	<0.0050	<0.0050	0.13	0.097
TCE	<0.0050	<0.0050	0.028	0.025
cis-1,2-DCE	<0.0050	0.010	0.020	0.024
Vinyl Chloride	<0.0050	0.020	<0.0050	<0.0050

SB12

Depth	1 ft-bgs	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	0.14	1.8	1.2	0.25
TCE	0.037	0.27	0.13	0.12
cis-1,2-DCE	0.047	0.22	0.14	0.12

SB-21

Depth	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	0.017	<0.0050	0.044
TCE	<0.0050	<0.0050	<0.0050
cis-1,2-DCE	<0.0050	<0.0050	<0.0050

SB18

Depth	1.5 ft-bgs	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	0.035	0.12	0.058	0.20
TCE	0.0083	0.019	0.13	0.10
cis-1,2-DCE	0.022	0.014	0.13	0.14

Explanation

Approximate Property Boundary

SB-15 Approximate Location of Soil Boring (November 2005)

SB-8b* Soil Samples not collected due to shallow or perched groundwater at 8-ft-bgs.

SB-1 Approximate Location of Previous Soil Boring (April 2005 and September 2004)

Sanitary Sewer Line Arrow signifies direction of sewer flow.

Sanitary Sewer Manhole

Storm Drain

ft-bgs = feet below ground surface

PCE = Tetrachloroethylene
TCE = Trichloroethylene
cis-1,2-DCE = cis-1,2-Dichloroethylene
trans-1,2-DCE = trans-1,2-Dichloroethylene
VOCs = Volatile Organic Compounds

< = Not detected at or above the specified laboratory reporting limit
ND = No VOCs detected above respective laboratory reporting limits
Concentrations presented in milligrams per kilogram

PES Environmental, Inc.
Engineering & Environmental Services

Cleanup and Abatement Order Figure 3

Lahontan Water Board Annotation Notes:
1) Boring locations and PCE soil sample results highlighted in blue indicate PCE concentration in soil exceeded leaching to groundwater ESL of 0.08 mg/kg.
2) Boring locations and PCE soil sample results highlighted in yellow indicate PCE was detected above the reporting limit and below the leaching to groundwater ESL of 0.08 mg/kg.
3) The Site's front entrance, suspected PCE delivery truck parking area, and approximate stormwater conveyance system drop inlet locations are specifically denoted.

Soil Analytical Results
Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard
South Lake Tahoe, California

PLATE
4

1021.001.01.007
JOB NUMBER

102100101007_1105
DRAWING NUMBER

KSF
REVIEWED BY

1/06
DATE

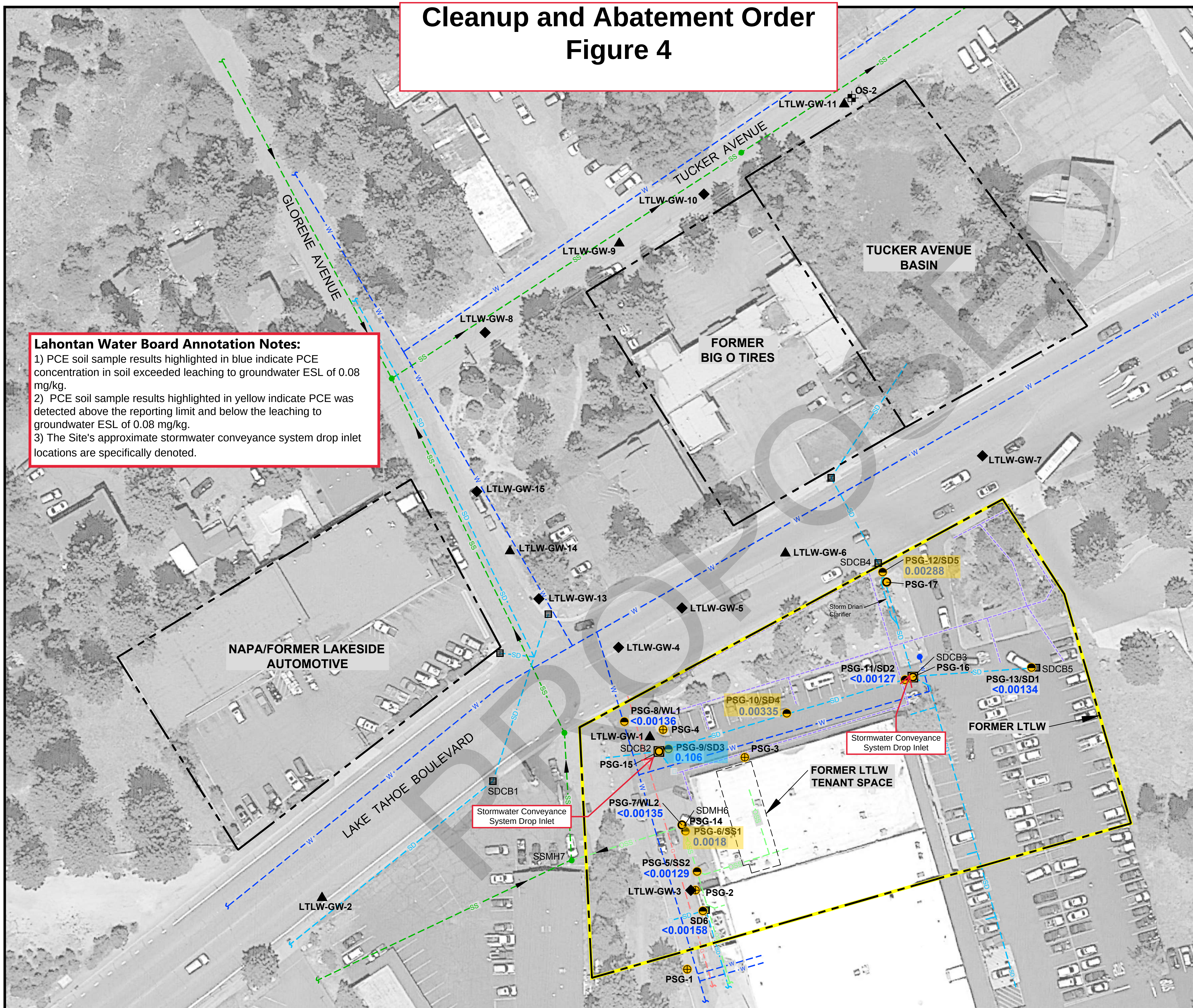
FIGURE 4: ANNOTATED PCE IN ON-SITE FILL SURROUNDING SUBSURFACE STORM DRAIN AND SANITARY SEWER PIPES, INVESTIGATION SUMMARY REPORT (PES, 2019B)

EKI. 1 April 2019b. Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

Cleanup and Abatement Order
Figure 4

Lahontan Water Board Annotation Notes:

1) PCE soil sample results highlighted in blue indicate PCE concentration in soil exceeded leaching to groundwater ESL of 0.08 mg/kg.
2) PCE soil sample results highlighted in yellow indicate PCE was detected above the reporting limit and below the leaching to groundwater ESL of 0.08 mg/kg.
3) The Site's approximate stormwater conveyance system drop inlet locations are specifically denoted.



Legend:

(dashed yellow/black line)	Approximate Property Boundaries
PSG-10/SD5	Stage 1 Utility Trench Vapor/Soil Boring
PSG-4	Stage 1 Background Soil Vapor (Outside of Utility Trench)
PSG-14	Stage 1 Sewer/Storm Drain Vapor
LTLW-GW-9	CPT and GGW Sample (June 2017 to Present)
LTLW-GW-3	GGW Sample (June 2017 to Present)
OS-2	Monitoring Well Pair (June 2017 to Present)
0.00335	Concentration of PCE in Utility Backfill Soil in Milligrams Per Kilogram (mg/kg)
<0.00136	PCE Not Detected at or Above the Indicated Reporting Limit
SS	STPUD Sewer Main and Manhole
OSS	On-Site Sewer Line
W	Water Line and Fire Hydrant
G	Natural Gas Line
SD	Subsurface Stormwater System
	SVE Remediation System Trench
SDCB5	Identifier for Sanitary Sewer Manholes (SSMH) and Storm Drain Catch Basins (SDCB)

Abbreviations:

CPT = cone penetration test
GGW = grab groundwater
LTLW = Lake Tahoe Laundry Works
PCE = tetrachloroethene
STPUD = South Tahoe Public Utility District
SVE = soil vapor extraction

Notes:

1. All locations are approximate.
2. Basemap source: Google Earth Pro, date of imagery 7 June 2018.

N

0 70 140
(Scale in Feet)

PCE in On-Site Fill Surrounding Subsurface Storm Drain and Sanitary Sewer Pipes

Former Lake Tahoe Laundry Works
South Lake Tahoe, CA
April 2019
EKI A70020.11

eki environment & water

Figure 5-1

20190315.08023584 G:\A70020.11\Report Dwgs_NewFigure 3-3.dwg Figure 3-3

FIGURE 5: ANNOTATED THIRD QUARTER 2021 SHALLOW SOIL VAPOR DISTRIBUTION PLOT AND HISTORIC MAXIMUM PCE CONCENTRATIONS DETECTED, THIRD QUARTER 2021 MONITORING REPORT (PES, 2021)

PES. 15 December 2021. Third Quarter 2021 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

Cleanup and Abatement Order Figure 5

Lahontan Water Board Staff Annotation Notes:

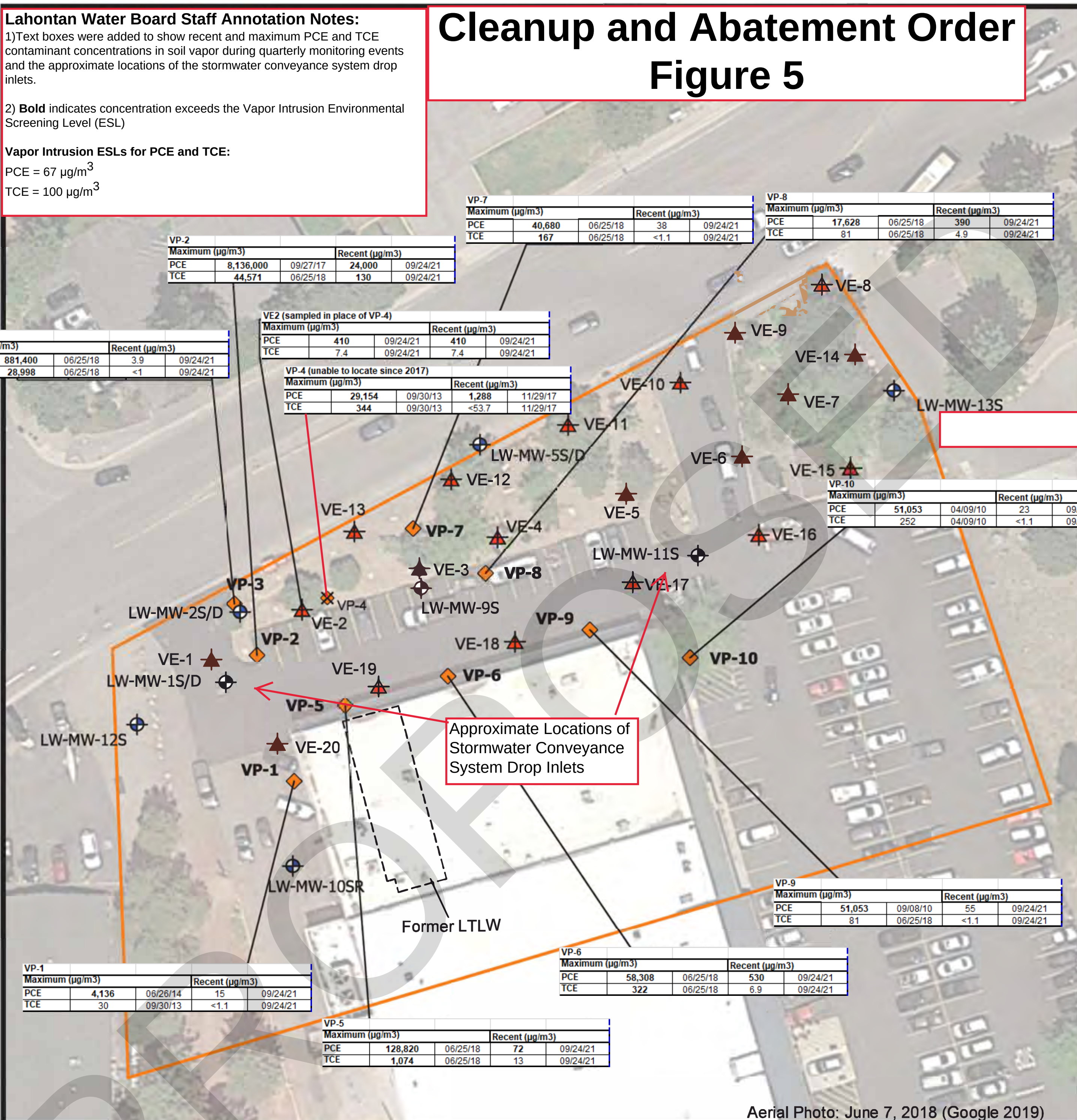
1)Text boxes were added to show recent and maximum PCE and TCE contaminant concentrations in soil vapor during quarterly monitoring events and the approximate locations of the stormwater conveyance system drop inlets.

2) **Bold** indicates concentration exceeds the Vapor Intrusion Environmental Screening Level (ESL)

Vapor Intrusion ESLs for PCE and TCE:

PCE = 67 μg/m^3

TCE = 100 μg/m^3



VP-7

	Maximum (μg/m3)		Recent (μg/m3)	
PCE	**40,680**	06/25/18	38	09/24/21
TCE	**167**	06/25/18	<1.1	09/24/21

VP-8

	Maximum (μg/m3)		Recent (μg/m3)	
PCE	**17,628**	06/25/18	**390**	09/24/21
TCE	81	06/25/18	4.9	09/24/21

VP-2

	Maximum (μg/m3)		Recent (μg/m3)	
PCE	**8,136,000**	09/27/17	**24,000**	09/24/21
TCE	**44,571**	06/25/18	**130**	09/24/21

VE2 (sampled in place of VP-4)

	Maximum (μg/m3)		Recent (μg/m3)	
PCE	**410**	09/24/21	**410**	09/24/21
TCE	7.4	09/24/21	7.4	09/24/21

VP-3

	Maximum (μg/m3)		Recent (μg/m3)	
PCE	**881,400**	06/25/18	3.9	09/24/21
TCE	**28,998**	06/25/18	<1	09/24/21

VP-4 (unable to locate since 2017)

	Maximum (μg/m3)		Recent (μg/m3)	
PCE	**29,154**	09/30/13	**1,288**	11/29/17
TCE	**344**	09/30/13	<53.7	11/29/17

VP-10

	Maximum (μg/m3)		Recent (μg/m3)	
PCE	**51,053**	04/09/10	23	09/24/21
TCE	252	04/09/10	<1.1	09/24/21

VP-9

	Maximum (μg/m3)		Recent (μg/m3)	
PCE	**51,053**	09/08/10	55	09/24/21
TCE	81	06/25/18	<1.1	09/24/21

VP-6

	Maximum (μg/m3)		Recent (μg/m3)	
PCE	**58,308**	06/25/18	**530**	09/24/21
TCE	**322**	06/25/18	6.9	09/24/21

VP-1

	Maximum (μg/m3)		Recent (μg/m3)	
PCE	**4,136**	06/26/14	15	09/24/21
TCE	30	09/30/13	<1.1	09/24/21

VP-5

	Maximum (μg/m3)		Recent (μg/m3)	
PCE	**128,820**	06/25/18	**72**	09/24/21
TCE	**1,074**	06/25/18	13	09/24/21

Explanation

Lake Tahoe Laundry Works (LTLW Site)

LW-MW-13S — Groundwater Monitoring Well

VP-10 — Soil Gas Probe Location

VE-1 — Soil Vapor Extraction (SVE) Well Location

VP-4 — Lost Soil Gas Probe Location

NS = Not Sampled
PCE = Tetrachloroethene
TCE = Trichloroethene
cis-1,2-DCE = cis-1,2-Dichloroethene
Concentrations reported in micrograms by cubic meter(μg/m^3)
<1.1 = Not detected at respective laboratory reporting limit

0 60
SCALE IN FEET
N

PES Environmental, Inc.
Engineering & Environmental Services
AN NV5 COMPANY

Third Quarter 2021 Shallow Soil Vapor Distribution Plot
Quarterly Monitoring Report
Former Lake Tahoe Laundry Works
South Lake Tahoe, California

PLATE 7

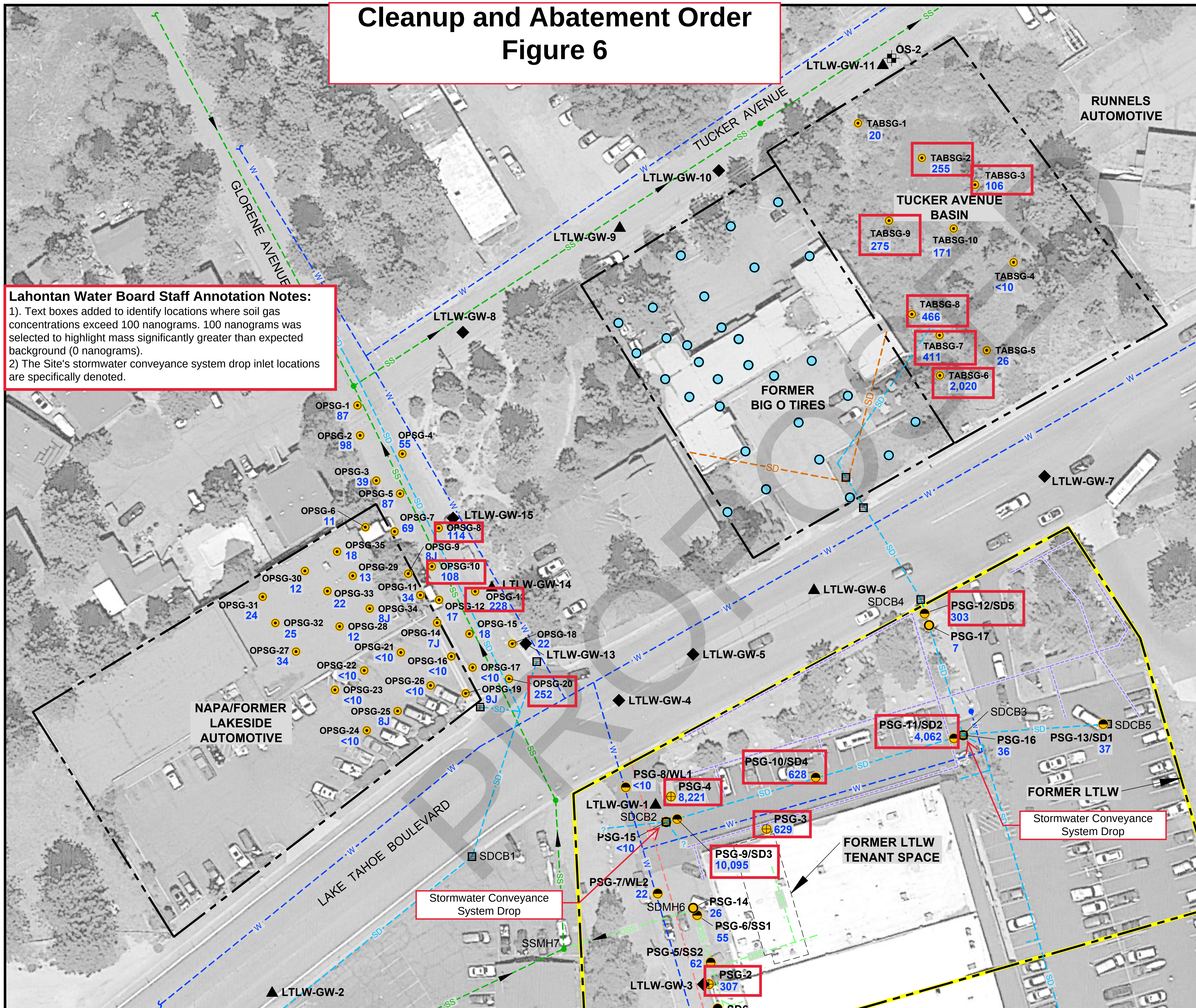
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE
1021.001.04.036	102100104036_21Q3_7	KSF	12/21

FIGURE 6: ANNOTATED PCE IN ON-SITE AND OFF-SITE PASSIVE SOIL GAS SAMPLES, INVESTIGATION SUMMARY REPORT (PES, 2019D)

EKI. 4 October 2019d. Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

Cleanup and Abatement Order Figure 6

Lahontan Water Board Staff Annotation Notes:
1). Text boxes added to identify locations where soil gas concentrations exceed 100 nanograms. 100 nanograms was selected to highlight mass significantly greater than expected background (0 nanograms).
2) The Site's stormwater conveyance system drop inlet locations are specifically denoted.



Legend:

(yellow/black dashed line)	Approximate Property Boundaries
OPSG-1	Off-Site Passive Soil Gas Sample
(blue circle)	Pending Passive Soil Gas Sample
PSG-10/SD5	Stage 1 Utility Trench Vapor/Soil Boring
PSG-4	Stage 1 Background Soil Vapor Sample (Outside of Utility Trench)
PSG-14	Stage 1 Sewer/Storm Drain Vapor Sample
LTLW-GW-9	CPT and GGW Sample
LTLW-GW-3	GGW Sample
OS-2	Monitoring Well Pair
55	PCE Mass in Nanograms in Passive Soil Gas Samples
<10	PCE Not Detected at or Above the Indicated Reporting Limit
J	Estimated Concentration Detected Below Laboratory Reporting Limit
SS	STPUD Sewer Main and Manhole
OSS	On-Site Sewer Line
W	Water Line and Fire Hydrant
G	Natural Gas Line
SD	Subsurface Stormwater System
SD	Historical Subsurface Stormwater System Prior to 1987
(purple dashed line)	SVE Remediation System Trench
(square symbol)	Identifier for Sanitary Sewer Manholes (SSMH) and Storm Drain Catch Basins (SDCB)

Abbreviations:

CPT = cone penetration test
GGW = grab groundwater
LTLW = Lake Tahoe Laundry Works
PCE = tetrachloroethene
STPUD = South Tahoe Public Utility District
SVE = soil vapor extraction

Notes:

1. All locations are approximate.
2. Basemap source: Google Earth Pro, date of imagery 7 June 2018.

0 60 120
(Scale in Feet)
N

PCE in On-Site and Off-Site Passive Soil Gas Samples

Former Lake Tahoe Laundry Works
South Lake Tahoe, CA
October 2019
EKI A70020.14

eki environment & water

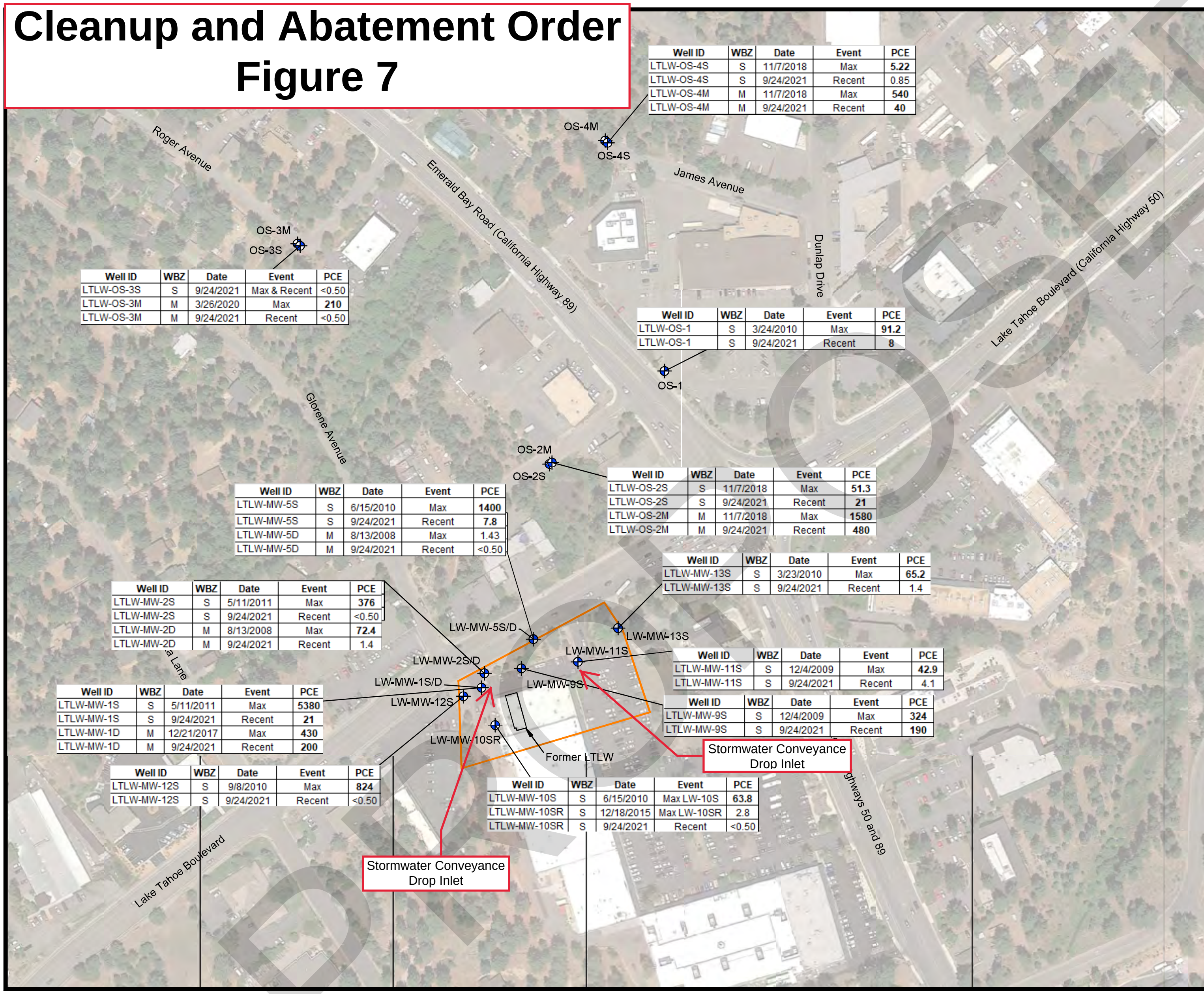
Figure 5-1

20190315.08264897 G:\A70020.11\Report Dwgs\NewFigure 3-2.dwg Figure 3-2a

FIGURE 7: ANNOTATED DISTRIBUTION OF VOCS IN GROUNDWATER- THIRD QUARTER 2021 AND HISTORIC MAXIMUM PCE CONCENTRATIONS DETECTED, THIRD QUARTER 2021 MONITORING REPORT (PES, 2021)

PES. 15 December 2021. Third Quarter 2021 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

Cleanup and Abatement Order
Figure 7



Well ID	WBZ	Date	Event	PCE
LTLW-OS-4S	S	11/7/2018	Max	**5.22**
LTLW-OS-4S	S	9/24/2021	Recent	0.85
LTLW-OS-4M	M	11/7/2018	Max	**540**
LTLW-OS-4M	M	9/24/2021	Recent	**40**

Well ID	WBZ	Date	Event	PCE
LTLW-OS-3S	S	9/24/2021	Max & Recent	<0.50
LTLW-OS-3M	M	3/26/2020	Max	**210**
LTLW-OS-3M	M	9/24/2021	Recent	<0.50

Well ID	WBZ	Date	Event	PCE
LTLW-OS-1	S	3/24/2010	Max	**91.2**
LTLW-OS-1	S	9/24/2021	Recent	**8**

Well ID	WBZ	Date	Event	PCE
LTLW-OS-2S	S	11/7/2018	Max	**51.3**
LTLW-OS-2S	S	9/24/2021	Recent	**21**
LTLW-OS-2M	M	11/7/2018	Max	**1580**
LTLW-OS-2M	M	9/24/2021	Recent	**480**

Well ID	WBZ	Date	Event	PCE
LTLW-MW-5S	S	6/15/2010	Max	**1400**
LTLW-MW-5S	S	9/24/2021	Recent	**7.8**
LTLW-MW-5D	M	8/13/2008	Max	1.43
LTLW-MW-5D	M	9/24/2021	Recent	<0.50

Well ID	WBZ	Date	Event	PCE
LTLW-MW-13S	S	3/23/2010	Max	**65.2**
LTLW-MW-13S	S	9/24/2021	Recent	1.4

Well ID	WBZ	Date	Event	PCE
LTLW-MW-2S	S	5/11/2011	Max	**376**
LTLW-MW-2S	S	9/24/2021	Recent	<0.50
LTLW-MW-2D	M	8/13/2008	Max	**72.4**
LTLW-MW-2D	M	9/24/2021	Recent	1.4

Well ID	WBZ	Date	Event	PCE
LTLW-MW-11S	S	12/4/2009	Max	**42.9**
LTLW-MW-11S	S	9/24/2021	Recent	4.1

Well ID	WBZ	Date	Event	PCE
LTLW-MW-1S	S	5/11/2011	Max	**5380**
LTLW-MW-1S	S	9/24/2021	Recent	**21**
LTLW-MW-1D	M	12/21/2017	Max	**430**
LTLW-MW-1D	M	9/24/2021	Recent	**200**

Well ID	WBZ	Date	Event	PCE
LTLW-MW-9S	S	12/4/2009	Max	**324**
LTLW-MW-9S	S	9/24/2021	Recent	**190**

Well ID	WBZ	Date	Event	PCE
LTLW-MW-12S	S	9/8/2010	Max	**824**
LTLW-MW-12S	S	9/24/2021	Recent	<0.50

Well ID	WBZ	Date	Event	PCE
LTLW-MW-10S	S	6/15/2010	Max LW-10S	**63.8**
LTLW-MW-10SR	S	12/18/2015	Max LW-10SR	2.8
LTLW-MW-10SR	S	9/24/2021	Recent	<0.50

Explanation

(orange line)	Lake Tahoe Laundry Works (LTLW) Site
OS-1	Groundwater Monitoring Well
WBZ	Water Bearing Zone (S=Shallow; M=Middle)
PCE	Tetrachloroethene
TCE	Trichloroethene
c12DCE	cis-1,2-Dichloroethene
<0.50	Not detected above the indicated laboratory reporting limit
4.6	Concentrations reported in micrograms per liter (µg/L)
NS	Not Sampled

Lahontan Water Board Annotation Notes

1). Text boxes were added to show recent and maximum concentrations of PCE in groundwater during quarterly monitoring events and approximate location of stormwater conveyance system drop inlets.

2). **Bold** indicates concentration exceeds MCL
MCL PCE = 5 µg/L

General Direction of Grounrdwater Flow

Aerial Photo: June 07, 2018 (Google 2019)
All locations are approximate

PES Environmental, Inc.
Engineering & Environmental Services
AN NV5 COMPANY

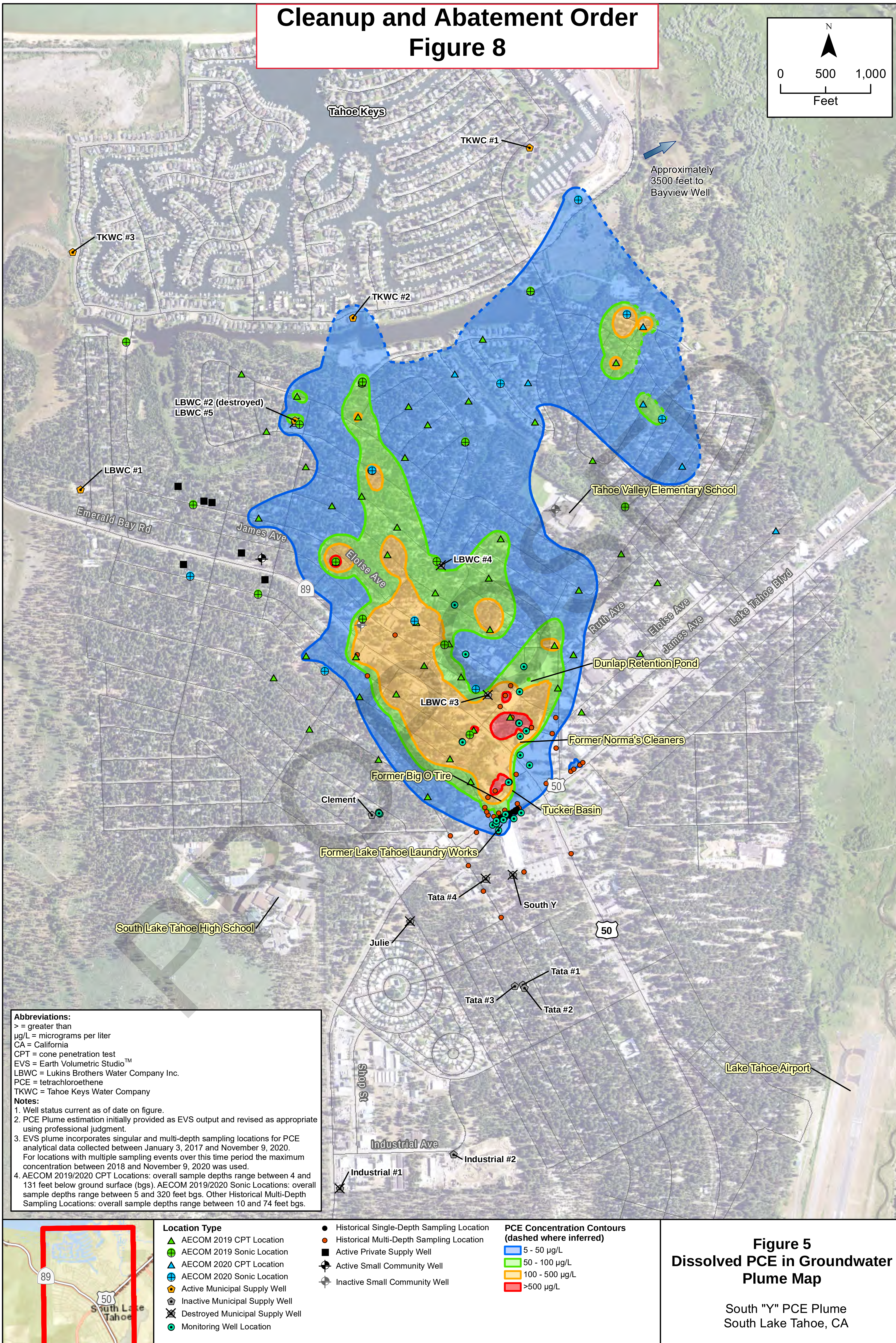
Distribution of VOCs in Groundwater
- Third Quarter 2021
Quarterly Monitoring Report
Former Lake Tahoe Laundry Works
South Lake Tahoe, California

PLATE
4

JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE
1021.001.04.036	102100104036_21Q3_4-6C	KSF	12/21

**FIGURE 8: DISSOLVED PCE IN GROUNDWATER PLUME MAP, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT:
SOUTH “Y” PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)**

AECOM. 10 June 2022. Regional Plume Characterization Summary Report: South “Y” PCE Plume 2019-2020 Field Season.

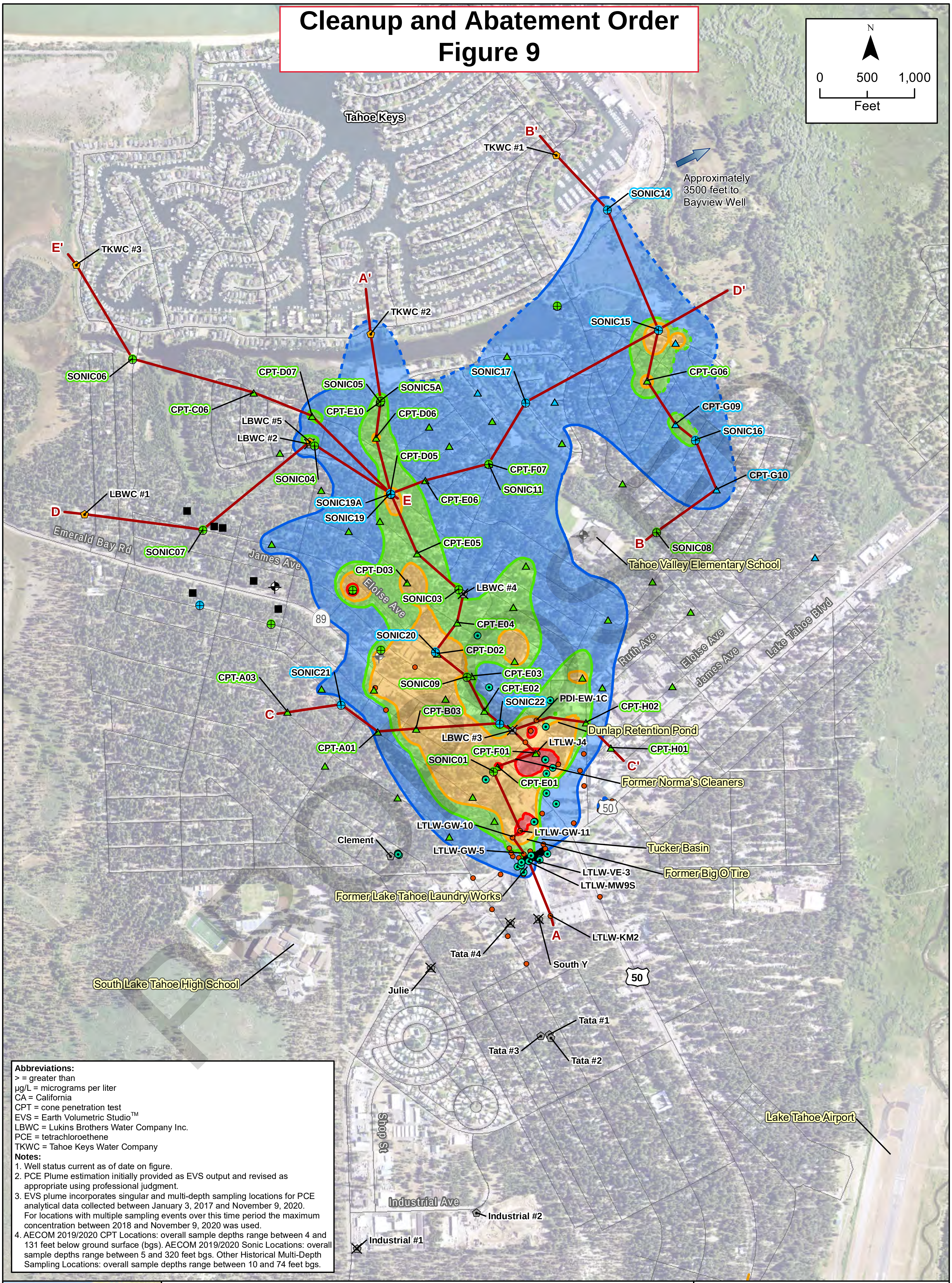


Cleanup and Abatement Order
Figure 8
N
0 500 1,000
Feet
Tahoe Keys
TKWC #1
Approximately 3500 feet to Bayview Well
TKWC #3
TKWC #2
LBWC #2 (destroyed)
LBWC #5
LBWC #1
Emerald Bay Rd
James Ave
Eloise Ave
89
LBWC #4
Tahoe Valley Elementary School
Ruth Ave
Eloise Ave
James Ave
Lake Tahoe Blvd
Dunlap Retention Pond
LBWC #3
Former Norma's Cleaners
Former Big O Tire
50
Clement
Tucker Basin
Former Lake Tahoe Laundry Works
Tata #4
South Y
South Lake Tahoe High School
50
Julie
Tata #1
Tata #3
Tata #2
Lake Tahoe Airport
Shop St
Industrial Ave
Industrial #2
Industrial #1
Abbreviations:
> = greater than
µg/L = micrograms per liter
CA = California
CPT = cone penetration test
EVS = Earth Volumetric Studio™
LBWC = Lukins Brothers Water Company Inc.
PCE = tetrachloroethene
TKWC = Tahoe Keys Water Company
Notes:
1. Well status current as of date on figure.
2. PCE Plume estimation initially provided as EVS output and revised as appropriate using professional judgment.
3. EVS plume incorporates singular and multi-depth sampling locations for PCE analytical data collected between January 3, 2017 and November 9, 2020. For locations with multiple sampling events over this time period the maximum concentration between 2018 and November 9, 2020 was used.
4. AECOM 2019/2020 CPT Locations: overall sample depths range between 4 and 131 feet below ground surface (bgs). AECOM 2019/2020 Sonic Locations: overall sample depths range between 5 and 320 feet bgs. Other Historical Multi-Depth Sampling Locations: overall sample depths range between 10 and 74 feet bgs.
89
50
South Lake Tahoe
Location Type
AECOM 2019 CPT Location
AECOM 2019 Sonic Location
AECOM 2020 CPT Location
AECOM 2020 Sonic Location
Active Municipal Supply Well
Inactive Municipal Supply Well
Destroyed Municipal Supply Well
Monitoring Well Location
Historical Single-Depth Sampling Location
Historical Multi-Depth Sampling Location
Active Private Supply Well
Active Small Community Well
Inactive Small Community Well
PCE Concentration Contours (dashed where inferred)
5 - 50 µg/L
50 - 100 µg/L
100 - 500 µg/L
>500 µg/L
Figure 5
Dissolved PCE in Groundwater Plume Map
South "Y" PCE Plume
South Lake Tahoe, CA

FIGURE 9: CROSS SECTION MAP, DRAFT REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH "Y" PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)

AECOM. 10 June 2022. Regional Plume Characterization Summary Report: South "Y" PCE Plume 2019-2020 Field Season.

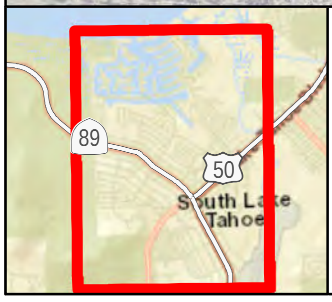
Cleanup and Abatement Order Figure 9



Abbreviations:
> = greater than
µg/L = micrograms per liter
CA = California
CPT = cone penetration test
EVS = Earth Volumetric Studio™
LBWC = Lukins Brothers Water Company Inc.
PCE = tetrachloroethene
TKWC = Tahoe Keys Water Company

Notes:
1. Well status current as of date on figure.
2. PCE Plume estimation initially provided as EVS output and revised as appropriate using professional judgment.
3. EVS plume incorporates singular and multi-depth sampling locations for PCE analytical data collected between January 3, 2017 and November 9, 2020. For locations with multiple sampling events over this time period the maximum concentration between 2018 and November 9, 2020 was used.
4. AECOM 2019/2020 CPT Locations: overall sample depths range between 4 and 131 feet below ground surface (bgs). AECOM 2019/2020 Sonic Locations: overall sample depths range between 5 and 320 feet bgs. Other Historical Multi-Depth Sampling Locations: overall sample depths range between 10 and 74 feet bgs.

\\na.aecomnet.com\LFS\AMER\Sacramento-USSCR2\DCS\GIS\GIS\Projects\60601911_South_Lake_Tahoe_PCE\02_Maps\02_Report_Maps\Regional_Plume_Characterization_Summary_Report\Fig7_Cross_Section_Map.mxd 6/8/2022 mike.snyder SAC



Location Type
- AECOM 2019 CPT Location
- AECOM 2019 Sonic Location
- AECOM 2020 CPT Location
- AECOM 2020 Sonic Location
- Active Municipal Supply Well
- Inactive Municipal Supply Well
- Destroyed Municipal Supply Well
- Monitoring Well Location
- Historical Single-Depth Sampling Location
- Historical Multi-Depth Sampling Location
- Active Private Supply Well
- Active Small Community Well
- Inactive Small Community Well
- Cross Section Location (shown on Figures 6 through 10)

PCE Concentration Contours (dashed where inferred)
- 5 - 50 µg/L
- 50 - 100 µg/L
- 100 - 500 µg/L
- >500 µg/L

Figure 7
Cross Section Map

South "Y" PCE Plume
South Lake Tahoe, CA

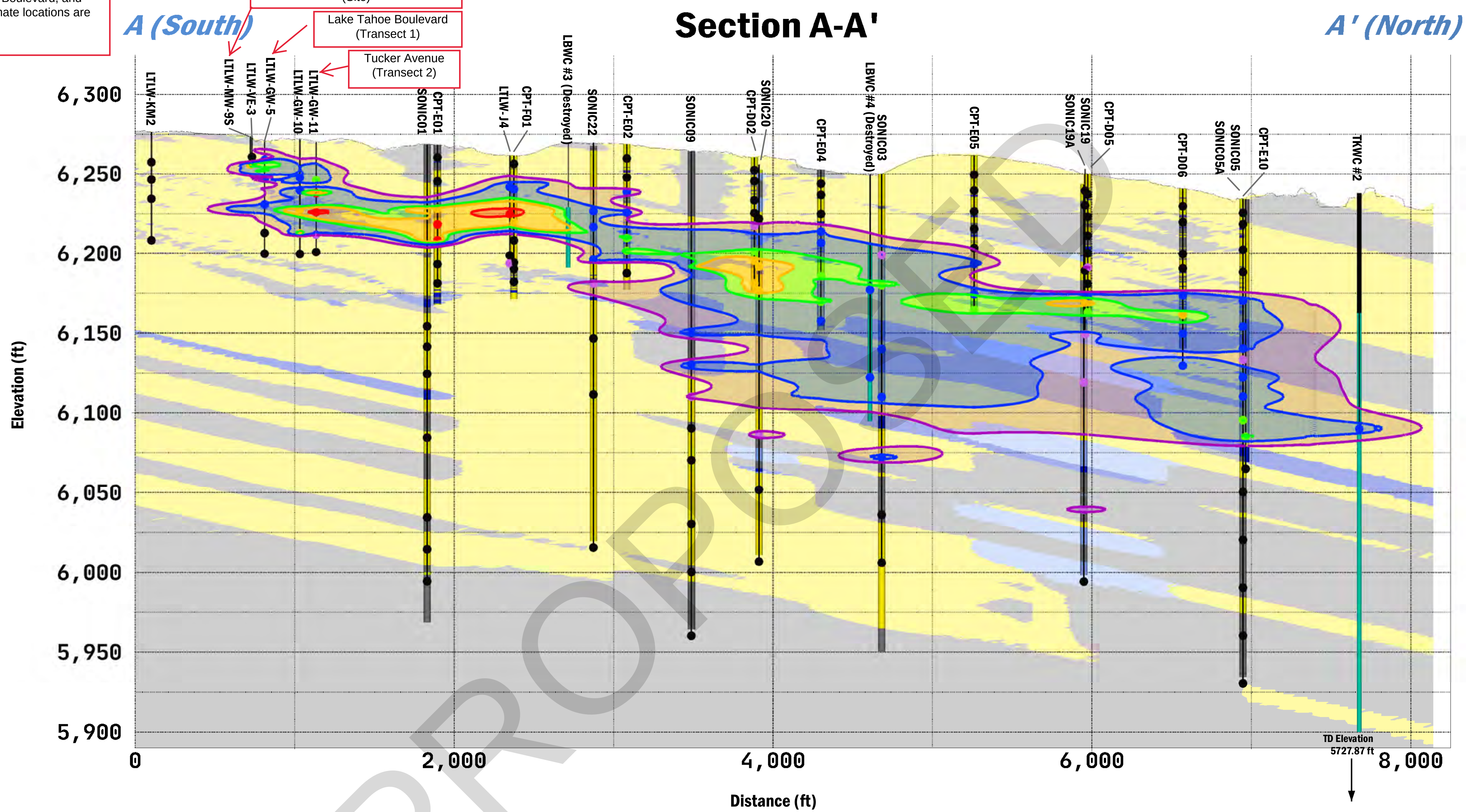
FIGURE 10: ANNOTATED CROSS SECTION A-A', REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH "Y" PCE PLUME 2019-2020 FIELD SEASON (AECOM 2022, ANNOTATED BY LAHONTAN WATER BOARD STAFF)

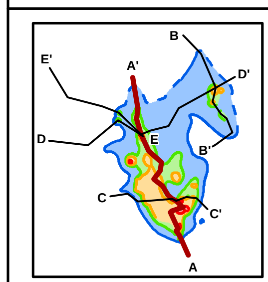
AECOM. 10 June 2022. Regional Plume Characterization Summary Report: South "Y" PCE Plume 2019-2020 Field Season.

Cleanup and Abatement Order
Figure 10

Lahontan Water Board Annotation Notes:
1) The Site, Lake Tahoe Boulevard, and Tucker Avenue approximate locations are specifically denoted.

Section A-A'





Gravel
Sand
Silty and Clayey Sand and Gravel
Interbedded Sand and Clay
Silt and Clay

Annular Seal
Filter Pack

PCE Sample Concentration Range (µg/L)
- <0.5
- 0.5 - <5
- 5 - <50
- 50 - <100
- 100 - <500
- >=500

PCE Concentration Contour Value (µg/L)
- 0.5
- 5
- 50
- 100
- 500

Abbreviations:
< = less than
> = greater than
µg/L = micrograms per liter
CA = California
CPT = cone penetration test
EVS = Earth Volumetric Studio™
ft = feet
LBWC = Lukins Brothers Water Company Inc.
PCE = tetrachloroethene
TD = total depth
TKWC = Tahoe Keys Water Company

Notes:
1. The vertical exaggeration is 10x
2. All elevations are in feet, NAVD 88 (North American Vertical Datum, 1988)
3. Lithologic interpretation and contouring developed using EVS.

Figure 8
Cross Section A-A'

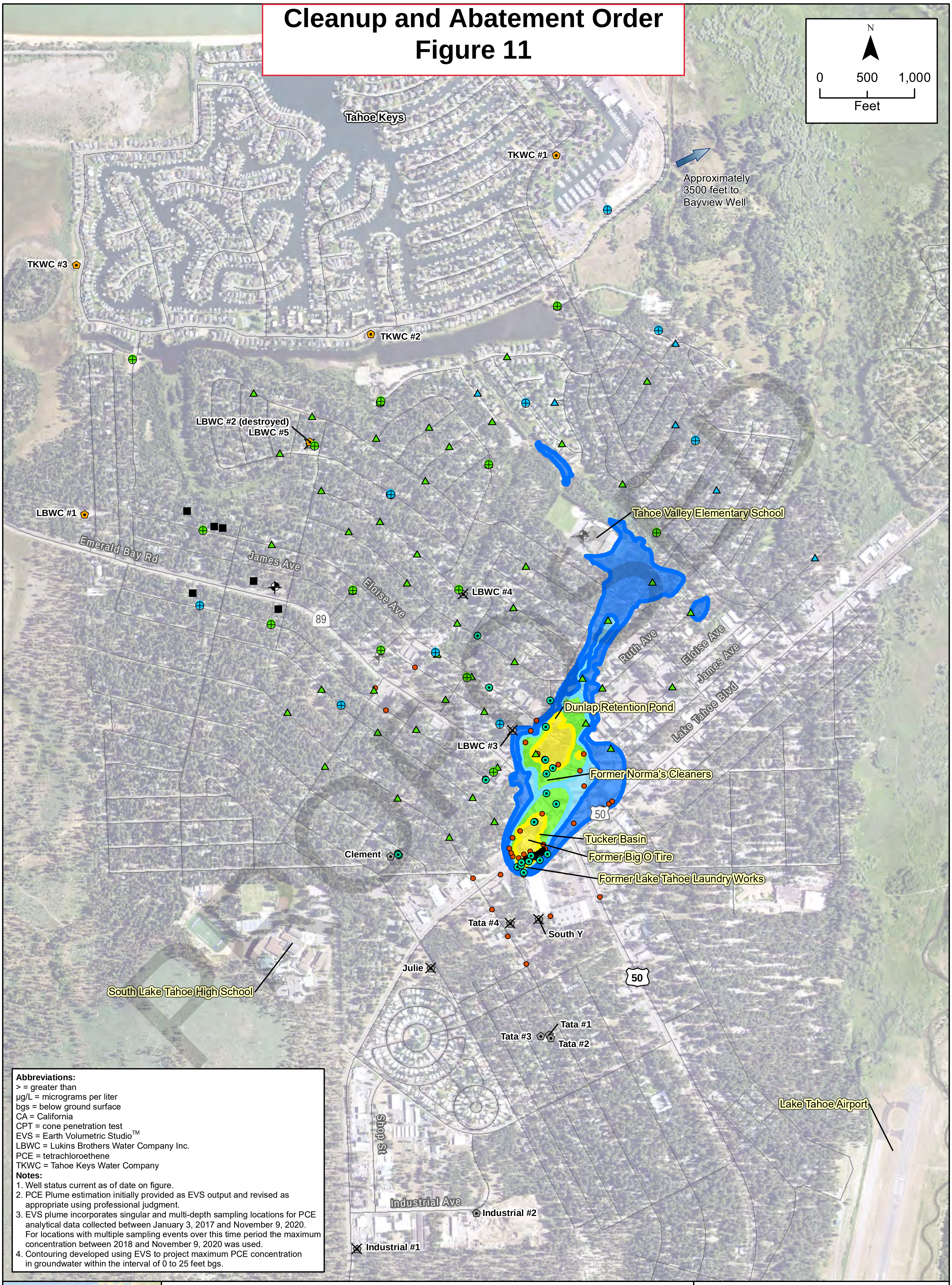
South "Y" PCE Plume
South Lake Tahoe, CA

AECOM

FIGURE 11: DISSOLVED PCE IN SHALLOW GROUNDWATER (0 TO 25-FOOT BGS) PLUME MAP, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH “Y” PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)

AECOM. 10 June 2022. Regional Plume Characterization Summary Report: South “Y” PCE Plume 2019-2020 Field Season.

Cleanup and Abatement Order
Figure 11



Abbreviations:
> = greater than
µg/L = micrograms per liter
bgs = below ground surface
CA = California
CPT = cone penetration test
EVS = Earth Volumetric Studio™
LBWC = Lukins Brothers Water Company Inc.
PCE = tetrachloroethene
TKWC = Tahoe Keys Water Company

Notes:
1. Well status current as of date on figure.
2. PCE Plume estimation initially provided as EVS output and revised as appropriate using professional judgment.
3. EVS plume incorporates singular and multi-depth sampling locations for PCE analytical data collected between January 3, 2017 and November 9, 2020. For locations with multiple sampling events over this time period the maximum concentration between 2018 and November 9, 2020 was used.
4. Contouring developed using EVS to project maximum PCE concentration in groundwater within the interval of 0 to 25 feet bgs.

- AECOM 2019 CPT Location
- AECOM 2019 Sonic Location
- AECOM 2020 CPT Location
- AECOM 2020 Sonic Location
- Active Municipal Supply Well
- Inactive Municipal Supply Well
- Destroyed Municipal Supply Well
- Monitoring Well Location
- Historical Single-Depth Sampling Location
- Historical Multi-Depth Sampling Location
- Active Private Supply Well
- Active Small Community Well
- Inactive Small Community Well

0 to 25-foot Depth bgs PCE Concentration Contours
- 0.64 µg/L – 2.8 µg/L Groundwater Vapor Intrusion Screening Level (Residential)
- 2.8 µg/L – 5.0 µg/L Groundwater Vapor Intrusion Screening Level (Commercial/Industrial)
- 5.0 µg/L – 25 µg/L
- > 25 µg/L

Figure 6
Dissolved PCE in Shallow Groundwater (0 to 25-foot bgs) Plume Map

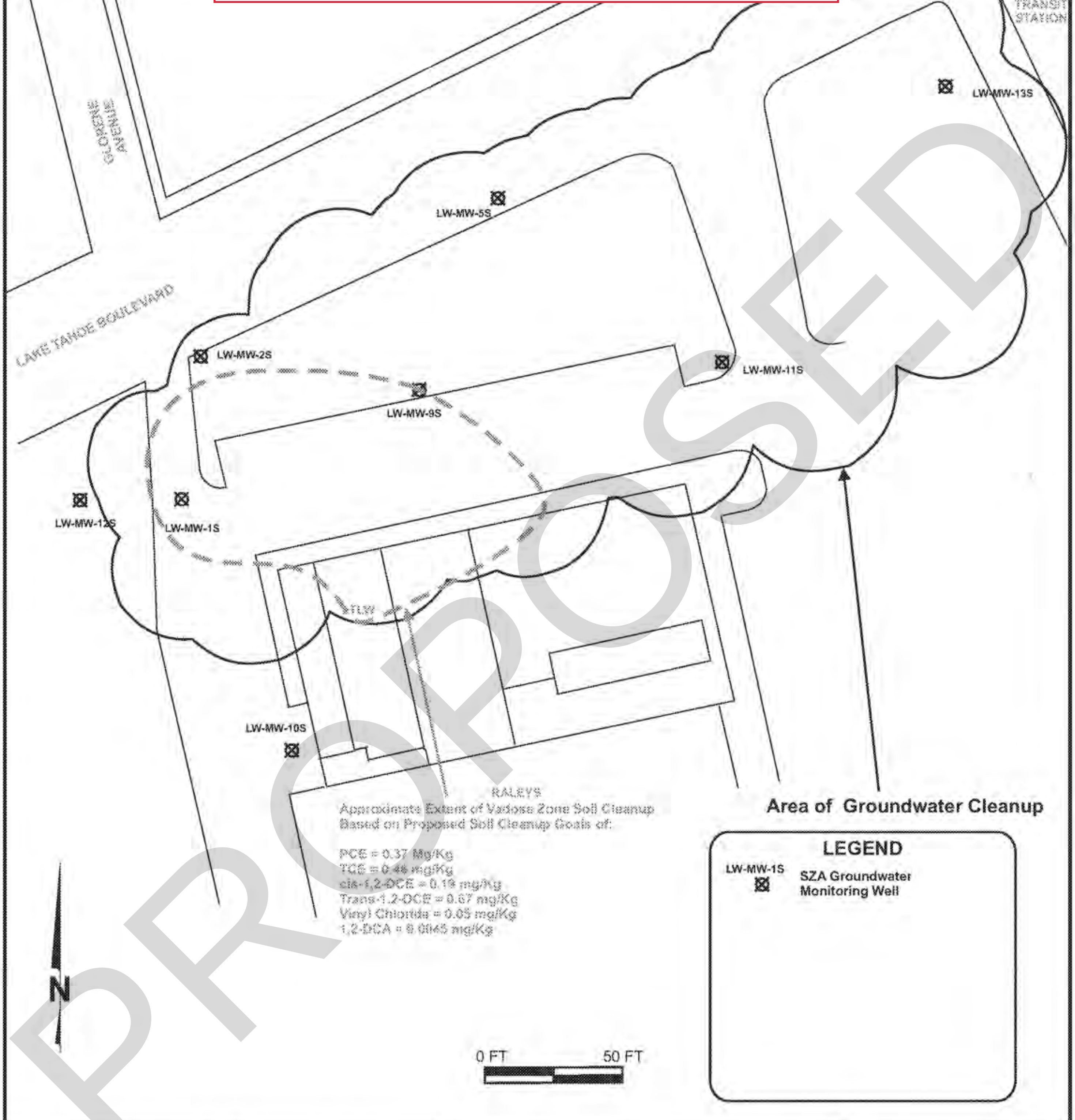
South "Y" PCE Plume
South Lake Tahoe, CA

\\na.aecomnet.com\lfs\AMER\Sacramento-USSCR2\DCS\GIS\GISProjects\60601911_South_Lake_Tahoe_PCE\02_Maps\02_Report_Maps\Regional_Plume_Characterization_Summary_Report\Fig6_Dissolved_PCE_Shallow_GW_Plume.mxd 6/8/2022 mike.snyder SAC

FIGURE 12: REMEDIATION AREA, INTERIM REMEDIAL SYSTEM INSTALLATION/PILOT TESTING REPORT OF FINDINGS AND DRAFT REMEDIAL ACTION PLAN FOR VADOSE ZONE SOIL AND SHALLOW GROUNDWATER CLEANUP (E2C, 2010)

E2C. 12 August 2010. Interim Remedial System Installation/Pilot Testing Report of Findings and Draft Remedial Action Plan for Vadose Zone Soil and Shallow Groundwater Cleanup, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

Cleanup and Abatement Order
Figure 12



E_2C Remediation
5300 Woodmere Dr., Suite 105
Bakersfield, CA 93313
Phone: (661) 831-6906
Fax: (661) 831-6234

LAKE TAHOE LAUNDRY WORKS
1024 LAKE TAHOE BOULEVARD
SOUTH LAKE TAHOE, CALIFORNIA

REMEDIATION AREA

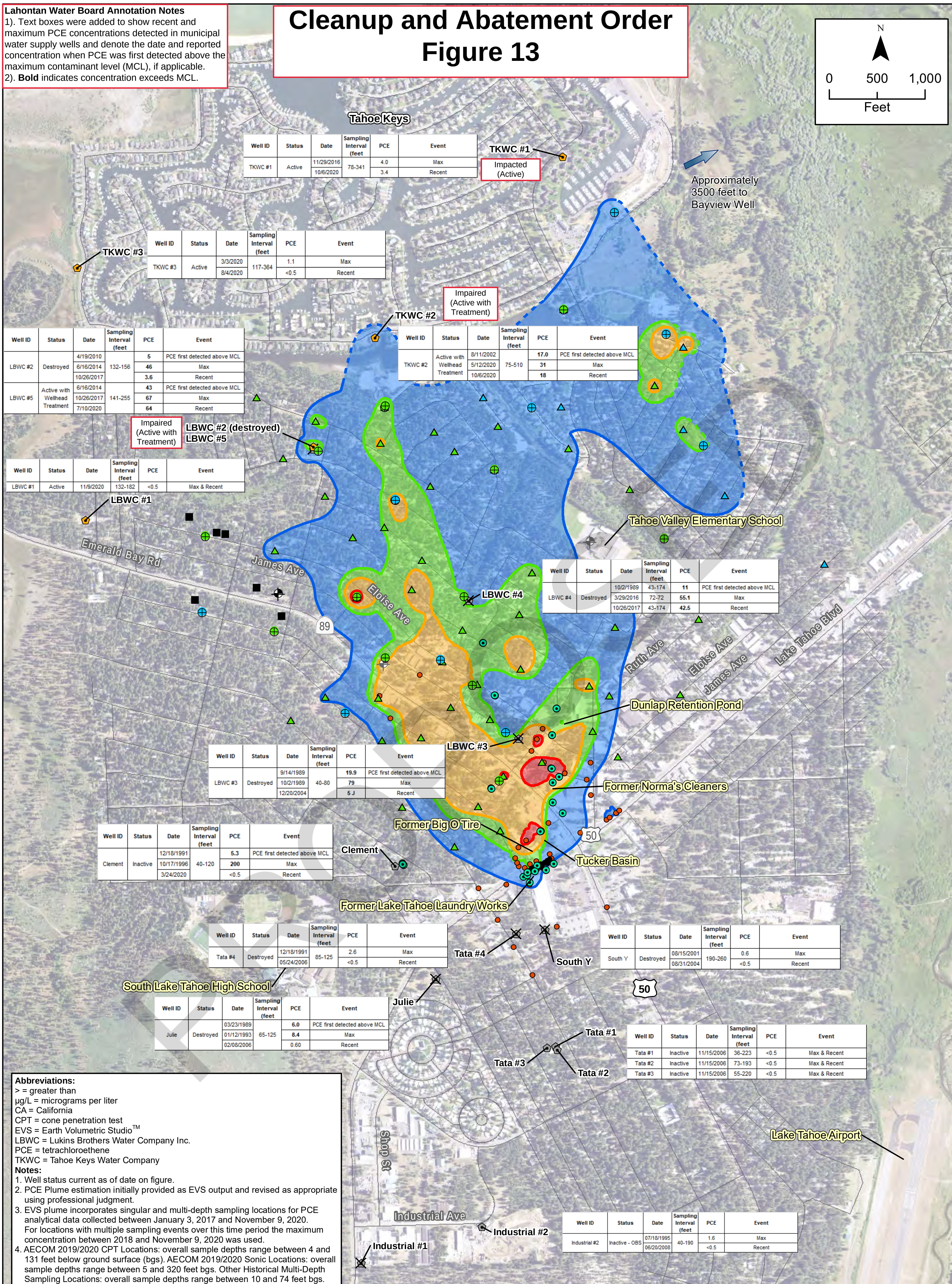
FIGURE 4

FIGURE 13: ANNOTATED DISSOLVED PCE IN GROUNDWATER PLUME MAP WITH RECENT AND MAXIMUM PCE CONCENTRATIONS IN MUNICIPAL SUPPLY WELLS, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH “Y” PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022, ANNOTATED BY LAHONTAN WATER BOARD STAFF)

AECOM. 10 June 2022. Regional Plume Characterization Summary Report: South “Y” PCE Plume 2019-2020 Field Season.

Cleanup and Abatement Order Figure 13

Lahontan Water Board Annotation Notes
1). Text boxes were added to show recent and maximum PCE concentrations detected in municipal water supply wells and denote the date and reported concentration when PCE was first detected above the maximum contaminant level (MCL), if applicable.
2). **Bold** indicates concentration exceeds MCL.



Well ID	Status	Date	Sampling Interval (feet	PCE	Event
TKWC #1	Active	11/29/2016	78-341	4.0	Max
		10/6/2020		3.4	Recent

Well ID	Status	Date	Sampling Interval (feet	PCE	Event
TKWC #3	Active	3/3/2020	117-364	1.1	Max
		8/4/2020		<0.5	Recent

Well ID	Status	Date	Sampling Interval (feet	PCE	Event
TKWC #2	Active with Wellhead Treatment	8/11/2002	75-510	**17.0**	PCE first detected above MCL
		5/12/2020		**31**	Max
		10/6/2020		**18**	Recent

Well ID	Status	Date	Sampling Interval (feet	PCE	Event
LBWC #2	Destroyed	4/19/2010	132-156	**5**	PCE first detected above MCL
		6/16/2014		**46**	Max
		10/26/2017		**3.6**	Recent
LBWC #5	Active with Wellhead Treatment	6/16/2014	141-255	**43**	PCE first detected above MCL
		10/26/2017		**67**	Max
		7/10/2020		**64**	Recent

Well ID	Status	Date	Sampling Interval (feet	PCE	Event
LBWC #1	Active	11/9/2020	132-182	<0.5	Max & Recent

Well ID	Status	Date	Sampling Interval (feet	PCE	Event
LBWC #4	Destroyed	10/2/1989	43-174	**11**	PCE first detected above MCL
		3/29/2016	72-72	**55.1**	Max
		10/26/2017	43-174	**42.5**	Recent

Well ID	Status	Date	Sampling Interval (feet	PCE	Event
LBWC #3	Destroyed	9/14/1989	40-80	**19.9**	PCE first detected above MCL
		10/2/1989		**79**	Max
		12/20/2004		**5 J**	Recent

Well ID	Status	Date	Sampling Interval (feet	PCE	Event
Clement	Inactive	12/18/1991	40-120	**5.3**	PCE first detected above MCL
		10/17/1996		**200**	Max
		3/24/2020		<0.5	Recent

Well ID	Status	Date	Sampling Interval (feet	PCE	Event
Tata #4	Destroyed	12/18/1991	85-125	2.6	Max
		05/24/2006		<0.5	Recent

Well ID	Status	Date	Sampling Interval (feet	PCE	Event
South Y	Destroyed	08/15/2001	190-260	0.6	Max
		08/31/2004		<0.5	Recent

Well ID	Status	Date	Sampling Interval (feet	PCE	Event
Julie	Destroyed	03/23/1989	65-125	**6.0**	PCE first detected above MCL
		01/12/1993		**8.4**	Max
		02/08/2006		0.60	Recent

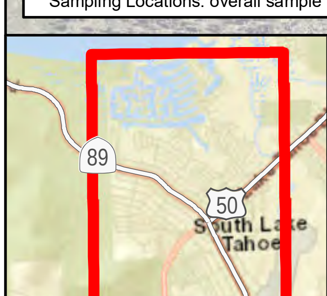
Well ID	Status	Date	Sampling Interval (feet	PCE	Event
Tata #1	Inactive	11/15/2006	36-223	<0.5	Max & Recent
Tata #2	Inactive	11/15/2006	73-193	<0.5	Max & Recent
Tata #3	Inactive	11/15/2006	55-220	<0.5	Max & Recent

Well ID	Status	Date	Sampling Interval (feet	PCE	Event
Industrial #2	Inactive - OBS	07/18/1995	40-190	1.6	Max
		06/20/2008		<0.5	Recent

Abbreviations:
> = greater than
µg/L = micrograms per liter
CA = California
CPT = cone penetration test
EVS = Earth Volumetric Studio™
LBWC = Lukins Brothers Water Company Inc.
PCE = tetrachloroethene
TKWC = Tahoe Keys Water Company

Notes:
1. Well status current as of date on figure.
2. PCE Plume estimation initially provided as EVS output and revised as appropriate using professional judgment.
3. EVS plume incorporates singular and multi-depth sampling locations for PCE analytical data collected between January 3, 2017 and November 9, 2020. For locations with multiple sampling events over this time period the maximum concentration between 2018 and November 9, 2020 was used.
4. AECOM 2019/2020 CPT Locations: overall sample depths range between 4 and 131 feet below ground surface (bgs). AECOM 2019/2020 Sonic Locations: overall sample depths range between 5 and 320 feet bgs. Other Historical Multi-Depth Sampling Locations: overall sample depths range between 10 and 74 feet bgs.

\\na.aecomnet.com\lfs\AMER\Sacramento-USSCR2\DCS\GIS\GIS\Projects\60601911_South_Lake_Tahoe_PCE\02_Maps\02_Report_Maps\Regional_Plume_Characterization_Summary_Report\Fig5_Dissolved_PCE_GW_Plume.mxd 6/8/2022 mike.snyder SAC



Location Type
- AECOM 2019 CPT Location
- AECOM 2019 Sonic Location
- AECOM 2020 CPT Location
- AECOM 2020 Sonic Location
- Active Municipal Supply Well
- Inactive Municipal Supply Well
- Destroyed Municipal Supply Well
- Monitoring Well Location
- Historical Single-Depth Sampling Location
- Historical Multi-Depth Sampling Location
- Active Private Supply Well
- Active Small Community Well
- Inactive Small Community Well

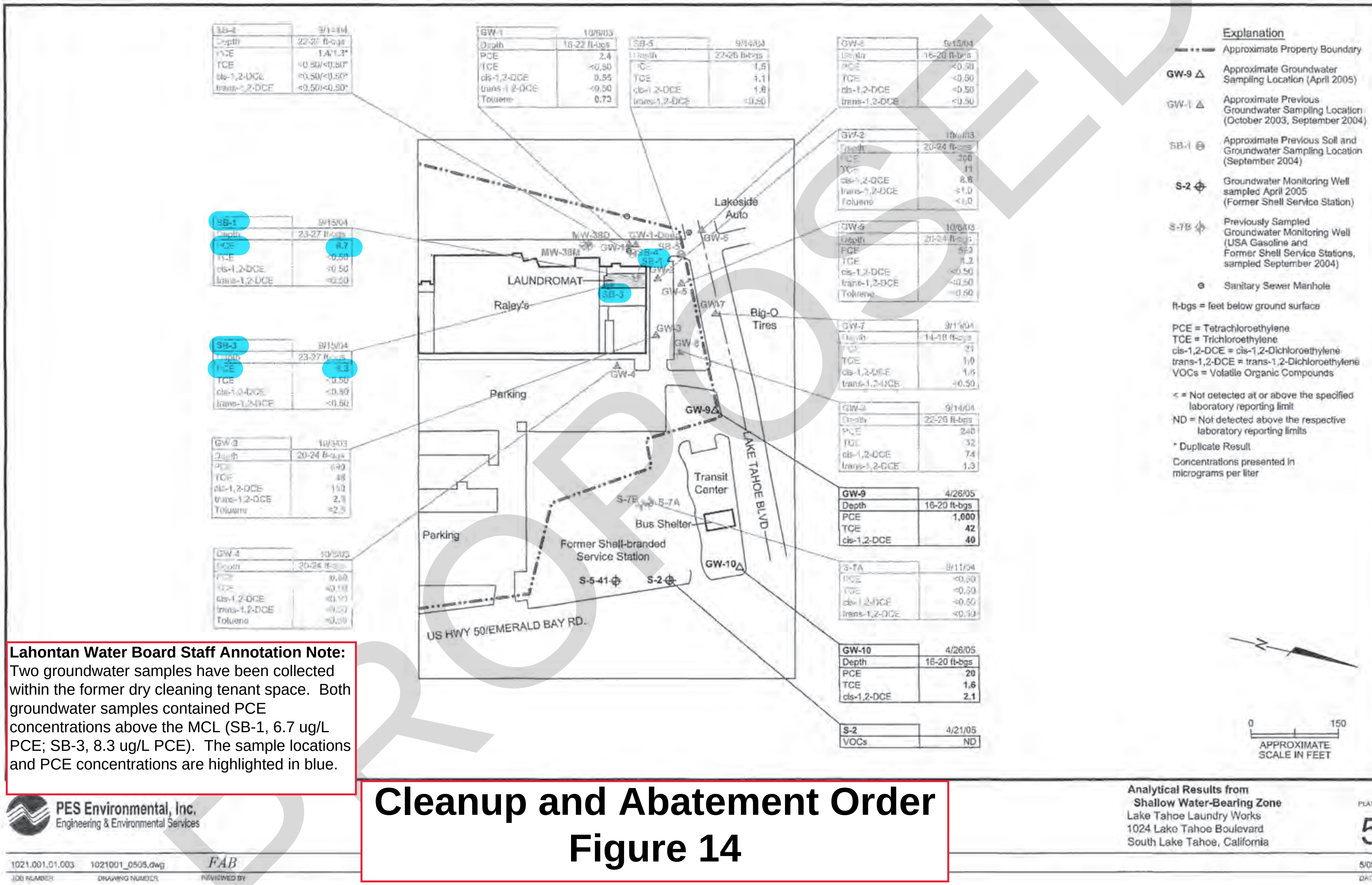
PCE Concentration Contours (dashed where inferred)
- 5 - 50 µg/L
- 50 - 100 µg/L
- 100 - 500 µg/L
- >500 µg/L

Figure 5
Dissolved PCE in Groundwater Plume Map

South "Y" PCE Plume
South Lake Tahoe, CA

FIGURE 14: ANNOTATED ANALYTICAL RESULTS FROM SHALLOW WATER-BEARING ZONE, ADDITIONAL SITE INVESTIGATION RESULTS (PES, 2005)

PES. 27 May 2005. Additional Site Investigation Results, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.



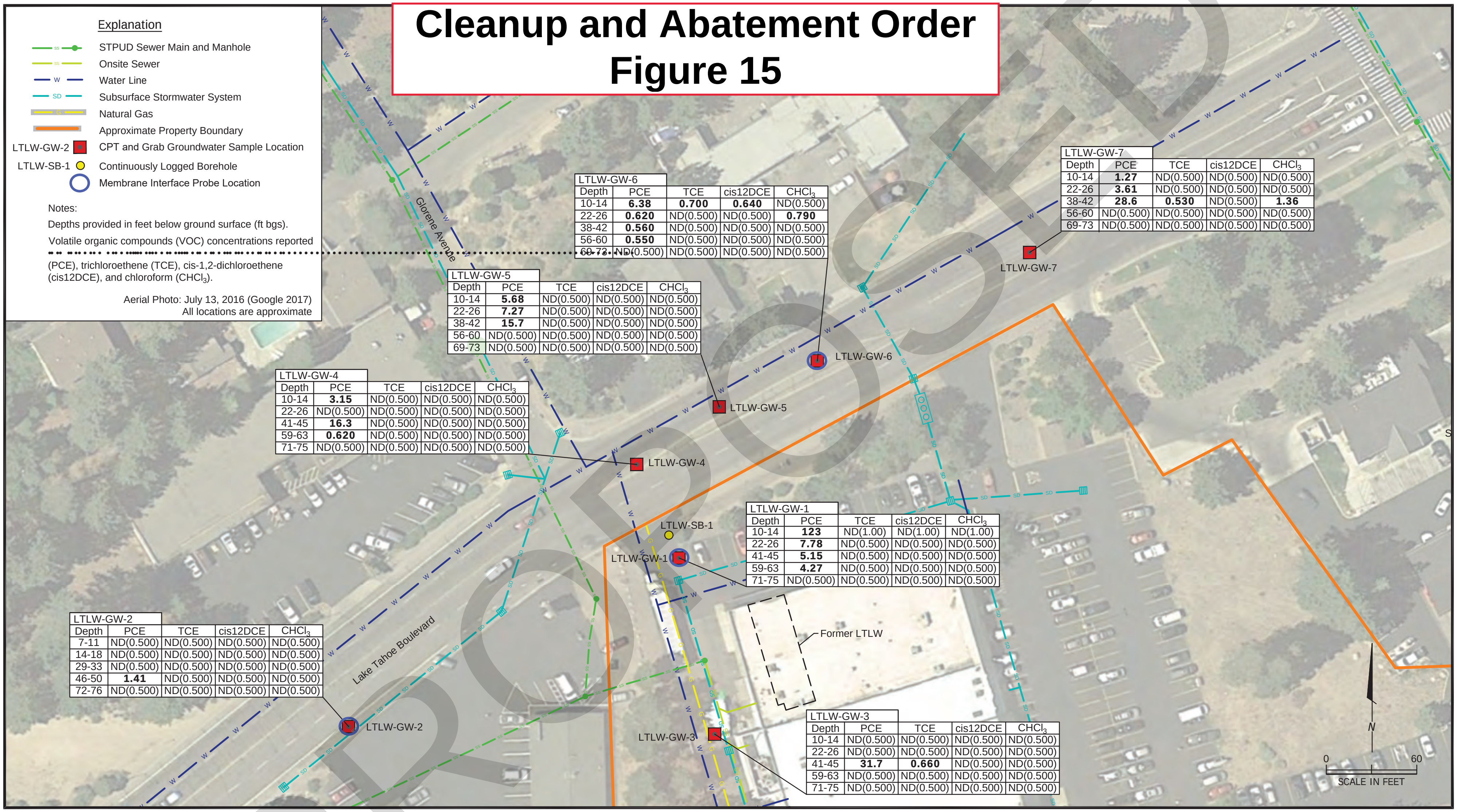
Lahontan Water Board Staff Annotation Note: Two groundwater samples have been collected within the former dry cleaning tenant space. Both groundwater samples contained PCE concentrations above the MCL (SB-1, 6.7 ug/L PCE; SB-3, 8.3 ug/L PCE). The sample locations and PCE concentrations are highlighted in blue.

Cleanup and Abatement Order Figure 14

FIGURE 15: RESULTS OF PHASE I (TRANSECT 1) GROUNDWATER INVESTIGATION, GROUNDWATER INVESTIGATION PLANNING AND PROGRESS REPORT NO. 1 (EKI, 2018B)

EKI. 1 October 2018b. Groundwater Investigation Planning and Progress Report No. 1, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

Cleanup and Abatement Order
Figure 15



LTLW-GW-1

Depth	PCE	TCE	cis12DCE	$CHCl_3$
10-14	**123**	ND(1.00)	ND(1.00)	ND(1.00)
22-26	**7.78**	ND(0.500)	ND(0.500)	ND(0.500)
41-45	**5.15**	ND(0.500)	ND(0.500)	ND(0.500)
59-63	**4.27**	ND(0.500)	ND(0.500)	ND(0.500)
71-75	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)

LTLW-GW-2

Depth	PCE	TCE	cis12DCE	$CHCl_3$
7-11	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)
14-18	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)
29-33	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)
46-50	**1.41**	ND(0.500)	ND(0.500)	ND(0.500)
72-76	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)

LTLW-GW-3

Depth	PCE	TCE	cis12DCE	$CHCl_3$
10-14	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)
22-26	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)
41-45	**31.7**	**0.660**	ND(0.500)	ND(0.500)
59-63	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)
71-75	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)

LTLW-GW-4

Depth	PCE	TCE	cis12DCE	$CHCl_3$
10-14	**3.15**	ND(0.500)	ND(0.500)	ND(0.500)
22-26	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)
41-45	**16.3**	ND(0.500)	ND(0.500)	ND(0.500)
59-63	**0.620**	ND(0.500)	ND(0.500)	ND(0.500)
71-75	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)

LTLW-GW-5

Depth	PCE	TCE	cis12DCE	$CHCl_3$
10-14	**5.68**	ND(0.500)	ND(0.500)	ND(0.500)
22-26	**7.27**	ND(0.500)	ND(0.500)	ND(0.500)
38-42	**15.7**	ND(0.500)	ND(0.500)	ND(0.500)
56-60	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)
69-73	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)

LTLW-GW-6

Depth	PCE	TCE	cis12DCE	$CHCl_3$
10-14	**6.38**	**0.700**	**0.640**	ND(0.500)
22-26	**0.620**	ND(0.500)	ND(0.500)	**0.790**
38-42	**0.560**	ND(0.500)	ND(0.500)	ND(0.500)
56-60	**0.550**	ND(0.500)	ND(0.500)	ND(0.500)
60-73	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)

LTLW-GW-7

Depth	PCE	TCE	cis12DCE	$CHCl_3$
10-14	**1.27**	ND(0.500)	ND(0.500)	ND(0.500)
22-26	**3.61**	ND(0.500)	ND(0.500)	ND(0.500)
38-42	**28.6**	**0.530**	ND(0.500)	**1.36**
56-60	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)
69-73	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)

Results of Phase I (Transect 1) Groundwater Investigation
Data Transmittal Report
Lake Tahoe Laundry Works
South Lake Tahoe, California

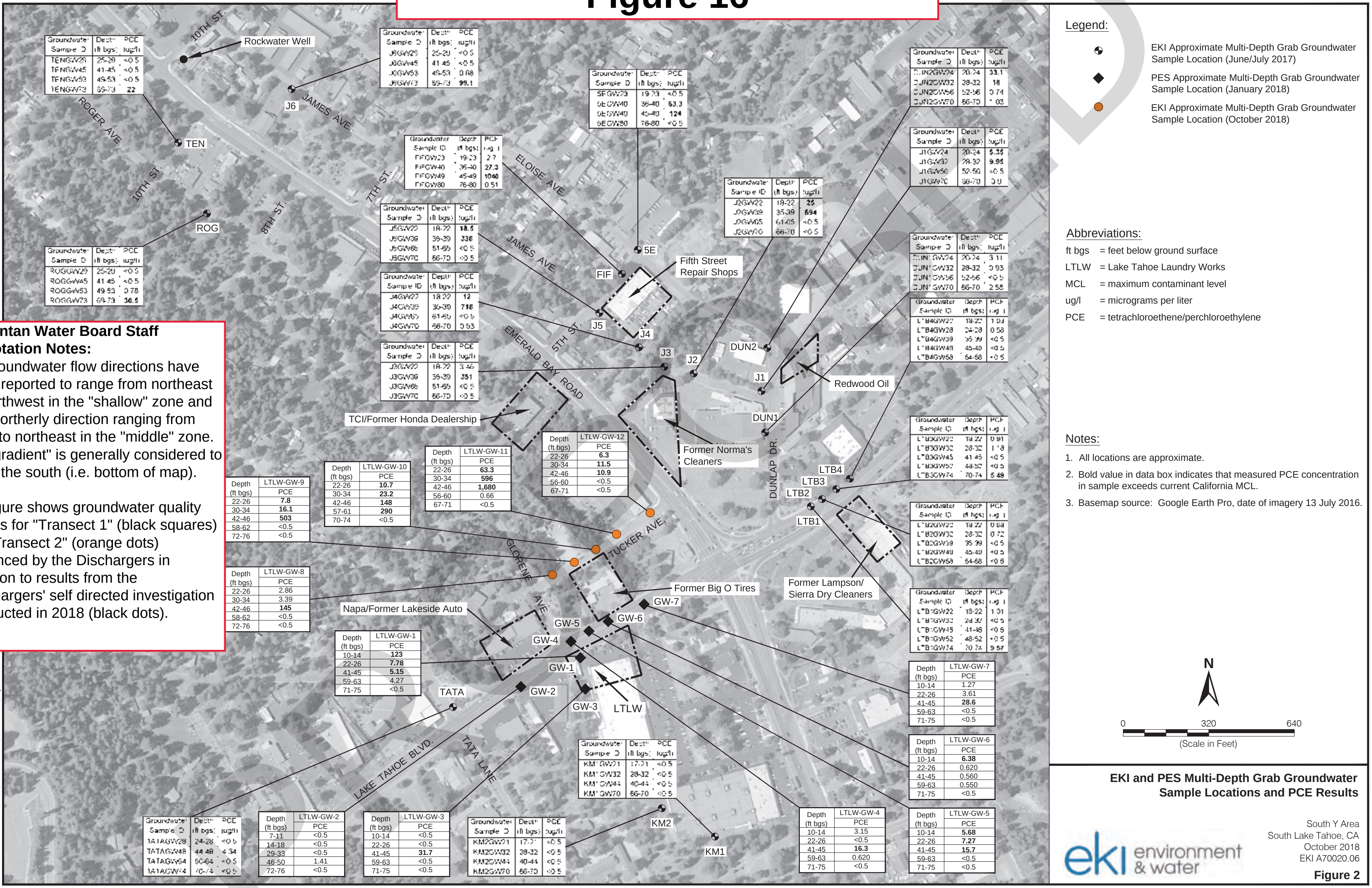
PLATE
1

1021.001.04.003	102100104003_DTR_0,2-3	DRAFT	1/18
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

FIGURE 16: EKI AND PES MULTI-DEPTH GRAB GROUNDWATER SAMPLE LOCATIONS AND PCE RESULTS, GROUNDWATER INVESTIGATION PLANNING AND PROGRESS REPORT NO. 2 REVISED (EKI, 2018C)

EKI. 11 October 2018c. Groundwater Investigation Planning and Progress Report No. 2 REV, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

Cleanup and Abatement Order Figure 16



Lahontan Water Board Staff Annotation Notes:

1) Groundwater flow directions have been reported to range from northeast to northwest in the "shallow" zone and in a northerly direction ranging from west to northeast in the "middle" zone. "Up-gradient" is generally considered to be to the south (i.e. bottom of map).

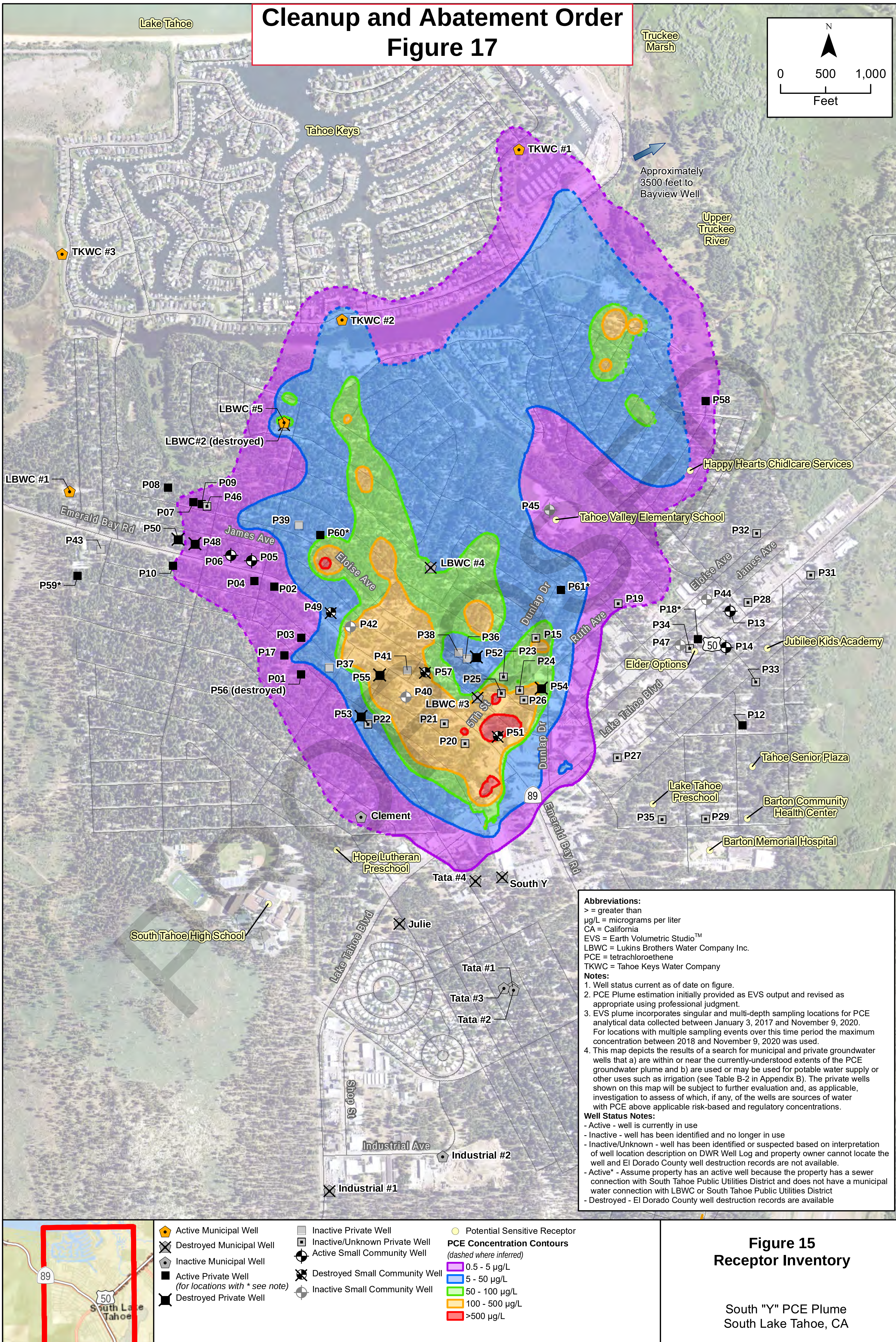
2) Figure shows groundwater quality results for "Transect 1" (black squares) and Transect 2" (orange dots) advanced by the Dischargers in addition to results from the Dischargers' self directed investigation conducted in 2018 (black dots).

20170818.07585091 G:\A70020.02\2017-08\Figure 2

FIGURE 17 RECEPTOR INVENTORY, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH “Y” PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)

AECOM. 10 June 2022. Regional Plume Characterization Summary Report: South “Y” PCE Plume 2019-2020 Field Season.

Cleanup and Abatement Order Figure 17



Abbreviations:
> = greater than
µg/L = micrograms per liter
CA = California
EVS = Earth Volumetric Studio™
LBWC = Lukins Brothers Water Company Inc.
PCE = tetrachloroethene
TKWC = Tahoe Keys Water Company

Notes:
1. Well status current as of date on figure.
2. PCE Plume estimation initially provided as EVS output and revised as appropriate using professional judgment.
3. EVS plume incorporates singular and multi-depth sampling locations for PCE analytical data collected between January 3, 2017 and November 9, 2020. For locations with multiple sampling events over this time period the maximum concentration between 2018 and November 9, 2020 was used.
4. This map depicts the results of a search for municipal and private groundwater wells that a) are within or near the currently-understood extents of the PCE groundwater plume and b) are used or may be used for potable water supply or other uses such as irrigation (see Table B-2 in Appendix B). The private wells shown on this map will be subject to further evaluation and, as applicable, investigation to assess of which, if any, of the wells are sources of water with PCE above applicable risk-based and regulatory concentrations.

Well Status Notes:
- Active - well is currently in use
- Inactive - well has been identified and no longer in use
- Inactive/Unknown - well has been identified or suspected based on interpretation of well location description on DWR Well Log and property owner cannot locate the well and El Dorado County well destruction records are not available.
- Active* - Assume property has an active well because the property has a sewer connection with South Tahoe Public Utilities District and does not have a municipal water connection with LBWC or South Tahoe Public Utilities District
- Destroyed - El Dorado County well destruction records are available

Figure 15
Receptor Inventory

South "Y" PCE Plume
South Lake Tahoe, CA

ATTACHMENTS

ATTACHMENT A: STAFF REPORT SUPPORTING CLEANUP AND ABATEMENT ORDER NO. R6T-2022-(PROPOSED)

STAFF REPORT SUPPORTING
CLEANUP AND ABATEMENT ORDER NO. R6T-2022-(PROPOSED)
REQUIRING

SEVEN SPRINGS LIMITED PARTNERSHIP
FOX CAPITAL MANAGEMENT CORPORATION
BOBBY PAGES, INC
CONNOLLY DEVELOPMENT, INC

TO ASSESS, CLEANUP, AND ABATE
WASTE DISCHARGED TO WATERS OF THE STATE PURSUANT TO CALIFORNIA WATER CODE SECTIONS 13267 AND 13304
FORMER LAKE TAHOE LAUNDRY WORKS

1024 LAKE TAHOE BOULEVARD
SOUTH LAKE TAHOE, CALIFORNIA 96150
AND REGIONAL GROUNDWATER PLUME

SITE CLEANUP PROGRAM CASE NO. T6S043
GEOTRACKER GLOBAL ID NO. SL0601754315

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LIST OF FIGURES (CONTINUED)

LIST OF FIGURES (CONTINUED)

LIST OF TABLES

LIST OF TABLES (CONTINUED)

LIST OF ACRONYMS AND ABBREVIATIONS

1,1-DCE	1,1 dichloroethylene
2017 CAO	2017 Cleanup and Abatement Order
AS/SVE	air sparge/soil vapor extraction
bgs	below ground surface
CAO	Cleanup and Abatement Order
CCTV	Closed Circuit Television
City of Modesto litigation	*City of Modesto v. The Dow Chemical Company* (San Francisco Superior Court, Case Nos. CGC-98-999345/999643)
cis-1,2 DCE	cis-1,2 dichloroethylene
CalEPA	California Environmental Protection Agency
COC	contaminants of concern
CPT	cone penetrometer test
CSDS	Chemical Safety Data Sheet
CSM	Conceptual Site Model
depo.	deposition
DGS	Department of General Services
Dischargers	Seven Springs Limited Partnership, Fox Capital Management Corporation, Bobby Pages, Inc., and Connolly Development, Inc.
District	South Tahoe Public Utility District
DNAPL	dense non-aqueous phase liquid
Dow	The Dow Chemical Company
E_2C	Environmental Engineering Consulting & Remediation, Inc.
e.g.,	exempli gratia which means for example
EKI	EKI Water and Environment, Inc
EPA	Environmental Protection Agency
ESL	environmental screening level
et al.	*et alia*, and others
etc.	*et cetera*, and so on
EVS	Earth Volumetric Studio™
Fox	Fox Capital Management Corporation
GAC	granular activated carbon
GMP	Groundwater Management Plan
gpm	gallons per minute
Ibid.	in the same source
Id.	refers to the immediately preceding cited authority
i.e.,	phrase id est, which means that is
IFI	International Fabricare Institute
Impaired	PCE concentration in supply well has been detected above the MCL
Impacted	PCE concentration in supply well has been detected below MCL
ISR	Investigation Summary Report
Lahontan Water Board	Lahontan Regional Water Quality Control Board

LIST OF ACRONYMS AND ABBREVIATIONS (CONTINUED)

LBWC	Lukins Brothers Water Company
µg/L	micrograms per liter
MCL	California Maximum Contaminant Level
MGD	million gallons per day
mg/kg	milligram per kilogram
MIP	membrane interface probe
MSDS	material data safety sheet
MTBE	methyl tertiary-butyl ether
MUN	municipal and domestic supply
NIOSH	National Institute for Occupational Safety Hazards
Order	Lahontan Water Board's Cleanup and Abatement Order No. R6T-2022-(PROPOSED)
p.	page
pp.	pages
PCE	perchloroethylene, tetrachloroethylene
PES	PES Environmental, Inc
PHG	Public Health Goals
PPG	PPG Industries, Inc.
ppm	parts per million
RCRA	Resource Conservation Recovery Act
SCAP	Site Cleanup Subaccount Program
SCS	small community system
Seven Springs	Seven Springs Limited Partnership
SF Bay Water Board	Regional Water Quality Control Board, San Francisco Region
Site	Former Lake Tahoe Laundry Works Site
State Water Board	State Water Resources Control Board
supply wells	municipal, small community system, and domestic supply wells
TCE	trichloroethylene
Threatened	PCE has not been detected in supply well but may become impacted in the future due to plume migration
TKWC	Tahoe Key Water Company
trans-1,2 DCE	trans-1,2 dichloroethylene
United Artists	*United Artists Theatre Circuit, Inc. v. Regional Water Quality Control Board, San Francisco Region* (2019) 42 Cal.App.5th 851
US EPA	United States Environmental Protection Agency
VOCs	volitale organic comounds
Vol.	volume

STAFF REPORT SUPPORTING
CLEANUP AND ABATEMENT ORDER NO. R6T-2022-(PROPOSED)

1 INTRODUCTION

This Staff Report provides additional details regarding the issuance basis for the Lahontan Regional Water Quality Control Board's (Lahontan Water Board) Cleanup and Abatement Order No. R6T-2022-(PROPOSED) (Order) to Seven Springs Limited Partnership (Seven Springs), Fox Capital Management Corporation (Fox), Bobby Pages, Inc., and Connolly Development, Inc. (collectively referred to Dischargers). There are two main topics addressed herein:

- Application of *United Artists Theatre Circuit, Inc. v. Regional Water Quality Control Board, San Francisco Region (2019) 42 Cal.App.5th 851* (*United Artists*).

This first portion of the Staff Report addresses the El Dorado Superior Court's remand of the 2017 Cleanup and Abatement Order (2017 CAO) as it applied to Fox and the criteria established in *United Artists*. The Staff Report supports identification of Fox as a Discharger, and provides citations to both specific evidence of knowledge in this case as well as publicly available information that demonstrates that a former landowner/landlord should have known that the dry cleaning activities on the Former Lake Tahoe Laundry Works Site (Site) created a reasonable possibility of discharge into waters of the state that could create or threaten to create a condition of pollution or nuisance.

- Technical evaluation supporting the Order's investigation and remediation requirements.

One of the unresolved questions during the adoption of the 2017 CAO was whether the Site (Figure 1 and Figure 2)[1] was connected to the regional perchloroethylene (PCE) plume (Figure 3, Figure 4, and Figure 5)[2]. Although data available at the time supported that conclusion, there were some data gaps that created some doubt. Subsequent investigations, including the State Water Resources Control Board (State Water Board) Site Cleanup Subaccount Program (SCAP) funded investigation and the Dischargers' own investigations, have produced data demonstrating that discharges of waste at the Site have contributed to the regional PCE plume. Following the *United Artists* case discussion, this Staff Report will cover the following technical details:

- Key information supporting the Order's investigation and cleanup and abatement requirements;
- A review of historical and recent investigations supporting the connection between PCE contamination originating from the Site and the regional PCE plume;

[1] Figure 1 displays the Site's general location.
Figure 2 displays the Site's boundaries, existing monitoring well network, and the City of South Lake Tahoe's stormwater detention/infiltration basin (Tucker Basin) which received runoff from the Site and the Former Big O Tire site.
[2] Figure 3 displays the estimated lateral extent of the regional PCE plume.
Figure 4 displays the estimated lateral extent of the regional PCE plume on a vertical cross section map.
Figure 5 displays the estimated vertical extent of the regional PCE plume along the A-A' transect from the Site to the Tahoe Keys.

- An initial screening level evaluation indicating that discharges of PCE have impacted soil, soil gas, and groundwater at concentrations that pose a threat to human health and the environment.
- On-site discharges of PCE have impaired the municipal and domestic supply (MUN) beneficial use of groundwater in the Tahoe Valley South Basin; and
- A summary of remedial action conducted at the Site and the need for additional remedial action to restore the impaired MUN and prevent adverse health effects from potential exposure to PCE in soil, soil gas, and groundwater.

2 DISCHARGER LIABILITY

The 2017 CAO provided a Site owner/operator history, which has been reiterated in this attached Staff Report. None of that history was contested in the petition and litigation process.

Connolly Development, Century Properties Equity Fund 73 and Bobby Pages, Inc., were identified as Dischargers in the 2017 CAO and did not contest liability.

Seven Springs petitioned and then litigated the 2017 CAO. Their status as a Discharger and liability to clean up and abate contamination on or originating from their property has also been established.

2.1 Application of *United Artists*

The El Dorado Superior Court granted Fox's Petition for Writ of Mandate and vacated the 2017 CAO, only as it applied to Fox, and remanded the matter to the Lahontan Water Board to follow the new binding law in *United Artists*. That case found, in particular, that a former landlord can be a discharger:

> [W]e conclude a prior owner may be named in a cleanup order as someone who has "permitted" a discharge if it knew or should have known that a lessee's activity presented a reasonable possibility of discharge into waters of the state of wastes that could create or threaten to create a condition of pollution or nuisance. This standard gives meaning to the word "permitted" without requiring that a regional board show a degree of awareness of risk inconsistent with the Legislature's purpose that the state "exercise its full power and jurisdiction to protect the quality of waters in the state." (§ 13000.) (*United Artists*, supra, 42 Cal.App.5th at 864–865).

> [T]he term "permitted" is expansive enough to encompass a situation where a landlord let a discharge occur by allowing an activity to take place, where the landlord knew or should have known the general activity created a reasonable possibility of discharge. Construing section 13304 to authorize regional boards to name such owners in cleanup orders elevates their interest in mitigating the risk of discharges of wastes by lessees- and landowners are in a position to prevent such discharges. (*Id.* at 851, 888 [emphasis added] [citing *Leslie Salt v. San Francisco*

> *Bay Conservation and Development* Commission (1984) 153 Cal.App.3d 605, 617].)

Under the rule stated in *United Artists*, Fox is a discharger because it knew or should have known – either from publicly available information or observation- that the dry cleaning operations occurring at the Site created a reasonable possibility of discharge that could pollute waters of the State or create a nuisance. The evidence in the record is that Fox had the ability to inspect the dry cleaning operation. Specifically, leases discussed in the Baisley deposition indicate "Right of Entry" clause (Baisley depo., April 13, 2007, at p. AR011462[3] for original lease and Baisley depo., April 13, 2007, at p. AR011474 for reassignment of sublease). The Baisley deposition also indicated Jim Meridith was the Site manager for Fox and had contact with Baisley in the 1980s timeframe (Baisley depo., April 13, 2007, at p. AR011429 and AR011435.) Evidence cited below from the *City of Modesto* litigation includes commonly known sources of discharge, many of which could have been observed during routine inspections of the facility.

The analysis begins with the timeframe when Fox owned the site. Fox did not contest the following facts from the 2017 CAO: The coin operated dry cleaning unit used PCE as a cleaning solvent and was present at the Site from 1972 to about 1979/1980. Century Properties Equity Fund 73 purchased the Site in 1974 and sold it on December 19, 1985. Fox was the general partner of Century Properties Equity Fund 73 and subsequently changed its name to Fox in or around 1986. As Century Properties Equity Fund 73's general partner, it is liable for all obligations of the limited partnership, including the environmental contamination from the operation of the partnership. As a general partner, Fox, formerly Fox & Carskadon Financial Corporation, also had knowledge of and control over the activities occurring at the Site that caused the discharge.

The timeframe of Fox's ownership of, and dry cleaning operations on, the Site approximates the same timeframe under consideration in *United Artists.* United Artists owned the property until 1972 and was the master lessor until 1978]). During the relevant timeframe, 1972-1980, it was well known that PCE was a hazardous substance. The San Francisco Superior Court in *United Artists* case refers to evidence in *City of Modesto* litigation, which documents a fraction of the publicly-available information demonstrating that the risks of PCE have been documented for decades:

> PCE, also known as tetrachloroethylene, is a molecule containing chlorine atoms and carbon atoms. It is also characterized as a 'volatile halogenated organic compound,' a 'halogenated hydrocarbon', a 'chlorinated solvent' or a 'chlorinated hydrocarbon.' As shorthand, it is referred to as 'perc' or PCE. All chlorinated hydrocarbons, like all solvents other than water, are 'toxic.' In 1978, the National Institute for Occupational Safety Hazards (NIOSH) recommended that PCE be

[3] All references to AR#### are to the administrative record in *Seven Springs Limited Partnership v. Lahontan Regional Water Quality Control Board* (El Dorado County Superior Court, Case No. SC20180061), and *Fox Capital Management Corporation v. Lahontan Regional Water Quality Control Board* (El Dorado County Superior Court, Case No. SC20170189).

> handled as if it were a human carcinogen. In 1980 the State of California began regulating PCE as a hazardous waste. (*United Artists, supra*, 42 Cal.App.5th at 861, citing *City of Modesto v. The Dow Chemical Company* (2018) 19 Cal.App.5th 130, 137.)

United Artists establishes that "[t]he record indicates that the dangers of dry-cleaning solvents in general, and PCE in particular, became gradually known during and after UATC's ownership of the Center." (*United Artists,* p. 862). In other words, *United Artists* found that, during the same timeframe that Fox owned and leased out the Site to a coin-operated dry cleaners, the following information was available:

> For example, in 1953, the Supreme Court made reference to a statute addressing "Dry Cleaning Equipment Employing Volatile and Inflammable Solvents." (*State Bd. of Dry Cleaners v. Thrift-D-Lux Cleaners* (1953) 40 Cal.2d 436, 440, 254 P.2d 29.) A 1961 State Fire Marshal permit required the dry cleaner at the Center to take certain precautions against vapors from unidentified dry-cleaning solvents. In 1965 the Legislature set a specific maximum level for PCE vapor in former Health and Safety Code section 13399.5, above which would be considered a " 'dangerous toxic concentration.' " (Stats. 1965, ch. 1781, § 13, p. 3974.) In 1975, the City of Santa Clara adopted an ordinance prohibiting the discharge of a variety of pollutants into the sewer system, including chlorinated hydrocarbons like PCE. In 1977, the Director of the National Institutes of Health published in the Federal Register a summary of a study regarding the "possible carcinogenicity" of PCE. (Report on Bioassay of Tetrachloroethylene for Possible Carcinogenicity, 42 Fed.Reg. 55270–55271 (Oct 3, 1977).) In early 1978, the Environmental Protection Agency (EPA) published a list of toxic pollutants, including PCE. (Publication of Toxic Pollutant List, 43 Fed.Reg. 4108–4109 (Jan. 25, 1978).) In 1980, the EPA recognized PCE as a potential human carcinogen and adopted water quality standards for PCE. (Water Quality Criteria Documents, 45 Fed.Reg. 79318, 79340 (Nov. 28, 1980).) Other state and federal legislative and regulatory developments followed. It is also notable that the 1969 Study Panel Report that resulted in the enactment of the Porter–Cologne Act recognized the danger of chlorinated hydrocarbons. (Study Panel Report, at p. 41.) Specifically, with reference to pesticides, the Report observed, "Extensive studies of the use of pesticides, and particularly of the chlorinated hydrocarbons, have shown alarming residual concentrations in fish and fowl across wide areas of the earth, as well as here in California. Present accumulations of these toxic, nondegradable chemicals are causing heavy mortality to some birds and perhaps in fish. These concentrations do not seem to be dangerous to people in the amounts now found in California, but there is legitimate concern for the future." (Ibid.) (*United Artists, supra,* 42 Cal.App.5th at 861–862.)

As discussed in *United Artist* case, "if an owner, who necessarily profits from the activities of its lessees, knows or should know of such a risk and chooses to lease to an operator of that type of business, the owner may properly be held responsible for any discharges that occur." (*United Artists, supra,* 42 Cal.App.5th at 880.)

2.2 Evidence Regarding PCE Use and Discharges from Dry Cleaning Operations

The evidence in the *City of Modesto* litigation establishes that, during the relevant timeframe, the sources of discharges at dry cleaners included routine drips, leaks and spills as a result of ordinary dry cleaning operations. Discharges occurred on permeable concrete; leaks, drips and spills occurred during deliveries; wastes were discharged to sewers that leaked; and wastes were even intentionally placed on the ground during this timeframe, as instructed by solvent manufacturers' material safety data sheets (MSDS). Testimony from the *City of Modesto* witnesses establishes that these discharges were visible or apparent, and the source of discharges is widely documented in public literature. The following evidence, largely from the *City of Modesto* litigation,[4] corroborates that Fox knew or should have known of the use of PCE and associated risks of discharges at the Site.

2.2.1 PCE Was Commonly Used in Dry Cleaning

1) "Although perchloroethylene was first promoted for dry cleaning in 1933, its use in this field accelerated most rapidly only after 1945 and dry cleaning now [in 1971] represents the chief outlet." (Exhibit 363 at p. 1.)

2) "Perchloroethylene saw significant growth, 10.9% per year, in the 1960's as it became the preferred solvent for dry cleaning." (Exhibit 4 at p. DCMOD11462.)

3) "Growth of perc in the 1960's was rapid due to the expansion of dry cleaning into areas which, due to fire codes, had to use perc. In addition, perc replaced flammable petroleum cleaning solvents in many older plants." (Exhibit 21 at p. DCMOD11111.)

2.2.2 PCE is a Hazardous Substance

1) The 1948 Manufacturing Chemists Association's Chemical Safety Data Sheet (CSDS) noted: "Perchloroethylene is toxic." (Exhibit 14 at p. DCMOD11492, *et seq*.) The CSDS listed numerous toxic effects and health hazards associated with PCE.

2) The Dow Chemical (Dow) literature since at least the 1960's noted that PCE was a particularly hazardous compound and an undesirable pollutant which should not be discharged into sewer systems. (Exhibit 22 and Alexander depo. pp. 12-13.)

3) "The general hazards associated with … chlorinated hydrocarbons are flammability, toxicity, and corrosiveness." (Exhibit 197 at p. KX 00973.)

4) Dow's 1978 *Spot News* acknowledged that a new classification under Resource Conservation Recovery Act (RCRA) would classify "still bottoms and contaminated

[4] Evidence marked with an Exhibit number or referenced as a deposition is from the *City of Modesto* litigation. Due to the voluminous nature of this evidence, these are not attached here, but maintained in Lahontan Water Board files and available upon request.

solvents, which are expected to be classified as hazardous." (Exhibit 3 at p. DCMOD02162. See also Mary McLemore depo., at pp. 25-27 [efforts to classify perchloroethylene as a cancer-producing material] and 30-34.)

5) An article regarding tri- and perchloroethylene noted that "As a rule most of the solvent is recovered by distillation but a certain amount remains in the distillation residues and if such residues or other wastewaters containing the solvents reach the sewers, they settle with sludge, and vapours are released when the sludge is disturbed… The solvents may also damage the sewers, especially by softening and dissolving asphalt coatings and joints" (Exhibit 189 at p. 171.)

2.2.3 Dry Cleaning Equipment Was Known to Leak

Dry cleaner publications circulated by PPG Industries, Inc. (PPG) in 1974, stated that PCE losses may occur from the following dry cleaning equipment:

1) **Loading Door** "gaskets tend become brittle with consequent solvent leaks." (Exhibit 404 at p. PPGMOD00615).

2) **Unions and Couplings** "Vibrations and expansions/contraction due to temperature change can quickly loosen unions and couplings. A leak of only one drop per second can add up to over a gallon of perchlor in a twenty-four hour period." (Exhibit 404 at p. PPGMOD00615.)

3) **Filter Sludge** "Simple draining of filter sludges is not enough to prevent solvent losses. Even after twenty-four hours of draining, filter sludges can still contain as much as 75% perchloroethylene." (Exhibit 404 at p. PPGMOD00615.)

4) **Pumps** "leaks can be drastic" when pumps "malfunction" and are not properly sealed (Exhibit 404 at p. PPGMOD00616.)

A 1970 PPG *Solvents News* publication identified the following sources of dry cleaning equipment leaks:

1) **Machine Door** "The gaskets should be examined closely for breaks, brittleness … (They wear out more frequently than many people realize.) Leaking gaskets can be expensive in terms of solvent waste." (Exhibit 26 at p. PPGMOD00625.)

2) **Unions and Couplings** "Unions and couplings are a common source of solvent waste because of their tendency to loosen due to motor vibration and the expansion and contraction resulting from sudden temperature changes." (Exhibit 26 at p. PPGMOD00625.)

3) **Valve Stems** "Valve packing fails from time to time. Each valve stem and connection should be checked periodically to prevent leakage from these points." (Exhibit 26 at p. PPGMOD00625.)

Dow's 1958 *Spot News* publication identified numerous sources of leaks in equipment, including leaking unions and couplings, leaking valves, leaking pump, leaks in sump and storage tanks, water separator, leaking couplings, and sloppy transfer of PCE from the drum. (Exhibit 13 and Dow Exhibit 110A.) The 1958 *Spot News* specifically identified the following sources of leaks:

1) "We find, however, that the average dry cleaner never thinks of keeping a spare gasket for this door on hand. He will wait until the gasket is completely ruined, and solvent is running down the front of the machine before he even orders one." (Exhibit 13 at p. DCMOD04601A.)

2) "Unions and couplings on lines can be tight one week and losing solvent the next week. Vibration from the machine, or expansion and contraction from heat or cold, will occasionally cause these joins to loosen. It is very possible for a slow leak to develop, and solvent can actually be dripping to the floor…." (Exhibit 13 at p. DCMOD04601A.)

3) "The solvent in the filter is under pressure and a little carelessness here can cause appreciable losses." (Exhibit 13 at p. DCMOD04602A.)

4) With respect to pumps, "the perchloroethylene is under pressure and will leak through the smallest gasket imperfection." (Exhibit 13 at p. DCMOD04602A.)

5) "A sump tank or storage tank, after it has been in service for a long time, can conceivably develop some very slow leaks that will be hard to detect." … "A pin hole leak may go for a long time before being discovered." (Exhibit 13 at p. DCMOD04603A.)

2.2.4 Insubstantial Leaks Were Known to Cause Significant Discharges

Publicly-available documentation indicated that seemingly minor leaks led to significant discharges and were anticipated as part of dry cleaning activities:

1) "Even if solvent drips from only one area at the rate of one drop a second, the loss can add up to as much as half a gallon of solvent in an eight hour operating day." (Dow, 1973, Exhibit 88 at p. DCMOD01929 [Dow, 1973 *Spot News*].)

2) In 1978, US EPA described the "presumptive norm" related to "existing perchloroethylene dry cleaning systems," including information relevant to coin-operated dry cleaning facilities. (United States Environmental Protection Agency (US EPA, 1978 at pp. 1-1 and 2-1.) "There are two types of losses from both point and fugitive emission sources – liquid and vapor. Liquid losses can be detected by sight – the brown residue associated with a solvent leak is familiar to any operator. One solvent manufacturing company [footnote omitted] estimates that a leak of one drip per second equates to as much as four litres of solvent per day." (*Id.* at p. 3-6.)

3) "If one drop of PCE forms at a leak point in dry cleaning equipment every two seconds and drops into a gallon container, that container will be at least half full at the end of a twenty-four hour period. This means that nearly seven pounds of perchloroethylene has been lost from one small leak! Still more will have evaporated on the way to the container. The more leaks you have, the more solvent you lose; the faster the leak, the faster the loss." (Exhibit 93 at p. PPGMOD00415 [PPG Cleaner Cleaner Bulletin].)

4) A 1974 PPG Bulletin, "Operating tips for better dry cleaning," established that perc losses from dry cleaning equipment are most likely to occur as follows: (1) gaskets become brittle with perc leaks; (2) vibrations and expansions/contraction due to temperature change in the dry cleaning equipment quickly loosen unions and couplings, causing leak. (Exhibit 404 at p. PPGMOD00615 - PPGMOD00616.)

5) Notably, the State Water Board has indicated that liability is appropriate in similar circumstances of "small" discharges of solvents: "As we noted earlier, given the very low action levels for these chemicals, today we are concerned with any discharge." (State Water Board Order No. 86-16, (*Stinnes-Western*) at n.4). In this case, even small spills of PCE led to high concentrations in the subsurface.

6) "Concentrations of the chlorinated solvents in ground water vary quite widely. Background levels are measures in the low part-per-billion range, while contaminated water may contain higher concentrations. These higher concentrations were generally caused by past spillage or indiscriminate waste disposal, sometimes over a period of many years." (Exhibit 12 at p. OCC-MO 0006007.)

2.2.5 Dry Cleaners Disposed of Separator Wastewater Down Drains or on the Ground

The following evidence (witness testimony, equipment manuals, dry cleaning publications) documents that it was common knowledge that dry cleaners in the relevant timeframe disposed of separator wastewater down drains or on the ground:

1) Dry cleaners in the 1960s, 1970s, and 1980s were advised to dispose of separator wastewater into sewers and such disposal was a common practice in that timeframe. (Beard depo., at pp. 11, 12, 13, 14; and 91.)

2) Dow published *Spot News*, a newsletter providing technical and safety advice, which Dow intended to be distributed directly to retail dry cleaners. (Mary McLemore depo., at p. 18.) "*Spot News* is a publication that we (Dow) use to communicate to drycleaners." (Hickman depo., September 18, 2002, at p. 10.)

3) Dow's 1958 *Spot News* advised dry cleaners that "[i]f the separator is to function properly, a free unimpeded water flow to the drain is also necessary" (Exhibit 13 at p. DCMOD4602A.).

4) It was common knowledge that water from the separator often contained PCE because Dow's 1958 *Spot News* advised dry cleaners to avoid back pressure in the line used to reclaim solvent from the separator. (Exhibit 13 at p. DCMOD4603A). Otherwise, it is possible "to actually back the solvent up to the point where it would be discharged through the water overflow and into your drain." (*Ibid*. See also Mary McLemore depo., at p 21.).

5) The Dow 1978 *Spot News* states that [Groundwater] "contamination occurred over the years as a result of previously acceptable practices of solvent disposal, loosely called 'dumping' or 'back lot burial." (Exhibit 3 at p. DCMOD02162.)

6) The May 1970 PPG *Solvents News* advised dry cleaners, "For optimum efficiency, the water in the separator ought to have easy access to a drain." (Exhibit 26 at p. PPGMOD00625.)

7) The 1970 PPG *Solvents News* noted that this direct connection with the sewer can cause solvent discharges: "Recovered solvent should be transferred directly into a storage tank, not into an open vessel. It is essential that no back pressure develop in this container. Such pressure can cause solvent to back up, discharge through the water overflow and into the sewer." (Exhibit 26 at p. PPGMOD00626.)

8) The PPG Cleaner Cleaner Bulletin 9 stated "A plugged solvent line will cause solvent to flow through the water outlet to the sewer…." (Exhibit 28 at p. D00577.)

9) A 1965 Class 2143 Martin Perclor-Saver Tumbler instruction manual advised dry cleaners: "A flexible hose for water drainage is furnished … and is arranged to discharge into a pail or open sewer." (Exhibit 48 at p. TE008818 and Exhibit 49 at p. WC20928.)

10) R.R. Street's installation instructions for the Puritan 4000-SRS Solvent Recovery System advised dry cleaners to "install ½" pipe from waste water outlet of the water separator downward so that waste water may be caught in a pail or other suitable container." (Exhibit 102 at p. 3.)

11) Dow's Summer 1973 *Spot New* stated "The lines … which lead to and from the separator are generally quite small in diameter and can be easily plugged with rust or lint… solvent is lost via the water outlet" (Exhibit 88 at p. DCMOD01930.)

12) As late as 1982, the International Fabricare Institute (IFI) provided information to dry cleaners *acknowledging* discharges in standard operations of their equipment:

   a. "Take an average size perc plant, doing about 1,500 pounds of cleaning per week. If this plant has water separators on their recovery unit and still or cooker – but has no vapor adsorber – that plant will discharge approximately 0.7 of a fluid ounce of perc per year in separator water." (Exhibit 31 at p. RRS2 8741.)

b. "If the same plant also has a vapor adsorber, the average total discharge will be about 6 fluid ounces of perc per year in separator water – about one-twentieth of a gallon." (Exhibit 31 at p. RRS2 8741.)

13) Disposal into sewers continued even after the passage of hazardous waste disposal laws in the 1980s. A 1990 IFI Bulletin stated that "The majority of drycleaning plants dispose of separator water to sanitary sewer systems. Other plants discharge water to septic systems, and in a few cases, directly outside… With either sanitary or septic systems, blockage of the perc outlet from a water separator can go virtually unnoticed. Large quantities of perc are then sent directly down the drain." (Exhibit 277 at p. RRS 012964.)

2.2.6 Dry Cleaners Were Instructed to Bury Discharges or Allow Them to Evaporate on the Ground

The following evidence (publications from two of the major PCE dry cleaning solvent manufacturers), from during or preceding the relevant timeframe, documents that it was common knowledge that PCE spills routinely occurred and waste was discharged on the ground:

1) Dow intended the MSDS to provide its customers with information about the proper disposal of its products, including disposal of perchloroethylene by dry cleaners (Dombrowski depo., April 16, 2002, at pp. 86-87 and Hickman depo., September 18, 2002, at pp. 10-11].)

2) Dow's 1971 MSDS instructed dry cleaners to deal with "small spills" by "mop[ping] up, wip[ing] up, or soak[ing] up with absorbent material using proper protective equipment. Bury." The Disposal Method was "Bury away from water supply or allow solvent to evaporate to atmosphere at a safe distance from inhabited buildings." (Exhibit 54 at p. DCMOD00389.)

3) Dow's 1973 (Exhibit 55 at p. DCMOD00390), 1975 (Exhibit 16 at p. DCMOD01045), 1976 (Exhibit 17 at p. DCMOD00394 and Exhibit 18 at p. DCMOD01047), and 1977 (Exhibit 19 at p. VWR0235-VWR0236) MSDSs advised dry cleaners that "[i]n some cases it (PCE) can be transported to an area where it can be placed on the ground..."

4) Dow's 1979 MSDS still instructed retail dry cleaners (under the section on "waste disposal") that small amounts of spilled perc "may be transported to an area where it can be placed on the ground and allowed to evaporate safely." (Exhibit 57 at p. DCMOD00414.)

5) Dow MSDSs from 1973-1979 all referred to CSDS SD-24 of the Manufacturing Chemists' Association. The 1948 (Exhibit 14 at p. DCMOD11495) and 1971 (Exhibit 15 at p. DCMOD11514) CSDS for PCE from the Manufacturing Chemists' Association, Inc. (SD-24) advised that "Rags or mops wet with perchloroethylene

should be placed in closed containers or in a safe place out of doors until they can be dried safely."

6) PPG's 1971 (Exhibit 24 at p. PPG0053) and 1977 (Exhibit 25 at. p. PPG0055) MSDSs for PCE advised dry cleaners to evaporate small quantities "in remote area" or in response to spills, "Collect spilled material on sawdust or vermiculite and sweep into closed containers for disposal. Then flush area with plenty of water…."

7) Consistent with these MSDS instructions and known PCE disposal, spill response, and handling practices at the time the dry cleaner was in operation at the Site and detection of PCE in shallow soil (Figure 6)[5] at Site, it is likely spent PCE was buried at the Site or allowed to evaporate on the ground.

2.2.7 Dry Cleaners Disposed of PCE Waste on the Ground or in the Trash

The following evidence documents that it was common knowledge that dry cleaners in the relevant timeframe disposed of PCE waste on the ground or in the trash:

1) Dow's 1978 *Spot News* acknowledged that "residual solvent...can be potentially lost in filter muck and still bottom waste." (Exhibit 3 at p. DCMOD02162.)

2) A national dry cleaner publication, *National Clothesline*, dated 1988 had an ad stating, "Slam dunk in the Dumpster: Throw cartridges in the trash." (Exhibit 46 at p. VICDAL03246.)

3) *The Study of Potential for Groundwater Contamination from Past Dry Cleaner Operations in Santa Clara County* stated "In the past, undrained spent filter cartridges were collected and stored outside the dry cleaner's service door. PCE drained directly to the ground or the pavement." (Mohr, 2007 at p. 23.) Each filter cartridge can contain up to 1 gallon of PCE (Mohr, 2007 at p. 23.)

4) Thomas Opsahl's, an employee with R.R. Street since 1967 (Opsahl depo., at p. 9), was the manager of technical field services (a position that involves assisting and communicating with sales representatives) and testified that:

   a. Separator wastewater contained up to 150 parts per million (ppm) of PCE was routinely dumped into drains by dry cleaners (Opsahl depo., at pp. 107-109.)

   b. Dry cleaner filter cartridges containing PCE were disposed of in dumpsters (Opsahl depo., at pp. 110-112.)

   c. Waste generated by stills created a muck which contained PCE that was routinely thrown into dumpsters (Opsahl depo., pp. at 112-113.)

[5] Figure 6 shows the areal extent of soil contamination reported at and above 4 feet bgs in 2004 and 2005.

d. Mr. Opsahl learned that PCE had been found in drinking water produced by wells. All R.R. Street sales representatives were informed in October 1983 that perchloroethylene was found in water produced by wells in Bedford, New York (Opsahl depo., at pp. 49-50).

e. Mr. Opsahl was then asked:

> Q. When you first learned that perc was found in drinking water, did you have any understanding of how it may have gotten there in view of the practices you observed at dry cleaners you visited? [Objections.]
>
> A. My explanation was **obviously somehow it went down the drain and went down the sewer lines, or wherever it went, and ended up in the ground, going through the ground in whatever passages it takes through the ground into a well**.
>
> Q. A matter of common sense? [Objections.]
>
> A. **Common sense, logic. I mean, what more do you want me to say on that?**..." (Opsahl depo., at pp. 117-118.)

5) A 1974 PPG advertisement bore the title, "How much of your solvent is going out the back door?" The ad went on to note that "Good usable solvent … is being thrown out with filter sludge and still residues… More solvent could be going … [d]own the drain due to poor reclamation." (Exhibit 27 at PPGMOD00585.)

2.2.8 Ordinary Dry Cleaning Practices Led to Discharges

Site investigators determined that spills/discharges associated with PCE delivery, handling, and disposal practices are the likely sources of waste discharge at the Site. The following witness testimony and evidence from the PCE manufacturers from the *City of Modesto* litigation supports the conclusion that it was common knowledge that discharges occurred from ordinary dry cleaning operations in the relevant timeframe.

2.2.8.1 Nance Testimony

1) John Nance was in the dry cleaning business from approximately 1946-1984. (Nance depo., at pp.18, 70, and 179.)

2) He testified that while he was in the dry cleaning business, it was common practice in the industry to dispose of separator wastewater in the sewer. (Nance depo., at p.46.)

2.2.8.2 Caulk Testimony

1) Lyman Caulk has worked in the dry cleaning industry since approximately 1945. (Caulk depo., at pp.18, 35, 38, 52, and 53.)

2) Lyman Caulk testified regarding his website, a page of which is devoted to problems in the field of dry cleaning. (Caulk depo., pp. 176 and 177.)

3) His testimony was based upon physically going into many dry cleaning stores. (Caulk depo., at p. 178.)

4) Lyman Caulk testified that **perc spills or leaks occur at the gaskets and seals of dry cleaning machines because** "perc will penetrate that." (Caulk depo., at p. 193.)

5) He further testified that changes in temperature, when solvent is heated in the dry cleaning process, the "gasket materials ... absorb more. And if you don't go around and torque them, tighten them up, ... **you have a tendency for perc to drip.**" (Caulk depo., at p.196.)

2.2.8.3 Ramirez Testimony

1) Gus Ramirez worked in the dry cleaning business between 1968 and 1989. (Ramirez depo., December 3, 2002, at p. 61.)

2) He testified that during this time, **it was "common practice" at the cleaners he worked at and other cleaners to dispose of muck or diatomaceous earth in the trash**. (Ramirez depo., December 4, 2002, at p. 386.)

3) Gus Ramirez testified that a **hose ruptured** on the dry cleaning equipment at One Hour Martinizing **as a result of vibration** from the machine causing a crack on the hose, resulting in a spill. (Ramirez depo., December 4, 2002, at pp. 365-366.)

4) He further testified that vibration is generated by dry cleaning equipment **as a result of its normal operation and use.** (Ramirez depo., December 4, 2002, at p. 367.)

2.2.8.4 Bakker Testimony

1) Pete Bakker has worked in the dry cleaning industry since 1965 (Bakker depo., at p. 21) and was "raised in the dry-cleaning business." (*Id*. at pp.16-17.)

2) He further testified that he was "aware of the **practice of dry cleaners to route wastewater down the drain as their disposal method."** (Bakker depo., at pp.17-18.)

2.2.8.5 Wooten Testimony

1) Bobbie Wooten owned Crossroads Cleaners from 1972 to 1985. (Wooten depo., at p. 10.)

2) He testified that it was his understanding "that it was the **practice in the dry cleaning industry to drain perc wastewater into the sewer** during the time that that occurred at Crossroads Cleaners." (Wooten depo., at p. 56.)

3) He testified that PCE was transferred by a hose from a delivery truck to a 55-gallon storage drum located in the store. (Wooten depo., at pp. 66-67.)

4) He testified that he observed a spill that occurred at the metering end of PCE delivery truck that resulted in a release of PCE to the ground. (Wooten depo., at p. 76.)

2.2.8.6 Suggett Testimony

1) Bill Suggett started working in the dry cleaning industry sometime in the mid 1960s. (Suggett depo., at p.17.)

2) His occupation has entailed owning dry cleaners and installing dry cleaning equipment for dry cleaners. (Suggett depo., at p. 57.)

3) Mr. Suggett testified as follows:

    a. "Q. What was your understanding that dry cleaners did with regard to disposing of perc waste before new regulations came into effect? [Objections.]

    b. THE WITNESS: Well, because of the expenses involved, perchlor is expensive, and **all the waste** that went out was dried as thoroughly as could be, and normally they went in, perfectly legally, into **the dumpster** or wherever for the disposal people to take away, the trash people." (Suggett depo., at p.42.)

4) He further testified as follows:

    a. "Q. Are you aware of there being an issue today of the potential to contaminate soil or groundwater through dry cleaner operations? ...

    b. THE WITNESS: Well, you have to understand, as a layman, that perchloroethylene has been used by the Armed Services, it's been used in garages, it's been used in printers ink and **everybody pitched it out the back door**. So I you know, it's only recently that it's come down to be so closely controlled, and prior to that time, when somebody go through it with, it didn't matter what kind of business you had, you pitched it out the back door." (Suggett depo., at p. 36.)

2.2.8.7 Landon Testimony

1) Steven Landon, President of Washex (Landon depo., at p. 17), testified that dry cleaner's waste disposal practices were observable:

a. "Q: And is that your basis for believing that Dow Chemical had knowledge that separator wastewater was being disposed of into a bucket and then into a drain?

b. A: Well, **this was industry practice. If they ever went into a dry cleaning plant, they saw it."** (Landon depo., at pp. 155-156.)

2.2.9 PCE Manufacturer Evidence of Routine Operations Causing Contamination

1) The Dow's 1978 *Spot News* admitted that **"[c]ontamination occurred over the years as a result of previously acceptable practices of solvent disposal, loosely called 'dumping' or 'back lot burial.'"** (Exhibit 3 at p. DCMOD02162 and Mary McLemore depo., at pp. 39-40.)

2) Dow admitted that if a dry cleaner had a concrete floor without a coating, the dry cleaner "They'll have less time to clean up a spill [of perc], more chance for perc to go through a crack or through the concrete." (Hickman depo., September 18, 2002, at pp. 104-105.)

2.3 Risks of Groundwater Contamination from Chemical Disposal on the Ground or in Sewers Were Well Known in the Relevant Timeframe

Knowledge of the risks of contamination from chemicals disposed of on the ground or into sewers predated operations at the Site by decades or even centuries.

Professor Craig Colten specializes in the progression of knowledge of developments in groundwater hydrology and documented early knowledge of the connection between industrial practices and groundwater contamination. His 1991 article, *A Historical Perspective on Industrial Wastes and Groundwater Contamination* describes nineteenth century literature, in both Europe and the United States, demonstrating the known scientific processes connecting surface water contamination and groundwater contamination, including concepts of pressure, flow and medium, permeability and transmissivity. (Craig E. Colten, *A Historical Perspective on Industrial Wastes and Groundwater Contamination,* 81 Geographical Review No. 2 (April 1991) (*Historical Perspectives*), at pp. 216-218.) In short, the concept that pollutants discharged on the surface could migrate to groundwater was appreciated decades or even centuries before operations at the Site. In another article, Professor Colten establishes that "public policy addressed groundwater at the level of common law, statutory law, and agency regulation by the first decade of the century." (Craig E. Colten, *Groundwater and the Law: Records v. Recollections*, 20 The Public Historian 2 (Spring 1998), at p. 34.)

> The earliest ground water contaminant recognized by scientists was human sewage (for a historical perspective, see Mallman and Mack, 1961). In 1854, a London doctor linked a cholera epidemic to contamination of drinking water supplies—including a neighborhood water well—with sewage. In Switzerland in 1872, a typhoid epidemic was traced to sewage contamination in a river that recharged a town's ground water supply. In 1909, two German researchers ran a

> series of controlled tests to investigate bacterial migration underground and established that bacteria could travel with ground water from one well to another.
>
> As chemical use increased after World War II, isolated reports of chemical contamination of ground water appeared. In 1947, for example, hexavalent chromium from electroplating wastes was discovered in a Michigan ground water supply after homeowners complained that their water had turned yellow (Deutsch, 1961). Relatively common after the war were complaints of foaming ground water—from contamination with the surfactant alkyl benzene sulfonate that had leaked from septic systems. Recognizing the increasing potential for chemical contamination of ground water, the American Water Works Association created a task force of scientists, the Task Group on Underground Waste Disposal and Control, to study the problem in the early 1950s. (National Academies Press, *Alternatives for Groundwater Cleanup* (1994), pp. 23-24.)

The need for controlling waste discharges was acknowledged almost a hundred years ago:

> Both [government and industry] promoted and sought solutions to waste disposal problems from an early date. Manufacturers moved slowly to adopt existing technology to minimize recognized liabilities, while outwardly proclaiming the problem was under control. Before 1930 a deliberate course of action was understandable given existing volumes of hazardous wastes and manufacturers' ability to find isolated sites and thereby avoid creating a public nuisance. Between 1930 and 1948, industry took a clearly articulated position, but failed to provide waste treatment in accord with its pronouncements and its ability.

(Craig E. Colten, *Creating a Toxic Landscape: Chemical Waste Disposal Policy and Practice, 1900-1960*, 18 Environmental History Review 1 (*Creating a Toxic Landscape*), at p. 86.)

A review of the of the scientific literature on the motion of subsurface fluids, and sanitary engineering indicates that by 1940 knowledge was sufficient to argue against surface discharges of harmful fluids. (*Ibid.*)

In response to groundwater pollution incidents, in the 1940s, California officials discussed the need for legislation pertaining directly to groundwater, recognizing the importance of groundwater for domestic supplies and “the fact that Californians ‘lived on the roof of our reservoir.’” (Craig E. Colten, *Groundwater and the Law: Records v. Recollections*, 20 The Public Historian 2, at p. 35.)

A 1942 article in the Sewage Works Journal recognized the prevalence of sewage pollution tied to industrial establishments, and noted the connection of industries to tainted public water supplies, “impart[ing] to them chemical constituents, difficult if not impossible to remove by known and practical methods of water treatment.” (Milton Adams, et al., *Industrial Wastes, the Law and Pollution Control Programs*, 14 Sewage Works Journal 3 (May 1942), pp. 653-665.)

"By the late 1940s, hydrologists, geochemists, public health officials, and industrial waste management experts all were familiar with harmful consequences of toxic effluents." (*Creating a Toxic Landscape*, p. 104.) Water consumers and waste disposers all recognized that chemical wastes could travel substantial distances with the general groundwater flow without significant dilution or degradation. (*Id.* at p. 105.)

"[D]uring the 1940's, 1950's and 1960's, segments of the scientific and technical communities … were cognizant of toxic properties of industrial waste, reached a consensus about the link between the degradation of groundwater and land-based hazardous waste disposal, and issued strong advisories about threats to soil and groundwater." (Halina Szejnwald Brown et al., *Reassessing the History of U.S. Hazardous Waste Disposal Policy – Problem Definition, Expert Knowledge and Agenda-Setting* (June 1997). See also *id.* at pp. 252-259 [The Body of Knowledge about Industrial Waste Disposal].)

The risk of groundwater contamination was well known in the 1960s and 1970s, receiving widespread public recognition in the popular press as a result of Rachel Carson's 1962 work *Silent Spring* and incidents like the Love Canal case, in which President Carter declared an emergency in Niagara Falls, New York, relating to risks to human health linked to groundwater contamination.

Some would argue, based upon the passage of significant environmental legislation in the 1970s, that the impacts of industrial chemical use was unknown prior to that timeframe. Professor Craig Colten debunks this notion in his article *Groundwater and the Law: Records v. Recollections*:

> Far from being newly discovered in the 1970s, groundwater pollution and the need to protect groundwater were well-established concerns in the public health, sanitary engineering, and industrial communities. Several developments during the 1940s and 1960s fostered additional attention to this topic … Numerous groundwater pollution incidents during the 1940s and 1950s directed public agency attention to finding and abating the contaminant sources. (Craig E. Colten, *Groundwater and the Law: Records v. Recollections*, 20 The Public Historian 2, pp. 25-44, a p. 31.)

2.4 Site Specific Dry Cleaner Operations, Including PCE Deliveries and Transfers, Posed Potential for Groundwater Contamination

Mary Louise Baisley (former operator at the Site starting in 1976) testified in her deposition in the Seven Springs litigation that PCE was delivered to the Site via truck delivery in front of store and filling of a drum by an accordion-type hose. (Baisley, depo., April 13, 2007, at AR11379-AR11380.) Testimony further describes the drum location and solvent transfer process, indicating a hand pump was used to transfer solvent between the drum and dry cleaning equipment. (Baisley, depo., April 13, 2007, AR11367-AR11371.)

The highest concentrations of PCE on the Site in soil, soil gas, and groundwater are located in the delivery truck parking area (i.e., northern parking lot area) and around stormwater conveyance inlets (i.e., area where surface spill would naturally flow) and PCE is also present beneath the concrete slab, indicating that discharges occurred in the solvent transfer processes (Figure 6 and Figure 9)[6]. Detections of PCE in soil extended from the front entrance approximately 80 feet northwest, 80 feet north, and 80 feet northeast into the northern parking area. The detection of these maximum PCE concentrations in an area identified by the Dischargers as the primary staging area for solvent delivery and removal directly links a portion of the PCE contamination detected on-Site to discharges that occurred during solvent delivery, handling, and removal.

The data are consistent with evidence described above regarding the prevalence of PCE in dry cleaning, the routine nature of spills during operations, including deliveries and transfers of PCE from trucks to storage to dry cleaning machines. Spills/discharges are commonly associated with solvent delivery and handling, especially when it involves hose delivery of the solvent to the facility via tanker truck. Those discharges would have been observable to any bystander.

2.5 Fox's Own Leases Establish Fox's Control

As discussed above, the relevant leases in this case allowed for right of entry. The leases establish that the landlords had the ability to inspect, knew the premises were used for dry cleaning and required compliance with the laws:

Relevant portions of the May 24, 1972 lease between Prupas and Connolly include:

1) Section 7 "Use of Premises"- "dry cleaning and coin-operated laundry and purposes related thereto." (Baisley, depo., April 13, 2007, at AR11460.)
2) Section 7.5 "Compliance with Laws" (Baisley, depo., April 13, 2007, at AR11460.)
3) Section 15 "Right of Entry" clause (Baisley, depo., April 13, 2007, at AR11462.)

Subsequent subleases (Hakkansson Oct 72) and reassignment of sublease (Hakansson to Baisley) indicated original lease terms remained operable. (Baisley, depo., April 13, 2007, at AR011474.)

The evidence establishes that Fox knew that dry cleaning occurred on the Site and gave Fox the right to inspect, enter and control the property. Fox also had the ability to terminate the lease in the event of violations of the law. Discharges causing impacts to

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[6] Figure 6 and Figure 9 displays the areal extent of soil analytical results from historical investigations conducted at the Site between 2004 and 2005.
Figure 6 identifies soil sample locations where PCE was detected at and above 4 feet bgs.
Figure 9 identifies soil sample locations with PCE concentrations above leaching to groundwater ESL. The distribution of PCE concentrations in soil indicates unauthorized releases occurred beneath the tenant space and in the northern parking lot delivery area near stormwater conveyance system drop inlet in the northwest portion of the property.

groundwater have been prohibited since at least 1872. Water Code Section 13304 does not limit liability for acts that were in violation of existing laws or regulations, even if they occurred before 1981. Since 1872, California law has prohibited the creation of a public nuisance. In 1925, water pollution was held by the courts to be a public nuisance. And since 1949, California law has expressly prohibited any discharge of waste in a manner which results in pollution, contamination, or nuisance. Additionally, the Porter–Cologne Water Quality Act of 1969 defined nuisance and authorized regional water boards to order cleanup. The definition included anything that: (1) is injurious to health, or is indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property; (2) affects at the same time an entire community or neighborhood, or any considerable number of persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal; and (3) occurs during or as a result of the treatment of wastes. Discharges of hazardous waste polluting groundwater meet the definition of a nuisance under the 1969 law, impacting or threatening to impact groundwater, and adversely impacting an entire community. (See *Newhall Land & Farming Co. v. Superior Court* (1993) 19 Cal.App.4th 334, 341 [Pollution of water constitutes a public nuisance; water pollution occurring as a result of discharges of wastes is a public nuisance per se] [citations omitted]. See also *San Diego Unified Port District v. Monsanto Company* (S.D. Cal., Mar. 26, 2020, No. 15-CV-578-WQH-AGS) 2020 WL 1479071, at *8 [same].)

2.6 Local Ordinances in South Lake Tahoe

In addition, numerous ordinances existed at the time of dry cleaning operations at the Site, that evidence the common knowledge that industrial wastes, such as separator wastewater or cooling water from dry cleaning stills, could contain dangerous substances, requiring restrictions:

2.6.1 South Tahoe Public Utility District

As far back as 1956, the South Tahoe Public Utility District (the District) Ordinances contained the following prohibitions:

1) Ordinance No. 24, § 7.1 "No … cooling water or unpolluted industrial process wastes shall be permitted to enter any sanitary sewer by any device or method whatsoever." (District, 1955 at p. 8.)

2) Ordinance No. 24, § 7.2 "[N]o person shall discharge or cause to be discharged any of the following described waters or wastes to any public sewer:

    a. (g) Any waters or wastes containing a toxic or poisonous substance in sufficient quantity to … constitute a hazard to human or animals, or create any hazard in the receiving waters of the sewage treatment plant.

    b. (i) Any … substance capable of creating a public nuisance." (District, 1955 at p. 9)

2.6.2 City of South Lake Tahoe

1) 1966-050 Procedures for Nuisance Abatement:

    a. Ordinance No. 50, § 7-1-2 Nuisances affecting Health – the following are hereby declared to be nuisances affecting health: (g) "the pollution of any public or private well or cistern, stream, lake, canal or body of water by sewage, creamery, or industrials wastes or other substances." (City of South Lake Tahoe, 1966 at pp. 1-2.)

2) 1970-249 Service and Planned Industrial Processes:

    a. Ordinance No. 249, Sec. 32-19.2 (9) Performance standards for "Liquid or solid wastes- No discharge at any point of any material of such nature or temperature as can contaminate any water supply….or otherwise cause the emission of dangerous or offensive elements, shall be permitted." City of South Lake Tahoe, 1970 at p. 8.)

2.7 Fox Is Appropriately Identified as Discharger

As a final point, Water Code section 13304 requires only evidence of "knowledge of the risk of a discharge on the part of a prior owner named in a cleanup order;" there is *no* requirement of evidence "that the prior owner knew or should have known of a specific discharge or dangerous condition." (*United Artists*, *supra*, 42 Cal.App.5th at 869.) The evidence overwhelmingly supports the conclusion that Fox knew or should have known of the risk of a discharge from dry cleaning operations at the Site.

3 SUMMARY OF KEY INFORMATION SUPPORTING ORDER REQUIREMENTS

3.1 Conceptual Site Model

A Conceptual Site Model (CSM) for the Site provides a comprehensive description of PCE (including PCE degradation compounds) discharge scenario(s), regional PCE plume geology and hydrogeology, on-Site and off-Site preferential pathways (e.g., stormwater conveyance system, sanitary sewer, other subsurface utilities), potential vertical conduits (e.g., water supply wells and monitoring wells), distribution of wastes in soil, soil vapor, and groundwater, exposure pathways associated with the regional PCE plume, sensitive receptors (i.e., schools, day cares, nursing homes, etc.) and water supply wells. It is intended to function as a roadmap that identifies the nature and extent of PCE in soil, soil vapor, and groundwater originating from the Site contributing to the regional PCE plume and potential and known impacts of contamination to human and ecological receptors

Proper Site characterization is necessary because an incomplete CSM leads to an incomplete understanding of the Site and may result in developing and implementing remedial solutions that are not effective. Despite numerous orders requiring the delineation of the lateral and vertical extent of PCE in soil, soil gas, and groundwater originating from the Site, the extent of contamination has never been determined by the Dischargers.

The Dischargers' current CSM is flawed and not supported by the available data. The CSM needs to be updated to acknowledge the following:

1) Off-Site migration of PCE contamination has occurred in the past and is still occurring.
2) Although there may be additional PCE sources contributing to the regional PCE plume, the regional PCE plume originates at the Site (the Dischargers could not identify any sources upgradient of the Site) and continues without interruption to the Tahoe Keys (and potentially beyond),
3) On-Site discharge of PCE has migrated off-Site through groundwater and has impaired and continues to impair the MUN beneficial use of groundwater.
4) PCE contaminant transport from the Site has occurred since the initial release that occurred over 40 years ago and is still occurring despite the operation of the existing air sparging/soil vapor extraction (AS/SVE) system since 2010.
5) The existing AS/SVE system does not remediate the full extent of soil, soil vapor and groundwater contamination currently identified on-Site which has resulted in the discharge of PCE off-Site.
6) An effective vertical barrier to inhibit downward migration of contamination through groundwater does not exist on-Site and there is a hydraulic connection between shallow and middle water bearing zones.
7) The Site unquestionably meets all the Dischargers' PCE source criteria defined in the March 19, 2018 *Amended Groundwater Investigation Work Plan* and is a PCE source contributing to the regional PCE plume.

3.2 Soil

PCE and PCE degradation by-products have been detected in soil at the Site below the water table at concentrations that exceed San Francisco Bay Regional Water Quality Control Board (SF Bay Water Board) leaching to groundwater Environmental Screening Levels (ESL) indicating ongoing threats to human health and the environment and that residual PCE is present and continues to discharge, unabated, into groundwater, impairing the MUN beneficial use. Prior to on-Site remediation, PCE was detected in soil above the leaching to groundwater ESL in the vicinity of the PCE delivery truck parking area with the highest concentrations detected near the Site's western stormwater conveyance system drop inlet (Figure 9) [7] and during on-Site and off-Site dual-zone

[7]Figure 9 shows the location of the stormwater conveyance drop inlet relative to 2004 and 2005 soil analytical results and highlights PCE concentrations above the leaching to groundwater ESL (0.08 mg/kg). During these investigations, the maximum PCE concentration of 12 mg/kg in soil was detected in soil boring SB-8, located adjacent to the Site's western stormwater conveyance drop inlet in the northern parking lot.

groundwater monitoring well installations (Figure 10)[8]. Following on-Site remediation, PCE has been reported above the leaching to groundwater ESL in stormwater conveyance system utility trench backfills (Figure 11)[9].

3.3 Soil Vapor

PCE concentrations in soil vapor exceed the vapor intrusion to indoor air ESL (Figure 12 and Table 1)[10] and additional investigations are required to evaluate the potential human health threats via the vapor intrusion pathway (i.e., to indoor air) from the remaining on-Site source areas (e.g., northern parking lot, dry cleaning unit [DCU] area), off-Site source areas (e.g., Tucker Basin, the City of South Lake Tahoe's stormwater conveyance system's infiltration/detention basin located immediately downstream of the Site) and off-Site shallow groundwater (e.g., the regional PCE plume).

3.4 Groundwater

PCE has been found in groundwater in every downgradient step-out groundwater sample boring advanced from the Site's property boundary to the regional PCE plume. Specifically, groundwater data collected during the SCAP Regional PCE Plume Investigation provided an initial estimate of the regional PCE plume's geometry and showed the Site at the head of a contiguous plume, that extends, without interruption, to the Tahoe Keys to the north and to depths of up to approximately 240 feet below ground surface (bgs) (Figure 3, Figure 4, and Figure 5, Table 2, Table 3, and Table 4).[11] Groundwater investigations conducted to date have demonstrated:

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[8]Figure 10 shows the locations of on-Site and off-Site monitoring well pairs installed in 2008, associated soil analytical results reported during installation activities, and stormwater conveyance drop inlet locations. The maximum PCE concentrations of 410 mg/kg and 532 mg/kg (reported as duplicate results) in soil were detected in soil boring for monitoring well pair LTLW-MW-1S/D, located adjacent to the Site's western stormwater conveyance system drop inlet in the northern parking lot.

[9]Figure 11 shows the location of soil sample PSG-9/SD3, where the leaching to groundwater ESL (0.08 mg/kg) is exceeded in stormwater conveyance system utility backfill.

[10]Figure 12 shows the location of the soil vapor probe monitoring well network. Recent and maximum concentrations of PCE and TCE in soil vapor are shown in annotated tables. PCE concentrations above 67 µg/m^3 exceed the vapor intrusion to indoor air ESL.
Table 1 provides a summary of the soil vapor analytical data collected at the Site. Concentrations above 67 µg/m^3 exceed the vapor intrusion to indoor air ESL.

[11]Figure 3 displays the estimated lateral extent of the regional PCE plume.
Figure 4 displays the estimated lateral extent of the regional PCE plume and the location of cross section line A-A' that extends from the Site north to Tahoe Keys.
Figure 5 displays the vertical extent of the regional PCE plume originating from the Site north to impaired municipal supply well TKWC #2.
Table 2 presents a summary of groundwater analytical data collected from the monitoring well network at the Site.
Figure 3, Figure 4, and Figure 5 were developed by AECOM using Earth Volumetric Studio™(EVS) modeling software utilizing groundwater analytical and lithological data from the various site specific and regional investigations conducted between January 2017 and November 2020.

1) On-Site operations have resulted in PCE contamination of on- and off-Site groundwater (Figure 3, Figure 4, and Figure 5, Table 2, Table 3, and Table 4).[12]

2) PCE contamination in groundwater originating from the Site is detected continuously, without interruption, to the regional PCE plume (Figure 13).[13]

3) Off-Site contaminant migration in groundwater occurred prior to the AS/SVE remediation system operation in 2010 (Figure 14, Figure 15, Figure 16, and Figure 17).[14]

4) Off-Site migration in groundwater occurred in the past under the influence of natural groundwater hydraulic gradients (groundwater flows from higher groundwater elevations to lower groundwater elevations) and maximum drawdowns (lowering of groundwater elevation in the vicinity of a water supply well due to groundwater pumping) created by municipal supply wells (Figure 4, Figure 5, Figure 18, and Figure 19).[15.]

5) Off-Site contaminant migration in groundwater continued despite AS/SVE system operation because the remediation system was only designed to address on-Site vadose zone (unsaturated zone above groundwater) soil and shallow groundwater

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Table 3 presents a summary of groundwater analytical data collected during the SCAP Regional PCE Plume Investigation used in the EVS modeling software.
Table 4 presents a summary of groundwater analytical data from investigations conducted between January 2017 and November 2020 used in the EVS modeling software.
Table 5 presents a summary of lithologic data from investigations conducted between January 2017 and November 2020 used in the EVS modeling software.

[12] Id.

[13] Figure 13 displays the results of the two transects advanced by Dischargers' consultants stepping out from the Site to the regional PCE plume. The initial transect was advanced along Lake Tahoe Boulevard (black squares) and the second transect was advanced along Tucker Avenue (orange dots). No additional transects have been advanced by the Dischargers' consultants stepping out to the north of Tucker Avenue. Also included in the figure are the results of the Dischargers' Self-Directed Additional Source Area Investigation conducted in June/July 2017.

[14] Figure 14 and Figure 15 provide illustration of shallow (Figure 14) and middle zone (Figure 15) groundwater analytical results from investigations conducted from 2001 to 2008 at the Site and nearby sites.
Figure 16 and Figure 17 provide illustration of shallow (Figure 16) and middle zone (Figure 17) groundwater analytical results from on and off-Site monitoring well installations in 2008.

[15] Figure 4 displays the estimated lateral extent of the PCE plume and the location of cross section line A-A' that extends from the Site north to Tahoe Keys.
Figure 5 displays the vertical extent of the regional PCE plume originating from the Site north to impaired municipal supply well TKWC #2.
Figure 18 displays the lateral extent of the regional PCE plume relative to the location of municipal supply wells. Historic and recent PCE concentrations reported in the municipal supply wells, the sampling dates, PCE concentration and date when PCE was first detected above the MCL (if applicable), and the well's current operational status are shown in annotated tables.
Figure 19 shows a groundwater contour map for the general area. Municipal supply wells are identified. Generalized regional groundwater flow directions can be inferred from the contours shown (i.e., groundwater flow direction is perpendicular to contours, and flows from higher elevation contours to lower elevation contours).

and does not contain or control the full extent of known contamination (Figure 20 and Figure 15, Figure 21, and Table 6)[16;]

6) Off-Site contaminant migration in groundwater continues despite AS/SVE operation (Figure 5 and Figure 22)[17]; and

7) Off-Site contaminant migration in groundwater will not cease until additional remedial technologies are implemented.

8) PCE contamination in groundwater has impaired and continues to impair the MUN beneficial use.

9) PCE contamination originating from the Site in shallow groundwater exceeds the vapor intrusion ESL and poses a threat to human health.

3.5 Preferential Pathways[18]

Preferential pathways investigations have confirmed 1) On-Site discharges of waste to the stormwater conveyance system and sanitary sewer (Figure 7 and Figure 11)[19], and

[16] Figure 20 shows the approximate extent of the soil and shallow groundwater cleanup areas at the Site. Figure 15 shows the estimated extent of PCE contamination in middle zone groundwater for investigations conducted between 2001 and 2008 (i.e., prior to remedial implementation). The known extent of groundwater contamination in middle zone groundwater that was not directly addressed by remedial actions implemented for the soil and shallow groundwater cleanup areas can be inferred from Figure 20 and Figure 15.
Figure 21 shows the location of remediation system components for the soil and shallow groundwater cleanup area at the Site.
Table 6 provides a summary of the AS/SVE remediation system well construction details. Details illustrate the air sparge and soil vapor extraction wells at the Site were installed to a maximum depth 30 feet bgs and not designed to remediate middle or deeper zone groundwater.

[17] Figure 5 displays the vertical extent of the regional PCE plume originating from the Site north to impaired municipal supply well TKWC #2.
Figure 22 shows the distribution of PCE contamination in shallow and middle zone groundwater within the on- and off-Site monitoring well network installed for the Site. Historic and recent PCE concentrations reported in the on- and off-Site monitoring well network and the sampling dates are shown in annotated tables.

[18] "Preferential pathway" is a term used to define conditions permitting migration of DNAPL, vapor and groundwater, through soil and groundwater at a faster rate than would be expected through naturally occurring, undisturbed soil. Examples include manmade (utility corridors, wells, drainage systems, and building features such as sumps, floor drains, vent pipes, etc.) and non-manmade (bedrock fractures, sand lenses, rodent tunnels, etc.) pathways.

[19]Figure 7 shows the location and magnitude of PCE in soil gas within, and adjacent, to stormwater conveyance and sanitary sewer backfill. The on-Site stormwater conveyance system (including inlet locations), which conveys stormwater to Tucker Basin, is illustrated on the figure. The highest PCE concentrations in soil gas were reported adjacent to the Site's stormwater conveyance system's drop inlet and the stormwater conveyance system's discharge location in Tucker Basin. These locations are annotated on the figure.
Figure 11 shows the location and magnitude of PCE in soil within, and adjacent to, the stormwater conveyance system utility trench backfill, and sanitary sewer utility trench backfill. Detections of PCE in utility trench backfill soil indicates that the unauthorized discharge of waste occurred.

2) off-Site transport of PCE via the stormwater conveyance system to Tucker Basin (Figure 7 and Figure 11)[20].

The Dischargers' investigations conducted to date have not resulted in a complete delineation of the extent and magnitude of PCE contamination within and beyond Tucker Basin. The preferential pathway investigations remain incomplete and do not adequately evaluate the potential threat to human health from waste discharged to the environment via preferential pathways.

3.6 Impacts to Receptors

Supply wells are currently impaired, impacted, or threatened by the regional PCE plume (Figure 18)[21]. Additional evaluation of the potential threat to human health is necessary for certain supply wells and others require immediate mitigation measures (e.g., replacement water or wellhead treatment).

3.7 Additional Source Evaluation

Dischargers have inconsistently applied potential PCE source identification criteria (applying one set of criteria to their Site and a different set of criteria to other potential sources), resulting in an incomplete and inaccurate analysis of potential contributors to the regional PCE plume. The CSM needs to be updated using consistent source identification criteria that is acceptable to the Lahontan Water Board.

Dischargers have been unable to identify any additional significant source areas (e.g., areas with high PCE concentrations in shallow groundwater) contributing to the regional PCE plume (Figure 13 and Figure 23)[22]. Lahontan Water Board staff acknowledge that potential additional PCE sources may be contributing PCE mass to the regional PCE plume. The investigation and evaluation of potential additional PCE sources contributing to the regional PCE plume is ongoing, including work currently being performed by other dischargers. The Order provides flexibility to add additional dischargers as more information becomes available, but issuance should not be delayed, in view of the known impacts and urgent need to protect and remediate groundwater drinking water supply.

3.8 SCAP Regional PCE Plume Investigation

Groundwater data collected during the SCAP Regional PCE Plume Investigation in 2019-2020 provide a reconnaissance level snapshot of the lateral and vertical extent of the

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[20] Id.
[21] Figure 18 displays the lateral extent of the regional PCE plume relative to the location of municipal supply wells. Historic and recent PCE concentrations reported in the municipal supply wells, the sampling dates, PCE concentrations, date when PCE was first detected above the MCL (if applicable), and the well's current operational status are shown.
[22] Figure 13 shows the results of the Dischargers' Self Directed Source Area Investigation conducted in June/July 2017.
Figure 23 shows properties with reported or suspected PCE use relative to groundwater sample locations advanced by the Dischargers since 2017.

regional PCE plume, including the area between the Site and impacted receptors where data gaps (i.e., a lack of groundwater data) previously existed (Figure 3, Figure 4, and Figure 5)[23]. Investigation results confirm the Site's connection to the regional PCE plume and provides a general estimate of the lateral and vertical extent of the regional PCE plume. To date, the Site vicinity (i.e., the South Y area including the former Big O Tires and former Hurzel Properties, LLC sites) is the only identified portion of the regional PCE plume with high concentrations (PCE detections above 500 micrograms per liter [µg/L]) of PCE contamination in shallow groundwater (Figure 3, Table 3 and Table 4)[24].

Shallow groundwater data collected in the vicinity of, and downstream of, the Site's stormwater conveyance system indicated PCE impacts and potential contaminant transport via the stormwater conveyance system and PCE in shallow groundwater has been detected at concentrations above commercial/industrial and residential groundwater vapor intrusion ESLs (Figure 24)[25].

Source area, receptor, and vertical conduit inventories were developed to support SCAP Regional PCE Plume Investigation tasks. These initial efforts were undertaken to evaluate potential risks and source areas within the regional PCE plume area and to assist in the identification of interim and final remedial action measures. Data collected during these efforts will be useful in developing future investigation and remediation plans.

The source area inventory was developed to identify potential source(s) contributing to the regional PCE plume (Table 7 and Figure 25)[26]. The prioritization of the source area inventory relative to the estimated regional PCE plume in shallow groundwater (Figure

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[23] Figure 3 displays the estimated lateral extent of the regional PCE plume relative to groundwater sample locations. Groundwater data prior to the SCAP Regional PCE Investigation was previously insufficient to conclusively connect known discharge at the Site to impaired/impacted domestic and municipal supply wells (i.e., receptors) in downgradient areas.
Figure 4 displays the estimated lateral extent of the regional PCE plume and the location of cross section line A-A' that extends from the Site north to Tahoe Keys.
Figure 5 displays the vertical extent of the regional PCE plume originating from the Site north to impaired municipal supply well TKWC #2. Contiguous PCE contamination to depths up to 240 feet bgs were identified during the SCAP Regional PCE Plume Investigation. Groundwater investigation data was previously limited to depths above 80 feet bgs and to municipal supply well sampling events prior to the SCAP Regional PCE Plume Investigation.
[24] Figure 3 displays the estimated lateral extent of the regional PCE plume. Figure 3 was developed by AECOM utilizing EVS modeling software using groundwater analytical and lithological data from the various site specific and regional investigations conducted between January 2017 and November 2020.
Table 3 presents a summary of groundwater analytical data collected during the SCAP Regional PCE Plume Investigation used in the EVS modeling software.
Table 4 presents a summary of groundwater analytical data from investigations conducted between January 2017 and November 2020 used in the EVS modeling software.
[25] Figure 24 displays the estimated regional PCE plume in shallow groundwater from 0 to 25 feet bgs developed by AECOM using EVS modeling software using groundwater analytical and lithological data from the various site specific and regional investigations conducted between January 2017 and November 2020.
[26] Table 7 includes the prioritized potential source area inventory.
Figure 25 displays the prioritized potential source area inventory relative to the estimated regional PCE plume in shallow groundwater from 0 to 25 feet bgs.

25), supported the issuance of this Order and 13267 Investigative Orders for the Former Big O Tires and former Hurzel Properties, LLC sites.

The receptor inventory was developed to identify supply wells that have been impaired, impacted, or threatened by the regional PCE plume (Table 8 and Figure 26).[27] In addition, a sensitive receptor inventory was also developed to identify schools, day care facilities, hospitals, nursing homes, etc. to identify receptors that may be more suspectable to PCE exposure through groundwater or vapor intrusion.

The vertical conduit inventory was developed to identify all supply and monitoring wells within or near the regional PCE plume to determine if they may be responsible for the vertical migration of the regional PCE plume (Figure 5, Table 9, and Figure 27). [28]

4 SITE INVESTIGATIONS SUPPORT THE ORDER'S REQUIREMENTS

Investigations both prior to, and subsequent to, the 2017 CAO (Table 10)[29] document on-Site discharges of PCE that have migrated and continue to migrate off-Site, contributing to the regional PCE plume that has impaired the MUN beneficial use of groundwater in the Tahoe Valley South Basin within the Tahoe Hydrologic Unit. These investigations establish the following key underpinnings of the current Order:

1) The presence and migration of a discharge of waste that must be cleaned up and abated as required in the Order;

2) A nexus between the Site and the Regional PCE Plume; and

3) Additional investigations, as required in the Order, are necessary to determine the extent and severity of the discharge, evaluate the potential threat the contamination poses to human health, and design interim and longer-term remedial action plans.

A timeline summary of the Site-specific investigations discussed in this Staff Report are included in Table 10 below.

[27] Table 8 includes the supply well receptor inventory
Figure 26 displays the supply well receptor inventory relative to the regional PCE plume.
[28] Figure 5 displays the estimated vertical extent of the regional PCE plume along the A-A' transect from the Site to the Tahoe Keys and shows the vertical migration of contamination.
Table 9 includes the vertical conduit inventory.
Figure 27 displays the vertical conduit inventory.
[29] Table 10 includes a timeline summary of the specific investigations discussed in this Staff Report.

Table 10 Investigation History

Time Period	Investigation Name	Purpose
October 2003	Groundwater Investigation Results	On-Site groundwater sampling
September 2004	Supplemental Investigation Results	On-Site soil sampling On and off-Site groundwater sampling Sewer survey
April 2005	Additional Site Investigation Results	On-Site soil sampling On and Off-Site groundwater sampling
November 2005	Additional Soil Investigation Results	On-Site soil sampling
July August 2008	Site Investigation Report of Findings	On-and Off-Site soil sampling On- and Off-Site groundwater sampling Monitoring well installation
December 2009	Interim Remedial System Installation/Pilot Testing	On-Site monitoring well installation Remediation System Pilot Testing
July and December 2015	Indoor Air Quality Assessments	Indoor and outdoor air sampling
June and July 2017	Dischargers' Self-Directed Source Area Investigation	Off-Site groundwater sampling
January 2018 to April 2019	Phase I, II, and III Off-Site Groundwater Investigations	On-and Off-Site groundwater sampling Off-Site monitoring well installation
October to December 2018	Stage I and Stage II Preferential Pathway Evaluations	On and Off-Site Sewer and Storm Drain System soil and soil vapor sampling Closed Circuit Television (CCTV) Sewer Inspection
January 2019 and August 2019	Data Gap Investigations	Passive soil vapor sampling
December 2019 to April 2020	In-Situ Chemical Oxidation Pilot Testing	In-Situ chemical oxidation pilot testing On-Site groundwater sampling
2019-present	State Water Board-Funded SCAP Regional Plume Investigation	Regional PCE Plume Characterization Vertical Conduit Evaluation Non-Municipal Supply Well Sampling Soil Vapor Sampling Sentry Well Network Installation Source Area Inventory Development
2017-present	Lahontan Water Board Staff Additional Source Evaluation	Chemical Use Questionnaires Directives Requiring Investigation at Specific Properties

The 2017 CAO reviewed investigations conducted at the Site since 2003 concluded that the initial discharges of wastes to the soil and groundwater occurred as a result of dry cleaning operations between approximately 1972 and 1979. The underlying investigation activities supporting the 2017 CAO indicated that the soil, soil vapor, and groundwater are impacted primarily with PCE but also contain PCE degradation biproducts such as trichlorethylene (TCE), cis-1,2 dichloroethylene (cis-1,2 DCE), trans- 1,2 dichloroethylene (trans-1,2 DCE) and 1,1-dichloroethylene (1,1-DCE) (collectively referred to contaminants of concern [COCs]). These findings were undisturbed by the petition process and outcome of the litigation.

Site investigations started in the South Y Area after PCE contamination was first reported in supply wells in 1989. Since the initial discovery of PCE, multiple regional and site-specific investigations have been conducted by various parties to investigate and cleanup and abate its effects (Table 11)[30]. Investigation activities at the Site commenced in 2003 after the presence of the coin operated DCU was identified as a potential source of waste discharge to the environment. Additional investigations were also conducted in response to the 2017 CAO requirements. These investigation reports are available for review at GeoTracker Global ID No. SL0601754315[31].

4.1 Investigations Prior to 2017 CAO Issuance

4.1.1 Dischargers' On-Site Soil Vapor and Indoor Air Investigations

Since April 2010, soil vapor samples have been collected from ten on-Site shallow soil vapor probes, on an approximately quarterly basis, to evaluate the effectiveness of the on-Site AS/SVE remediation system operation (Figure 12 and Table 1; PES, 2021)[32]. Although the Site's AS/SVE remediation system has reduced PCE mass in on-Site shallow soil gas and groundwater, monitoring results indicate that on-Site PCE contamination in soil vapor remains above the SF Bay Water Board's Commercial/Industrial land use ESL, indicating a potential risk to human health due to vapor intrusion, and additional on-Site remediation is necessary.

Because on-Site shallow soil vapor concentrations of PCE and PCE degradation by-products such as TCE and cis-1,2 DCE exceeded the vapor intrusion ESLs, in July and December 2015, indoor air assessments of select occupied tenant spaces within the South Y Shopping Center and outdoor air was conducted (PES, 2015 and PES, 2016).

[30] Table 11 provides a summary of the site specific and regional investigations conducted historically to investigate the regional PCE plume and underground storage tank sites in the South Y area with PCE groundwater data.

[31] Site Case File Link to GeoTracker

[32] Figure 12 shows recent and maximum concentrations of PCE, TCE, and cis-1,2 DCE in soil gas. The locations of soil vapor probes, soil vapor extraction wells, and groundwater monitoring wells are also illustrated. Soil gas concentrations exceed the vapor intrusion to indoor air ESL in vapor probes located directly adjacent to the building (VP-1, 5, 6 and 9). The highest PCE concentrations in soil gas (VP-2) are reported adjacent to monitoring well pair LW-MW-1S/D and the western stormwater conveyance drop inlet. Table 1 provides a summary of the soil vapor analytical data collected at the Site. Concentrations above 67 µg/m^3 exceed the vapor intrusion to indoor air ESL.

Detectable PCE concentrations were reported in 11 of the 12 indoor air samples collected in the four tenant spaces (Figure 30, Figure 31, Table 12, and Table 13)[33]. Although COC concentrations did not exceed the Commercial/Industrial ESL for indoor air, these samples provide evidence of a residual source of PCE that is impacting indoor air and a potential threat to human health. Based upon current guidance, the indoor air assessment is incomplete because the Site's AS/SVE system was operating during the time of the indoor air investigations. Additional evaluation of potential risk of vapor intrusion to indoor air from residual PCE and PCE degradation by-products present on-Site will be necessary following the cessation of AS/SVE remediation system operation and may require further mitigation measures to protect building occupants.

4.1.2 Dischargers' Initial On-Site Soil and Groundwater Investigations

Five initial phases of investigation were conducted at the Site by the Dischargers between 2003 and 2008, prior to interim remedial action implementation (PES, 2003; PES, 2004; PES, 2005; PES, 2006; and E_2C, 2008). Investigation activities included the collection of over 110 soil samples to depths up to 52.5 feet bgs, 24 grab groundwater samples, and 21 groundwater samples from on-Site and off-Site monitoring wells. Eight temporary dual-zone monitoring well pairs were installed with shallow zone and middle zone wells screened from approximately 10 to 25 feet bgs and 35 to 50 feet bgs, respectively. PCE was detected in soil both on-Site and off-Site at concentrations that exceed the SF Bay Water Board's leaching to groundwater ESL (Figure 9 and Figure 10)[34] meaning that the PCE at these concentrations presented a threat to groundwater. PCE was detected in groundwater both on-Site and off-Site at concentrations that exceed the California Maximum Contaminant Level (MCL) (Figure 16, Figure 17, Figure 28, and Figure 29)[35], meaning that a discharge of PCE to waters of the State had already occurred. These investigations did not completely assess the lateral and vertical extent of the PCE discharge at the Site but established the primary release mechanisms, identified on-Site source areas of contamination (i.e., near LW-MW-1S/D well pair and western drop inlet of the Site's stormwater conveyance), and demonstrated off-Site discharge of PCE in groundwater.

4.1.3 Dischargers' Groundwater Monitoring Prior to 2017 CAO Issuance

Multiple descriptions and designations have been used by the Dischargers' consultants and previous investigators to describe the groundwater zones underlying the Site. A

[33] Figure 30 and Figure 31 show the sample locations for the indoor air investigations conducted in July and December 2015, respectively. Table 12 and Table 13 summarize the analytical results of the July and December 2015 indoor air investigation, respectively.

[34] Figure 9 and Figure 10 show sample locations where PCE concentrations in soil exceed the leaching to groundwater ESL of 0.08 mg/kg. PCE concentrations in soil above the leaching to groundwater ESL was reported in the northern parking area (Figure 9), beneath the DCU (Figure 9), and during on and off-Site monitoring well installations (Figure 10).

[35] Figure 28 and Figure 29 show PCE concentrations in shallow and middle zone groundwater, respectively during the initial groundwater investigations conducted between 2003 and 2005.
Figure 16 and Figure 17 show PCE concentrations in shallow and middle zone groundwater, respectively during on- and off-Site monitoring well installations in 2008.

general description of the three zones identified by the Dischargers consultants and surrounding lithology may be found in the April 1, 2019 *Investigation Summary Report* (PES, 2019b) and is used below. The shallow groundwater zone begins at approximately ground surface and extends to approximately 30 ft bgs. The middle groundwater zone extends from approximately 30 feet bgs to 60 feet bgs. The deeper groundwater zone is divided into an upper and lower zone; the upper zone extends from approximately 60 feet bgs to 80 feet bgs while the lower deeper zone extends below 80 feet bgs. Supply wells in the Tahoe Valley South Basin draw from depths within and below the middle zone. All three zones are hydraulically connected.

Groundwater monitoring commenced in August 2008 and has been performed on a quarterly basis since March 2010 (Table 2)[36]. The quarterly monitoring program was conducted at on-Site and one off-Site shallow zone wells. The quarterly monitoring program prior to 2017 CAO issuance did not include evaluation of the middle zone. Reporting indicated shallow groundwater flowed primarily to the north (Figure 32)[37]. Concentrations of PCE in the downgradient, off-Site shallow zone monitoring well (OS-1) have exceeded, and continues to periodically exceed, the MCL (Figure 22 and Table 2)[38]. The lateral and vertical extent of PCE contamination in groundwater originating from the Site was still not determined at the time of the issuance of the 2017 CAO.

Groundwater monitoring prior to 2017 CAO issuance indicated 1) On-Site PCE was detected in groundwater at concentrations that was several orders of magnitude above the MCL, 2) off-Site migration of PCE groundwater contamination occurred prior to interim remedial implementation in 2010, 3) significant declines in on-Site and adjacent off-Site PCE concentrations following operation of the AS/SVE remediation system, and 4) off-Site migration of groundwater contamination exceeding the MCL during remedial system operation. The Dischargers' historical groundwater monitoring network is not sufficient to evaluate 1) the lateral and vertical extent of PCE contamination originating from the Site and/or 2) the threat to human health posed by known and potential threats of PCE contamination in groundwater (e.g., water supply wells; Figure 2, Figure 18)[39] or vapor intrusion to indoor air pathways (Figure 24)[40].

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[36] Table 2 provides a summary of the quarterly groundwater monitoring results conducted at the Site. Off-Site monitoring well pairs OS-2 through OS-4 were not present prior to 2017 CAO issuance.
[37] Figure 32 illustrates the general groundwater flow direction in the shallow zone based on 23 quarterly monitoring events conducted between 2009 and 2015.
[38] Figure 22 shows the location of off-Site monitoring well OS-1 and recent groundwater PCE analytical results.
Table 2 provides a summary of groundwater analytical results from monitoring well OS-1.
[39] Figure 2 shows the Site's monitoring well network.
Figure 18 shows the estimated lateral extent of the regional PCE plume relative to municipal supply well locations.
[40] Figure 24 shows the stormwater conveyance system and sanitary sewer conveyance system relative to estimated PCE concentrations in shallow groundwater from 0 to 25 feet bgs. This figure displays PCE isocontours at the residential groundwater vapor intrusion ESL of 0.64 µg/L, the commercial groundwater vapor intrusion ESL of 2.8 µg/L, at concentrations between 2.8 µg/L and the MCL, and at concentrations greater than 25 µg/L.

4.1.4 Dischargers' On-Site Preferential Pathway Investigations

Limited soil and groundwater investigations were conducted within the former dry cleaner tenant space (Figure 33, Figure 9, and Table 14; PES, 2004)[41]. During initial soil and groundwater investigation activities conducted in 2004, soil and groundwater samples were collected from three locations within the former tenant space. Samples were collected under the sewer pipe serving the northern-most bank of washing machines, near a sewer lateral connection, and in the vicinity of the former DCU. PCE was detected in the soil sample collected in the vicinity of the former DCU (SB-1-1; 0.095 milligram per kilogram [mg/kg]); PCE was not detected in soil near the washing machines or sewer lateral connection, although cis-1,2 DCE [a degradation byproduct of PCE]) was detected below the sewer pipe serving the northern most bank of washing machines (SB-2-1.5; 0.013 mg/kg)[42]. PCE was detected above the MCL in two groundwater samples collected within the building footprint (GW-SB-3-27; 8.3 µg/L PCE [lateral connection] and GW-SB-1-27; 6.7 µg/L PCE [DCU area]). No additional soil or groundwater samples were or have been collected within the former tenant space. The PCE concentrations detected in soil and groundwater beneath the former tenant space indicated releases from dry cleaning equipment failure and/or on-Site handling, storage, and disposal practices of PCE or DCU separator water discharges to the sanitary sewer.

Although the Dischargers contend that the on-Site investigations conducted between 2004 and 2009 (PES, 2003; PES, 2004; PES, 2005; PES, 2006; and E_2C, 2008) adequately addressed preferential transport via the sanitary sewer, these investigations did not 1) identify and evaluate all sanitary sewer alignments (Figure 9)[43], 2) inspect the integrity of the sanitary sewer pipes within the building interior for defects, 3) investigate the lateral and vertical extent of PCE contamination already identified underneath the former tenant space, and 4) specifically evaluate sanitary sewer backfill as a preferential pathway. The evaluation of the sanitary sewer as a preferential pathway is determined to be incomplete at this time.

4.1.5 Communication Following Issuance of the 2017 CAO

Although Site investigation work was conducted between 2003 and 2009 and the Dischargers had knowledge that PCE contamination originating from the Site was present in soil and groundwater on- and off-Site and that supply wells downgradient from the Site were impaired by PCE contamination, the extent of contamination originating from the Site was never defined and contaminant transport along preferential pathways were not adequately investigated to determine if additional remedial actions were needed beyond

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[41] Figure 33 shows the three sample locations within the former dry cleaner tenant space.
Figure 9 shows that no soil samples were collected along the former dry cleaner tenant space's sanitary sewer lateral or mainline alignments on the western portion of the Site.
Table 14 provides a summary of the soil and groundwater analytical data collected within the former dry cleaner tenant space.

[42] Figure 9 shows that no soil samples were collected along the former dry cleaner tenant space's sanitary sewer lateral or mainline alignments on the western portion of the Site.

[43] Figure 9 shows that no soil samples were collected along the former dry cleaner tenant space's sanitary sewer lateral or mainline alignments on the western portion of the Site.

operation of the existing on-Site AS/SVE remediation system, necessitating issuance of the 2017 CAO.

Following issuance of the 2017 CAO, Lahontan Water Board staff engaged in numerous meetings and draft document review and comment cycles with Fox, Seven Springs, and their consultants (EKI Water and Environment, Inc [EKI] and PES Environmental, Inc [PES]) to provide informal and formal CAO compliance guidance. The 2017 CAO required a work plan describing the dynamic and iterative investigation strategy and decision logic to be used to define the lateral and vertical extent of groundwater contamination originating from the Site. Three iterations of work plans were reviewed by Lahontan Board staff prior to the *Conditional Acceptance of the March 19, 2018 Amended Groundwater Investigation Work Plan* dated August 22, 2018, ultimately accepted to address 2017 CAO Order 2.1 requirements. Semi-annual site investigation summary reports were required to be submitted to summarize the investigation progress and describe any potential changes in investigation strategy as described in 2017 CAO Order 2.3. A Corrective Action Plan was required within 90 days of the due date of the final investigation technical report.

To promote efficient communication and CAO Order compliance, Lahontan Water Board staff provided a “Suggestions for Compliance” section in the conditional acceptance letter. In this “Suggestions for Compliance” section, Lahontan Water Board staff offered to schedule recurring technical meetings with Fox and Seven Spring’s consultants to discuss proposed and planned site investigation activities, logistical challenges and status, site investigation findings, data interpretation, and need for additional investigation activities. These recurring technical meetings with EKI and PES commenced on October 1, 2018. Lahontan Board staff continued to regularly meet with EKI and PES staff to discuss technical issues until August 2020 at which time EKI stopped participating due to the El Dorado Superior Court decision related to Fox. Lahontan Water Board staff have continued to regularly meet with PES. Approximately 60 total progress and planning reports and associated technical meetings have been submitted and held as of February 2022

During these meetings, Lahontan Water Board staff regularly:

1) Requested updates on Dischargers’ progress in determining the lateral and vertical extent of PCE contamination originating from the Site;

2) Reminded Dischargers that determining the lateral and vertical extent of PCE contamination was a critical component of the 2017 CAO;

3) Reminded Dischargers that identification of other potential PCE sources that may be contributing to the regional PCE plume does not mean investigation objectives have been met; and

4) Reminded Dischargers of the applicability of provisions of the 2017 CAO requiring a workplan outlining the means and methods to be used to determine the lateral and vertical extent of contamination originating from the Site.

Despite these regular communications, the Dischargers elected not to complete investigation activities (i.e., step out borings/transects) that would result in the determination of the lateral and vertical extent of PCE contamination originating from the Site. Due to the Dischargers' investigation strategy of focusing on other potential PCE source identification rather than extent of the PCE migration, the lateral and vertical extent of PCE contamination originating from the Site still has not been determined by the Dischargers. Because the 2017 CAO only required submittal of a remedial action plan after completion of site investigation, the Dischargers have continued to successfully evade addressing the impacts of the PCE discharge since the issuance of the 2017 CAO.

4.2 INVESTIGATIONS FOLLOWING 2017 CAO ISSUANCE

4.2.1 Dischargers' Groundwater Investigations and Monitoring

Three on-Site middle zone wells were added to the quarterly monitoring program in May 2017 to aid in the evaluation of the extent of on-Site contamination within the middle zone. Three additional off-Site shallow and middle zone well pairs were added to the quarterly monitoring well program in November 2018 after the completion of "Phase II" investigation activities to aid in the evaluation of the extent and magnitude of off-Site migration and groundwater flow directions within the shallow and middle zones (Figure 22)[44].

Off-Site groundwater investigation activities conducted by the Dischargers' consultants following 2017 CAO issuance (PES, 2019b, 2019d) have included "Phase I" (January 2018), "Phase II" (October 2018), and "Phase III" (March and April 2019) activities. "Phase I" and "Phase II" investigation activities included collecting multi-depth grab groundwater samples along two transects in the immediate downgradient direction of the Site and the installation of three off-Site monitoring well pairs (Figure 8, Figure 13, and Figure 22)[45]. "Phase III" activities involved 1) collecting groundwater samples from two observation wells for the inactive Clement municipal supply well and 2) collecting multi-depth grab groundwater samples cross-gradient, downgradient and upgradient of the Site along Tata Lane, Glorene Avenue, Lake Tahoe Boulevard, and Emerald Bay Road (Figure 34)[46]. The most downgradient investigation effort consisted of the installation off-Site wells in Roger and James Avenues (Figure 22)[47] approximately 1,000 feet to the north of the Site) during the "Phase II" investigation.

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[44] Figure 22 shows the location of the on-Site (LW-MW-1, LW-MW-2, and LW-MW-5 monitoring well pairs) and off-Site monitoring well pairs (OS-2 through OS-4 monitoring well pairs) added to the quarterly monitoring program following 2017 CAO issuance.

[45] Figure 8 shows sample locations and groundwater analytical results for the "Phase I" investigation along Transect 1.
Figure 13 shows sample locations and groundwater analytical results for the "Phase II" investigation along Transect 2. Results of the Dischargers' Self Direct Source Area Investigation are also shown on the figure.
Figure 22 shows the location of off-Site monitoring well pairs OS-2 through OS-4 well pairs installed during the "Phase II" investigation.

[46] Figure 34 shows sample locations and groundwater analytical results for the "Phase III" investigation.

[47] Figure 22 shows the location of off-Site monitoring well pairs (OS-2 through OS-4 well pairs) installed during the "Phase II" investigation. The well pairs represent the most down-gradient area investigated by the Dischargers.

The groundwater data collected during these off-Site investigations and quarterly groundwater monitoring confirmed (1) PCE contamination in groundwater above the MCL of 5 µg/L originating from the Site is detected continuously, without interruption, to the regional PCE plume, (2) PCE contamination above the MCL of 5 µg/L originating from the Site continues to migrate off-Site in spite of interim remedial action implementation, and (3) PCE contamination is not migrating onto the Site from up-gradient source(s).

4.2.2 Dischargers' Chemical Oxidation Pilot Test and Observations

In November 2019, an in-situ chemical oxidation pilot test (pilot test) was implemented to evaluate the feasibility of removing PCE mass remaining in the capillary fringe and shallow groundwater (E_2C, 2020). During the pilot test, potassium permanganate oxidant solution was injected into the subsurface at 19 locations (Figure 35)[48] in the northern parking area to depths up to 31 feet bgs. At the time of the pilot test, the Dischargers' consultants believed that the silt layer observed at 29 to 31 feet bgs limited PCE contaminant migration from the shallow zone to middle zone, and therefore did not inject potassium permanganate in the middle zone.

Post pilot test groundwater monitoring was conducted on November 13, 2019 and March 26, 2020. Although potassium permanganate was not injected in the middle zone during the pilot test, groundwater monitoring results indicate that the largest PCE concentration reduction occurred in the middle zone, decreasing from 190 µg/L to 24 µg/L in middle zone monitoring well LW-MW-1D (Figure 2)[49]. Reductions of this magnitude would not be expected to occur naturally in such a short timeframe. The only reasonable conclusion is that the middle zone is hydraulically connected to the shallow zone, where the potassium permanganate was injected.

This conclusion is further supported by visual color monitoring in selected monitoring wells conducted between December 20, 2019, and April 9, 2020, to evaluate the distribution of chemical oxidant in the subsurface. Purple color, an indication of oxidant presence, was observed in middle zone monitoring well LW-MW-1D throughout the entire visual monitoring period.

These observations demonstrate downward migration at the Site and refute the hypothesis of the silt layer is an effective lithologic barrier. As described above, the Site's current CSM incorrectly asserts that the silt layer observed between 29 and 31 feet bgs is serving as an effective barrier limiting PCE contaminant migration from the shallow zone to the middle zone. The pilot test investigation highlights a critical flaw in the Dischargers' CSM and demonstrates that downward vertical migration of PCE contamination has occurred in the past and continues to occur as residual on-Site PCE contamination continues to impact groundwater in the middle zone at depths beyond the AS/SVE remediation system's vertical zone of influence.

[48] Figure 35 shows the 19 locations where oxidant solution was injected into the subsurface.
[49] Figure 2 shows the location of LW-MW-1D.

4.2.3 Dischargers' and Other's Preferential Pathway Investigations

Stage I (EKI, 2019b), Stage II (EKI, 2019b), and off-Site preferential pathway investigations conducted by the Dischargers (EKI, 2019b and EKI, 2019d) and others (WHA, 2020a and WHA, 2020b) provide evidence of the location and mechanism for on-Site discharge and off-Site transport of PCE. Passive soil vapor investigations have been conducted at the Site and five off-Site areas (the former Big O Tires site, Tucker Basin, the Lakeside Napa site, locations along Glorene Avenue, and the former Hurzel Properties, LLC site). The investigation results confirm on-Site discharges to the sanitary sewer and stormwater conveyance system and off-Site contaminant transport via the stormwater conveyance system and potentially the sanitary sewer. A summary of the investigation activities and conclusions is provided below.

On-Site preferential pathway investigation activities (Stage I) included the following:

1) A CCTV inspection of stormwater conveyance and sanitary sewer pipe conducted by EKI/PES. The on-Site CCTV activities did not include 1) evaluation of pipe beneath, or within, the former tenant space or 2) the off-Site sanitary sewer pipe connection with the sewer mainline (Figure 36)[50]

2) Soil and passive soil vapor sampling along and within the stormwater conveyance pipe alignment and at select locations along and within sanitary sewer pipe alignment, and passive soil gas sampling within one sanitary sewer manhole conducted by EKI/PES (Figure 11 and Figure 7)[51].

Off-Site preferential pathway investigation activities (Stage II) included:

1) Passive soil vapor and groundwater sampling along Glorene Avenue conducted by EKI/PES (Figure 7 and Figure 37)[52];

2) Passive soil vapor sampling within and adjacent to the Lakeside Napa site conducted by EKI/PES (Figure 7)[53];

[50] Figure 36 shows the location of on-Site CCTV inspections of the stormwater conveyance and sanitary sewer conducted.
[51] Figure 11 shows soil analytical results within sanitary sewer and stormwater conveyance system utility backfills.
Figure 7 shows soil vapor analytical results within and adjacent to sanitary sewer and stormwater conveyance system utility backfills. Soil vapor analytical results for the Lakeside Napa site and Tucker Basin are also shown.
[52] Figure 7 shows soil vapor analytical results within Glorene Avenue. Soil vapor analytical results for the Site, the Lakeside Napa site and Tucker Basin are also shown.
Figure 37 shows groundwater analytical results within Glorene Avenue in text boxes. Soil vapor analytical results for the Lakeside Napa site are also shown.
[53] Figure 7 shows passive soil gas results for the Lakeside Napa site.

3) Passive soil vapor sampling within Tucker Basin (the stormwater conveyance system infiltration/detention basin located immediately downstream of the Site) conducted by EKI/PES[54]; and

4) A CCTV sewer inspection underneath Lake Tahoe Boulevard and along Glorene and Tucker Avenues conducted by the District (Figure 38)[55].

Off-Site preferential pathway activities conducted by others (Former Big O Tire site) included:

1) Geophysical survey at the former Big O Tires site conducted by Welsh Hagen and Associates (WHA).

2) Passive soil vapor sampling at the former Big O Tires site conducted by WHA (Figure 39)[56].

3) Excavation of stormwater conveyance inlet at former Big O Tires site conducted by WHA.

4) Elevation survey of stormwater conveyance piping at former Big O Tires site into Tucker Basin conducted by WHA.

4.2.3.1 <u>Sanitary Sewer</u>

PCE contamination was detected in the sanitary sewer backfill in one (SS1-5.75; 0.0018 mg/kg) of the two soil samples collected during the on-Site "Stage 1" Preferential Pathway Investigation along the western building perimeter (Figure 11; EKI, 2019b)[57]. Elevated PCE mass was also reported in a passive soil vapor sample along the sanitary sewer alignment paralleling the western building footprint (PSG-2; 307 nanograms [ng]) in the vicinity (Figure 7) [58]. Groundwater sample GW-3 collected adjacent to the sanitary sewer lateral and building connection on the western side of the building, indicated a PCE concentration of 31.7 µg/L (above the MCL) between 41 and 45 feet bgs (Figure 8)[59]. Although the CCTV inspection of the sanitary sewer pipe to the west of the building did not identify significant cracks in the relevant area, no CCTV inspection was performed on the pipe underneath the building or on-Site sanitary sewer pipe connection with the mainline and the detections of PCE in soil, soil gas, and groundwater in the vicinity of and within the sewer alignment suggest:

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[54] Figure 7 shows passive soil gas results within Tucker Basin.
[55] Figure 38 shows the sanitary sewer alignment where CCTV inspection activities along Glorene and Tucker Avenues were conducted by the District.
[56] Figure 39 shows PCE concentrations in soil vapor at the Former Big O Tire site.
[57] Figure 11 shows the location SS1 of where PCE concentrations in soil was reported in sewer backfill.
[58] Figure 7 shows the location (PSG-2) of where elevated PCE concentrations in soil vapor was reported in the vicinity of the sewer alignment.
[59] Figure 8 shows the location (LTLW-GW-3) of where an elevated PCE concentration (concentrations on this drawing are shown in micrograms per liter) in groundwater was reported adjacent to the building's sewer lateral.

1) On-Site PCE source remain in the vicinity (e.g., beneath the building) and at concentrations sufficient to impact groundwater at concentrations above MCL;

2) Additional evaluation of exposure pathways (i.e., vapor intrusion and groundwater) relative to the remaining soil, soil vapor, and groundwater contamination in the vicinity is needed; and

3) Potential discharge(s) from the Site to the sanitary sewer may have occurred.

Passive soil gas and groundwater sampling was conducted in 2019 along Glorene Avenue adjacent to the Lakeside Napa site (Figure 37)[60]. PCE masses in soil gas ranged from not detected above 10 ng to 252 ng along the sanitary sewer alignment and within Glorene Avenue. PCE concentrations above the MCL were reported from the water table to 62 feet bgs (GW-13, GW-14, and GW-15) along Glorene Avenue. The highest PCE concentrations were reported at depths between 42 and 46 feet bgs, with PCE concentrations ranging from 14.1 to 94.4 µg/L in the three samples collected. The distribution of PCE in groundwater provide additional lines of evidence to support off-Site migration from the Site. The distribution of PCE in soil gas and groundwater (concentrations above the MCL in shallow groundwater) along Glorene Avenue also supports the conclusion that PCE from the Site may have been discharged into the sanitary sewer and escaped through joints, cracks, or other minor imperfections.

The evaluation of potential on-Site releases from the sanitary sewer remains incomplete because 1) investigation activities did not include assessment of the pipes beneath the existing building to identify potential defects and no additional soil or groundwater sampling have been performed within the building since the initial investigation 2004 which identified impacts to soil and groundwater, and 2) PCE mass was detected in the sanitary sewer conveyance system utility backfill along the western edge of the building, but no additional soil, soil vapor, or groundwater samples were collected along the off-Site alignment of the sanitary sewer conveyance pipe between the Site and Glorene Avenue.

4.2.3.2 Stormwater Conveyance System

The Site's stormwater conveyance system is designed to transport stormwater from the Site to Tucker Basin (EKI, 2019b). Tucker Basin is an unlined, vegetated 200-foot by 150-foot infiltration/detention basin, currently fitted with a piped inlet and outlet, that serves as a component of the City of South Lake Tahoe's stormwater conveyance system in the South Y Area (Figure 2 and Figure 40)[61]. Stormwater from the Site has been conveyed into the Tucker Basin area since at least 1962 (EKI, 2019b)[62]. Between 1962

[60] Figure 37 shows passive soil vapor sampling results along Glorene Avenue and at the Lakeside Napa site. Groundwater analytical results along Glorene Avenue are also shown.
[61] Figure 2 shows the general location of Tucker Basin.
Figure 40 shows the current configuration of Tucker Basin.
[62] Figure 41 shows the configuration of the stormwater conveyance system into Tucker Basin in 1978 and denotes the stormwater conveyance system drop inlets at the Site and at former Big O Tires site and discharge point into Tucker Basin.

and 1978, a "y" piping configuration was added on the north side of Lake Tahoe Boulevard which conveyed stormwater runoff from the former Big O Tires site to the Tucker Basin (Figure 41)[63]. Regardless of the potential stormwater conveyance system configurations between 1962 and 1978, the area north of Lake Tahoe Boulevard served as the Site's stormwater outfall location during the release timeframe.

Tucker Basin received stormwater from both the Site and the former Big O Tires site (WHA, 2020a). As described below, the evidence supports the determination that some of the PCE detected in Tucker Basin is linked to discharges from the Site. The former Big O Tires site may also be an additional source of PCE contamination, which is the subject of an ongoing investigation at the former Big O Tires site.

1) PCE mass in soil vapor was reported at concentrations several orders of magnitude above the estimated background concentration of 0 ng PCE at both the Site's and former Big O Tires site's stormwater conveyance drop inlets and at the discharge point to Tucker Basin (Figure 7 and Figure 39)[64]. The PCE mass distribution pattern (the highest concentrations are reported at the stormwater conveyance system drop inlets and discharge point into Tucker Basin which decline with distance) at stormwater conveyance system drop inlets and at the discharge point to Tucker Basin indicate that stormwater contaminated with PCE was transported to Tucker Basin via the Site's and the former Big O Tires' stormwater conveyance systems. Additional investigation is required to confirm that the former Big O Tires site is contributing PCE mass to the regional PCE plume.

2) Investigation of the stormwater conveyance system components at the Site, former Big O Tires site, and Tucker Basin (i.e., elevations, connections, and alignments of drop inlets, conveyance pipes, etc.) by the Dischargers' and former Big O Tires site consultants have confirmed that the Site's and the former Big O Tires' stormwater conveyance system conveyed stormwater to Tucker Basin.

3) No other properties have been identified as potential contributors of PCE contaminated stormwater to the Site's and former Big O Tires site's stormwater conveyance systems and Tucker Basin.

The evaluation of off-Site transport of PCE through the stormwater conveyance system to Tucker Basin, remains incomplete because no additional soil vapor, soil, or groundwater investigations have been implemented or proposed following the initial passive soil vapor survey to delineate the extent of contamination in the areas identified with elevated PCE mass in soil vapor. Additional investigation is needed within, and

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[63] Id.

[64] Figure 7 shows the stormwater conveyance system and passive soil vapor sampling results, including at stormwater conveyance system inlet locations (PSG-9/SD3 and PSG-1/SD2), at the Site and within Tucker Basin.

Figure 39 shows PCE passive soil vapor sampling results at the Former Big O Tire site, including at the stormwater conveyance system drop inlet (PSG-1).

downgradient of, Tucker Basin to evaluate the magnitude and extent of contamination and appropriate remedial actions and mitigation measures.

4.2.4 State Water Board's Regional PCE Plume Investigation

Within months of adoption of the 2017 CAO, it was clear to Lahontan Water Board staff that the Dischargers had no intention of effectively or promptly conducting the required investigations to determine the lateral and vertical extent of contamination originating from the Site. Due to significant impacts to receptors (i.e., drinking water supply wells), requiring immediate corrective actions to protect public health, and the critical need to take action to characterize the regional PCE plume and identify potential PCE sources, Lahontan Water Board staff pursued a grant from the State Water Board's SCAP in 2018. On March 4, 2019, the Lahontan Water Board received a $4,600,200 SCAP grant (Department of General Services [DGS], 2019) to investigate the regional PCE plume in the South Y Area (SCAP Regional PCE Plume Investigation). Specific contract tasks include regional PCE plume characterization, non-municipal supply well sampling, soil vapor sampling, sentry well network installation, and vertical conduit evaluation and destruction. Contract completion is scheduled for July 2023.

The following SCAP Regional PCE Plume Investigation activities have been completed:

1) In 2019 and 2020, regional PCE plume characterization activities were conducted. Field activities included discrete depth groundwater sampling and lithological evaluation to depths up to 320 feet bgs at 79 locations (Figure 3)[65.] Borings were advanced north of the intersection of Highway 50 and Highway 89 to the Tahoe Keys, resolving some of the "data gaps" that were at issue before the adoption of the 2017 CAO and groundwater investigations completed by the Dischargers following 2017 CAO issuance.

2) In October 2019, water samples were collected from eight active and one inactive non-municipal supply wells within or near the regional PCE plume. PCE was not detected in the active non-municipal supply wells sampled and was detected at a concentration of 0.5 µg/L in the inactive non-municipal supply well at Tahoe Valley Elementary School.

3) In June of 2020, the inactive municipal supply well owned by Lukins Brothers Water Company (LBWC), LBWC #4 (impaired with PCE) (Figure 18)[66], was properly destroyed because the regional PCE plume characterization identified the well as a vertical conduit for PCE contamination (i.e., preferential pathway for downward migration of PCE contamination).

[65] Figure 3 shows the borings advanced during the 2019 and 2020 Regional PCE Plume Investigation along with sampling locations from site specific and regional investigations conducted between January 2017 and November 2020 and provides an estimate of the lateral extent of the regional PCE plume.
[66] Figure 18 shows the location of LBWC #4

4) In 2021, sentry well network installation activities were completed. The activities included the installation and sampling of sentry wells (nine total) for LBWC #1 (threatened by PCE contamination), LBWC #5 (threatened by PCE contamination), Tahoe Keys Water Company (TKWC) #1 (impacted by PCE contamination), and TKWC #2 (impaired by PCE contamination) to monitor groundwater quality at various depths upgradient of impacted, impaired, or threatened municipal supply wells.

The remaining SCAP Regional PCE Plume Investigation activities include:

1) A soil vapor investigation to assess the potential threat to human health that the shallow regional PCE plume poses via the vapor intrusion exposure pathway.

2) A second non-municipal supply well sampling event.

3) Continued monitoring and sampling of the nine sentry wells.

4) Continued evaluation and destruction of potential vertical conduits that may be responsible for the vertical migration of PCE contamination.

Although the SCAP Regional PCE Plume Investigation is ongoing and additional work is needed, initial results provide:

1) A general understanding of the lateral and vertical extent of the regional PCE plume (Figure 3, Figure 4, and Figure 5)[67];

2) An initial estimate of PCE concentrations and migration pathways within the regional PCE plume (Figure 24)[68;]

3) An initial evaluation of impaired, impacted and threatened receptors (Figure 26)[69], and

4) Confirmation that the regional PCE plume contamination extends without interruption from the Site to impaired and impacted receptors [70.]

More specifically, the data shows a continuous plume migrating from south to north (under the influence of the regional horizontal groundwater flow direction and gradient), and descending with distance from the source area (under the influence of the regional

[67] Figure 3, Figure 4, and Figure 5 provide an estimate of the lateral (Figure 3) and vertical (Figure 5) extent of the regional PCE plume along the A-A' transect (Figure 4).
[68]Figure 24 shows the preferential path inventory (i.e., stormwater conveyance system and sanitary sewer conveyance system) relative to PCE concentrations in shallow groundwater from 0 to 25 feet bgs. This figure displays PCE isocontours at the residential groundwater vapor intrusion ESL of 0.64 µg/L, the commercial groundwater vapor intrusion ESL of 2.8 µg/L, at concentrations between 2.8 µg/L and the MCL, and at concentrations greater than 25 µg/L.
[69] Figure 26 shows receptor locations relative to the estimated lateral extent of the regional PCE plume.
[70] Attachment A, Figures 3, 4 and 5 shows the estimated lateral (Figure 3) and vertical (Figure 5) extent of the regional PCE plume relative to municipal supply wells along the A-A' transect (Figure 4).

downward vertical gradient)[71]. This pattern of plume migration has resulted in higher PCE concentrations in shallow groundwater near known and potential unauthorized release locations (e.g., the Site, Tucker Basin, the former Big O Tires site) and unimpacted shallow, groundwater overlying deeper, contaminated groundwater in the distal portions of the plume, including areas where the Dischargers speculate additional potential sources exist.

The data also shows a continuous shallow PCE plume originating at the Site that appears to be migrating to the northeast along the City of South Lake Tahoe's stormwater conveyance system (Figure 24).[72] PCE concentrations in shallow groundwater in the vicinity of the City of South Lake Tahoe's stormwater conveyance system exceed residential and commercial groundwater vapor intrusion ESLs indicating that shallow groundwater plume poses a potential threat to human health.

During the 2019 and 2020 regional PCE plume characterization, PCE was detected in only four (4) out of a total of 95 shallow groundwater samples (collected above approximately 30 feet bgs) at concentrations exceeding the MCL within the estimated lateral extent of the regional PCE plume (Note: PCE concentrations reported above the MCL at depths below "shallow groundwater" are not summarized or discussed here). These four samples were collected in areas near the City of South Lake Tahoe's stormwater conveyance system and the maximum PCE concentration detected was 14 µg/L (CPT-F01 on James Avenue south of 5th Street) which is multiple orders of magnitude lower than the historical high concentrations of PCE detected in on-Site shallow groundwater (i.e., 5,380 µg/L PCE in LW-MW-1S on May 11, 2011). These results do not provide indication of additional PCE sources contributing to shallow groundwater contamination. Instead, these results provide further evidence suggesting that PCE contaminant transport from the Site has occurred along the City of South Lake Tahoe's stormwater conveyance system (Figure 24)[73].

As described in the *Lahontan Water Board's Evaluation of Additional Potential PCE Sources* section, Lahontan Water Board staff have issued numerous investigative orders to properties with documented unauthorized releases and to suspected source properties (e.g., properties with past chemical use, storage, or disposal) overlying the areas with PCE detections above the MCL in shallow groundwater to identify and rule out potential contributors to the regional PCE plume. The evaluation, including data collection by other dischargers and for the SCAP Regional PCE Investigation, of potential sources contributing to the regional PCE plume is ongoing. Should additional investigation determine contribution of PCE from other properties, the Lahontan Water Board may

[71] Id.
[72] Figure 24 shows the stormwater conveyance system and sanitary sewer conveyance system relative to estimated PCE concentrations in shallow groundwater from 0 to 25 feet bgs. This figure displays PCE isocontours at the residential groundwater vapor intrusion ESL of 0.64 µg/L, the commercial groundwater vapor intrusion ESL of 2.8 µg/L, at concentrations between 2.8 µg/L and the MCL, and at concentrations greater than 25 µg/L.
[73] Id.

amend the Order to include other dischargers or direct a separate cleanup and abatement order to those dischargers.

4.3 Evaluation of Potential Sources to the Regional PCE Plume

4.3.1 Dischargers' Self-Directed Additional Source Investigation

In June and July 2017, rather than implementing a comprehensive step-out investigation strategy to determine the lateral and vertical extent of the PCE plume originating from the Site, the Dischargers' consultants conducted a "self-directed" off-Site groundwater investigation to identify other potential PCE sources contributing to the regional PCE plume in the South Y Area (Figure 13; EKI, 2017)[74]. The investigation consisted of the collection of multi-depth groundwater samples at 19 locations within, adjacent to, and upgradient of the regional PCE plume utilizing high resolution cone penetrometer test (CPT) and membrane interface probe (MIP) technology to identify the depth intervals for sample collection. PCE concentrations in groundwater were detected at 17 of the 19 locations. All of the locations with detections were downgradient from the Site. PCE was also detected in first encountered groundwater at 12 of the 19 locations, at concentrations ranging 0.68 to 33.1 µg/L. The PCE concentrations detected in shallow groundwater can be explained by comparing these detections to the maximum PCE concentration of 72 µg/L detected on-Site in LW-MW-1S on May 2, 2017 (i.e., the PCE concentrations reported in shallow groundwater may also be attributed to the downgradient migration of shallow groundwater PCE contamination from the Site). The investigation did not provide evidence of any source of PCE contamination upgradient of the Site or shallow groundwater "hot spots" within the regional PCE plume that could not be potentially attributed to the Site.

4.3.2 Dischargers' Additional Source Evaluations

The Dischargers' consultants have been unable to identify any potential upgradient sources or PCE plume that migrated onto, and through the Site, before commingling with, or creating, the regional PCE plume identified in the South Y Area. Based on data collected during the June and July 2017 self-directed groundwater investigation (Figure 13)[75] and the March and April 2019 Phase III groundwater investigation (Figure 34)[76], PCE detected in groundwater on-Site represents the most upgradient detection of PCE above the MCL in the South Y Area. In other words, the regional PCE plume originates at the Site, migrates under the influence of horizontal and downward vertical groundwater hydraulic gradients, and cannot be attributed to other upgradient PCE sources.

The Dischargers' investigations into additional PCE sources have also included document reviews (EKI, 2019b, 2019d, 2020a). The Dischargers have summarized and evaluated available information, including the Lahontan Water Board's chemical use questionnaires

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[74] Figure 13 shows sample locations and groundwater analytical results for the Dischargers' Self-Directed Source Area Investigation conducted in June and July 2017.
[75] Id.
[76] Figure 34 shows "Phase III" groundwater investigation analytical results.

and hazardous material database records, to identify additional potential sources that could be contributing to the regional PCE plume (Figure 23 and Table 15)[77]. Suppositions of potential additional dischargers have been provided in numerous submissions. In the evaluation of potential dischargers, however, the Dischargers' consultants have not applied consistent source identification criteria. Specifically, the Dischargers' work plan accepted by Lahontan Water Board staff contains source identification criteria (EKI, 2018a).[78] Notably, the Site meets the Dischargers' own source identification criteria, but the Dischargers have elected to ignore this fact and other available groundwater data that does not support the conclusion that other additional sources are contributing to the regional PCE plume. The Dischargers have not applied the accepted source identification criteria consistently to the other potential PCE sources either, resulting in an incomplete and inaccurate analysis of source identification. As discussed above, the CSM must be updated to reflect consistent application of the approved PCE source identification criteria.

The Dischargers have identified the former Big O Tires site as a potential PCE source utilizing the Dischargers' source identification criteria and have elected to prioritize reviewing the investigation results at the former Big O Tires site at the expense of proceeding with any investigation actions such as defining the lateral and vertical extent of PCE contamination originating from the Site. Lahontan Water Board staff have repeatedly reminded the Dischargers that identification of additional potential PCE source does not mean 2017 CAO requirements have been fulfilled and additional work should be identified and implemented to comply with 2017 CAO requirements.

The Dischargers' consultants have not identified or implemented actions to further investigate Tucker Basin as a potential off-Site source. The Dischargers' conclusions regarding preferential pathways, inconsistent use of source identification criteria and selected investigation strategy has resulted in an ongoing and unreasonable delay to investigate PCE contamination in, and potentially beyond, Tucker Basin. Tucker Basin (1) received stormwater runoff from the Site during the release time period, (2) likely received PCE-contaminated stormwater from the Site, (3) historical PCE-contaminated stormwater infiltration into Tucker Basin may be the source of the high concentrations of

[77] Figure 23 shows the location of properties with reported or suspected PCE use identified by the Dischargers.
Table 15 provides a review of the Dischargers' known or potential PCE sources.

[78] Source identification criteria as described in the March 19, 2018 *Amended Groundwater Investigation Work Plan*:

- Site-specific information such as chemical use inventories, disposal records, soil samples with detections of VOCs, and/or elevated VOC concentrations in soil gas samples;
- Site use history commonly associated with PCE applications, such as dry cleaning or degreasing metal parts in conjunction with automotive and other metalworking operations;
- VOC concentrations in groundwater samples collected from locations downgradient of the potential source are significantly higher than VOC concentrations in groundwater samples collected in the same hydrogeological unit from locations upgradient of the potential source;
- Elevated VOC concentrations in samples of first-encountered shallow groundwater collected from locations downgradient of the potential source; and
- Concentrations of VOCs in groundwater samples collected from locations downgradient of the potential source that suggest the presence of dense non-aqueous phase liquid ("DNAPL").

PCE detected to the north of Lake Tahoe Boulevard and on the former Big O Tires site and (4) meets accepted source identification criteria.

Previous investigations conducted at the Lakeside Napa site (SECOR, 2004) had identified elevated PCE concentrations in shallow and middle zone groundwater (Figure 42 and Figure 43)[79], however the investigations were not sufficient to evaluate if discharges had occurred at the Lakeside Napa site and were contributing to the regional PCE plume. In 2019, EKI/PES conducted passive soil vapor sampling at interior and exterior locations at the Lakeside Napa site in addition to groundwater sample collection along Glorene Avenue to evaluate the Lakeside Napa site's potential contribution to the regional PCE plume. No indications of potential PCE discharges at the Lakeside Napa site were identified during the passive soil vapor and groundwater sampling activities (Figure 37)[80]. The investigation results indicate 1) significant reductions in PCE concentrations in groundwater from the data collected in 2002 and 2003 and 2) uniform low to non-detect PCE masses (indicative of regional PCE plume/background concentrations) in soil vapor across the Site. In the April 2019 ISR, EKI concluded the lack of spatial variability in soil vapor and rapid attenuation of groundwater concentrations support the absence of potential remaining sources. EKI speculated that historical pumping at Clement Well (located to the west) shifted the groundwater flow direction and gradients toward the Clement Well to the west during times of well operation. EKI also speculated that stormwater infiltration at Tucker Basin created radial (e.g., groundwater flowed radially in all directions as a result of the infiltrated groundwater "mound") groundwater flow directions and gradients in shallow groundwater around Tucker Basin during periods of stormwater infiltration to groundwater. These shifts in groundwater flow directions and gradients help explain the elevated PCE concentrations previously detected within the shallow and middle zones in the vicinity of the Lakeside Napa site. Lahontan Water Board ultimately issued a No Further Action Required letter to the Lakeside Napa site on August 11, 2020.

4.3.3 Lahontan Water Board's Evaluation of Additional Potential PCE Sources

Lahontan Water Board staff's evaluation of additional potential responsible parties contributing to the regional PCE plume is ongoing. On April 3, 2019, 223 Water Code section 13267 investigative orders were sent to potential responsible parties identified through records searches for businesses that may have used, stored, handled, or disposed of chlorinated solvents within the estimated regional PCE plume area. The directive required completion of a General Chemical Storage and Use Questionnaire or a Dry Cleaner Specific Questionnaire.

[79] Figure 42 and Figure 43 show PCE concentrations in shallow (Figure 42) and middle (Figure 43) zone groundwater from groundwater investigations conducted at the Site, the Former Big O Tire site, and the Lakeside Napa site between 2001 and 2008.

[80] Figure 37 shows passive soil vapor and groundwater sampling results for the Lakeside Napa site in 2019.

SCAP Regional PCE Plume Investigation included the development of an inventory of potential source areas (Figure 25 and Table 7)[81] contributing to the regional PCE plume, including properties that received Water Code section 13267 investigative orders, and submitted questionnaires. Initial review of groundwater data relative to source area inventory locations, did not indicate any "hot spots" in shallow groundwater that could not be potentially attributed to the Site (Figure 25)[82]. Evaluation of potential sources areas is expected to continue to support contract task implementation until contract completion in 2023.

On May 10, 2019, Water Code section 13267 investigative directives were sent to the former Big O Tires (1961 Lake Tahoe Boulevard; Lahontan, 2019a)) and former Hurzel Properties, LLC [961 Emerald Bay; Lahontan, 2019a]). Although initial investigation work has been conducted at both sites, the work completed to date does not comply with the investigative directives and additional work is required.

Initial passive soil vapor sampling activities were conducted at the former Big O Tires site in September/October 2020 (Figure 39; WHA, 2020b)[83]. Additional investigation of soil and shallow groundwater have been proposed at the former Big O Tires site. The proposed work does not include evaluation of PCE contamination in Tucker Basin. Lahontan Water Board staff have determined that the proposed scope of work is inadequate and will not provide the data necessary to evaluate if PCE contamination detected at the former Big O Tires site is contributing to the regional PCE plume. A Notice of Violation, including comments identifying remaining data gaps and work plan deficiencies, was sent to the responsible parties for the former Big O Tires site on April 15, 2021 and August 13, 2021. A work plan compliant with May 10, 2019 directives for the Former Big O Tire site has not been submitted to date.

Initial passive soil vapor sampling activities were conducted at the former Hurzel Properties, LLC site in December 2020 (Figure 44; RMC, 2021)[84]. No additional investigation activities were proposed following the initial passive soil vapor sampling. A Notice of Violation, including comments identifying remaining work plan deficiencies, was sent to former Hurzel Properties LLC on April 15, 2021. Additional investigation has been proposed at the former Hurzel Properties, LLC site. Lahontan Water Board staff have determined that the proposed scope of work is deficient and will not provide the data necessary to evaluate if PCE contamination detected at the former Hurzel Properties, LLC site is contributing to the regional PCE plume. A work plan compliant with the May 2019 Order for the former Hurzel Properties, LLC site has not been submitted to date.

Proceeding with the current Order is consistent with State Water Board Resolution 92-49, which states that "[i]t is not necessary to identify all dischargers for the Regional Water

[81] Figure 25 and Table 7 illustrate and provide the prioritized inventory of potential source areas developed for the SCAP Regional Plume Investigation. Figure 25 displays the prioritized inventory relative to the estimated shallow regional PCE plume.
[82] Figure 25 shows the PCE "hot spot" identified in shallow groundwater originating at the Site.
[83] Figure 39 shows the distribution of PCE mass in soil vapor at the Former Big O Tire site.
[84] Figure 44 shows PCE concentrations in soil vapor at the former Hurzel Properties, LLC (961 Emerald Bay) site.

Board to proceed with requirements for a discharger to investigate and clean up." It is also consistent with the El Dorado Superior Court's finding that "it would be irrational to delay investigation, abatement, and cleanup of the Site, which would allow contaminates above the maximum contaminate level to remain the groundwater and migrate." (December 8, 2020 Minute Order, p. 64.)

5 SCREENING EVALUATION AND CONCLUSIONS

5.1 Human Health and the Environment Screening Criteria

Lahontan Water Board staff conducted a screening level evaluation of potential human health and environmental concerns related to PCE and PCE degradation by-products such as TCE and cis-1,2 DCE contamination in soil, soil gas, and groundwater. A summary of investigation results and conclusions related to the screening evaluation is provided in the following sections. The presence of PCE (and PCE degradation biproducts) at concentrations in soil, soil gas, and groundwater originating from Site above the ESLs or groundwater MCLs and California Environmental Protection Agency (CalEPA) Office of Environmental Health Hazard Assessment Public Health Goals (PHGs) supports the conclusion that continued on-Site and off-Site investigations are required and cleanup and abatement is necessary to evaluate and reduce the potential threat contamination poses to human health and the environment.

5.1.1 Soil ESLs

The SF Bay Water Board's ESL guidance document identifies soil screening levels for the following concerns:

1) Leaching to groundwater;
2) Direct exposure;
3) Odor Nuisance; and
4) Terrestrial habitat.

Leaching to groundwater is the primary applicable ESL category for PCE, TCE, and cis-1,2 DCE in soil to be utilized at the Site.

5.1.2 Soil Gas ESLs

The SF Bay Water Board's ESL guidance document identifies soil gas screening levels for the following concerns:

1) Sub-slab/soil gas vapor intrusion and
2) Indoor air direct exposure.

Indoor air direct exposure is the primary applicable ESL category for PCE, TCE, and cis-1,2 DCE in soil gas to be utilized at the Site.

5.1.3 Groundwater ESLs

The SF Bay Water Board's ESL guidance document identifies groundwater screening levels for the following concerns:

1) Direct Exposure i.e., MCLs (drinking water standards);
2) Groundwater vapor intrusion;
3) Aquatic habitat protection; and
4) Odor nuisance levels.

Groundwater vapor intrusion is the primary applicable ESL category for PCE, TCE, and cis- 1,2 DCE in groundwater to be utilized at the Site. Direct exposure is the secondary applicable ESLs for PCE, TCE, and cis-1,2 DCE in groundwater ESLs to be utilized at the Site. For comparison purposes, CalEPA Office of Environmental Health Hazard Assessment Public Health Goals (PHGs) for direct exposure to PCE, TCE, and cis-1,2 DCE in groundwater are also discussed.

Table 16 below summarizes the primary commercial/industrial ESLs used to evaluate the potential threat to human health and the environment from concentrations of PCE, TCE, and cis- 1,2 DCE present in soil, soil vapor, and groundwater. In addition, MCLs and PHGs for PCE, TCE, and cis- 1,2 DCE are summarized to identify impacts to the MUN beneficial use of groundwater.

Table 16 – ESLs, MCLs, and PHGs for PCE, TCE, and cis-1,2 DCE

Media	PCE	TCE	cis-1,2 DCE	Basis for ESLs
Soil (mg/kg)	0.08	0.08	0.19	Leaching to Groundwater
Groundwater (µg/L)	5	5	6	MCL
	0.06	1.7	13	PHG
	0.64	1.2	49	Groundwater Vapor Intrusion
Soil Vapor (µg/m³)	67	100	1168	Vapor Intrusion
	2	3	35	Indoor Air Direct Exposure

5.2 Summary of Soil Investigation Results and Evaluation

On-Site concentrations of PCE, TCE, and cis-1,2 DCE in soil and utility backfill has been detected at concentrations that exceed soil ESLs for the protection of human health and beneficial uses of groundwater (Figure 9, Table 14, and Table 18)[85]. Table 17 below summarizes the maximum concentrations of PCE, TCE, and cis- 1,2 DCE detected in on-Site soil and utility backfill relative to the leaching to groundwater ESL.

[85] Figure 9, Table 14 (2004), and Table 18 (2005) illustrate and summarize PCE concentrations in soil reported during initial soil and groundwater investigation conducted between 2003 and 2005. PCE concentrations in soil above 0.08 mg/kg exceed the leaching to groundwater ESL and locations have been highlighted blue on Figure 9.

Table 17 – Maximum Concentrations of PCE, TCE, and cis- 1,2 DCE Detected in On-Site Soil and Utility Backfill

COCs	Leaching to Groundwater ESL (mg/kg)	Maximum Soil (mg/kg)	Maximum Utility Backfill (mg/kg)	Location[86]
PCE	0.08	**532**	**0.106**	See Figure 9 and Figure 10 for historical soil sampling locations. See Figure 11 for utility backfill sampling locations.
TCE	0.08	**17**	0.00179	
cis-1,2 DCE	0.19	**0.71**	0.00151	

1) The leaching to groundwater ESL for PCE listed in SF Bay Water Board's ESL Guidance document and shown in Table 16 above was developed to indicate the PCE concentration threshold where PCE is expected to leach from soil into groundwater. Soil contamination may also contaminate groundwater when seasonally shallow groundwater is in direct contact with contaminated soil.

2) During 2004 and 2005 on-Site soil investigations, 25 soil borings were advanced, and 77 soil samples were collected to depths up to 12 feet bgs. PCE was reported in 21 of the 25 borings. PCE was detected above the leaching to groundwater ESL in 30 soil samples in an area extending from the Site's front entrance to approximately 80 feet to the northwest, 80 feet to the north, and 80 feet to the northeast (Figure 9, Table 14, Table 18) [87].

3) Of the 125 total soil samples collected from the Site investigations to date, PCE has been detected in soil above the leaching to groundwater ESL in 48 samples collected. 42 of these 48 samples were collected at depths within the range of historical groundwater elevations (i.e., at depths where soil was in contact with groundwater) and to depths up to 38 feet bgs on-Site in LW-MW-1D and to depths up to 45.5 feet bgs off-Site in LW-MW-4D (Figure 14, Figure 45, Table 14, Table 18, Table 19, Table 20, Table 21, Table 22, and Table 25)[88].

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[86] Figure 10, Table 20 and Table 21 illustrate and summarize PCE concentrations in soil reported during on and off-Site monitoring well installations.
Figure 11 and Table 22 illustrate and summarize PCE concentrations in soil reported within stormwater conveyance system utility trench and sanitary sewer utility trench backfill.

[87] Figure 9 shows historical soil sample locations for the 2004 and 2005 on-Site soil and groundwater investigations. PCE concentrations in soil above 0.08 mg/kg exceed the leaching to groundwater ESL and have been highlighted on Figure 9.

[88] Figure 45 provides a cross section of the Site and illustrates PCE contamination in soil relative to the water table (i.e., PCE concentrations in soil above leaching to groundwater ESLs are below the water table and available for contaminant transport).
Table 14, Table 18, Table 19, Table 20, Table 21, and Table 22 summarize the soil data that has been collected at the Site. PCE concentrations in soil above 0.08 mg/kg exceed the leaching to groundwater

4) The evidence supports the conclusion that on-Site PCE discharge volumes and/or mechanisms were sufficient to cause widespread exceedances of the leaching to groundwater soil ESL within soil (i.e., release volumes were sufficient to penetrate the unsaturated zone to groundwater). Soil contamination has also been in direct contact with seasonally shallow groundwater, resulting in further groundwater contamination. The on and off-Site soil contamination has resulted in the distribution of PCE contamination in groundwater.

5) Soil investigations conducted to date demonstrate that PCE discharges occurred at the northwest corner of the South Y Shopping Center in front of the Site's entrance where solvent deliveries occurred, near the Site's western storm water conveyance system drop inlet, and inside the building near the DCU (Figure 9)[89]. The on-Site PCE discharges were sufficient to penetrate the unsaturated zone and cause exceedances of soil ESLs to depths up to 38 feet bgs on-Site. Soil contamination has also been in direct contact with seasonally shallow groundwater, resulting in further groundwater contamination.

6) The maximum detection of PCE in soil (532 mg/kg, LW-MW-1-7 [410 mg/kg reported in sample sent to Friedman and Bruya, Inc.]) was found in the northern parking area near the location where solvent deliveries occurred. The paved parking lot surface, installed in approximately 1974, has been graded to convey stormwater, (and any solids, liquids, and dissolved constituents conveyed by the stormwater), to the stormwater system conveyance drop inlets in the northwest and northeast portions of the Site, near the location where the highest concentrations of PCE in soil are detected (Figure 10)[90].

7) The maximum PCE concentration detected in soil on-Site was reported at a depth of 7 feet bgs which is within the range of historical groundwater elevations and is above the 170 mg/kg Site specific estimated dense non-aqueous phase liquid (DNAPL[91]) partitioning threshold (i.e., the lowest PCE concentration in soil at which DNAPL would be expected to be found).

ESL. Soil samples collected below 2 feet bgs are within the range of historical groundwater elevations reported at the Site.
Table 25 provides a summary of the historical groundwater elevations reported in on-Site and off-Site monitoring wells from 2008 through 1st Quarter 2021 and indicates groundwater elevations have been as shallow as approximately 2 feet bgs.

[89] Figure 9 shows the distribution of PCE concentrations in soil at the Site, including beneath the tenant space and within the northern parking lot.

[90] Figure 10 shows the location of the LW-MW-1S/D well pair where the maximum PCE concentration in soil was reported and the well pair location relative to the Site's western stormwater conveyance drop inlet in the northern parking lot.

[91] DNAPLs such as chlorinated solvents, represent a particular class of soil and groundwater contaminant that exist as a separate liquid phase in the presence of water and have a specific gravity greater than water (i.e., will sink). Given the chemical and physical properties (e.g., specific gravity, solubility, vapor phase pressure, etc.) of the DNAPL (i.e., PCE), a ground surface release can give rise to long term contamination, of both the unsaturated (vapor) and saturated (groundwater) zones, that persist in the environment for decades to hundreds of years left unaddressed.

8) PCE was detected in soil samples collected from the temporary wells installed in Lake Tahoe Boulevard downgradient from the Site (between the Site and Tucker Basin). The maximum concentration of PCE in soil (0.820 mg/kg) was detected in LW-MW-7D from 40.5 feet bgs. No step out samples were taken, indicating that lateral and vertical delineation of PCE in soil from on-Site waste discharges is incomplete (Figure 10)[92].

9) PCE in soil was detected beneath the stormwater system and sanitary sewer conveyance lines in utility trench backfill at a maximum concentration of 0.106 mg/kg and 0.0018 mg/kg, respectively (Figure 11 and Table 22)[93]. The detections of PCE in soil within utility backfill provide additional lines of evidence to support the conclusion that on-Site discharges to the stormwater conveyance and sanitary sewer systems occurred.

10) Soil investigations have not been conducted to evaluate the magnitude and extent of contaminant transport to, and downgradient of, Tucker Basin.

11) No confirmation soil sampling has been conducted in areas within the influence of the operating AS/SVE system or on-Site areas with identified soil contamination above the leaching to groundwater ESL (e.g., soil contamination beneath the existing building or along utility corridors). The evaluation of potential threat to groundwater quality and indoor air posed by the remaining soil contamination is incomplete.

5.3 Summary of Soil Vapor Investigation Results and Evaluation

On-Site concentrations of PCE, TCE, and cis-1,2 DCE in soil vapor have been detected at concentrations that exceed the vapor intrusion ESLs for protection of human health. Table 23 below summarizes the historic and current maximum concentrations of the PCE, TCE, and cis-1,2 DCE detected in soil vapor at the Site.

Table 23 – Maximum Concentrations of PCE, TCE, and cis-1,2 DCE Detected in On-Site Soil Vapor

COCs	Vapor Intrusion ESL ($\mu g/m^3$)	Indoor Air ESL ($\mu g/m^3$)	Maximum ($\mu g/m^3$)	Recent[94] ($\mu g/m^3$)	Location
PCE	67	2	**8,136,000**	**24,000**	See Figure 12 for soil vapor sampling locations.
TCE	100	3	**44,571**	**130**	
cis-1,2 DCE	1200	35	**102,960**	44	

[92] Figure 10 shows the location of monitoring well LW-MW-7D and associated soil analytical results.
[93] Figure 11 and Table 22 illustrate and summarize soil analytical results from stormwater conveyance system and sanitary sewer backfill.
[94] "Recent" is data collected in September 2021 for Third Quarter 2021 reporting.

1) Recent[95] detections of PCE in soil vapor exceed the vapor intrusion ESL (Figure 12 and Table 1)[96]. The recent soil vapor data indicates that on-Site contamination still poses a threat to human health and demonstrates that additional actions are needed to (1) delineate the extent of the on- and off-Site soil vapor plume, (2) evaluate the potential vapor intrusion risk to buildings adjacent to and overlying areas with remaining contamination identified (e.g. existing on-Site building), including off-Site areas (e.g. Tucker Basin), (3) evaluate the potential vapor intrusion risk to buildings overlying the groundwater contaminant plume, and (4) evaluate if mitigation measures will be needed following AS/SVE system cessation.

2) The current maximum PCE, TCE, and cis-1,2 DCE concentrations in soil vapor at the Site exceeds the vapor intrusion and direct exposure ESLs (Figure 12 and Table 1)[97]. The maximum PCE concentrations in soil vapor were reported in soil vapor probe VP-2, located adjacent to the northwest stormwater conveyance system drop inlet and monitoring well pair LW-MW-1S/D (Figure 12)[98]. The maximum PCE and TCE concentrations in soil vapor were reported more than seven years after the remediation system had been in operation indicating that significant contamination was present prior to remedial implementation, and that significant residual PCE contamination remains on-Site.

3) On-Site soil vapor probes (VP-5, VP-6, and VP-9) located directly adjacent to the existing building have shown PCE and TCE concentrations that exceed the vapor intrusion and direct exposure ESLs (Figure 12 and Table 1)[99]. Maximum PCE (128,820 µg/m^3) and TCE (1,074 µg/m^3) concentrations were reported in VP-5 as recently as June 2018 (i.e., after eight years of AS/SVE system operation), indicating that additional evaluation of potential threat to human health is warranted.

4) The extent of soil vapor above ESLs remains undefined in the northwestern portion of the Site. Soil vapor probe VP-3, located near the northern property boundary,

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[95] Id.

[96] Figure 12 shows the location of the soil vapor probe monitoring well network. Recent and maximum concentrations of PCE and TCE in soil vapor are shown in annotated tables. PCE concentrations above 67 µg/m^3 exceed the vapor intrusion to indoor air ESL. Table 1 provides a summary of the soil vapor analytical data collected at the Site. Concentrations above 67 µg/m^3 exceed the vapor intrusion to indoor air ESL.

[97] Figure 12 and Table 1 illustrate and summarize soil vapor analytical results collected from vapor probes installed in the northern parking lot area during quarterly monitoring events. PCE concentrations in soil vapor above 67 µg/m^3 and 2 µg/m^3 exceed the vapor intrusion to indoor air and direct exposure ESLs, respectively.

[98] Figure 12 shows the location of soil vapor probe VP-2 relative to monitoring well pair LW-MW-S/D and the western the stormwater conveyance system drop inlet in the northern parking lot.

[99] Figure 12 and Table 1 illustrate and summarize soil vapor analytical results collected from vapor probes installed in the northern parking lot area, including vapor probes VP-5, VP-6, and VP-9 (near the building), during quarterly monitoring events relative to the existing building. PCE concentrations in soil vapor above 67 µg/m^3 exceed the vapor intrusion to indoor air ESL. The figure shows the monitoring network is not capable of delineating the extent of PCE in soil vapor from on-Site discharges.

regularly reports PCE concentrations in soil vapor above vapor intrusion and indoor air ESLs (Figure 12 and Table 1)[100]. A maximum concentration of 881,400 µg/m^3 PCE was reported during the June 2018 sampling event (i.e., after eight years of AS/SVE system operation). Additional evaluation of the extent of soil vapor concentrations above ESLs and the potential threat to human health is needed to support design and implementation of interim and final remedial actions.

5) No indoor air sampling events have been conducted at the Site to evaluate site conditions when temporary mitigation measures are not in place (i.e., when the AS/SVE system is not being operated). Soil vapor probes have shown significant variability in PCE, TCE, and cis-1,2 DCE concentrations. Soil vapor point VP-2 has reported the maximum on-Site PCE concentration and has ranged from 8,131,600 µg/m^3 (2017) to 0.64 µg/m^3 (2015) since installation. The range of PCE concentrations in soil vapor suggests significant temporal and seasonal variability. Indoor air sampling conducted in July (Figure 30 and Table 12)[101] and December 2015 (Figure 31 and Table 13)[102] reported detectable PCE concentrations (all below the indoor air ESL) in 11 of the 12 samples collected within the four tenant spaces sampled demonstrating residual PCE mass poses a potential threat to human health. Verification indoor air sampling will be needed following cessation of AS/SVE operation (AS/SVE remediation system was operating during the July and December 2015 indoor air sampling events) to evaluate potential risk from the direct contact and vapor intrusion exposure pathways and to support recommendations about remedial actions and mitigation measures.

5.4 Summary of Groundwater Investigation Results and Evaluation

On-Site concentrations of PCE, TCE, and cis- 1,2 DCE in groundwater vapor have been detected at concentrations that exceed the ESLs for protection of human health. Table 24 below summarizes the historic and current maximum concentrations of the PCE, TCE, and cis- 1,2 DCE in groundwater at the Site.

Table 24 – Maximum Concentrations of PCE, TCE, and cis-1,2 DCE Detected in On-Site Groundwater

COCs	MCL (µg/L)	Maximum (µg/L)	Recent[103] (µg/L)	Location
PCE	5	**5,380**	**200**	See Figure 22 for groundwater sampling locations.
TCE	5	**28.1**	**7.80**	
cis-1,2 DCE	6	**29.0**	1.50	

[100] Id.
[101] Figure 30 illustrates sample locations during the July 2015 indoor air sampling event.
[102] Figure 31 illustrates sample locations during the December 2015 indoor air sampling event.
[103] "Recent" is data collected in September 2021 for Third Quarter 2021 reporting.

1) The Dischargers' groundwater investigations have not defined the full lateral and vertical extent of contamination originating from the Site. No step out groundwater sampling has been performed downgradient of Tucker Avenue following the Phase II groundwater investigation (Figure 13)[104] or in areas downgradient of the off-Site monitoring wells (Figure 2)[105]. Off-Site well pairs, OS-3 (Roger Avenue) and OS-4 (James Avenue), are located approximately 1,000 feet from the Site and represent the most downgradient areas investigated relative to 2017 CAO requirements. The Dischargers' groundwater investigations have not included data collection below 80 feet bgs. During the SCAP Regional PCE Investigation, contiguous PCE contamination was found to extend approximately a mile from the Site to depths up to 240 feet bgs (Figure 4 and Figure 5)[106].

2) Historic and recent concentrations of COCs in groundwater at the Site exceed MCLs designed to protect human health and the environment. The highest historical maximum concentrations of COCs have been detected in shallow and middle zone groundwater monitoring well pair LW-MW-1S/D, located in the northwest corner of the Site near the stormwater system conveyance drop inlet.

3) PCE concentrations up to 5,150 µg/L were reported in groundwater monitoring well LW-MW-1S prior to remedial implementation and have ranged between 5,380 µg/L and 1.5 µg/L during AS/SVE remediation system operation. The PCE concentrations reported in LW-MW-1S are the highest concentrations reported within the entire regional PCE plume. LW-MW-1D was not regularly monitored prior to the 2017 CAO but was added to the quarterly monitoring following 2017 CAO issuance. From May 2017 to September 2020, PCE concentrations ranged between 9.2 µg/L and 430 µg/L in LW-MW-1D; LW-MW-1D is located outside the influence of the AS/SVE system (Figure 22 and Table 2)[107].

4) The maximum historical concentrations of PCE detected in groundwater exceed the MCL by multiple orders of magnitude (Figure 22 and Table 2)[108]. The PCE concentrations above 2,000 µg/L reported during quarterly monitoring indicate that DNAPL was likely present on-Site prior to, and during AS/SVE remediation system operation. The highest PCE concentrations detected in this on-Site monitoring well LW-MW-1S, and the related likely presence of PCE DNAPL on-Site, confirms the identification of the Site as a source of shallow and middle zone groundwater PCE contamination.

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[104] Figure 13 illustrates the location of Transect 2 (orange dots).
[105] Figure 2 shows the location of off-Site monitoring well pairs OS-2 through OS-4.
[106] Figure 4 and Figure 5 shows the estimated vertical extent (Figure 5) of the regional PCE plume from the Site to the Tahoe Keys along transect A-A' (Figure 4).
[107] Figure 22 shows the historic and recent PCE concentrations reported in the on- and off-Site monitoring well network and the sampling dates are shown in annotated tables.
Table 2 provides a summary of groundwater analytical results from the quarterly monitoring program conducted at the Site.
[108] Id.

5) Groundwater data indicate that the on-Site PCE contamination (DNAPL, soil vapor, and soil) had partitioned into groundwater and was transported off-Site at concentrations above the MCL in the shallow and middle zones prior to and during interim remedial action implementation (2010) as discussed below. This PCE contamination was not remediated and continues to migrate off-Site unabated.

6) In 2008 (i.e., prior to interim remedial action implementation), PCE was detected above the MCL in six of the eight temporary, dual-zone monitoring wells installed with concentrations up to 137 µg/L (LW-MW-1D) reported on-Site and up to 100 µg/L (LW-MW-4D) downgradient from the Site within Lake Tahoe Boulevard and upgradient from Tucker Basin (Figure 16 and Figure 17)[109].

7) Quarterly groundwater monitoring during active remediation has consistently shown PCE concentrations above the MCL in shallow zone groundwater monitoring wells located along the northern (i.e., downgradient of AS/SVE area) property boundary; the shallow zone's groundwater flow direction is generally towards the north-northeast property boundary (Figure 32)[110]. The maximum concentration of PCE detected in these northern property boundary monitoring wells was 1,400 µg/L (shallow zone monitoring well LW-MW-5S in 2010) (Figure 22 and Table 2)[111].

8) The quarterly groundwater monitoring program did not include middle zone wells until 2017 CAO issuance. From 2017 to present, the maximum PCE concentrations in the on-Site and off-Site middle zone well pairs were 430 µg/L (LW-MW-1D) and 1,580 µg/L (OS-2M; located to the north of Tucker Basin), respectively (Figure 22 and Table 2)[112]. Middle zone groundwater is not within the influence of the AS/SVE system and any dissolved phase PCE contamination (i.e., PCE dissolved in and transported with groundwater) would be subject to the local and regional groundwater hydraulic gradients and natural attenuation processes.

9) Recent sampling detected concentrations of PCE in on-Site shallow (MW-5S) and middle (MW-1D) zone wells and off-Site shallow (OS-1) and middle zone (OS-2M, OS-3M, and OS-4M) wells exceeding the MCL, demonstrating that PCE continues to persist and migrate, unabated, in the subsurface (Figure 22 and Table 2)[113] .

[109] Figure 16 and Figure 17 show PCE concentrations in the shallow (Figure 16) and middle (Figure 17) zone groundwater during monitoring well installation in 2008.
[110] Figure 32 illustrates the general groundwater flow direction within the shallow zone based on 23 quarterly monitoring events conducted between 2009 and 2015.
[111] Figure 22 shows the historic and recent PCE concentrations reported in the on- and off-Site monitoring well network and the sampling dates are shown in annotated tables.
Table 2 provides a summary of groundwater analytical results from the quarterly monitoring program conducted at the Site.
[112] Id.
[113] Id.

10) The depth to groundwater ranges from approximately 2 to 19 feet bgs in shallow zone monitoring wells (Table 25)[114]. The reported range of groundwater elevations demonstrate that the majority of on-Site contaminated soil (i.e., soil with contamination above soil ESLs) are, or have been, in direct contact with groundwater. Because the depth to groundwater is shallow, the presence of the PCE beneath the Site is a potential threat to human health via vapor intrusion to indoor air at the Site and in nearby commercial buildings, in addition to the impacts and threats posed to the groundwater pathway (i.e., water supply wells) from the on-Site contamination.

11) Groundwater in the shallow zone has been reported to flow in a northerly direction and has ranged from northeast to northwest (Figure 46 and Figure 32)[115]. Groundwater in the middle zone has been reported to flow in a northerly direction and has ranged from west to northeast (Figure 47)[116]. These estimates of groundwater flow directions are consistent with both the historical range of estimated groundwater flow directions and the orientation of the regional PCE plume.

12) Groundwater flow directions and gradients within the regional PCE plume area have been affected by historical municipal water supply well pumping (Figure 48)[117]. Supply well pumping creates cones of depression and increases groundwater gradients (i.e., increases PCE-contaminated groundwater velocities) toward the pumping wells. Increased PCE velocities (i.e., shorter travel times than general calculations indicate under ambient conditions) within the capture zone of pumping supply wells is to be expected.

13) Groundwater elevation monitoring (Table 25)[118] has confirmed the presence of downward vertical gradients on- and off-Site. The estimate of downward vertical gradients is consistent with the regional PCE plume geometry which shows a "diving" plume (i.e., depth of detected PCE contamination increases with distance away from release area).

14) The SCAP Regional PCE Investigation confirmed a connection between the Site and the regional PCE plume, including downgradient impaired supply wells). The

[114] Table 25 provides a summary of the depth to water measurements reported during quarterly monitoring.

[115] Figure 46 presents the estimated groundwater flow direction in the shallow zone during recent quarterly monitoring.

Figure 32 illustrates the general groundwater flow direction within the shallow zone based on 23 quarterly monitoring events conducted between 2009 and 2015.

[116] Figure 47 presents the estimated groundwater flow direction in the middle zone during recent quarterly monitoring.

[117] Figure 48 identifies municipal supply wells and source water protection areas. The source water protection areas give indication of the areas potentially affected by historical pumping (i.e., 2-year, 5-year, and 10-year estimated travel times to municipal wells are shown).

[118] Table 25 provides a summary of groundwater elevation measurements conducted during quarterly monitoring events. Differences in groundwater elevations within the same well pairs indicate downward vertical gradients are present (i.e., comparing groundwater elevations between shallow and middle zones in same well pair)

SCAP Regional PCE Investigation collected depth-discrete samples from areas where estimated “data gaps” existed and provide an indication of the general geometry of the regional PCE plume (Figure 3. Figure 4, and Figure 5)[119]. Evaluation of the SCAP investigation results and the Dischargers’ off-Site groundwater investigation results (e.g. 2008 temporary well installation)(Figure 16 and Figure 17)[120] and 2019 Phase II groundwater investigation (Figure 13)[121] (within Lake Tahoe Boulevard and Tucker Avenue), including cross sections and isoconcentration maps, show contiguous contamination extending from the Site to the impaired receptors (Figure 3, Figure 4, and Figure 5)[122] and provide a clear demonstration of the Site’s contribution to the regional plume.

15) Dischargers’ groundwater investigations conducted within Lake Tahoe Boulevard following 2017 CAO issuance (Figure 13)[123] did not target the depths intervals above and below a silt layer previously believed to be limiting downward migration and located at approximately 30 feet bgs (i.e., between the shallow [~10-25 feet bgs] and middle [~40-50 feet bgs] zone screen intervals). Continuous logging of boring SB-1 showed “fine grained sandy silt layers about 1 foot thick were encountered between 34 and 40 feet bgs” (Figure 49)[124]. No depth-discrete groundwater samples were collected between the depths of 26 to 38 feet bgs within Lake Tahoe Boulevard. The evaluation of potential contaminant transport between the shallow and middle zones is incomplete.

16) The maximum concentrations of PCE and PCE degradation by-products, TCE and cis-1,2 DCE, found in off-Site groundwater (i.e., the regional PCE plume) during the Dischargers’ investigations following 2017 CAO issuance, are 1,680 µg/L (CPT-GW-11), 49.5 µg/L (CPT-GW-11), and 37.2 µg/L (OS-2M)), respectively. CPT-GW-11 and OS-2M (Figure 2)[125] are located immediately north of the Tucker Basin and within 500 feet of the Site. Tucker Basin and the former Big O Tires site

[119] Figure 3 displays the estimated lateral extent of the regional PCE plume.
Figure 4 displays the estimated lateral extent of the regional PCE plume and the location of cross section line A-A’ that extends from the Site north to Tahoe Keys.
Figure 5 displays the vertical extent of the regional PCE plume originating from the Site north to impaired municipal supply well TKWC #2.

[120] Figure 16 and Figure 17 show PCE concentrations in shallow (Figure 16) and middle (Figure 17) zone groundwater during monitoring well installations in 2008.

[121] Figure 13 shows PCE concentrations in groundwater within the two transects advanced down-gradient of the Site. Also included in the figure are the PCE concentrations in groundwater from the Dischargers Self Directed Source Area Investigation in June and July 2017.

[122] Figure 3 displays the estimated lateral extent of the regional PCE plume.
Figure 4 displays the estimated lateral extent of the regional PCE plume and the location of cross section line A-A’ that extends from the Site north to Tahoe Keys.
Figure 5 displays the vertical extent of the regional PCE plume originating from the Site north to impaired municipal supply well TKWC #2.

[123] Figure 13 shows the location and depths of groundwater samples collected within the two transects advanced by the Dischargers down-gradient of the Site.

[124] Figure 49 contains the log of boring LTLW SB-1.

[125] Figure 2 and Figure 13 show the locations of boring CPT-GW-11 (Figure 13) and monitoring well OS-2M (Figure 2).

are the only identified potential sources between the Site and the boring and monitoring well locations. Regardless of the potential contribution of any additional sources, the concentrations are lower than the maximum PCE concentrations detected on-Site (Table 2 and Figure 22)[126] and illustrates a concentration gradient from the Site to the regional plume (i.e., the highest PCE concentrations within the regional PCE plume are reported at the Site and these concentrations decrease with distance from the Site).

17) Available groundwater data does not indicate PCE concentrations above MCLs in any of the investigated areas considered to be upgradient of the Site (Figure 13 and Figure 34)[127] and does not provide any indication of potential upgradient sources to the Site. The Site is the origin of the regional PCE plume.

6 REMEDIAL ACTIONS CONDUCTED AND OBSERVATIONS

6.1 Remedial Actions Conducted

The following source removal activities have been conducted at the Site from 2010 to the present:

1) In April 2010, an AS/SVE system began operation at the Site to remediate PCE and PCE degradation by-products such as TCE and cis-1,2 DCE in soil and shallow groundwater within the predefined "source zone area" at the Site (Figure 20 and Figure 21; E_2C, 2010)[128]. An estimated mass of approximately 982 pounds of volitale organic compounds (VOCs) has been removed by the currently operating AS/SVE system to date (Table 26; PES 2021).

2) In September and October 2017, six batch pumping events were performed on shallow zone monitoring wells LW-MW-1S and LW-MW-5S (Figure 2; E_2C, 2017)[129] to evaluate additional remedial options to remove on-Site PCE contamination. A total of 3,850 gallons of PCE-affected groundwater was removed (2,800 gallons from LW-MW-1S and 1,050 gallons from LW-MW-5S). The largest reduction in PCE concentrations was observed in middle zone monitoring well MW-LW-1D, which decreased from 210 µg/L on September 27, 2017 to 7.3 µg/L on November 3, 2017. No additional batch pumping activities were performed because Lahontan Water Board staff expressed concerns that batch pumping

[126] Figure 22 shows the historic and recent PCE concentrations reported in the on- and off-Site monitoring well network and the sampling dates are shown in annotated tables.
Table 2 provides a summary of groundwater analytical results from the quarterly monitoring program conducted at the Site. The maximum PCE concentration reported was 5,380 in LW-MW-1S on May 11, 2011. This is the highest PCE concentration reported in the regional PCE plume.
[127] Figure 13 and Figure 34 show PCE concentrations in groundwater during the Dischargers "Phase III" (Figure 34) and Self-Directed Source Area Investigation (Figure 13).
[128] Figure 20 and Figure 21 show the approximate lateral extent of the soil and shallow groundwater cleanup areas (Figure 20) and AS/SVE system wells relative to soil vapor and groundwater monitoring well locations (Figure 21).
[129] Figure 2 shows the location of LW-MW-1S and LW-MW-5S.

activities could affect the results of the upcoming January 2018 Phase I off-Site groundwater investigation (Figure 8)[130] (i.e., continued batch pumping could decrease PCE concentrations in off-Site groundwater and investigation results may not be representative). The Dischargers' consultants concluded batch pumping is feasible to remove on-Site PCE from groundwater based on the monitoring results conducted.

6.2 Remedial Action Observations

Remedial actions were not implemented in an appropriate timeframe to effectively mitigate the lateral and vertical migration of PCE contamination from the Site. Remedial actions were implemented approximately 30 years after the estimated initial discharge(s) of waste to the environment. Once implemented, the remedial actions were only designed to remediate on-Site vadose zone soils and shallow zone groundwater contamination within a predefined "source area zone", approximately 375 feet (length) by 145 feet (width) by 30 feet deep, through volatilization and recovery (Figure 20, Figure 50, and Table 6)[131]. The AS/SVE system is not capable of remediating contamination outside this zone, including off-Site groundwater contamination that has migrated downgradient of Lake Tahoe Boulevard (i.e., the downgradient lateral limit of the AS/SVE system's zone of influence), and at depths below the influence of the air sparge wells (i.e., the vertical limit of the AS/SVE system's zone of influence).

PCE contamination has been detected above the MCL at locations immediately downgradient of the Site. Groundwater data indicates that PCE contamination continues to migrate off-Site in areas both within, and beyond, the limits of AS/SVE system's horizontal zone of influence (Figure 50)[132].

Portions of the Site with on-Site PCE contamination in soil detected above the leaching to groundwater ESL (Figure 9)[133] have not been excavated (i.e., removed) or completely delineated, and no evaluation (i.e., confirmation soil sampling) has been conducted by the Dischargers since AS/SVE remedial system commencement. Additional investigation is required to assess current concentrations of PCE in on-Site soil and to delineate the extent of PCE in soil from on-Site waste discharges. However, the AS/SVE system that has been installed and operated is expected to have significant benefit in reducing PCE contamination concentrations in on-Site soil as evidenced by the 982 pounds of VOCs removed by the AS/SVE system (Table 26)[134]. Even so, the AS/SVE system operation has not successfully remediated on-Site PCE contamination such that recent PCE detections in on-Site and off-Site groundwater and soil vapor are below the PCE MCL of

[130] Figure 8 shows PCE concentrations in groundwater during the "Phase I" investigation.
[131] Figure 20, Figure 50 and Table 6 show the approximate lateral extent of the soil and shallow groundwater cleanup areas (Figure 20), the radius of influence of the air sparge system (Figure 50), and the depths of the air sparge wells (Table 6; AS-1 through AS-27).
[132] Figure 50 shows the estimated radius of influence of the air sparge system.
[133] Figure 9 shows where PCE in soil has been detected at concentrations above the leaching to groundwater ESL.
[134] Table 26 provides a summary of the pounds of contaminants [cumulative VOCs extracted) removed by the AS/SVE system.

5 µg/L or the 67 µg/m^3 ESL for vapor intrusion, respectively. This observation is supported by the recent detections of PCE above the MCL in groundwater migrating off-Site (Figure 22)[135] and the PCE concentrations in on-Site soil vapor above ESL for vapor intrusion (Figure 12)[136]. Despite 10 years of AS/SVE system operation, on-Site PCE contamination continues to be a threat to the beneficial use of groundwater and may also represent a threat to human health via the vapor intrusion to indoor air pathway.

Remediation system monitoring show mass removal rates are decreasing; approximately 5 pounds of PCE mass was removed between January and October 2021 (Table 26)[137]. Due to declining AS/SVE system performance, and known residual mass at the Site, the Dischargers must evaluate other remedial options to enhance contaminant mass removal such as chemical oxidation and batch pumping.

Additional on- and off-Site remedial actions are necessary to clean up soil, soil vapor, and groundwater contamination, control off-Site contaminant migration, and restore the MUN beneficial use of groundwater. A feasibility study and remedial action plan are required. State Water Board Resolution No. 68-16, "Statement of Policy with Respect to Maintaining High Quality of Waters in California," and Resolution 92-49, "Policies and Procedures for Investigation and Cleanup and Abatement of Discharges Under Water Code Section 13304," apply to the Site and require groundwater cleanup of PCE and PCE degradation by-products to background concentrations (i.e., non-detect)

7 SUMMARY OF RECEPTOR IMPACTS

Municipal, small community system (SCS), and domestic supply wells (collectively referred to as supply wells) in the South Y Area have been taken off-line, destroyed, or require wellhead treatment to remove PCE from groundwater prior to distribution while many others remain threatened by the regional PCE plume (Figure 18 and Figure 26)[138]. The following terms and definitions were established to complete the receptor evaluation presented in Table 8.

[135] Figure 22 shows the distribution of PCE concentration in shallow and middle zone groundwater recently reported during quarterly groundwater monitoring for the Site.
[136] Figure 12 shows the distribution of PCE concentration in soil vapor recently reported during quarterly soil vapor monitoring for the Site.
[137] Table 26 shows PCE mass removal rates (VOCs Extracted) for the AS/SVE system.
[138] Figure 26 displays a recent snapshot of the approximate lateral extent of the regional PCE plume and locations of the supply wells in the South Y Area as of September 2020 (e.g., following completion of SCAP Regional PCE Investigation field investigation).
Figure 18 illustrates the approximate lateral extent of the regional PCE plume and identifies:

- Impairment/impacts to municipal supply wells over time;
- Date/concentration when PCE was first detected above the MCL (if applicable);
- Date/concentration when maximum PCE concentration was detected in municipal supply well;
- Date/concentration from the most recent sampling event; and
- Current status of municipal well (active, active with well head treatment, inactive, or destroyed).

- Impaired indicates PCE has been detected in the supply well at a concentration that exceeds the MCL.

- Impacted indicates PCE has been detected in the supply well at a concentration above the reporting limit and below the MCL.

- Threatened indicates PCE has not been detected in the supply well above the reporting limit and supply well is located within the estimated lateral extent of the 0.5 µg/L isocontour of the South "Y" PCE Plume or 3,000 feet downgradient/cross gradient from the estimated lateral extent of the 0.5 µg/L isocontour of the regional PCE plume.

- Threatened/Potential Receptor indicates the supply well has not been sampled for PCE but well is located within the lateral extent of the 0.5 µg/L isocontour of the regional PCE plume.

- Threatened/Potential Future Receptor indicates the supply well has not been sampled for PCE and well is located within 3,000 feet downgradient/cross gradient from the estimated lateral extent of the 0.5 µg/L isocontour of the regional PCE plume.

The following section summarizes impacts to receptors located within, or in proximity to, the regional PCE plume and provides a chronology of impairment/impacts to the supply wells in the South Y Area.

7.1 Municipal Water Supply Wells

Municipal supply wells spanning three water districts (Figure 51)[139] have been impaired, impacted, or remain threatened by the regional PCE plume. As a result, impaired supply wells have been removed from service, have been destroyed, or require wellhead treatment to remove PCE from groundwater prior to use for the municipal water supply. The three water districts include the District, LBWC and TKWC.

PCE contamination was first discovered in municipal supply wells in 1989 (Figure 18 and Table 8)[140], after public water systems were required to test for VOCs. Three municipal supply wells initially showed impairment: LBWC #3, LBWC #4 (owned by LBWC) and Julie (owned by the District). In 1991, the District's Clement well became impaired. In 2002, TKWC #2 became impaired (owned by TKWC). In 2014, LBWC#2 and LBWC #5 (owned by LBWC) became impaired. The timing of municipal wells impairment downgradient from the Site provides indication of the regional PCE plume's migration over time.

[139] Figure 51 shows the three water district boundaries and select municipal supply wells within the jurisdictions.

[140] Figure 18 provides a summary of PCE concentrations and operation status of the municipal supply wells within and adjacent to the regional PCE plume. Table 8 summarizes municipal supply wells within and adjacent to the regional PCE plume.

7.1.1 LBWC

LBWC historically operated five municipal supply wells to serve approximately 975 customers and provide community fire protection.

1) LWBC #1: This well is active and threatened by the northwestern portion of the regional PCE plume.

2) LWBC #2: This well was impaired by the regional PCE plume in 2014, removed from service and destroyed in 2020.

3) LWBC #3: This well was first determined to be impaired by the regional PCE plume in 1989 (first time well was sampled for PCE) and was removed from service and destroyed in 2011.

4) LWBC #4: This well was first determined to be impaired by the regional PCE plume in 1989 (first time well was sampled for PCE), removed from service and destroyed in 2020.

5) LWBC #5: This well was impaired by the regional PCE plume in 2014 and was removed from service from 2014 through 2021 until the well was fitted with a granular activated carbon (GAC) wellhead treatment system to remove PCE utilizing Proposition 1 and Proposition 68 funds. The well was brought back on-line in 2021.

6) Following the impairment of LBWC #2 and LBWC #5, LBWC began purchasing water in 2014 from the District through an intertie agreement to meet the service area demand.

7) LBWC provides approximately 5 percent of the community water supply.

7.1.2 TKWC

TKWC has three municipal supply wells that serve approximately 1,600 residential and 4 commercial properties.

1) TKWC#1: This well has been impacted by the regional PCE plume since 1996 and it is expected to become impaired by the regional PCE plume within the next few years.

2) TKWC #2: This well was impaired by the regional PCE plume in 2002 and has been fitted with GAC wellhead treatment to remove PCE, reducing its operational capacity from 1,000 gallons per minute (gpm) to approximately 550 gpm.

3) TKWC #3: This well is located approximately 3,000 feet from the northwest portion of the regional PCE plume and threatened by the regional PCE plume.

4) TKWC purchases water from the District and LBWC through emergency intertie agreements on an “as needed” basis.

5) TKWC provides approximately 10 percent of the community water supply.

7.1.3 The District

The District has 16 active municipal supply wells that serve over 14,000 residential and 660 commercial properties.

1) Julie Well: This well was first determined to be impaired by the regional PCE plume in 1989 (first time well was sampled for PCE), operated with wellhead treatment from 1992 through 1999, and destroyed in 2006.

2) Clement Well: This well was impaired by regional PCE plume in 1991, operated with wellhead treatment from 1992 through 1999, and has remained inactive since 1999.

3) Tata #4 Well: This well was first determined to be impaired by the regional PCE plume in 1989 (first time well was sampled for PCE), operated with wellhead treatment from 1992 through 1999, and was destroyed in 2006.

4) South Y Well: This well was impacted by the regional PCE plume in 2001 and was destroyed in 2006.

5) Between 1992 through 1999, the District operated a Packed Column Air Stripper to remove PCE and methyl tertiary-butyl ether (MTBE) from groundwater pumped from the Julie, Clement, Tata #4, and South Y wells.

6) Bayview Well: This well is considered threatened. It is located within approximately 3,500 feet of the regional PCE plume. Although Proposition 1-funded groundwater modeling work did not show current impacts in any of the modeling scenarios developed to support interim remedial action development for the regional PCE plume, this well accounts for approximately 40 percent of the community water supply and has been identified as a critical component of community water supply. In consideration of the modeling uncertainty and large source water supply capacity of the well, its identification as a threatened well is a conservative approach in assessing potential threat.

7) The District has been providing water to LBWC and TKWC customers through intertie agreements.

8) The District provides about 82 percent of the community water supply.

The District has been directly involved with investigating the regional PCE plume and impacts to supply wells since the initial discovery of PCE contamination. The District originally partnered with the Lahontan Water Board in the 1990s to perform regional scale investigations to identify source(s) and extent of PCE contamination utilizing funding from the State Water Board's Cleanup and Abatement Account. In 2000, the District enacted its first groundwater ordinance and developed a Groundwater Management Plan (GMP) focused on protecting groundwater resources from manmade chemicals, specifically PCE and MTBE. The District updated the GMP in 2014 and the next update is anticipated to be implemented in 2022. In the 2014 GMP, the District identified Groundwater Vulnerability Areas and provided a map illustrating three different Source Area Protection Zones (Figure 48)[141] (i.e., Zone A, Zone B5, and Zone B10 showing two, five, and ten-year time estimates for particle (i.e., contaminant) migration to municipal water supply wells). Borings advanced during the SCAP Regional PCE Investigation showed PCE concentrations above MCL at locations near the edge of Zone A for TKWC #1 (Figure 3)[142], suggesting the regional PCE plume may impair the supply well in as little as two years.

Impaired municipal supply wells, LBWC#2, LBWC #5, and TKWC #2, had a total source capacity of 3.25 million gallons per day (MGD). The District estimates source capacities of municipal supply wells have declined by 10% or 32.4 MGD since 2011 due to impairment from the regional PCE plume[143]. TKWC #1, currently impacted and expected to be impaired within as little as two years, has a source capacity of 1.44 MGD, which represents over 50% of the TKWC water system's maximum daily demand. The District estimates that if LBWC, TKWC, and District sources capacities are reduced by an additional 5.72 MGD, the water purveyors will no longer be able to satisfy water demands[144].

The District has mutual aid and assistance agreements for the emergency provision of drinking water using inter-tie connections from its water distribution system to both the LBWC and TKWC water systems and has been providing water to both TKWC and LBWC through emergency interties to meet each of their water system demands[145]. In 2019, the District provided approximately 2.79 million gallons to LBWC. Also, LBWC installed an inter-tie connection with TKWC in 2021.

7.2 Small Community and Domestic Supply Wells

Multiple SCS and domestic supply wells have been impaired, impacted or are threatened by the regional PCE plume (Figure 26 and Table 8)[146]. SCS and domestic supply records indicate that there are approximately two (2) active SCS and nine (9) active domestic

[141] Figure 48 illustrates the three different Source Area Protection Zones for each municipal supply well.
[142] Figure 3 shows the estimated lateral extent of the regional PCE plume. The location(s) with PCE concentrations above the MCL near the Source Area Protection Zone A boundary for TKWC#1 need to be inferred from Figure 48.
[143] 2020, Tahoe South Subbasin (6-005.01) Annual Report 2019 Water Year, page 32, South Tahoe Public Utility District, April 27.
[144] 2021, Tahoe South Subbasin (6-005.01) Annual Report 2020 Water Year, page 33, South Tahoe Public Utility District, March 29
[145] Id.
[146] Figure 26 and Table 8 illustrates and summarizes, respectively, small community system and domestic wells within and adjacent to the regional PCE plume.

wells in or near areas overlying the regional PCE plume. Approximately 20 SCS and domestic supply wells in the South Y Area have been sampled for PCE between 1989 and 2019, including the sampling of eight wells as part of the 2019 SCAP Regional PCE Plume Investigation. Additional investigation of SCS and domestic wells, including wells with an unknown status (operational status has not been verified), is necessary to evaluate the potential threat to human health and to determine whether replacement water is necessary at the specific properties.

7.2.1 SCS Supply Wells

Three SCS supply wells have been impaired by the regional PCE plume.

1) Old Stage Mobile Home Park Well: This well was determined to be impaired by the regional PCE plume in 1989 (first time well was sampled for PCE), removed from service, and destroyed in 2001.

2) Rockwater Well: This well was determined to be impaired by the regional PCE plume in 2014 (first time well was sampled for PCE), removed from service, remains inactive, and cannot be sampled because of inoperable well pump.

3) 868 Emerald Bay Road Well: The property owner has reported that this well was impaired by the regional PCE plume in 1996 (no PCE sampling records were located), removed from service, remains inactive, and cannot be sampled because of inoperable well pump.

Two SCS supply wells have been impacted by the regional PCE plume.

1) Former Crystal Range Motel Well: This well was determined to be impacted by the regional PCE plume in 1999 (first time well was sampled for PCE), removed from service, and destroyed in 2006.

2) Tahoe Valley Elementary School Well: This well was determined to be impacted by the regional PCE plume in 1999, removed from service in 2013, and remains inactive.

Two active SCS supply wells identified are threatened by the regional PCE plume.

1) Jalapeno's Taqueria and Emerald Pines Cabins wells were most recently sampled in 2019 during the SCAP Regional PCE Plume Investigation and PCE was not detected above the reporting limit of 0.5 µg/L.

7.2.2 Domestic Supply Wells

Four domestic supply wells have been impaired by the regional PCE plume. Two of the impaired domestic wells remain inactive while the other two have been destroyed.

1) 883 Eloise Avenue Well: This well was determined to be impaired by the regional PCE plume in 2014, removed from service, remains inactive, and cannot be sampled because of inoperable well pump.

2) 903 Eloise Avenue Well: This well was determined to be impaired by the regional PCE plume in 2015, removed from service, and remains inactive.

3) 848 Glorene Avenue (former preschool) Well: This well was determined to be impaired by the regional PCE plume in 2003 (first time well was sampled for PCE), removed from service, and destroyed in 2003.

4) 2111 Dunlap Drive Well: This well was determined to be impaired by the regional PCE plume in 1999 (first time well was sampled for PCE), removed from service, and destroyed in 1999.

One active domestic supply well identified has been impacted by the regional PCE plume.

1) A well on Emerald Bay Road was determined to be impacted by the regional PCE plume in 2005 (first and only time the well was sampled for PCE). The property owner has not provided Lahontan Water Board staff access to their property to sample well as part of the SCAP Regional PCE Plume Investigation.

Five active domestic supply wells identified are considered threatened by the regional PCE plume.

1) Three wells on Eloise Avenue, one well on Emerald Bay Road, and one well on 12th Street were most recently sampled in 2019 during the SCAP Regional PCE Plume Investigation and PCE was not detected above the reporting limit of 0.5 µg/L.

Six active domestic supply wells are considered threatened/potential receptors.

1) Two wells on Glorene Avenue, one well on Washington Avenue, and one well on Roger Avenue are located within the estimated lateral extent of the regional PCE plume. No groundwater samples have been collected from these wells.

2) One well on Eloise Avenue and one well on South Shore Drive are assumed to be active because the property has a sewer connection with the District and does not have a municipal water connection with the District or LBWC and located within the estimated lateral extent of the regional PCE plume.

3) Property owners of these wells have not provided Lahontan Water Board staff access to their property to sample well or information on status of well (active, inactive, or destroyed).

Three active domestic supply wells are considered threatened/potential future receptors.

1) One well on Jean Avenue is located cross gradient from the estimated lateral extent of the regional PCE plume. No groundwater samples have been collected from this well.

2) One well on Lake Tahoe Boulevard and one well on 15th Street are assumed to be active because the property has a sewer connection with the District and does not have a municipal water connection with the District or LBWC. These wells are located cross gradient from the estimated lateral extent of the regional PCE plume.

3) Property owners of these three wells have not provided Lahontan Water Board staff access to their property to sample well or information on status of well (active, inactive, or destroyed).

Two inactive domestic supply wells identified are threatened by the regional PCE plume.

1) One well on Eloise Avenue and one well on 7th Street are located within the regional PCE plume. One of the two property owners have not provided Lahontan Water Board staff access to their property to inspect or sample well.

One inactive domestic supply well on Roger Avenue is considered a threatened/potential receptor and the property owner has not provided Lahontan Water Board staff access to their property to inspect or sample well.

One inactive domestic supply well on Emerald Bay Road is considered a threatened/potential future receptor and the property owner has not provided Lahontan Water Board staff access to their property to inspect or sample well.

Ten domestic supply wells have been identified within the lateral extent of the regional PCE plume through DWR well logs, but the wells have not been located to date.

Eight domestic supply wells have been identified cross gradient from the estimated lateral extent of the regional PCE plume through DWR well logs, but the wells have not been located to date.

Four destroyed domestic supply wells identified within the lateral extent of the regional PCE plume may have been historically impacted or impaired by the regional PCE plume.

1) Since no historic PCE data are available for the four destroyed domestic supply wells, it is unknown if the wells were historically impacted or impaired by the regional PCE plume.

Although significant effort has been conducted during the SCAP Regional PCE Plume Investigation to 1) identify the SCS and domestic supply wells in areas overlying the regional PCE plume, 2) compile historic groundwater sampling records to evaluate the potential threat the regional PCE plume has posed on the domestic groundwater supply over time and 3) notify property owners of the potential threat from PCE exposure through consumption of groundwater, this effort is incomplete and additional actions are needed as outlined in this Order to 1) develop an appropriate water replacement plan, 2) continue to evaluate the threat the regional PCE plume poses to supply wells that may become impaired in the future, and 3) determine if SCS and domestic supply wells are acting as vertical conduits for migration of PCE contamination.

8 DISCHARGERS' DATA INTERPRETATION

8.1 Plume Separation

A number of the Dischargers' reports (EKI, 2019b, 2019d, 2020a, and 2020b) assert that there is a separation between the Site and the regional PCE plume. As discussed above, and in following sections, the evidence establishes one contiguous plume starting from the Site and migrating downgradient to the Tahoe Keys. The following refutes the Dischargers' incorrect interpretation of the available data and demonstrates that Dischargers' CSM is flawed.

1) Available groundwater data and general contaminant fate and transport principles do not support EKI's interpretation of plume separation (in Lake Tahoe Boulevard) between the PCE plume originating from the Site and the regional PCE plume as described in their April 3, 2020 *Investigation Summary Report* (April 2020 ISR) and October 1, 2020 *Investigation Summary Report* (October 2020 ISR). In particular, there are no groundwater sample results indicating that an area with no detections of PCE contamination exists between the Site's property boundary and the regional PCE plume (Figure 3 and Figure 5)[147].

2) In 2008 (i.e., prior to commencement of the AS/SVE operation), PCE concentrations above the MCL were reported in 12 of the 16 groundwater samples (Figure 16, Figure 17, Table 27, and Table 28)[148] collected from the dual zone temporary monitoring wells installed in Lake Tahoe Boulevard demonstrating contamination originating from the Site was migrating off-Site within shallow and middle zone depths prior to interim remedial implementation. A maximum PCE concentration in shallow groundwater of 706 µg/L was reported on-Site in LW-MW-1S and 85.3 µg/L was reported in Lake Tahoe Boulevard in LW-MW-6S. Since no other potential PCE sources exist between the Site and Lake Tahoe Boulevard, the groundwater contamination identified in Lake Tahoe Boulevard must be from the Site and disproves the Dischargers' "plume separation" theory.

3) In 2018, after approximately 8 years of AS/SVE operation, and as part of the Phase I groundwater investigation activities (Figure 8)[149] four borings were advanced

[147] Figure 3 displays the estimated lateral extent of the regional PCE plume.
Figure 5 displays the vertical extent of the regional PCE plume originating from the Site north to impaired municipal supply well TKWC #2.
[148] Figure 16, Figure 17, Table 27 and Table 28 illustrate and summarize, respectively, PCE concentrations in shallow (Figure 13 and Table 27) and middle (Figure 14 and Table 28) zone groundwater during monitoring well installation activities in 2008.
[149] Figure 8 shows the boring locations, sampling depths, and PCE concentrations in groundwater within the first transect advanced from the Site during the "Phase I" investigation.

within Lake Tahoe Boulevard downgradient from the Site (LTLW-GW-4 through LTLW-GW-7) and two borings were advanced on the Site (LTLW-GW-1 and LTLW-GW-3). Groundwater samples were collected from five separate depths intervals between 10 and 75 feet bgs at each boring location. The groundwater investigation results within Lake Tahoe Boulevard identified detectable PCE concentrations in 14 of the 25 samples collected, with 9 samples showing PCE concentrations above the MCL within shallow and middle zone groundwater. PCE concentrations above the MCL were reported in shallow and/or middle zone groundwater in each of the four boring locations within Lake Tahoe Boulevard. A maximum PCE concentration of 123 µg/L was reported on-Site in LTLW-GW-1 from 10-14 feet bgs and 28.6 µg/L was reported in Lake Tahoe Boulevard in LTLW-GW-7 collected from 41-45 feet bgs. The groundwater investigation results from the Dischargers' 2018 Phase 1 Site investigation shows that even after 9 years of on-Site AS/SVE remediation system operation and the removal of over 957 pounds of VOCs (i.e., PCE) from the predefined vadose and shallow zone groundwater cleanup areas, all downgradient groundwater sample locations in Lake Tahoe Boulevard contain PCE at concentrations above MCL. This finding is significant because it should be expected the on-Site AS/SVE remediation system would reduce PCE groundwater concentrations to at least below the MCL which may have "erased" the link between the PCE contamination originating from the Site and the regional PCE plume, however, the investigation results confirm the Site is linked to the regional PCE plume, refuting EKI's "plume separation" theory.

4) The SCAP Regional PCE Investigation modeling results, which provide a current snapshot of the vertical extent of the regional PCE plume also discredits the Dischargers'' "plume separation" theory because the cross section clearly displays a contiguous PCE plume extending from the Site north to impaired municipal supply well TKWC #2 (Figure 5)[150].

5) EKI's own statements included in the April 2020 ISR and the October 2020 ISR also contradict the "plume separation" theory. EKI states, "…. *the PCE released to the subsurface at the LTLW is not the* ***primary*** *source of PCE detected in off-Site groundwater within the South Y area*" (emphasis added). Lahontan Water Board staff have identified this statement as EKI's acknowledgement that the PCE contamination identified at the Site is contributing an unknown portion of PCE mass to the regional PCE plume. EKI did not identify the PCE source that they believe is the **primary** source of PCE contamination in the regional PCE plume in their April 2020 ISR and October 2020 ISR but have provided an extensive list of other potential PCE sources to Lahontan Water Board staff in numerous submittals.

6) EKI has stated in their October 2020 ISR that, "*Intervening lower groundwater PCE concentrations within the shallow, middle, and deeper zones, and the absence of PCE more than 70 feet bgs beneath and near the Site demonstrate higher*

[150] Figure 5 displays the vertical extent of the regional PCE plume originating from the Site north to impaired municipal supply well TKWC #2.

groundwater PCE concentrations north of Lake Tahoe Boulevard are attributable to off-Site sources". Lahontan Water Board staff acknowledge that additional, as-yet-undetermined, sources may have contributed to the high concentrations of PCE detected north of Lake Tahoe Boulevard. However, the available groundwater data clearly indicates that PCE contamination originating from the Site is contributing PCE mass to the regional PCE plume and that the Site is the origin of the regional PCE plume.

7) Notably, EKI was only able to identify an "intervening" area of lower PCE concentrations rather than an "intervening" area where PCE contamination was not detected. The presence of lower concentrations does not support a "plume separation" theory.

8) Lahontan Water Board staff observe that a more likely explanation for the high PCE concentrations in groundwater north of Lake Tahoe Boulevard may be attributed to off-Site migration within investigated and uninvestigated areas and depths between the shallow and middle zones (i.e., between 26 and 41 feet bgs) and off-Site transport of PCE contamination to Tucker Basin via the stormwater conveyance system. This theory is supported by the facts that elevated masses of PCE in soil gas were found at the western drop inlet to the stormwater conveyance system at the lowest elevation on the Site (i.e., the Site drained to that location) and at stormwater conveyance system's discharge location to Tucker Basin (Figure 7)[151]. Stormwater contaminated with PCE would then infiltrate into groundwater below the Tucker Basin. The PCE would spread both laterally and vertically under the influence of both local gradients (i.e., PCE contaminated stormwater infiltrating to groundwater in the immediate vicinity of Tucker Basin will spread radially as it infiltrates to the top of the groundwater table) before being controlled by the regional horizontal (northerly) and vertical (downward) groundwater gradients. SCAP Regional PCE Investigation modeling results, which estimate and illustrate the distribution of PCE concentrations in groundwater from 0 to 25 feet bgs, also provide indication contaminant transport has occurred along the City of South Lake Tahoe's stormwater conveyance system (Figure 24)[152]. This evidence is consistent with migration from the Site combined with off-Site transport via a preferential pathway (stormwater conveyance system) and does not support Dischargers' "plume separation" theory from another unidentified source.

[151] Figure 7 show passive soil gas investigation results for locations near stormwater conveyance inlets at the Site and within Tucker Basin.
[152] Figure 3 displays the estimated lateral extent of the regional PCE plume.
Figure 5 displays the vertical extent of the regional PCE plume originating from the Site north to impaired municipal supply well TKWC #2.
Figure 24 show estimated PCE concentrations in groundwater from 0 to 25 and stormwater conveyance system components within the regional PCE plume area.

8.2 Mass Balance

Another theory EKI has proposed in their October 2020 ISR is that, *"formation of a groundwater VOC plume is governed by the mass balance between contaminant loading and attenuation mechanisms"* and *"the lack of an off-Site plume originating from LTLW is due to a PCE loading rate to groundwater that is less than the PCE attenuation rate in groundwater"*. In other words, EKI suggests that the amount of PCE attributable to the Site is so little that it would attenuate (dilute or degrade) faster than the amount of time it would take for that small amount of PCE to migrate off-Site. These statements, which purportedly support EKI's conclusion that PCE has not migrated off-Site, conflict with EKI's own previous PCE distance migration calculations and are refuted by the following:

1) Over 982 pounds of VOCs (i.e., PCE) have been removed from the Site since AS/SVE system initiation. PCE and PCE degradation by-products were located in soil at depths within the range of historical groundwater elevations (i.e., were in contact with groundwater at various points in time) and at concentrations exceeding leaching to groundwater ESLs (Figure 9, Table 14, Table 18, Table 19, Table 20, Table 21, Table 22, and Table 25)[153]. The design of the AS/SVE system (Figure 21 and Table 6)[154] and mass removal over time (Table 26)[155] clearly shows on-Site mass was available in sufficient quantities and at depths to provide the mass loading which is consistent with the regional PCE plume and not a limited localized plume restricted to the Site and near vicinity.

2) Quarterly groundwater monitoring (Figure 22 and Table 2)[156] has shown a maximum on-Site PCE concentration of 5,150 µg/L in shallow groundwater prior to remedial implementation and consistent PCE concentrations above MCL in monitoring wells located along the northern property boundary (i.e., down gradient portion of the Site). The concentrations above MCL along the property boundary and at the Site demonstrate the on-Site mass was present in sufficient quantities to partition into groundwater, migrate off-Site, and be subject to natural attenuation processes.

3) Any dissolved phase (i.e., groundwater) contaminant transport would be controlled by natural and induced (i.e., supply well pumping) groundwater flow directions and gradients, hydraulic conductivities, and the effective porosity of the subsurface relative to natural attenuation processes (i.e., retardation factor). EKI provided an estimate of PCE velocity and migration distance in their "Calculation of Potential PCE Migration in Shallow Zone Between February 2013 through August 2013"

[153] Figure 9, Table 14, Table 18, Table 19, Table 20, Table 21, and Table 22 illustrate PCE concentrations in soil and sampling depths during investigations at the Site and depth to water measurements collected during quarterly groundwater monitoring (Table 25).
[154], Figure 21 show the location Figure 21 and Table 6 summarizes the depths of on-Site AS/SVE system components.
[155] Table 26 shows estimated PCE mass removal from the AS/SVE system over time.
[156] Figure 22 and Table 2 illustrate and summarize, respectively, quarterly groundwater monitoring results, including recent and maximum PCE concentrations in shallow and middle zone groundwater, from the Site.

document[157]. The assumptions used in the calculation were derived from aquifer testing results at nearby properties, on-Site quarterly groundwater monitoring, and literature values. While Lahontan Water Board staff do not necessarily agree with all assumptions used in the calculation, the calculation itself provides a general estimate of natural attenuation processes and potential PCE migration over time. EKI estimated a PCE velocity of 0.2 feet per day and low fractions of organic carbon materials (i.e., conditions supporting little natural attenuation) within the aquifer. EKI's calculation is somewhat consistent (i.e., approximately 3 times slower) with the District's estimated "10-year Time of Travel" shown on a figure illustrating source area protection zones for supply wells in their 2014 Groundwater Management Plan for the Tahoe Valley South Basin (Figure 48).[158] The District's and EKI's estimates are borne out by the evidence produced during the SCAP Regional PCE Plume Investigation (Figure 3, Figure 5, and Figure 24). [159]

4) Using EKI's estimated PCE velocity and considering the forty years of potential discharge and unabated migration, this equates to a PCE migration distance of approximately 3,000 feet. Notwithstanding EKI's calculation, which includes consideration of natural attenuation processes, the CSM currently advanced concludes that no more than 100 feet of potential migration occurred. Assumptions within the calculation are based on groundwater gradients and material properties and are not expected to change significantly (i.e., groundwater gradients, hydraulic conductivity, retardation factor, and effective porosity). The Dischargers' consultants have not updated their retardation factor or provided explanation to account for the attenuation processes that would be necessary to restrict the dissolved phase contamination (i.e., contamination dissolved in groundwater) to locations within 100 feet of the Site for over forty years.

5) The most obvious rebuttal to EKI's invitation to engage in modeling scenarios is the fact that groundwater investigations conducted to date have unequivocally identified PCE contamination above the MCL in both historical and recent samples collected in the shallow and middle zone groundwater downgradient of the Site (i.e., beyond the Site property boundary). As previously stated, these detections of PCE above the MCL cannot be attributed to another upgradient PCE source.

6) Along those lines, although Lahontan Water Board staff do not concur with Dischargers estimated lateral extent of PCE contamination migrating from the Site or the concentrations for the specific timeframes (i.e., pre and post 2011; Figures 5-3a through 5-4b) as shown in EKI's April 2019 ISR (EKI, 2019b), EKI's interpretation of the lateral extent of PCE contamination in this ISR and future ISRs clearly shows that migration of PCE contamination in shallow and middle zone groundwater extends off-Site and is more consistent with their previous calculations for potential PCE migration distances. Specifically, EKI's most recent

[157] AR16107-16110
[158] Figure 48 shows the source area protection zones identified by the District.
[159] Figure 24 show estimated PCE concentrations in groundwater from 0 to 25 and stormwater conveyance system components within the regional PCE plume area.

estimate of the lateral extent of PCE contamination in the shallow, middle, and deeper zones originating from the Site, as presented in EKI's iso-concentration maps in the October 2020 ISR (Figure 52, Figure 53, and Figure 54)[160], refutes EKI's statement regarding a lack of an off-Site plume due to a PCE loading rate to groundwater that is less than the PCE attenuation rate in groundwater.

8.3 Additional Potential Upgradient Sources

The Dischargers have advanced numerous borings in unsuccessful efforts to identify potential PCE sources upgradient of the Site. During their Phase "I" groundwater investigation (Figure 8)[161], the Dischargers' consultants advanced boring LTLW-GW-3 immediately west of the Site with the stated purpose of evaluating potential upgradient sources. PCE was detected in the middle zone groundwater sample (from 41 to 45 feet bgs) collected at this location at a concentration of 31.7 µg/L. PCE was also detected below the MCL at a concentration of 1.41 µg/L further west of the Site in another middle zone grab groundwater sample (LTLW-GW-2; collected from 46 to 50 feet bgs in January 2018). Groundwater data from LTLW-GW-2 and LTLW-GW-3 cannot be assigned to an upgradient source location for the following reasons.:

1) LTLW-GW-3 is located directly adjacent to the sanitary sewer alignment and connection from the building;

2) LTLW-GW-3 is located approximately 100 feet from the former DCU;

3) LTLW-GW-3 is located in an area where passive soil vapor sampling showed elevated PCE mass (PSG-2; 319 ng); and

4) LTLW-GW-2 and GW-3 are located in an area estimated by the Dischargers' consultants to be downgradient of the Site during historical water supply well pumping operations to the west (see below for additional detail).

As stated in EKI's April 1, 2019 *Investigation Summary Report* (April 2019 ISR), the middle zone's groundwater flow direction shifted towards the west under the influence of maximum drawdowns created by municipal water supply well operations to the west of the Site prior to 2000; once pumping at the municipal wells located to the west ceased, the groundwater flow direction in the middle zone shifted back towards the north-northwest. EKI also discusses, and provides illustration, in the April 2019 ISR, of a shift from northwest to more westerly in the observed and inferred middle zone groundwater flow directions for 2018 (Figure 55)[162]. Given the proximity to identified on-Site PCE contamination and influence of historical pumping operations to the west, the detections of PCE both above and below the MCL in the middle zone represents downgradient migration of PCE contamination from the Site, and does not support the interpretation of

[160] Figure 52, Figure 53 and Figure 54 present EKI's estimated PCE concentrations in shallow (Figure 49), middle (Figure 50), and deeper (Figure 51) groundwater zones.
[161] Figure 8 shows the location and groundwater analytical results for boring LTLW-GW-3.
[162] Figure 55 shows estimates for observed and adjusted groundwater elevations (i.e., groundwater flow directions) in middle zone groundwater to account for municipal supply well pumping in November 2018.

potential upgradient source(s) as shown on figures and cross sections contained in the April 2020 ISR and October 2020 ISR.

8.4 Contaminant Transport Via Preferential Pathways

The Dischargers' consultants have concluded PCE did not travel from the Site to Tucker Basin through an inconsistent analysis of the "Stage" I and "Stage" II preferential pathway investigations results and initial passive soil vapor screening activities in Tucker Basin (Figure 7 and Figure 11)[163]. The Dischargers consultants focus on (1) indications of DNAPL at stormwater conveyance drop inlets and discharge point to Tucker Basin and (2) the magnitude of PCE concentrations in soil within stormwater conveyance utility backfill (which is located within the AS/SVE remediation system's zone of influence) while ignoring the potential dissolved phase transport (i.e. contaminated stormwater rather than DNAPL) and speculating the three order of magnitude mass distribution pattern may be due to off-gassing from shallow groundwater.

The Dischargers' analysis and recommendations associated with Tucker Basin (i.e., no additional investigation is warranted) conflict with their own recent comments provided for the former Big O Tires and former Hurzel Properties, LLC sites and the source identification criteria contained in the March 19, 2018 *Amended Groundwater Investigation Work Plan*. In the comments provided, the Dischargers' consultants state *"passive soil gas surveys are a useful initial screening tool: however they should not be relied upon as a sole line of evidence for the potential presence/absence of source areas*" and "*follow-on samples should be collected to obtain corresponding concentrations of the contaminants in soil, soil gas, or groundwater…*" The data collected during the initial passive soil vapor investigation clearly demonstrates the need for additional follow-on sampling due to the three order of magnitude difference in masses reported at the on-Site stormwater conveyance system drop inlets and its discharge point to Tucker Basin. Available soil vapor and groundwater data also indicates that Tucker Basin meets the Dischargers' source identification criteria for properties potentially contributing to the regional PCE plume.

Despite Tucker Basin meeting source identification criteria and the content of the comments provided to the other sites (former Big O Tires and former Hurzel Properties, LLC), the Dischargers' consultants have elected not to apply their own recommendations to the PCE mass (which is also three orders of magnitude difference) detected at the Site during their own soil gas investigations or recognize the potential off-Site transport. Instead, the Dischargers' have stated that further investigation of the stormwater conveyance system is the sole responsibility of the former Big O Tires site owners and have elected not to conduct any additional preferential pathway related investigative activities.

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[163] Figure 7 shows passive soil gas data collected at the Site and from within Tucker Basin.
Figure 11 shows PCE concentrations in soil from samples collected within and adjacent to stormwater conveyance system backfill during the Phase I preferential pathway investigation.

As previously stated, the Dischargers' investigations conducted to date have not resulted in a complete delineation of the extent and magnitude of PCE contamination within and beyond Tucker Basin. The preferential pathway investigations remain incomplete and do not adequately evaluate the potential threat to human health from waste discharged to the environment via preferential pathways.

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LIST OF FIGURES

FIGURE 1: SITE LOCATION, THIRD QUARTER 2021MONITORING REPORT (PES, 2021)

PES. 15 December 2021. Third Quarter 2021 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

PES Environmental, Inc.
Engineering & Environmental Services
AN NV5 COMPANY

Site Location
Quarterly Monitoring Report
Former Lake Tahoe Laundry Works
South Lake Tahoe, California

PLATE
1

JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE
1021.001.04.036	102100104036_21Q3_1	KSF	12/21

FIGURE 2: SITE PLAN AND VICINITY, THIRD QUARTER 2021 MONITORING REPORT (PES, 2021)

PES. 15 December 2021. Third Quarter 2021 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

Explanation

Lake Tahoe Laundry Works (LTLW) Site

OS-1 Groundwater Monitoring Well

N

0 100

SCALE IN FEET

Aerial Photo: June 07, 2018 (Google 2019)
All locations are approximate

PES Environmental, Inc.
Engineering & Environmental Services
AN NV5 COMPANY

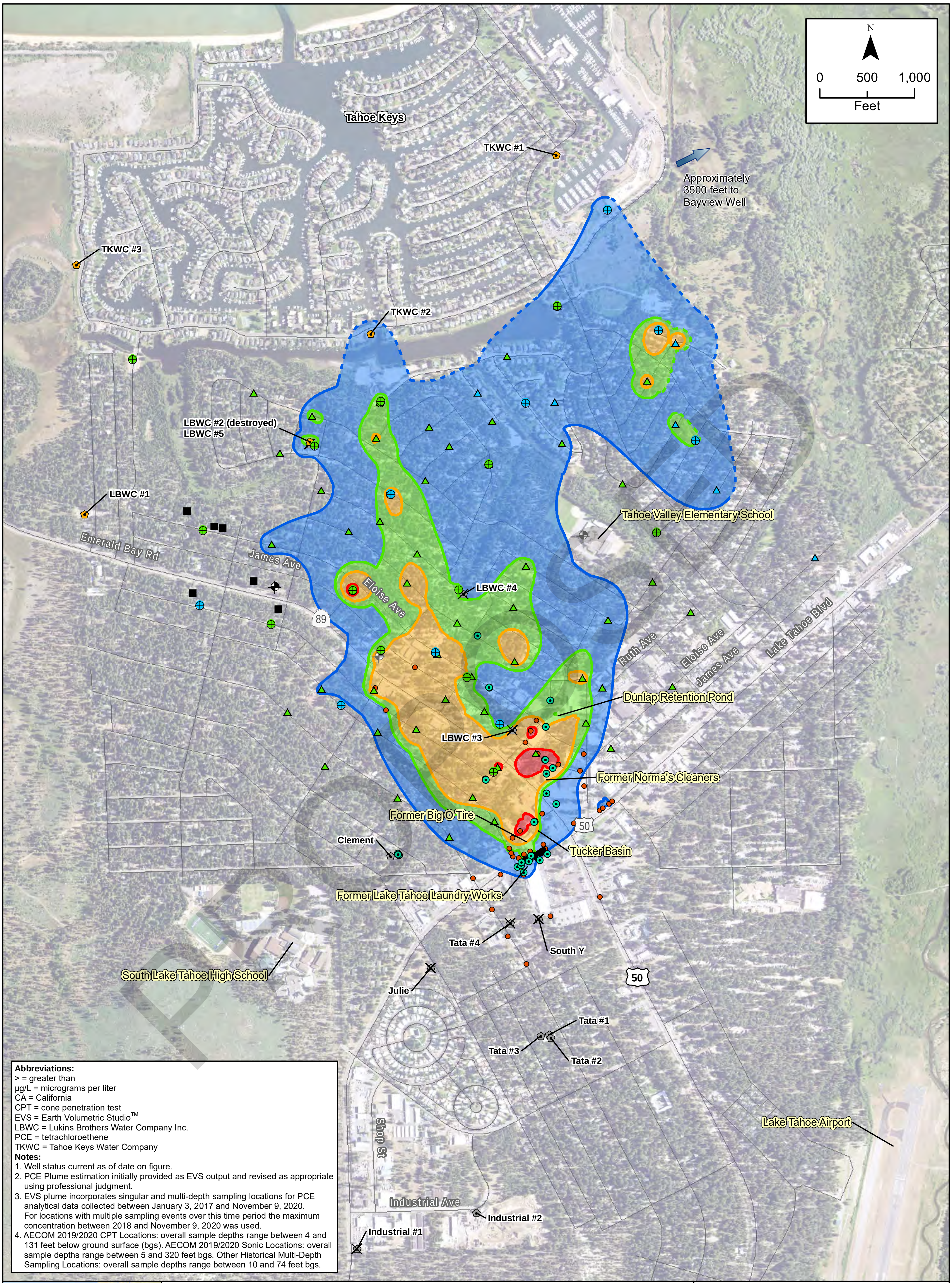
Site Plan and Vicinity
Quarterly Monitoring Report
Former Lake Tahoe Laundry Works
South Lake Tahoe, California

PLATE
2

1021.001.04.036	102100104036_21Q3_2	KSF	12/21
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

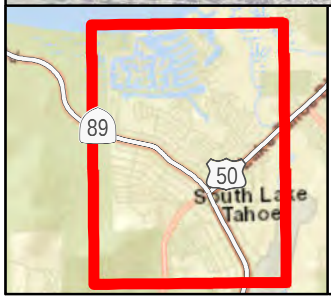
FIGURE 3: DISSOLVED PCE IN GROUNDWATER PLUME MAP, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH "Y" PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)

AECOM. Regional Plume Characterization Summary Report: South "Y" PCE Plume 2019-2020 Field Season (June 10, 2022).



Abbreviations:
> = greater than
µg/L = micrograms per liter
CA = California
CPT = cone penetration test
EVS = Earth Volumetric Studio™
LBWC = Lukins Brothers Water Company Inc.
PCE = tetrachloroethene
TKWC = Tahoe Keys Water Company

Notes:
1. Well status current as of date on figure.
2. PCE Plume estimation initially provided as EVS output and revised as appropriate using professional judgment.
3. EVS plume incorporates singular and multi-depth sampling locations for PCE analytical data collected between January 3, 2017 and November 9, 2020. For locations with multiple sampling events over this time period the maximum concentration between 2018 and November 9, 2020 was used.
4. AECOM 2019/2020 CPT Locations: overall sample depths range between 4 and 131 feet below ground surface (bgs). AECOM 2019/2020 Sonic Locations: overall sample depths range between 5 and 320 feet bgs. Other Historical Multi-Depth Sampling Locations: overall sample depths range between 10 and 74 feet bgs.



Location Type
- AECOM 2019 CPT Location
- AECOM 2019 Sonic Location
- AECOM 2020 CPT Location
- AECOM 2020 Sonic Location
- Active Municipal Supply Well
- Inactive Municipal Supply Well
- Destroyed Municipal Supply Well
- Monitoring Well Location
- Historical Single-Depth Sampling Location
- Historical Multi-Depth Sampling Location
- Active Private Supply Well
- Active Small Community Well
- Inactive Small Community Well

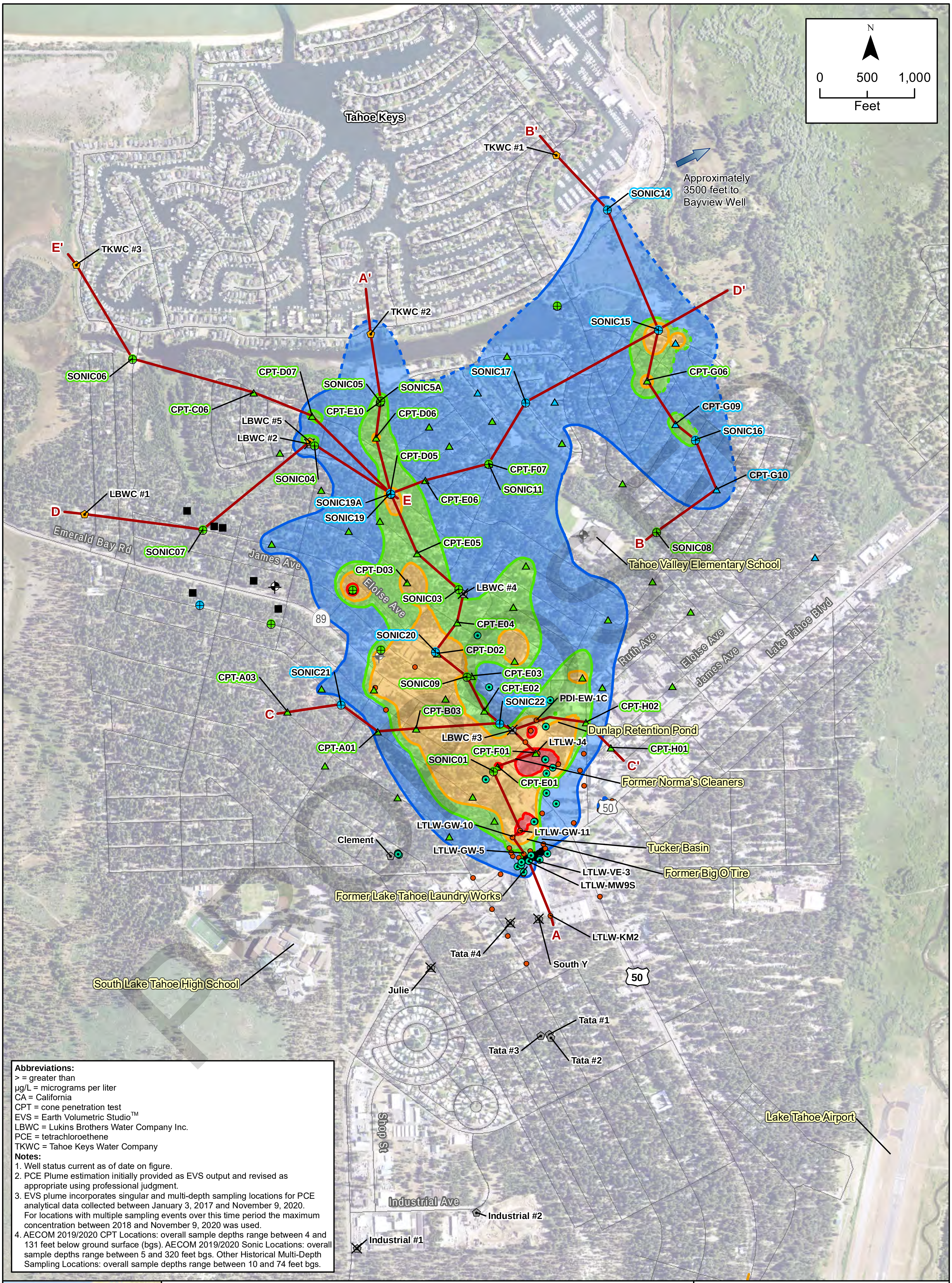
PCE Concentration Contours (dashed where inferred)
- 5 - 50 µg/L
- 50 - 100 µg/L
- 100 - 500 µg/L
- >500 µg/L

Figure 5
Dissolved PCE in Groundwater Plume Map

South "Y" PCE Plume
South Lake Tahoe, CA

FIGURE 4: CROSS SECTION MAP, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH "Y" PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)

AECOM. Regional Plume Characterization Summary Report: South "Y" PCE Plume 2019-2020 Field Season (June 10, 2022).



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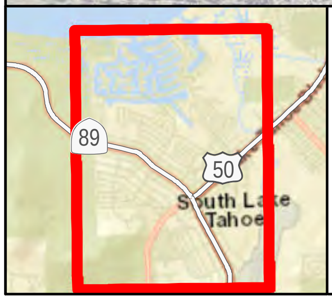
Notes:
1. Well status current as of date on figure.
2. PCE Plume estimation initially provided as EVS output and revised as appropriate using professional judgment.
3. EVS plume incorporates singular and multi-depth sampling locations for PCE analytical data collected between January 3, 2017 and November 9, 2020. For locations with multiple sampling events over this time period the maximum concentration between 2018 and November 9, 2020 was used.
4. AECOM 2019/2020 CPT Locations: overall sample depths range between 4 and 131 feet below ground surface (bgs). AECOM 2019/2020 Sonic Locations: overall sample depths range between 5 and 320 feet bgs. Other Historical Multi-Depth Sampling Locations: overall sample depths range between 10 and 74 feet bgs.



Location Type
- AECOM 2019 CPT Location
- AECOM 2019 Sonic Location
- AECOM 2020 CPT Location
- AECOM 2020 Sonic Location
- Active Municipal Supply Well
- Inactive Municipal Supply Well
- Destroyed Municipal Supply Well
- Monitoring Well Location
- Historical Single-Depth Sampling Location
- Historical Multi-Depth Sampling Location
- Active Private Supply Well
- Active Small Community Well
- Inactive Small Community Well
- Cross Section Location (shown on Figures 6 through 10)

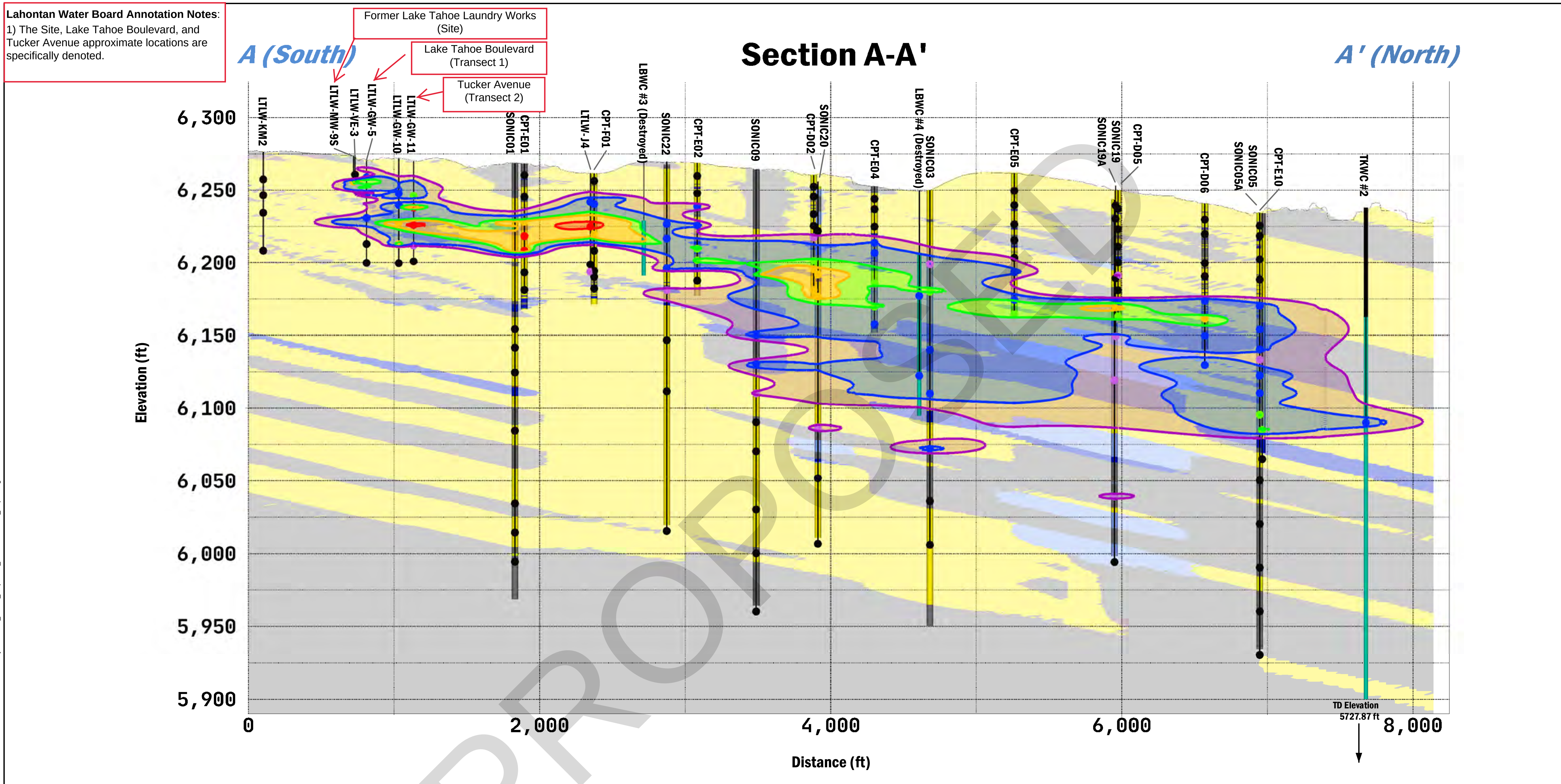
PCE Concentration Contours (dashed where inferred)
- 5 - 50 µg/L
- 50 - 100 µg/L
- 100 - 500 µg/L
- >500 µg/L

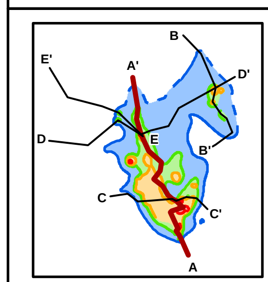
Figure 7
Cross Section Map

South "Y" PCE Plume
South Lake Tahoe, CA

FIGURE 5: ANNOTATED CROSS SECTION A-A’, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH “Y” PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022, ANNOTATED BY LAHONTAN WATER BOARD STAFF)

AECOM. Regional Plume Characterization Summary Report: South “Y” PCE Plume 2019-2020 Field Season (June 10, 2022).





Gravel	
Sand	
Silty and Clayey Sand and Gravel	
Interbedded Sand and Clay	
Silt and Clay	

Annular Seal

Filter Pack

PCE Sample Concentration Range (µg/L)
- <0.5
- 0.5 - <5
- 5 - <50
- 50 - <100
- 100 - <500
- >=500

PCE Concentration Contour Value (µg/L)
- 0.5
- 5
- 50
- 100
- 500

Abbreviations:
< = less than
> = greater than
µg/L = micrograms per liter
CA = California
CPT = cone penetration test
EVS = Earth Volumetric Studio™
ft = feet
LBWC = Lukins Brothers Water Company Inc.
PCE = tetrachloroethene
TD = total depth
TKWC = Tahoe Keys Water Company

Notes:
1. The vertical exaggeration is 10x
2. All elevations are in feet, NAVD 88 (North American Vertical Datum, 1988)
3. Lithologic interpretation and contouring developed using EVS.

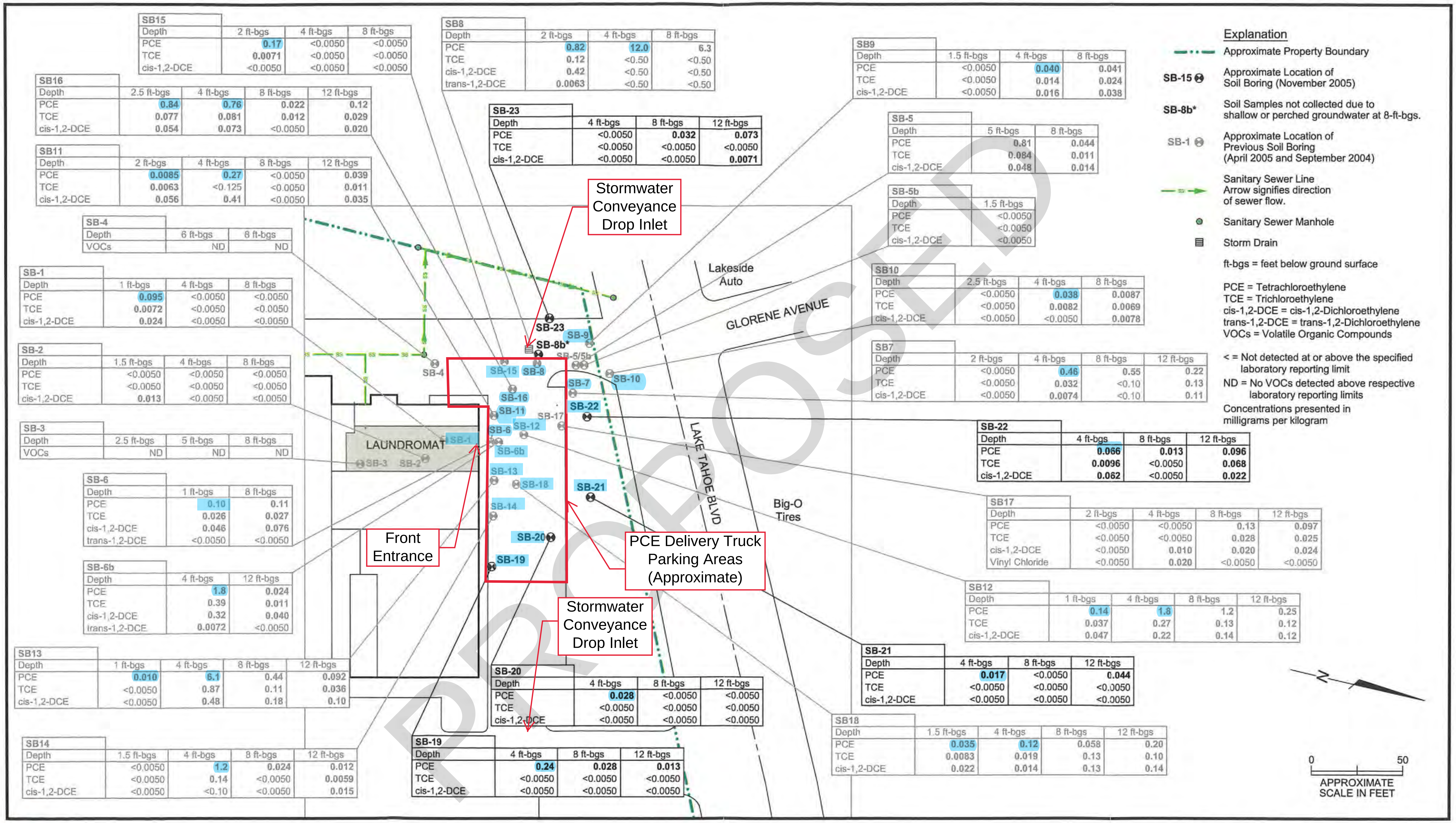
Figure 8
Cross Section A-A'

South "Y" PCE Plume
South Lake Tahoe, CA

C:\Users\brownm6\OneDrive - AECOM Directory\SLT\2021_Plume_Maps\Site_Characterization_Report\Figure 6 Cross Section A.ai MSB 4/30/2021 SAC

FIGURE 6: ANNOTATED SOIL SAMPLING LOCATIONS, ADDITIONAL SOIL INVESTIGATION RESULTS (PES, 2006, ANNOTATED BY LAHONTAN WATER BOARD STAFF)

PES. 31 January 2006. Additional Soil Investigation Results, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California, RWQCB SLIC Case No. T6S043.



SB15

Depth	2 ft-bgs	4 ft-bgs	8 ft-bgs
PCE	0.17	<0.0050	<0.0050
TCE	0.0071	<0.0050	<0.0050
cis-1,2-DCE	<0.0050	<0.0050	<0.0050

SB16

Depth	2.5 ft-bgs	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	0.84	0.76	0.022	0.12
TCE	0.077	0.081	0.012	0.029
cis-1,2-DCE	0.054	0.073	<0.0050	0.020

SB11

Depth	2 ft-bgs	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	0.0085	0.27	<0.0050	0.039
TCE	0.0063	<0.125	<0.0050	0.011
cis-1,2-DCE	0.056	0.41	<0.0050	0.035

SB-4

Depth	6 ft-bgs	8 ft-bgs
VOCs	ND	ND

SB-1

Depth	1 ft-bgs	4 ft-bgs	8 ft-bgs
PCE	0.095	<0.0050	<0.0050
TCE	0.0072	<0.0050	<0.0050
cis-1,2-DCE	0.024	<0.0050	<0.0050

SB-2

Depth	1.5 ft-bgs	4 ft-bgs	8 ft-bgs
PCE	<0.0050	<0.0050	<0.0050
TCE	<0.0050	<0.0050	<0.0050
cis-1,2-DCE	0.013	<0.0050	<0.0050

SB-3

Depth	2.5 ft-bgs	5 ft-bgs	8 ft-bgs
VOCs	ND	ND	ND

SB-6

Depth	1 ft-bgs	8 ft-bgs
PCE	0.10	0.11
TCE	0.026	0.027
cis-1,2-DCE	0.046	0.076
trans-1,2-DCE	<0.0050	<0.0050

SB-6b

Depth	4 ft-bgs	12 ft-bgs
PCE	1.8	0.024
TCE	0.39	0.011
cis-1,2-DCE	0.32	0.040
trans-1,2-DCE	0.0072	<0.0050

SB13

Depth	1 ft-bgs	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	0.010	6.1	0.44	0.092
TCE	<0.0050	0.87	0.11	0.036
cis-1,2-DCE	<0.0050	0.48	0.18	0.10

SB14

Depth	1.5 ft-bgs	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	<0.0050	1.2	0.024	0.012
TCE	<0.0050	0.14	<0.0050	0.0059
cis-1,2-DCE	<0.0050	<0.10	<0.0050	0.015

SB8

Depth	2 ft-bgs	4 ft-bgs	8 ft-bgs
PCE	0.82	12.0	6.3
TCE	0.12	<0.50	<0.50
cis-1,2-DCE	0.42	<0.50	<0.50
trans-1,2-DCE	0.0063	<0.50	<0.50

SB-23

Depth	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	<0.0050	0.032	0.073
TCE	<0.0050	<0.0050	<0.0050
cis-1,2-DCE	<0.0050	<0.0050	0.0071

SB9

Depth	1.5 ft-bgs	4 ft-bgs	8 ft-bgs
PCE	<0.0050	0.040	0.041
TCE	<0.0050	0.014	0.024
cis-1,2-DCE	<0.0050	0.016	0.038

SB-5

Depth	5 ft-bgs	8 ft-bgs
PCE	0.81	0.044
TCE	0.084	0.011
cis-1,2-DCE	0.048	0.014

SB-5b

Depth	1.5 ft-bgs
PCE	<0.0050
TCE	<0.0050
cis-1,2-DCE	<0.0050

SB10

Depth	2.5 ft-bgs	4 ft-bgs	8 ft-bgs
PCE	<0.0050	0.038	0.0087
TCE	<0.0050	0.0082	0.0069
cis-1,2-DCE	<0.0050	<0.0050	0.0078

SB7

Depth	2 ft-bgs	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	<0.0050	0.46	0.55	0.22
TCE	<0.0050	0.032	<0.10	0.13
cis-1,2-DCE	<0.0050	0.0074	<0.10	0.11

SB-22

Depth	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	0.066	0.013	0.096
TCE	0.0096	<0.0050	0.068
cis-1,2-DCE	0.062	<0.0050	0.022

SB17

Depth	2 ft-bgs	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	<0.0050	<0.0050	0.13	0.097
TCE	<0.0050	<0.0050	0.028	0.025
cis-1,2-DCE	<0.0050	0.010	0.020	0.024
Vinyl Chloride	<0.0050	0.020	<0.0050	<0.0050

SB12

Depth	1 ft-bgs	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	0.14	1.8	1.2	0.25
TCE	0.037	0.27	0.13	0.12
cis-1,2-DCE	0.047	0.22	0.14	0.12

SB-21

Depth	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	0.017	<0.0050	0.044
TCE	<0.0050	<0.0050	<0.0050
cis-1,2-DCE	<0.0050	<0.0050	<0.0050

SB-20

Depth	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	0.028	<0.0050	<0.0050
TCE	<0.0050	<0.0050	<0.0050
cis-1,2-DCE	<0.0050	<0.0050	<0.0050

SB-19

Depth	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	0.24	0.028	0.013
TCE	<0.0050	<0.0050	<0.0050
cis-1,2-DCE	<0.0050	<0.0050	<0.0050

SB18

Depth	1.5 ft-bgs	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	0.035	0.12	0.058	0.20
TCE	0.0083	0.019	0.13	0.10
cis-1,2-DCE	0.022	0.014	0.13	0.14

Explanation

Approximate Property Boundary

SB-15 Approximate Location of Soil Boring (November 2005)

SB-8b* Soil Samples not collected due to shallow or perched groundwater at 8-ft-bgs.

SB-1 Approximate Location of Previous Soil Boring (April 2005 and September 2004)

Sanitary Sewer Line Arrow signifies direction of sewer flow.

Sanitary Sewer Manhole

Storm Drain

ft-bgs = feet below ground surface

PCE = Tetrachloroethylene
TCE = Trichloroethylene
cis-1,2-DCE = cis-1,2-Dichloroethylene
trans-1,2-DCE = trans-1,2-Dichloroethylene
VOCs = Volatile Organic Compounds

< = Not detected at or above the specified laboratory reporting limit
ND = No VOCs detected above respective laboratory reporting limits
Concentrations presented in milligrams per kilogram

PES Environmental, Inc.
Engineering & Environmental Services

Soil Analytical Results
Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard
South Lake Tahoe, California

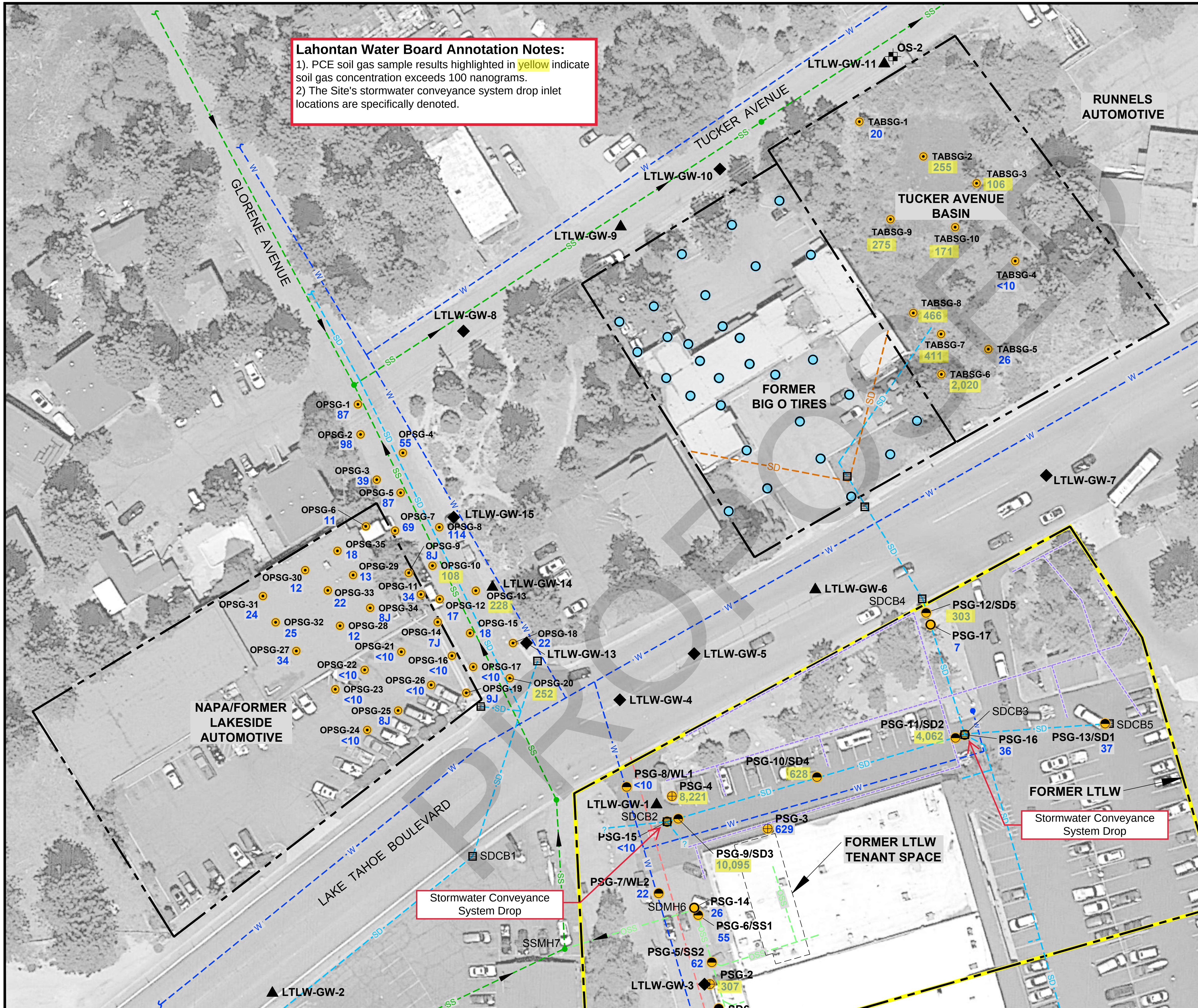
PLATE
4

1021.001.01.007	102100101007_1105	KSF	1/06
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

Lahontan Water Board Annotation Notes:
1) Boring locations and PCE soil sample results are highlighted in blue where PCE concentrations in soil were detected above reporting limit at and above four feet below ground surface.
2) The Site's front entrance, suspected PCE delivery truck parking area, and approximate stormwater conveyance system drop inlet locations are specifically denoted.

FIGURE 7: ANNOTATED PCE IN ON-SITE AND OFF-SITE PASSIVE SOIL GAS SAMPLES, INVESTIGATION SUMMARY REPORT (EKI, 2019D, ANNOTATED BY LAHONTAN WATER BOARD STAFF)

EKI. 4 October 2019d. Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.



Legend:

	Approximate Property Boundaries
OPSG-1	Off-Site Passive Soil Gas Sample
	Pending Passive Soil Gas Sample
PSG-10/SD5	Stage 1 Utility Trench Vapor/Soil Boring
PSG-4	Stage 1 Background Soil Vapor Sample (Outside of Utility Trench)
PSG-14	Stage 1 Sewer/Storm Drain Vapor Sample
LTLW-GW-9	CPT and GGW Sample
LTLW-GW-3	GGW Sample
OS-2	Monitoring Well Pair
55	PCE Mass in Nanograms in Passive Soil Gas Samples
<10	PCE Not Detected at or Above the Indicated Reporting Limit
J	Estimated Concentration Detected Below Laboratory Reporting Limit
SS	STPUD Sewer Main and Manhole
OSS	On-Site Sewer Line
W	Water Line and Fire Hydrant
G	Natural Gas Line
SD	Subsurface Stormwater System
SD	Historical Subsurface Stormwater System Prior to 1987
	SVE Remediation System Trench
	Identifier for Sanitary Sewer Manholes (SSMH) and Storm Drain Catch Basins (SDCB)

Abbreviations:

CPT = cone penetration test
GGW = grab groundwater
LTLW = Lake Tahoe Laundry Works
PCE = tetrachloroethene
STPUD = South Tahoe Public Utility District
SVE = soil vapor extraction

Notes:

1. All locations are approximate.
2. Basemap source: Google Earth Pro, date of imagery 7 June 2018.

0 60 120
(Scale in Feet)
N

PCE in On-Site and Off-Site Passive Soil Gas Samples

Former Lake Tahoe Laundry Works
South Lake Tahoe, CA
October 2019
EKI A70020.14

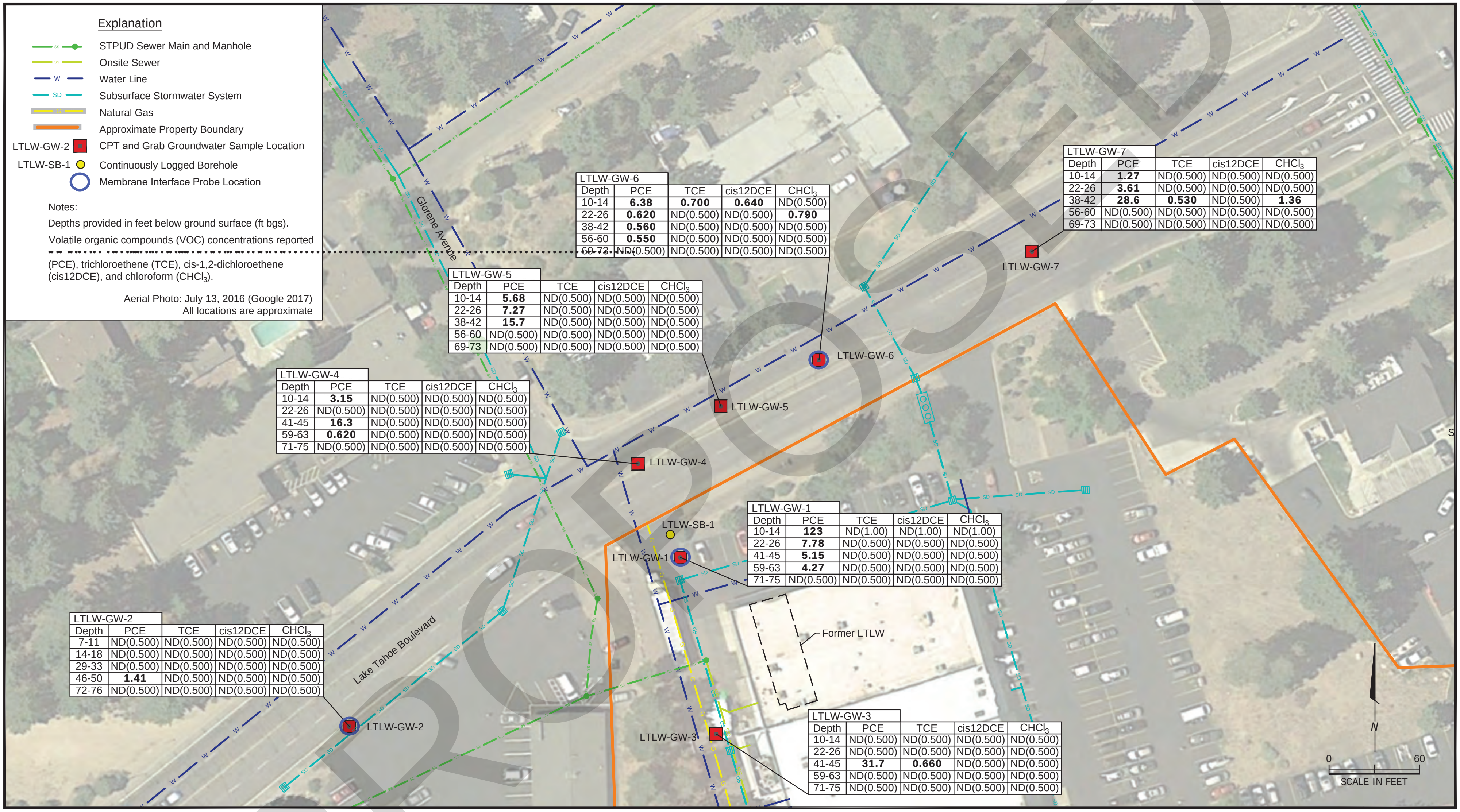
eki environment & water

Figure 5-1

20190315.08264897 G:\A70020.11\Report Dwgs\NewFigure 3-2.dwg Figure 3-2a

FIGURE 8: RESULTS OF PHASE I (TRANSECT 1) GROUNDWATER INVESTIGATION, GROUNDWATER INVESTIGATION PLANNING AND PROGRESS REPORT NO. 1 (EKI, 2018B)

EKI. 1 October 2018b. Groundwater Investigation Planning and Progress Report No. 1, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.



LTLW-GW-6

Depth	PCE	TCE	cis12DCE	$CHCl_3$
10-14	**6.38**	**0.700**	**0.640**	ND(0.500)
22-26	**0.620**	ND(0.500)	ND(0.500)	**0.790**
38-42	**0.560**	ND(0.500)	ND(0.500)	ND(0.500)
56-60	**0.550**	ND(0.500)	ND(0.500)	ND(0.500)
69-73	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)

LTLW-GW-7

Depth	PCE	TCE	cis12DCE	$CHCl_3$
10-14	**1.27**	ND(0.500)	ND(0.500)	ND(0.500)
22-26	**3.61**	ND(0.500)	ND(0.500)	ND(0.500)
38-42	**28.6**	**0.530**	ND(0.500)	**1.36**
56-60	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)
69-73	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)

LTLW-GW-5

Depth	PCE	TCE	cis12DCE	$CHCl_3$
10-14	**5.68**	ND(0.500)	ND(0.500)	ND(0.500)
22-26	**7.27**	ND(0.500)	ND(0.500)	ND(0.500)
38-42	**15.7**	ND(0.500)	ND(0.500)	ND(0.500)
56-60	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)
69-73	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)

LTLW-GW-4

Depth	PCE	TCE	cis12DCE	$CHCl_3$
10-14	**3.15**	ND(0.500)	ND(0.500)	ND(0.500)
22-26	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)
41-45	**16.3**	ND(0.500)	ND(0.500)	ND(0.500)
59-63	**0.620**	ND(0.500)	ND(0.500)	ND(0.500)
71-75	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)

LTLW-GW-1

Depth	PCE	TCE	cis12DCE	$CHCl_3$
10-14	**123**	ND(1.00)	ND(1.00)	ND(1.00)
22-26	**7.78**	ND(0.500)	ND(0.500)	ND(0.500)
41-45	**5.15**	ND(0.500)	ND(0.500)	ND(0.500)
59-63	**4.27**	ND(0.500)	ND(0.500)	ND(0.500)
71-75	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)

LTLW-GW-2

Depth	PCE	TCE	cis12DCE	$CHCl_3$
7-11	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)
14-18	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)
29-33	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)
46-50	**1.41**	ND(0.500)	ND(0.500)	ND(0.500)
72-76	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)

LTLW-GW-3

Depth	PCE	TCE	cis12DCE	$CHCl_3$
10-14	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)
22-26	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)
41-45	**31.7**	**0.660**	ND(0.500)	ND(0.500)
59-63	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)
71-75	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.500)

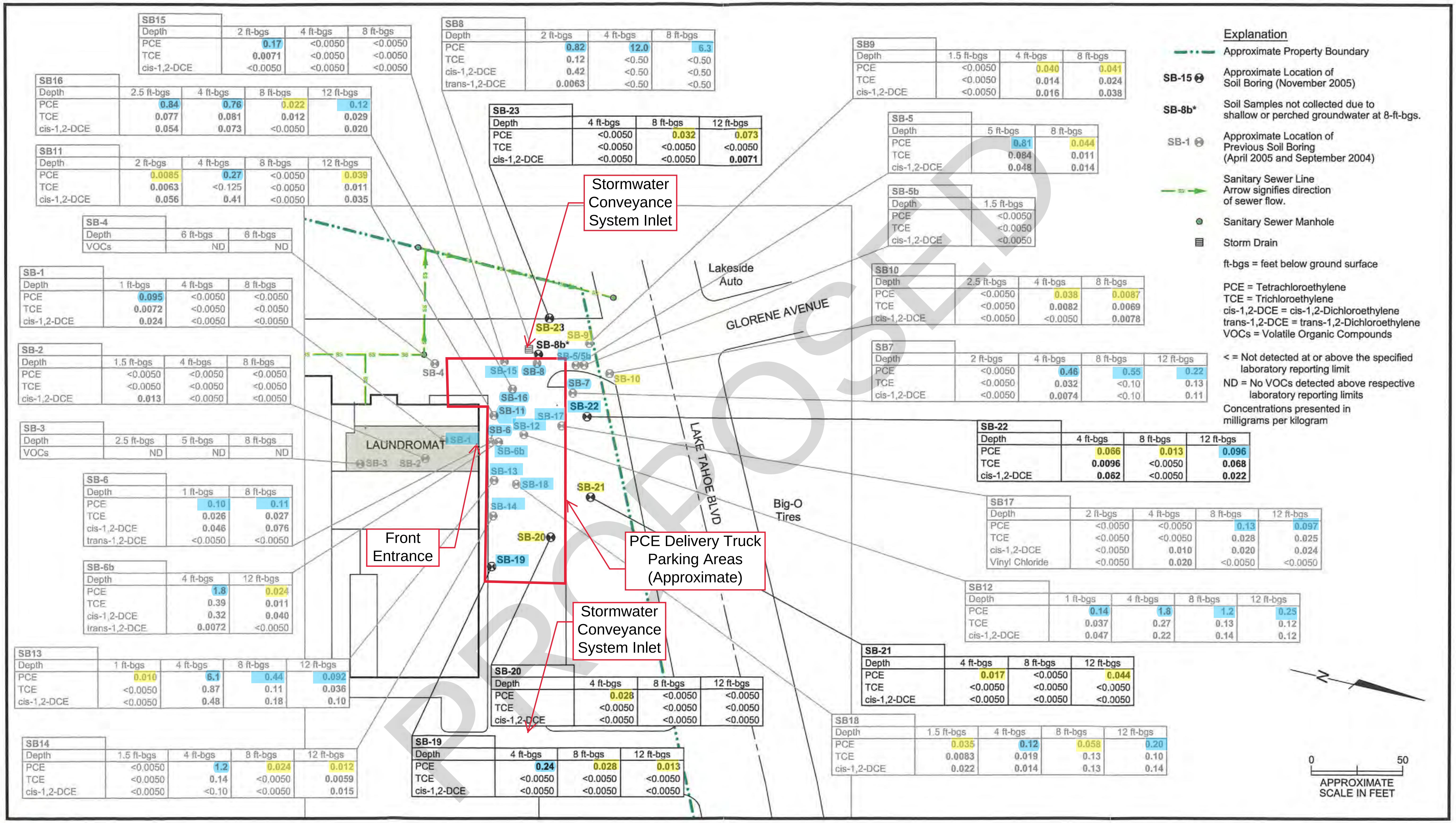
Results of Phase I (Transect 1) Groundwater Investigation
Data Transmittal Report
Lake Tahoe Laundry Works
South Lake Tahoe, California

PLATE
1

JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE
1021.001.04.003	102100104003_DTR_0,2-3	DRAFT	1/18

FIGURE 9: ANNOTATED SOIL ANALYTICAL RESULTS, ADDITIONAL SOIL INVESTIGATION RESULTS (PES, 2006, ANNOTATED BY LAHONTAN WATER BOARD STAFF)

PES. 31 January 2006. Additional Soil Investigation Results, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California, RWQCB SLIC Case No. T6S043.



SB15

Depth	2 ft-bgs	4 ft-bgs	8 ft-bgs
PCE	0.17	<0.0050	<0.0050
TCE	0.0071	<0.0050	<0.0050
cis-1,2-DCE	<0.0050	<0.0050	<0.0050

SB16

Depth	2.5 ft-bgs	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	0.84	0.76	0.022	0.12
TCE	0.077	0.081	0.012	0.029
cis-1,2-DCE	0.054	0.073	<0.0050	0.020

SB11

Depth	2 ft-bgs	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	0.0085	0.27	<0.0050	0.039
TCE	0.0063	<0.125	<0.0050	0.011
cis-1,2-DCE	0.056	0.41	<0.0050	0.035

SB-4

Depth	6 ft-bgs	8 ft-bgs
VOCs	ND	ND

SB-1

Depth	1 ft-bgs	4 ft-bgs	8 ft-bgs
PCE	0.095	<0.0050	<0.0050
TCE	0.0072	<0.0050	<0.0050
cis-1,2-DCE	0.024	<0.0050	<0.0050

SB-2

Depth	1.5 ft-bgs	4 ft-bgs	8 ft-bgs
PCE	<0.0050	<0.0050	<0.0050
TCE	<0.0050	<0.0050	<0.0050
cis-1,2-DCE	0.013	<0.0050	<0.0050

SB-3

Depth	2.5 ft-bgs	5 ft-bgs	8 ft-bgs
VOCs	ND	ND	ND

SB-6

Depth	1 ft-bgs	8 ft-bgs
PCE	0.10	0.11
TCE	0.026	0.027
cis-1,2-DCE	0.046	0.076
trans-1,2-DCE	<0.0050	<0.0050

SB-6b

Depth	4 ft-bgs	12 ft-bgs
PCE	1.8	0.024
TCE	0.39	0.011
cis-1,2-DCE	0.32	0.040
trans-1,2-DCE	0.0072	<0.0050

SB13

Depth	1 ft-bgs	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	0.010	6.1	0.44	0.092
TCE	<0.0050	0.87	0.11	0.036
cis-1,2-DCE	<0.0050	0.48	0.18	0.10

SB14

Depth	1.5 ft-bgs	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	<0.0050	1.2	0.024	0.012
TCE	<0.0050	0.14	<0.0050	0.0059
cis-1,2-DCE	<0.0050	<0.10	<0.0050	0.015

SB-19

Depth	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	0.24	0.028	0.013
TCE	<0.0050	<0.0050	<0.0050
cis-1,2-DCE	<0.0050	<0.0050	<0.0050

SB-20

Depth	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	0.028	<0.0050	<0.0050
TCE	<0.0050	<0.0050	<0.0050
cis-1,2-DCE	<0.0050	<0.0050	<0.0050

SB8

Depth	2 ft-bgs	4 ft-bgs	8 ft-bgs
PCE	0.82	12.0	6.3
TCE	0.12	<0.50	<0.50
cis-1,2-DCE	0.42	<0.50	<0.50
trans-1,2-DCE	0.0063	<0.50	<0.50

SB-23

Depth	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	<0.0050	0.032	0.073
TCE	<0.0050	<0.0050	<0.0050
cis-1,2-DCE	<0.0050	<0.0050	0.0071

SB9

Depth	1.5 ft-bgs	4 ft-bgs	8 ft-bgs
PCE	<0.0050	0.040	0.041
TCE	<0.0050	0.014	0.024
cis-1,2-DCE	<0.0050	0.016	0.038

SB-5

Depth	5 ft-bgs	8 ft-bgs
PCE	0.81	0.044
TCE	0.084	0.011
cis-1,2-DCE	0.048	0.014

SB-5b

Depth	1.5 ft-bgs
PCE	<0.0050
TCE	<0.0050
cis-1,2-DCE	<0.0050

SB10

Depth	2.5 ft-bgs	4 ft-bgs	8 ft-bgs
PCE	<0.0050	0.038	0.0087
TCE	<0.0050	0.0082	0.0069
cis-1,2-DCE	<0.0050	<0.0050	0.0078

SB7

Depth	2 ft-bgs	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	<0.0050	0.46	0.55	0.22
TCE	<0.0050	0.032	<0.10	0.13
cis-1,2-DCE	<0.0050	0.0074	<0.10	0.11

SB-22

Depth	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	0.066	0.013	0.096
TCE	0.0096	<0.0050	0.068
cis-1,2-DCE	0.062	<0.0050	0.022

SB17

Depth	2 ft-bgs	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	<0.0050	<0.0050	0.13	0.097
TCE	<0.0050	<0.0050	0.028	0.025
cis-1,2-DCE	<0.0050	0.010	0.020	0.024
Vinyl Chloride	<0.0050	0.020	<0.0050	<0.0050

SB12

Depth	1 ft-bgs	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	0.14	1.8	1.2	0.25
TCE	0.037	0.27	0.13	0.12
cis-1,2-DCE	0.047	0.22	0.14	0.12

SB-21

Depth	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	0.017	<0.0050	0.044
TCE	<0.0050	<0.0050	<0.0050
cis-1,2-DCE	<0.0050	<0.0050	<0.0050

SB18

Depth	1.5 ft-bgs	4 ft-bgs	8 ft-bgs	12 ft-bgs
PCE	0.035	0.12	0.058	0.20
TCE	0.0083	0.019	0.13	0.10
cis-1,2-DCE	0.022	0.014	0.13	0.14

Lahontan Water Board Annotation Notes:
1) Boring locations and PCE soil sample results highlighted in blue indicate PCE concentration in soil exceeded leaching to groundwater ESL of 0.08 mg/kg.
2) Boring locations and PCE soil sample results highlighted in yellow indicate PCE was detected above the reporting limit and below the leaching to groundwater ESL of 0.08 mg/kg.
3) The Site's front entrance, suspected PCE delivery truck parking area, and approximate stormwater conveyance system drop inlet locations are specifically denoted.

PES Environmental, Inc.
Engineering & Environmental Services

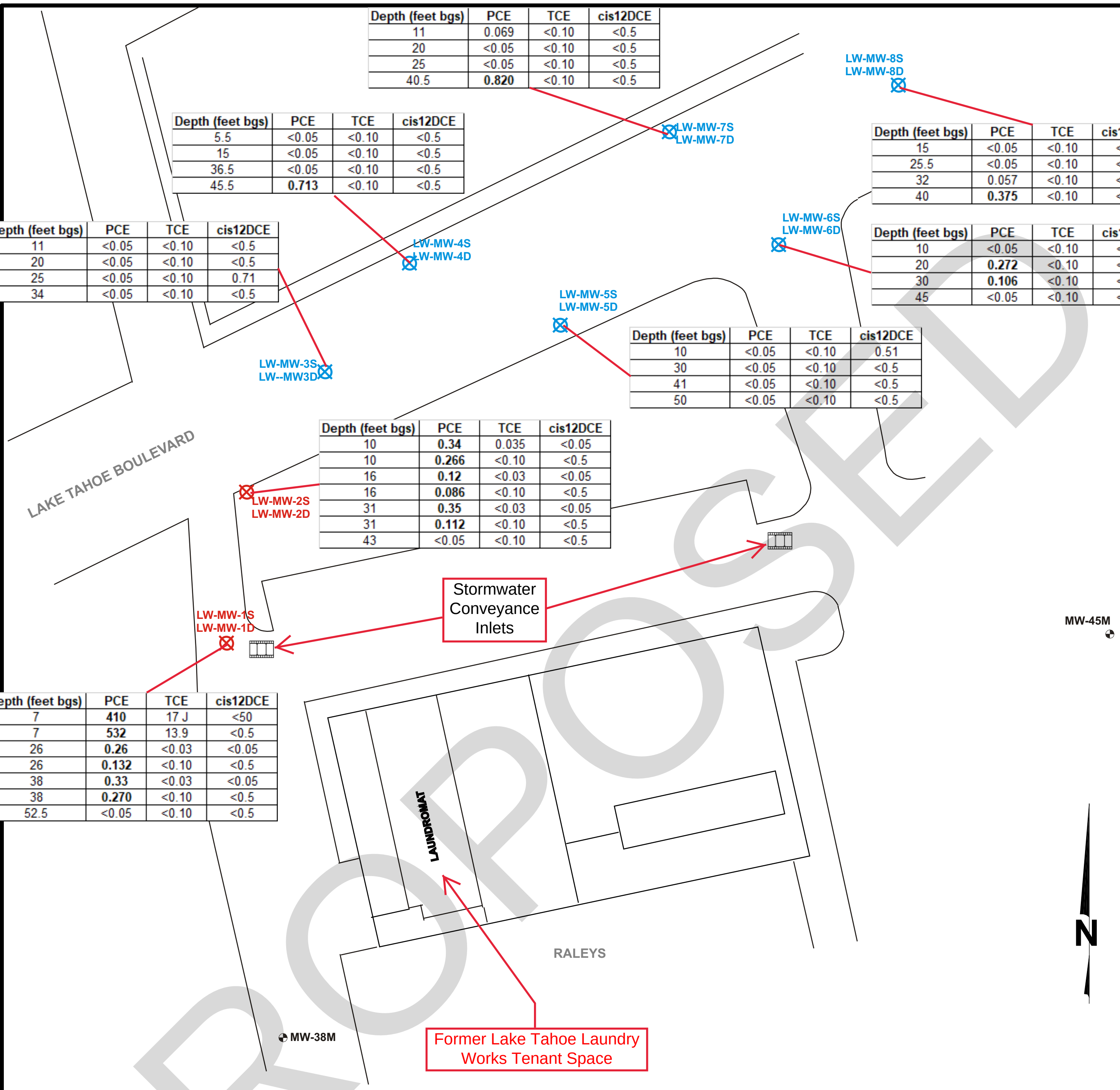
Soil Analytical Results
Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard
South Lake Tahoe, California

PLATE 4

JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE
1021.001.01.007	102100101007_1105	KSF	1/06

FIGURE 10: ANNOTATED SITE PLAN SHOWING SOIL ANALYTICAL RESULTS FROM JULY 2008 ON-SITE AND OFF-SITE WELL INSTALLATION, SITE INVESTIGATION REPORT OF FINDINGS (E2C, 2008, ANNOTATED BY LAHONTAN WATER BOARD STAFF)

E2C Remediation Environmental Engineering, Consulting and Remediation, Inc. (E2C). 22 September 2008. Site Investigation Report of Findings, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.



LW-MW-7S/7D

Depth (feet bgs)	PCE	TCE	cis12DCE
11	0.069	<0.10	<0.5
20	<0.05	<0.10	<0.5
25	<0.05	<0.10	<0.5
40.5	**0.820**	<0.10	<0.5

LW-MW-4S/4D

Depth (feet bgs)	PCE	TCE	cis12DCE
5.5	<0.05	<0.10	<0.5
15	<0.05	<0.10	<0.5
36.5	<0.05	<0.10	<0.5
45.5	**0.713**	<0.10	<0.5

LW-MW-3S/3D

Depth (feet bgs)	PCE	TCE	cis12DCE
11	<0.05	<0.10	<0.5
20	<0.05	<0.10	<0.5
25	<0.05	<0.10	0.71
34	<0.05	<0.10	<0.5

LW-MW-8S/8D

Depth (feet bgs)	PCE	TCE	cis12DCE
15	<0.05	<0.10	<0.5
25.5	<0.05	<0.10	<0.5
32	0.057	<0.10	<0.5
40	**0.375**	<0.10	<0.5

LW-MW-6S/6D

Depth (feet bgs)	PCE	TCE	cis12DCE
10	<0.05	<0.10	<0.5
20	**0.272**	<0.10	<0.5
30	**0.106**	<0.10	<0.5
45	<0.05	<0.10	<0.5

LW-MW-5S/5D

Depth (feet bgs)	PCE	TCE	cis12DCE
10	<0.05	<0.10	0.51
30	<0.05	<0.10	<0.5
41	<0.05	<0.10	<0.5
50	<0.05	<0.10	<0.5

LW-MW-2S/2D

Depth (feet bgs)	PCE	TCE	cis12DCE
10	**0.34**	0.035	<0.05
10	**0.266**	<0.10	<0.5
16	**0.12**	<0.03	<0.05
16	**0.086**	<0.10	<0.5
31	**0.35**	<0.03	<0.05
31	**0.112**	<0.10	<0.5
43	<0.05	<0.10	<0.5

LW-MW-1S/1D

Depth (feet bgs)	PCE	TCE	cis12DCE
7	**410**	17 J	<50
7	**532**	13.9	<0.5
26	**0.26**	<0.03	<0.05
26	**0.132**	<0.10	<0.5
38	**0.33**	<0.03	<0.05
38	**0.270**	<0.10	<0.5
52.5	<0.05	<0.10	<0.5

Lahontan Water Board Annotation Notes:
1) Added symbols to show approximate locations of stormwater conveyance inlets.
2) Added data boxes to include soil concentrations detected during well installations in July 2008. Concentrations reported in milligrams per kilogram (mg/kg).
3) Bold indicates concentrations exceed leaching to groundwater ESL.
4) Added text box to indicate Former Lake Tahoe Laundry Works location.

0 FT 50 FT

LEGEND

LW-MW-1S/1D On-Site Dual-Zone Groundwater Monitoring Well Set
LW-MW-3S/3D Off-Site Dual-Zone Temporary Groundwater Monitoring Well Set

E₂C Remediation
5300 Woodmere Dr., Suite 105
Bakersfield, CA 93313
Phone: (661) 831-6906
Fax: (661) 831-6234

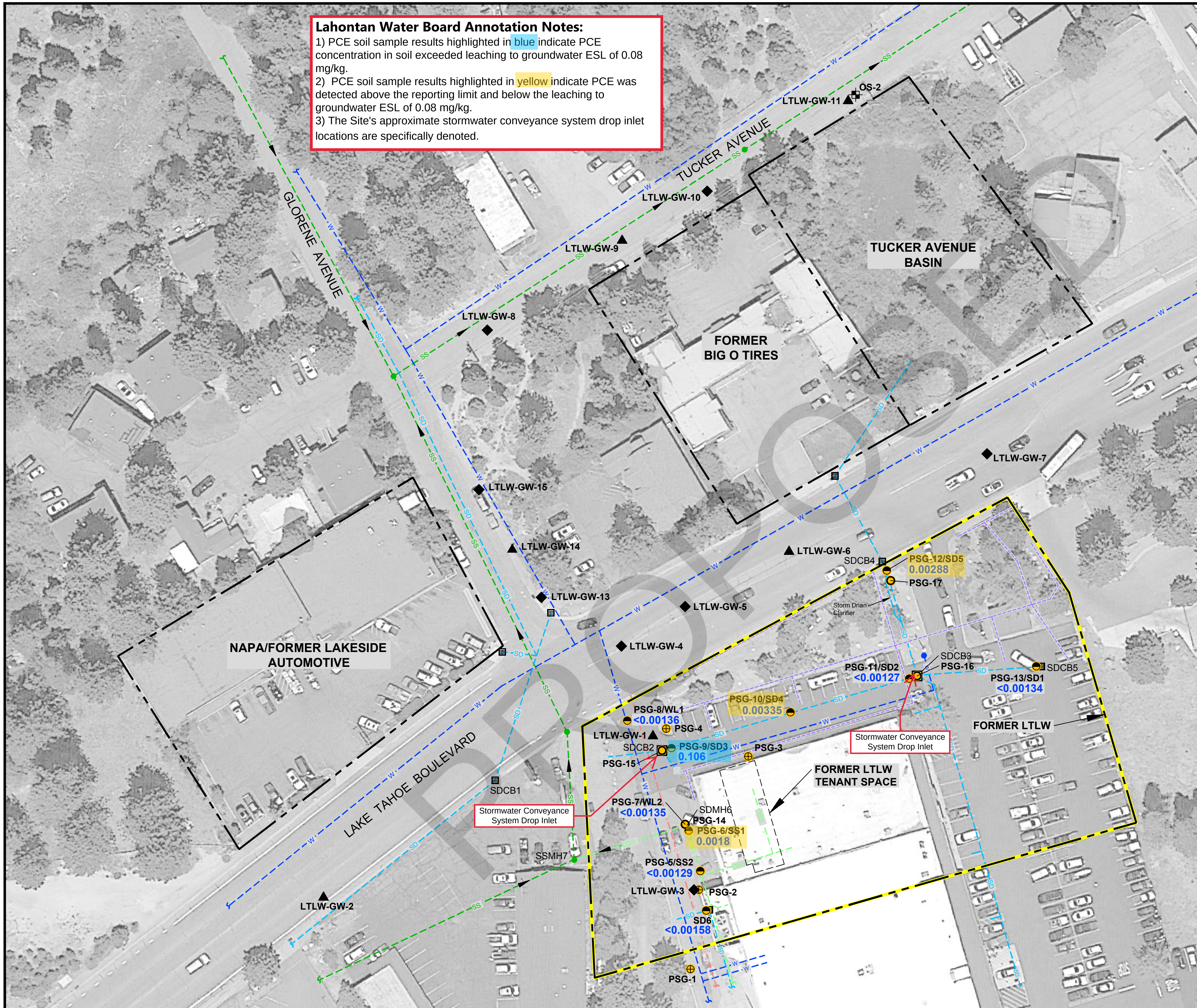
LAKE TAHOE LAUNDRY WORKS
1024 LAKE TAHOE BOULEVARD
SOUTH LAKE TAHOE, CALIFORNIA

SITE PLAN

FIGURE 2A

FIGURE 11: ANNOTATED PCE IN ON-SITE FILL SURROUNDING SUBSURFACE STORM DRAIN AND SANITARY SEWER PIPES, INVESTIGATION SUMMARY REPORT (EKI, 2019B, ANNOTATED BY LAHONTAN WATER BOARD STAFF)

EKI. 1 April 2019b. Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.



20190315.08023584 G:\A70020.11\Report Dwgs_NewFigure 3-3.dwg Figure 3-3

Legend:

(yellow/black dashed line)	Approximate Property Boundaries
PSG-10/SD5	Stage 1 Utility Trench Vapor/Soil Boring
PSG-4	Stage 1 Background Soil Vapor (Outside of Utility Trench)
PSG-14	Stage 1 Sewer/Storm Drain Vapor
LTLW-GW-9	CPT and GGW Sample (June 2017 to Present)
LTLW-GW-3	GGW Sample (June 2017 to Present)
OS-2	Monitoring Well Pair (June 2017 to Present)
0.00335	Concentration of PCE in Utility Backfill Soil in Milligrams Per Kilogram (mg/kg)
<0.00136	PCE Not Detected at or Above the Indicated Reporting Limit
SS	STPUD Sewer Main and Manhole
OSS	On-Site Sewer Line
W	Water Line and Fire Hydrant
G	Natural Gas Line
SD	Subsurface Stormwater System
	SVE Remediation System Trench
SDCB5	Identifier for Sanitary Sewer Manholes (SSMH) and Storm Drain Catch Basins (SDCB)

Abbreviations:

CPT	= cone penetration test
GGW	= grab groundwater
LTLW	= Lake Tahoe Laundry Works
PCE	= tetrachloroethene
STPUD	= South Tahoe Public Utility District
SVE	= soil vapor extraction

Notes:

1. All locations are approximate.
2. Basemap source: Google Earth Pro, date of imagery 7 June 2018.

N

0 70 140

(Scale in Feet)

PCE in On-Site Fill Surrounding Subsurface Storm Drain and Sanitary Sewer Pipes

Former Lake Tahoe Laundry Works
South Lake Tahoe, CA
April 2019
EKI A70020.11

eki environment & water

Figure 5-1

FIGURE 12: ANNOTATED THIRD QUARTER 2021 SHALLOW SOIL VAPOR DISTRIBUTION PLOT AND HISTORIC MAXIMUM PCE CONCENTRATIONS DETECTED, THIRD QUARTER 2021 MONITORING REPORT (PES, 2021, ANNOTATED BY LAHONTAN WATER BOARD STAFF)

PES. 15 December 2021. Third Quarter 2021 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

Lahontan Water Board Staff Annotation Notes:

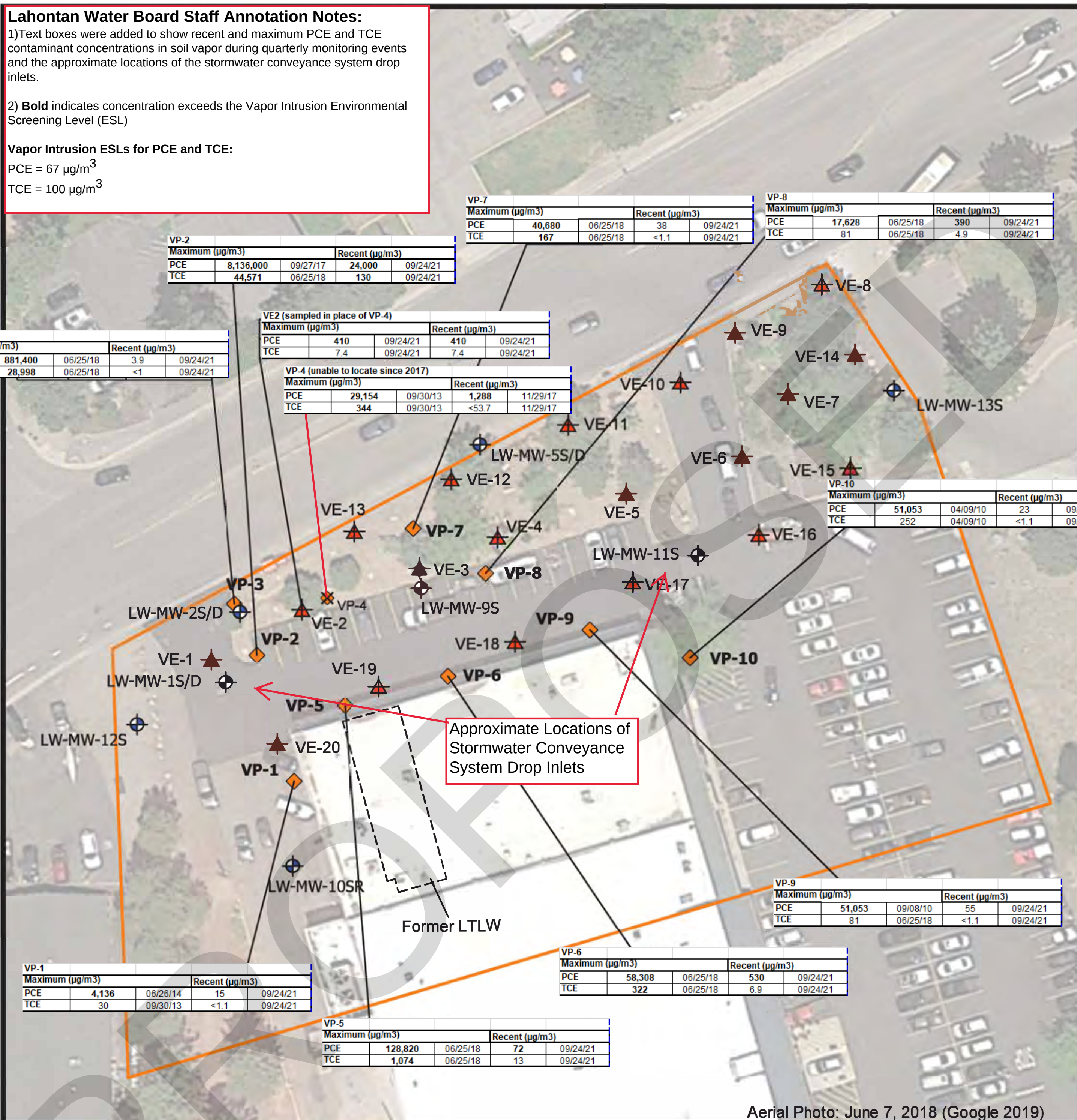
1)Text boxes were added to show recent and maximum PCE and TCE contaminant concentrations in soil vapor during quarterly monitoring events and the approximate locations of the stormwater conveyance system drop inlets.

2) **Bold** indicates concentration exceeds the Vapor Intrusion Environmental Screening Level (ESL)

Vapor Intrusion ESLs for PCE and TCE:

PCE = 67 μg/m^3

TCE = 100 μg/m^3



VP-1

Maximum (μg/m3)			Recent (μg/m3)	
PCE	**4,136**	06/26/14	15	09/24/21
TCE	30	09/30/13	<1.1	09/24/21

VP-2

Maximum (μg/m3)			Recent (μg/m3)	
PCE	**8,136,000**	09/27/17	**24,000**	09/24/21
TCE	**44,571**	06/25/18	**130**	09/24/21

VP-3

Maximum (μg/m3)			Recent (μg/m3)	
PCE	**881,400**	06/25/18	3.9	09/24/21
TCE	**28,998**	06/25/18	<1	09/24/21

VE2 (sampled in place of VP-4)

Maximum (μg/m3)			Recent (μg/m3)	
PCE	**410**	09/24/21	**410**	09/24/21
TCE	7.4	09/24/21	7.4	09/24/21

VP-4 (unable to locate since 2017)

Maximum (μg/m3)			Recent (μg/m3)	
PCE	**29,154**	09/30/13	**1,288**	11/29/17
TCE	**344**	09/30/13	<53.7	11/29/17

VP-5

Maximum (μg/m3)			Recent (μg/m3)	
PCE	**128,820**	06/25/18	**72**	09/24/21
TCE	**1,074**	06/25/18	13	09/24/21

VP-6

Maximum (μg/m3)			Recent (μg/m3)	
PCE	**58,308**	06/25/18	**530**	09/24/21
TCE	**322**	06/25/18	6.9	09/24/21

VP-7

Maximum (μg/m3)			Recent (μg/m3)	
PCE	**40,680**	06/25/18	38	09/24/21
TCE	**167**	06/25/18	<1.1	09/24/21

VP-8

Maximum (μg/m3)			Recent (μg/m3)	
PCE	**17,628**	06/25/18	**390**	09/24/21
TCE	81	06/25/18	4.9	09/24/21

VP-9

Maximum (μg/m3)			Recent (μg/m3)	
PCE	**51,053**	09/08/10	55	09/24/21
TCE	81	06/25/18	<1.1	09/24/21

VP-10

Maximum (μg/m3)			Recent (μg/m3)	
PCE	**51,053**	04/09/10	23	09/24/21
TCE	252	04/09/10	<1.1	09/24/21

Explanation

Lake Tahoe Laundry Works (LTLW Site)

LW-MW-13S Groundwater Monitoring Well

VP-10 Soil Gas Probe Location

VE-1 Soil Vapor Extraction (SVE) Well Location

VP-4 Lost Soil Gas Probe Location

NS = Not Sampled
PCE = Tetrachloroethene
TCE = Trichloroethene
cis-1,2-DCE = cis-1,2-Dichloroethene
Concentrations reported in micrograms by cubic meter(μg/m^3)
<1.1 = Not detected at respective laboratory reporting limit

0 60
SCALE IN FEET

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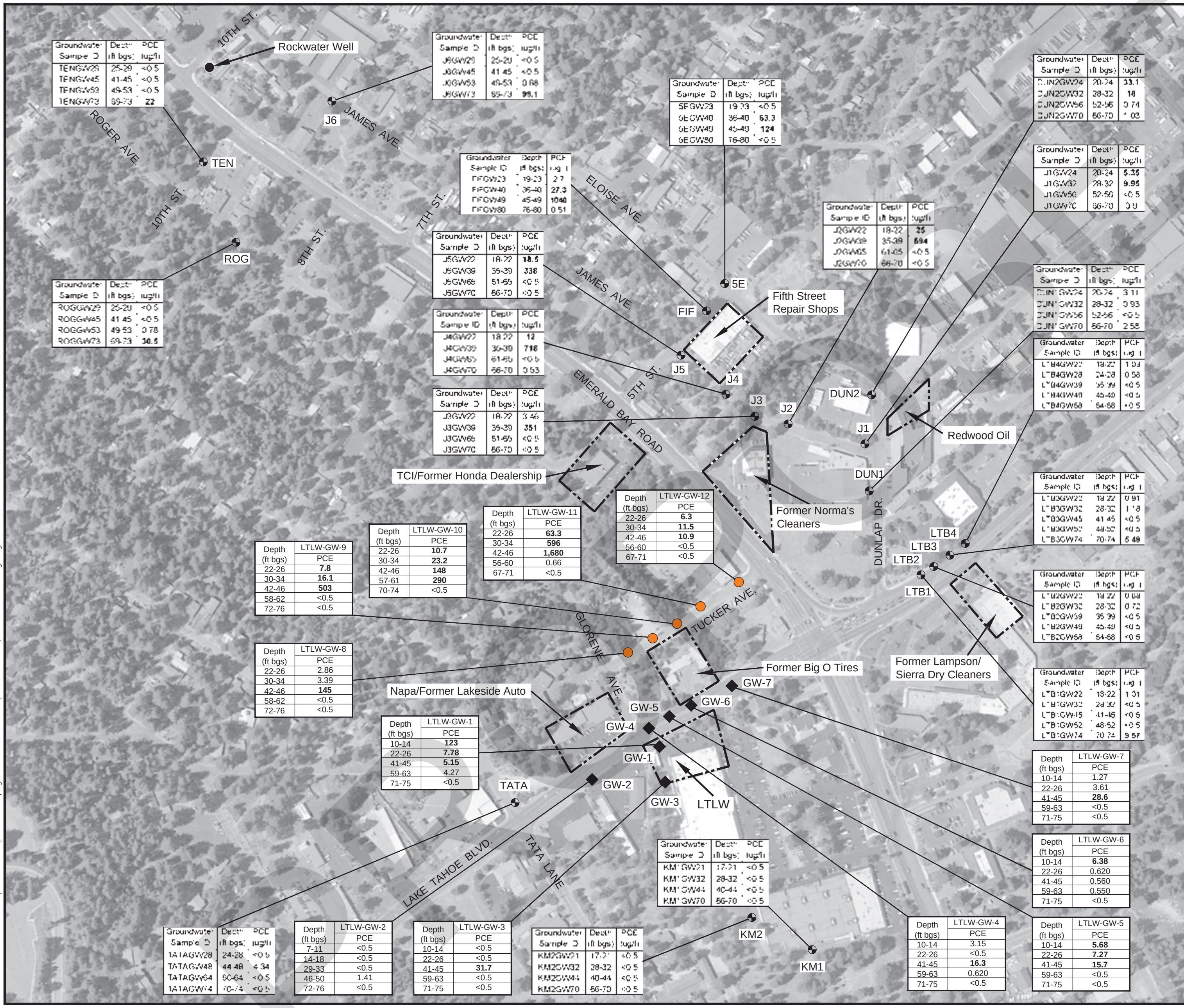
Third Quarter 2021 Shallow Soil Vapor Distribution Plot
Quarterly Monitoring Report
Former Lake Tahoe Laundry Works
South Lake Tahoe, California

PLATE
7

JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE
1021.001.04.036	102100104036_21Q3_7	KSF	12/21

FIGURE 13: EKI AND PES MULTI-DEPTH GRAB GROUNDWATER SAMPLE LOCATIONS AND PCE RESULTS, GROUNDWATER INVESTIGATION PLANNING AND PROGRESS REPORT NO. 2 REVISED (OCTOBER 11, 2018)

EKI. 11 October 2018c. Groundwater Investigation Planning and Progress Report No. 2 REV, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.



Legend:

- EKI Approximate Multi-Depth Grab Groundwater Sample Location (June/July 2017)
- PES Approximate Multi-Depth Grab Groundwater Sample Location (January 2018)
- EKI Approximate Multi-Depth Grab Groundwater Sample Location (October 2018)

Abbreviations:

ft bgs = feet below ground surface
LTLW = Lake Tahoe Laundry Works
MCL = maximum contaminant level
ug/l = micrograms per liter
PCE = tetrachloroethene/perchloroethylene

Notes:

1. All locations are approximate.
2. Bold value in data box indicates that measured PCE concentration in sample exceeds current California MCL.
3. Basemap source: Google Earth Pro, date of imagery 13 July 2016.

EKI and PES Multi-Depth Grab Groundwater Sample Locations and PCE Results

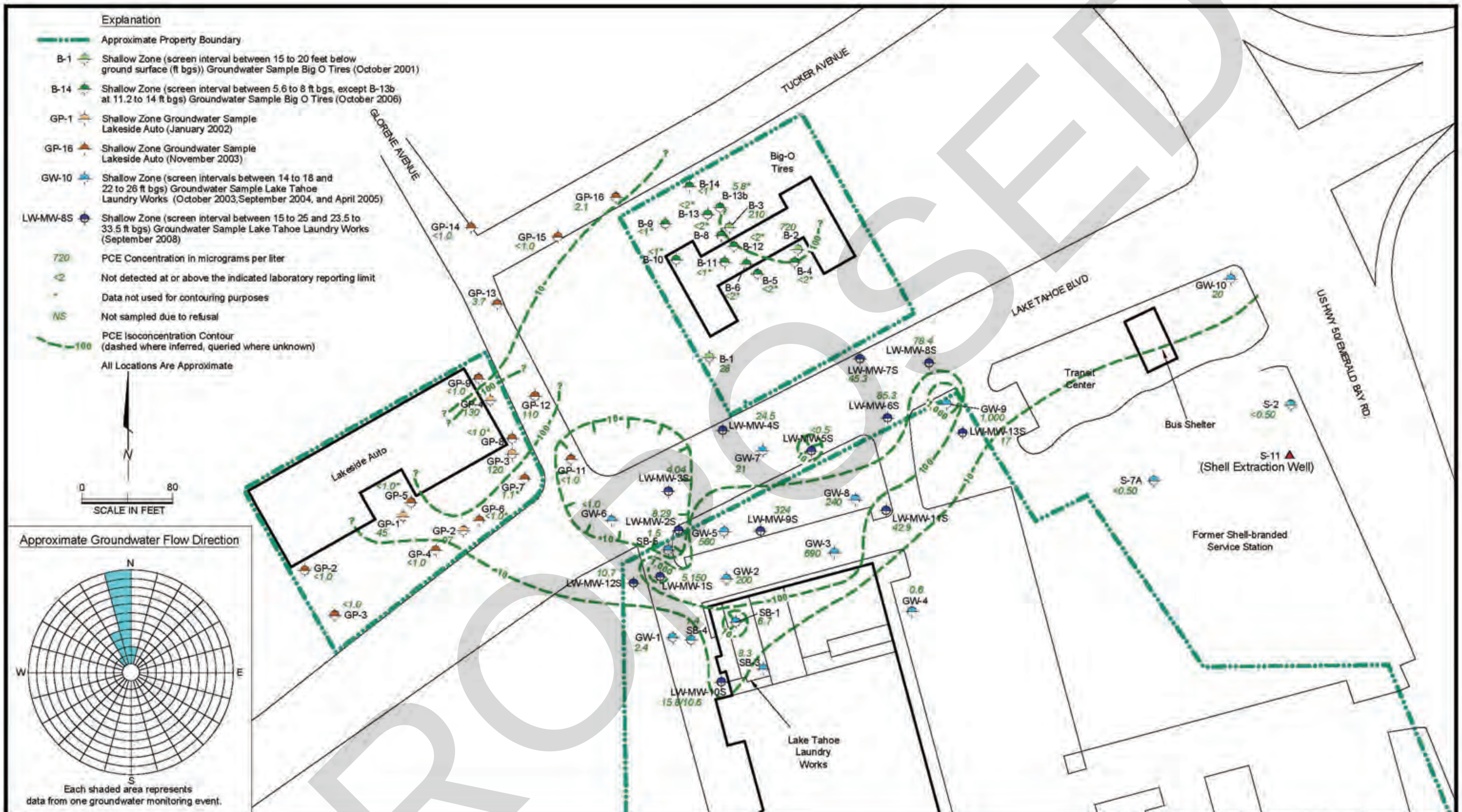
South Y Area
South Lake Tahoe, CA
October 2018
EKI A70020.06

eki environment & water

Figure 2

20170818.07585091 G:\A70020.02\2017-08\Figure 2 – Multi-Depth GW Sample Locations.dwg Figure 1a

FIGURE 14: PCE ISOCONCENTRATION CONTOURS OF ANALYTICAL RESULTS FROM SHALLOW WATER-BEARING ZONE (2001-2008), COMMENTS ON PROPOSED CLEANUP AND ABATEMENT ORDER NO. R6T-2015-PROP (AR010084)



PCE Isoconcentration Contours of Analytical Results from Shallow Water-Bearing Zone (2001-2008)
Comments on Proposed Cleanup and Abatement Order No. R6T-2015-PROP
Lake Tahoe Laundry Works
South Lake Tahoe, California

PLATE 2

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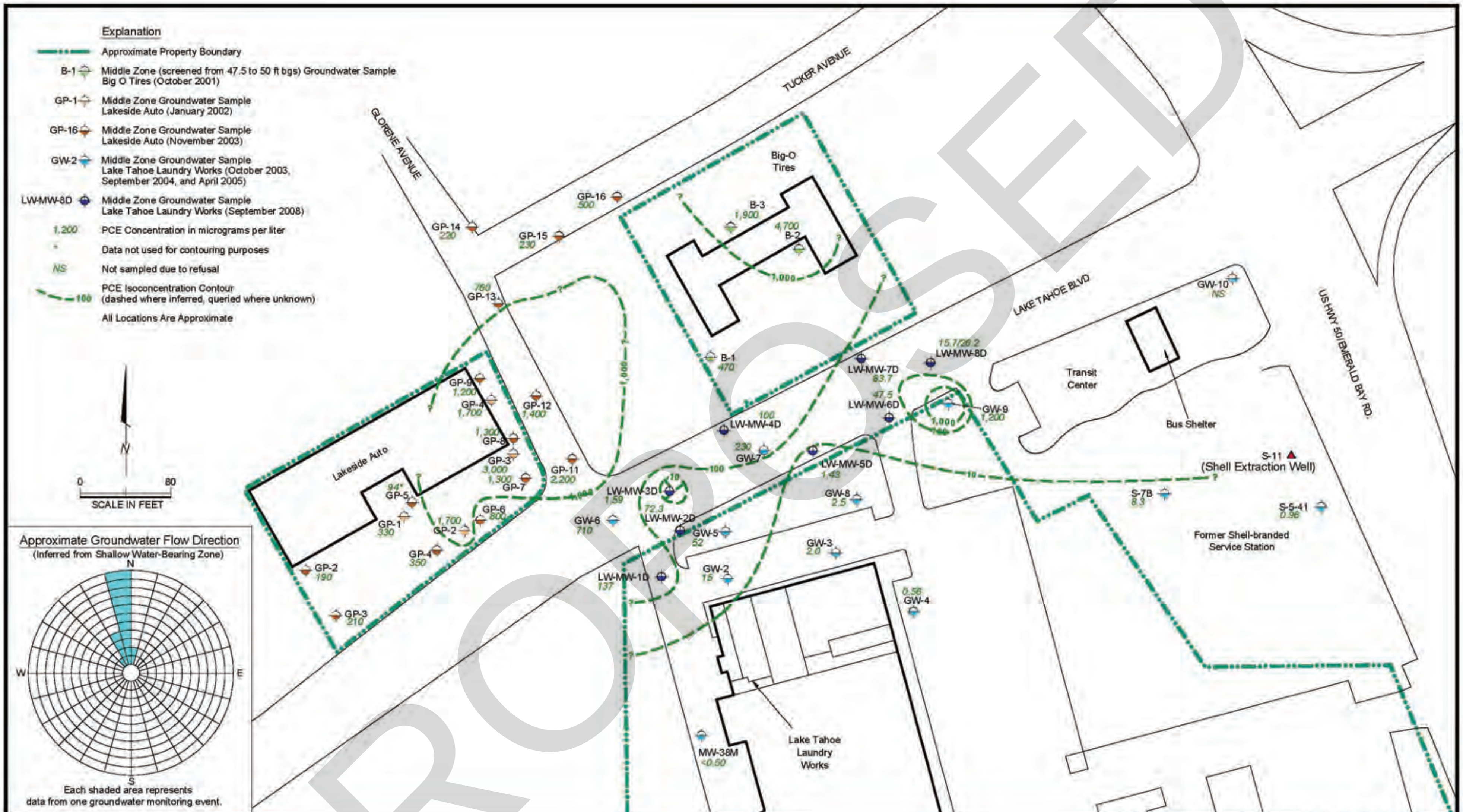
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE
1021.001.01.008	10210010108_CommdrCAO_2-3	KSF	2/16

FIGURE 15: PCE ISOCONCENTRATION CONTOURS OF ANALYTICAL RESULTS FROM MIDDLE WATER-BEARING ZONE (2001-2008), COMMENTS ON PROPOSED CLEANUP AND ABATEMENT ORDER NO. R6T-2015-PROP (AR010085)



PCE Isoconcentration Contours of Analytical Results from Middle Water-Bearing Zone (2001-2008)
Comments on Proposed Cleanup and Abatement Order
No. R6T-2015-PROP
Lake Tahoe Laundry Works
South Lake Tahoe, California

PLATE 3

PES Environmental, Inc.
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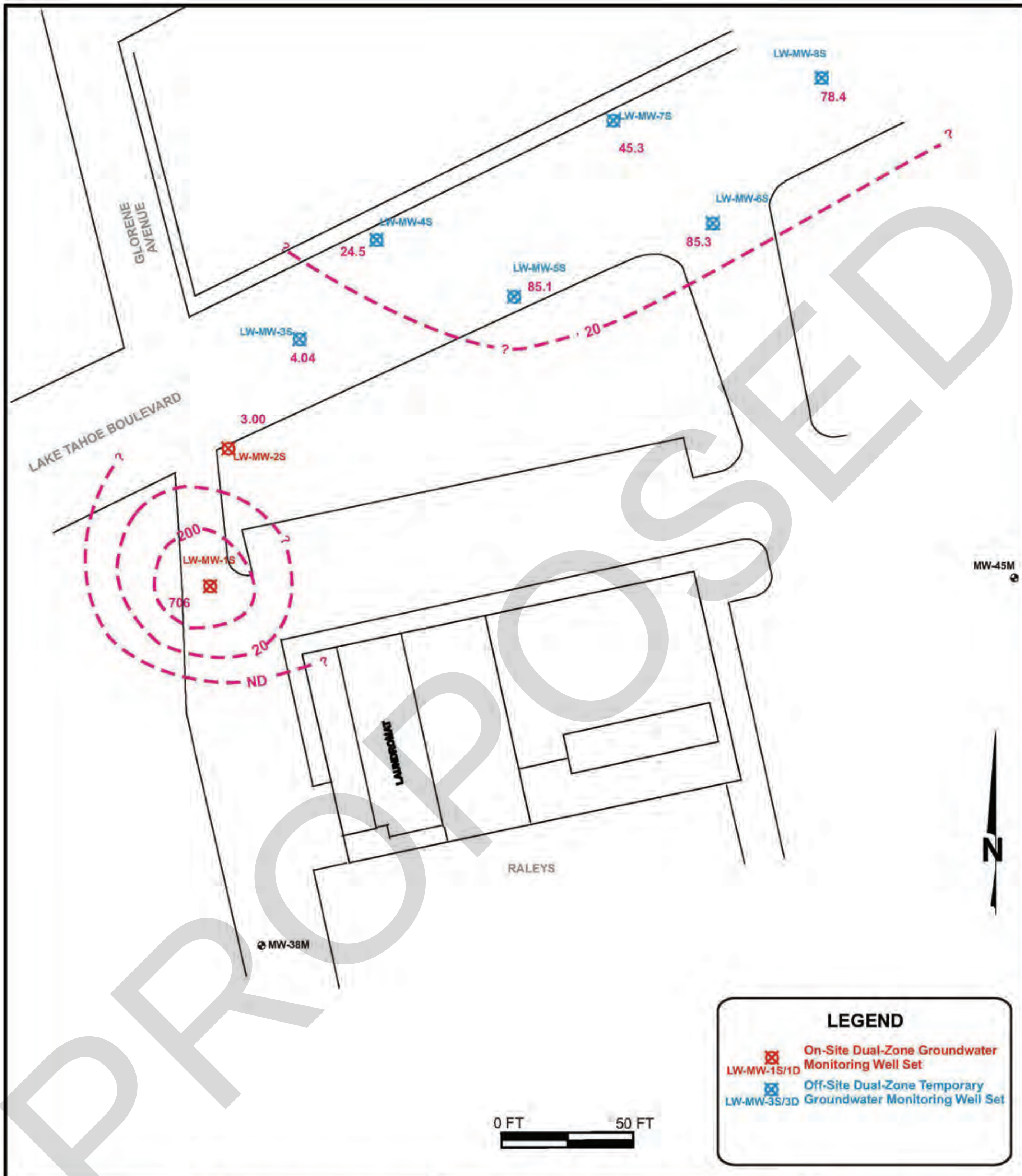
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE
1021.001.01.008	102100101008_CommdrCAO_2-3	KSF	2/16

FIGURE 16: SZA PCE ISOCONCENTRATION PLOT, SITE INVESTIGATION REPORT OF FINDINGS (E2C, 2008)

E2C Remediation Environmental Engineering, Consulting and Remediation, Inc. (E2C). 22 September 2008. Site Investigation Report of Findings, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.



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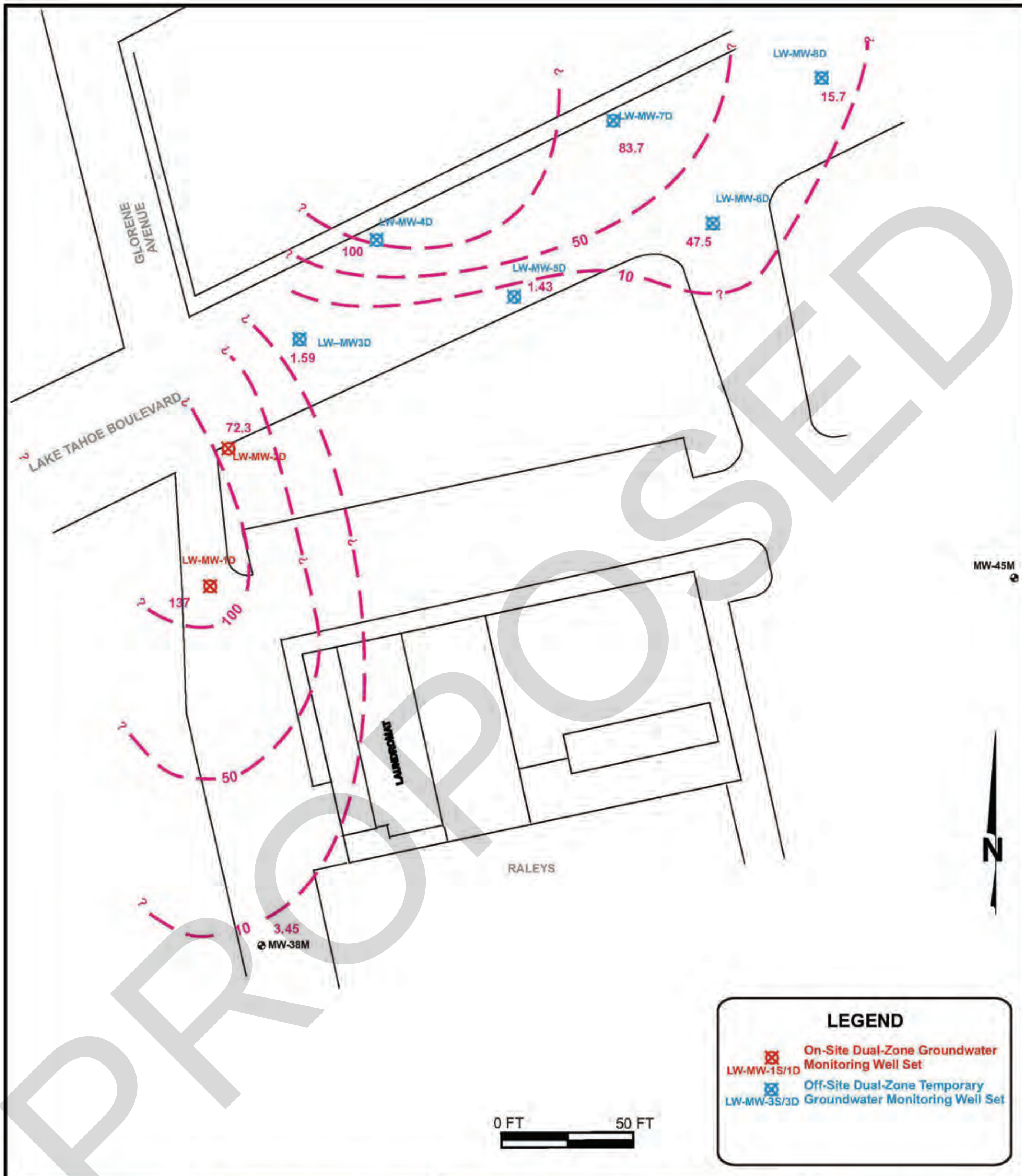
LAKE TAHOE LAUNDRY WORKS
1024 LAKE TAHOE BOULEVARD
SOUTH LAKE TAHOE, CALIFORNIA

SZA PCE ISOCONCENTRATION PLOT

FIGURE 8A

FIGURE 17: MZA PCE ISOCONCENTRATION PLOT, SITE INVESTIGATION REPORT OF FINDINGS (E2C, 2008)

E2C Remediation Environmental Engineering, Consulting and Remediation, Inc. (E2C). 22 September 2008. Site Investigation Report of Findings, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.



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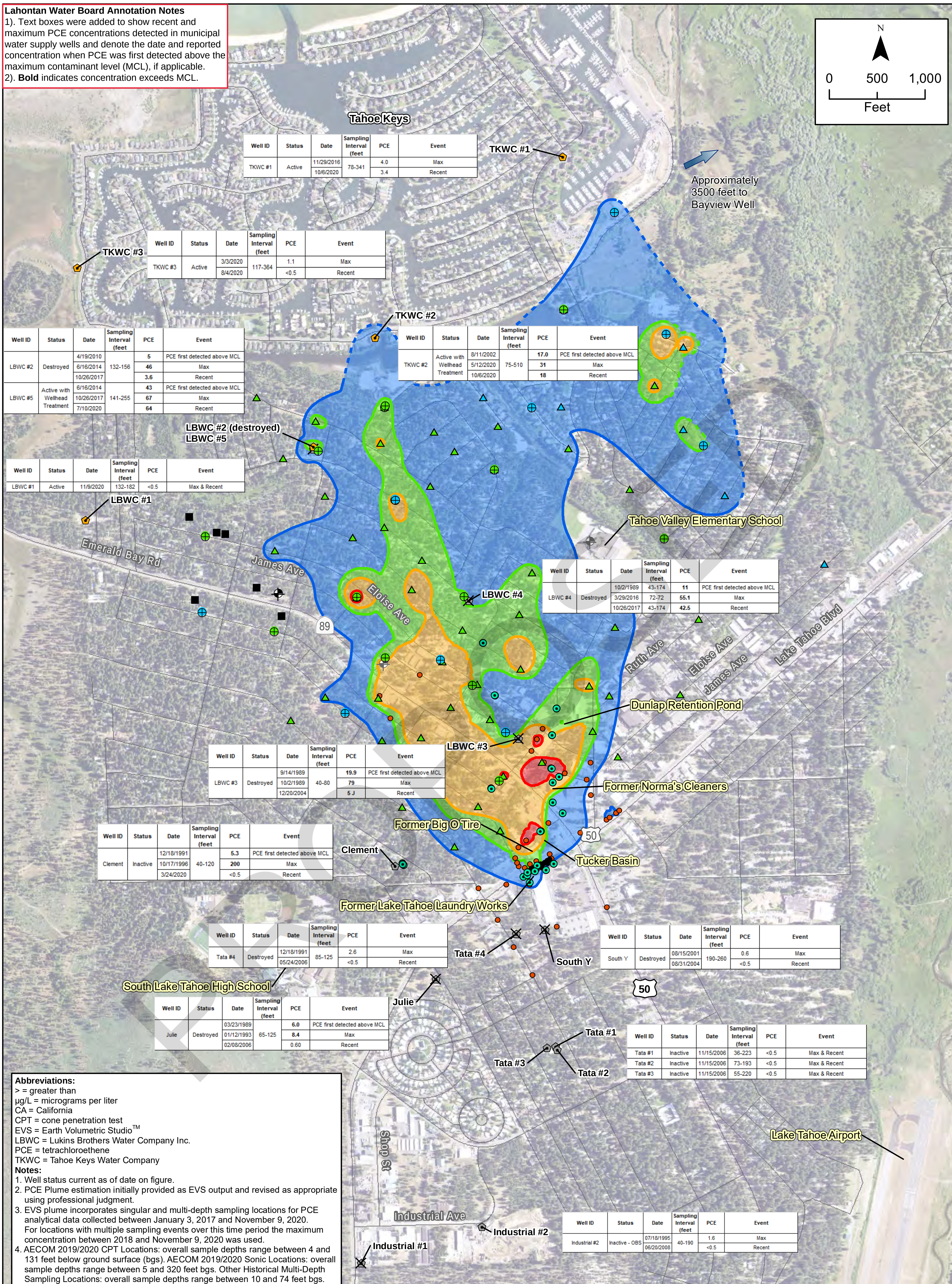
MZA PCE ISOCONCENTRATION PLOT

FIGURE 9A

FIGURE 18: ANNOTATED DISSOLVED PCE IN GROUNDWATER PLUME MAP WITH RECENT AND MAXIMUM PCE CONCENTRATIONS IN MUNICIPAL SUPPLY WELLS, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH "Y" PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022, ANNOTATED BY LAHONTAN WATER BOARD STAFF)

AECOM. Regional Plume Characterization Summary Report: South "Y" PCE Plume 2019-2020 Field Season (June 10, 2022).

Lahontan Water Board Annotation Notes
1). Text boxes were added to show recent and maximum PCE concentrations detected in municipal water supply wells and denote the date and reported concentration when PCE was first detected above the maximum contaminant level (MCL), if applicable.
2). **Bold** indicates concentration exceeds MCL.



Well ID	Status	Date	Sampling Interval (feet	PCE	Event
TKWC #1	Active	11/29/2016	78-341	4.0	Max
		10/6/2020		3.4	Recent

Well ID	Status	Date	Sampling Interval (feet	PCE	Event
TKWC #3	Active	3/3/2020	117-364	1.1	Max
		8/4/2020		<0.5	Recent

Well ID	Status	Date	Sampling Interval (feet	PCE	Event
LBWC #2	Destroyed	4/19/2010	132-156	**5**	PCE first detected above MCL
		6/16/2014		**46**	Max
		10/26/2017		**3.6**	Recent
LBWC #5	Active with Wellhead Treatment	6/16/2014	141-255	**43**	PCE first detected above MCL
		10/26/2017		**67**	Max
		7/10/2020		**64**	Recent

Well ID	Status	Date	Sampling Interval (feet	PCE	Event
TKWC #2	Active with Wellhead Treatment	8/11/2002	75-510	**17.0**	PCE first detected above MCL
		5/12/2020		**31**	Max
		10/6/2020		**18**	Recent

Well ID	Status	Date	Sampling Interval (feet	PCE	Event
LBWC #1	Active	11/9/2020	132-182	<0.5	Max & Recent

Well ID	Status	Date	Sampling Interval (feet	PCE	Event
LBWC #4	Destroyed	10/2/1989	43-174	**11**	PCE first detected above MCL
		3/29/2016	72-72	**55.1**	Max
		10/26/2017	43-174	**42.5**	Recent

Well ID	Status	Date	Sampling Interval (feet	PCE	Event
LBWC #3	Destroyed	9/14/1989	40-80	**19.9**	PCE first detected above MCL
		10/2/1989		**79**	Max
		12/20/2004		**5 J**	Recent

Well ID	Status	Date	Sampling Interval (feet	PCE	Event
Clement	Inactive	12/18/1991	40-120	**5.3**	PCE first detected above MCL
		10/17/1996		**200**	Max
		3/24/2020		<0.5	Recent

Well ID	Status	Date	Sampling Interval (feet	PCE	Event
Tata #4	Destroyed	12/18/1991	85-125	2.6	Max
		05/24/2006		<0.5	Recent

Well ID	Status	Date	Sampling Interval (feet	PCE	Event
South Y	Destroyed	08/15/2001	190-260	0.6	Max
		08/31/2004		<0.5	Recent

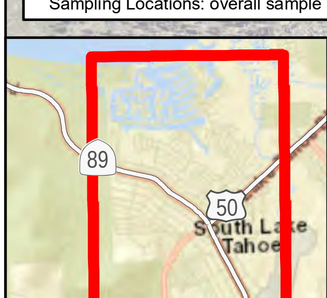
Well ID	Status	Date	Sampling Interval (feet	PCE	Event
Julie	Destroyed	03/23/1989	65-125	**6.0**	PCE first detected above MCL
		01/12/1993		**8.4**	Max
		02/08/2006		0.60	Recent

Well ID	Status	Date	Sampling Interval (feet	PCE	Event
Tata #1	Inactive	11/15/2006	36-223	<0.5	Max & Recent
Tata #2	Inactive	11/15/2006	73-193	<0.5	Max & Recent
Tata #3	Inactive	11/15/2006	55-220	<0.5	Max & Recent

Well ID	Status	Date	Sampling Interval (feet	PCE	Event
Industrial #2	Inactive - OBS	07/18/1995	40-190	1.6	Max
		06/20/2008		<0.5	Recent

Abbreviations:
> = greater than
µg/L = micrograms per liter
CA = California
CPT = cone penetration test
EVS = Earth Volumetric Studio[TM]
LBWC = Lukins Brothers Water Company Inc.
PCE = tetrachloroethene
TKWC = Tahoe Keys Water Company

Notes:
1. Well status current as of date on figure.
2. PCE Plume estimation initially provided as EVS output and revised as appropriate using professional judgment.
3. EVS plume incorporates singular and multi-depth sampling locations for PCE analytical data collected between January 3, 2017 and November 9, 2020. For locations with multiple sampling events over this time period the maximum concentration between 2018 and November 9, 2020 was used.
4. AECOM 2019/2020 CPT Locations: overall sample depths range between 4 and 131 feet below ground surface (bgs). AECOM 2019/2020 Sonic Locations: overall sample depths range between 5 and 320 feet bgs. Other Historical Multi-Depth Sampling Locations: overall sample depths range between 10 and 74 feet bgs.



Location Type
- AECOM 2019 CPT Location
- AECOM 2019 Sonic Location
- AECOM 2020 CPT Location
- AECOM 2020 Sonic Location
- Active Municipal Supply Well
- Inactive Municipal Supply Well
- Destroyed Municipal Supply Well
- Monitoring Well Location
- Historical Single-Depth Sampling Location
- Historical Multi-Depth Sampling Location
- Active Private Supply Well
- Active Small Community Well
- Inactive Small Community Well

PCE Concentration Contours (dashed where inferred)
- 5 - 50 µg/L
- 50 - 100 µg/L
- 100 - 500 µg/L
- >500 µg/L

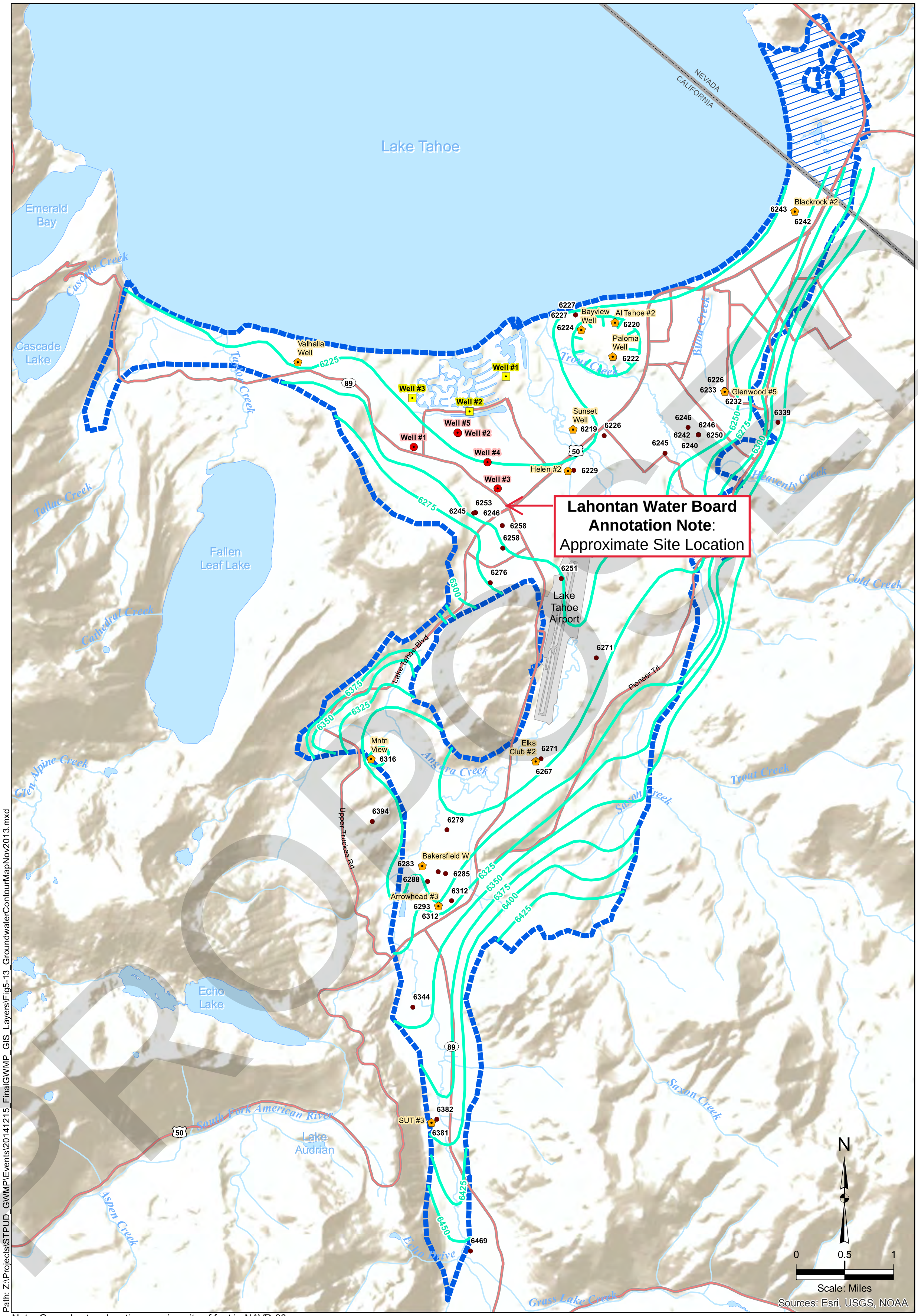
Figure 5
Dissolved PCE in Groundwater Plume Map

South "Y" PCE Plume
South Lake Tahoe, CA

\\na.aecomnet.com\LFS\AMER\Sacramento-USSCR2\DCS\GIS\Projects\60601911_South_Lake_Tahoe_PCE\02_Maps\02_Report_Maps\Regional_Plume_Characterization_Summary_Report\Fig5_Dissolved_PCE_GW_Plume.mxd 6/8/2022 mike.snyder SAC

FIGURE 19: ANNOTATED GROUNDWATER CONTOUR MAP NOVEMBER 2013, TAHOE VALLEY SOUTH BASIN (6-5.01) GROUNDWATER MANAGEMENT PLAN (KENNEDY JENKS CONSULTANTS, 2014, ANNOTATED BY LAHONTAN WATER BOARD STAFF)

Kennedy Jenks Consultants. 22 December 2014. Tahoe Valley South Basin (6-5.01) 2014 Groundwater Management Plan, Prepared for South Tahoe Public Utility District, 1275 Meadow Crest Drive, South Lake Tahoe, CA 96150.



Path: Z:\Projects\STPUD_GWMP\Events\20141215_FinalGWMP_GIS_Layers\Fig5-13_GroundwaterContourMapNov2013.mxd

Note: Groundwater elevations are in units of feet in NAVD 88.

LEGEND

- PWS Active Well
- LBWC Well
- TKWC Well
- Well with Recorded Groundwater Elevation
- Contour of Groundwater Elevation
- Tahoe Valley South Groundwater Basin
- Nevada Extension of Groundwater Basin
- Lake
- River
- Major Highway
- State Line

Kennedy/Jenks Consultants

Final Groundwater Management Plan
South Tahoe Public Utility District

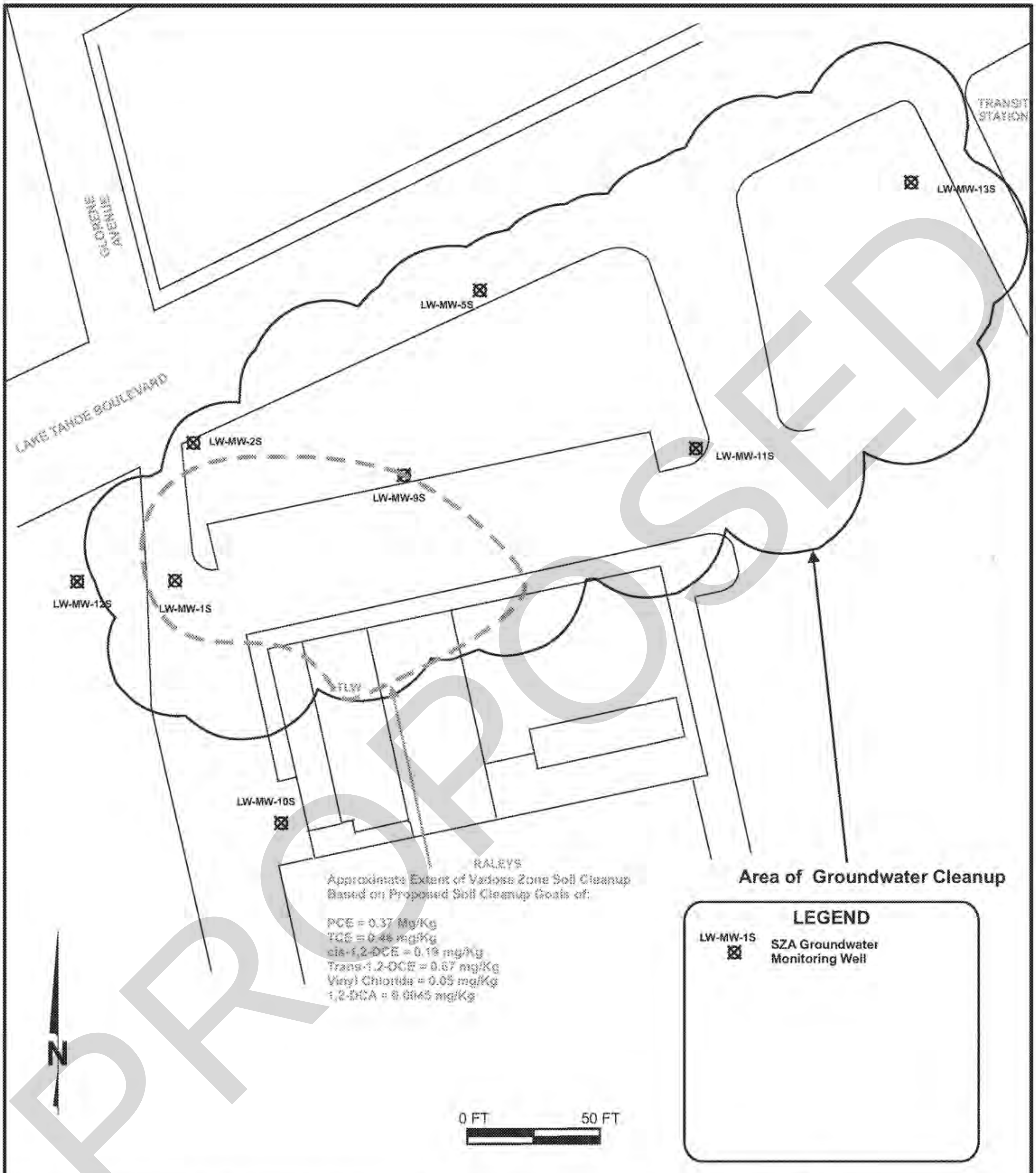
Groundwater Contour Map
November 2013

K/J 1470005*00
December 2014

Figure 5-13

FIGURE 20: REMEDIATION AREA, INTERIM REMEDIAL SYSTEM INSTALLATION/PILOT TESTING REPORT OF FINDINGS AND DRAFT REMEDIAL ACTION PLAN FOR VADOSE ZONE SOIL AND SHALLOW GROUNDWATER CLEANUP (E2C, 2010)

E2C. 12 August 2010. Interim Remedial System Installation/Pilot Testing Report of Findings and Draft Remedial Action Plan for Vadose Zone Soil and Shallow Groundwater Cleanup, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.



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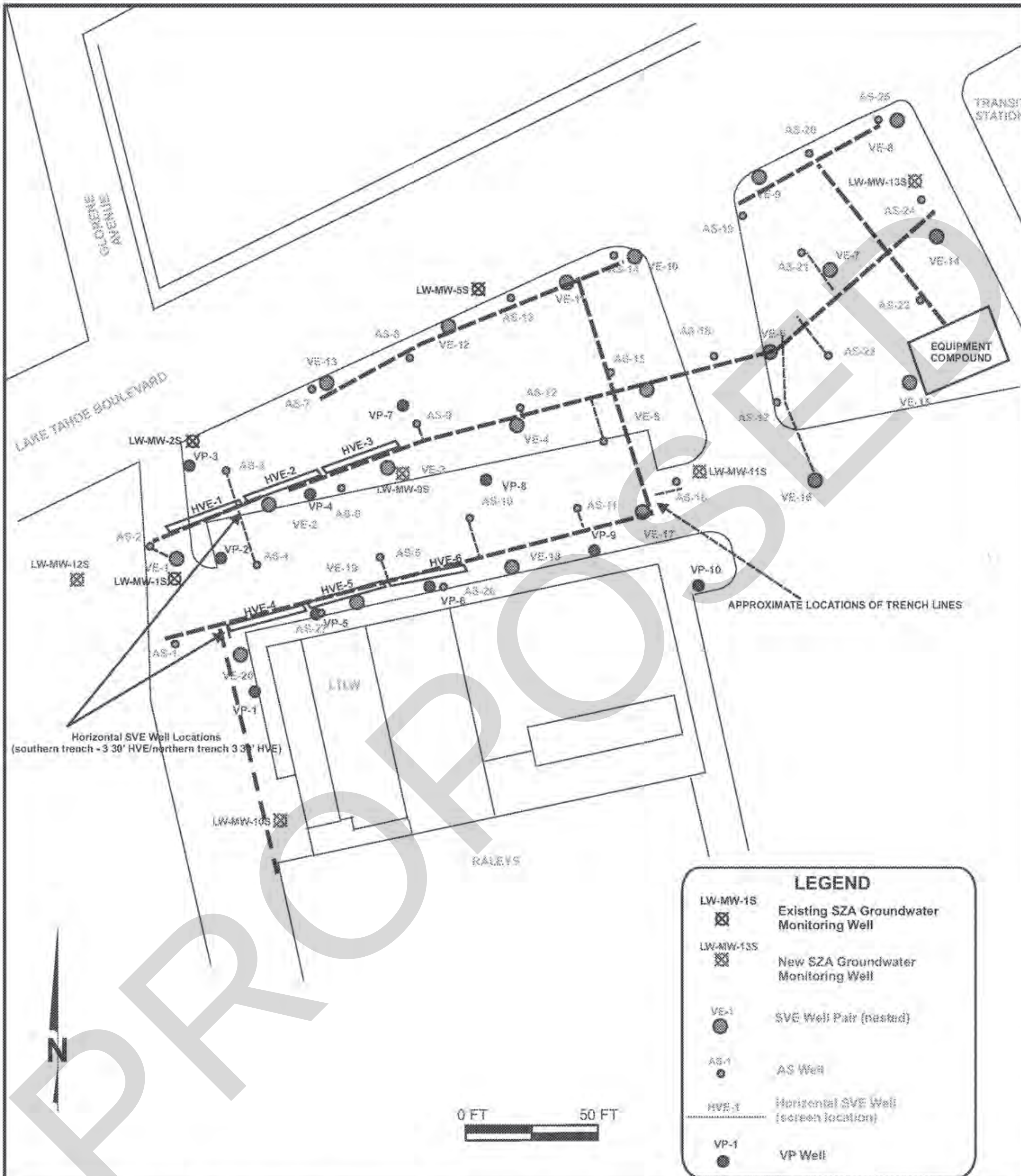
REMEDIATION AREA

FIGURE 4

FIGURE 21: WELL AND TRENCHING LOCATIONS PLOT PLAN, INTERIM REMEDIAL SYSTEM INSTALLATION/PILOT TESTING REPORT OF FINDINGS AND DRAFT REMEDIAL ACTION PLAN FOR VADOSE ZONE SOIL AND SHALLOW GROUNDWATER CLEANUP (E2C, 2010)

E2C. 12 August 2010. Interim Remedial System Installation/Pilot Testing Report of Findings and Draft Remedial Action Plan for Vadose Zone Soil and Shallow Groundwater Cleanup, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.



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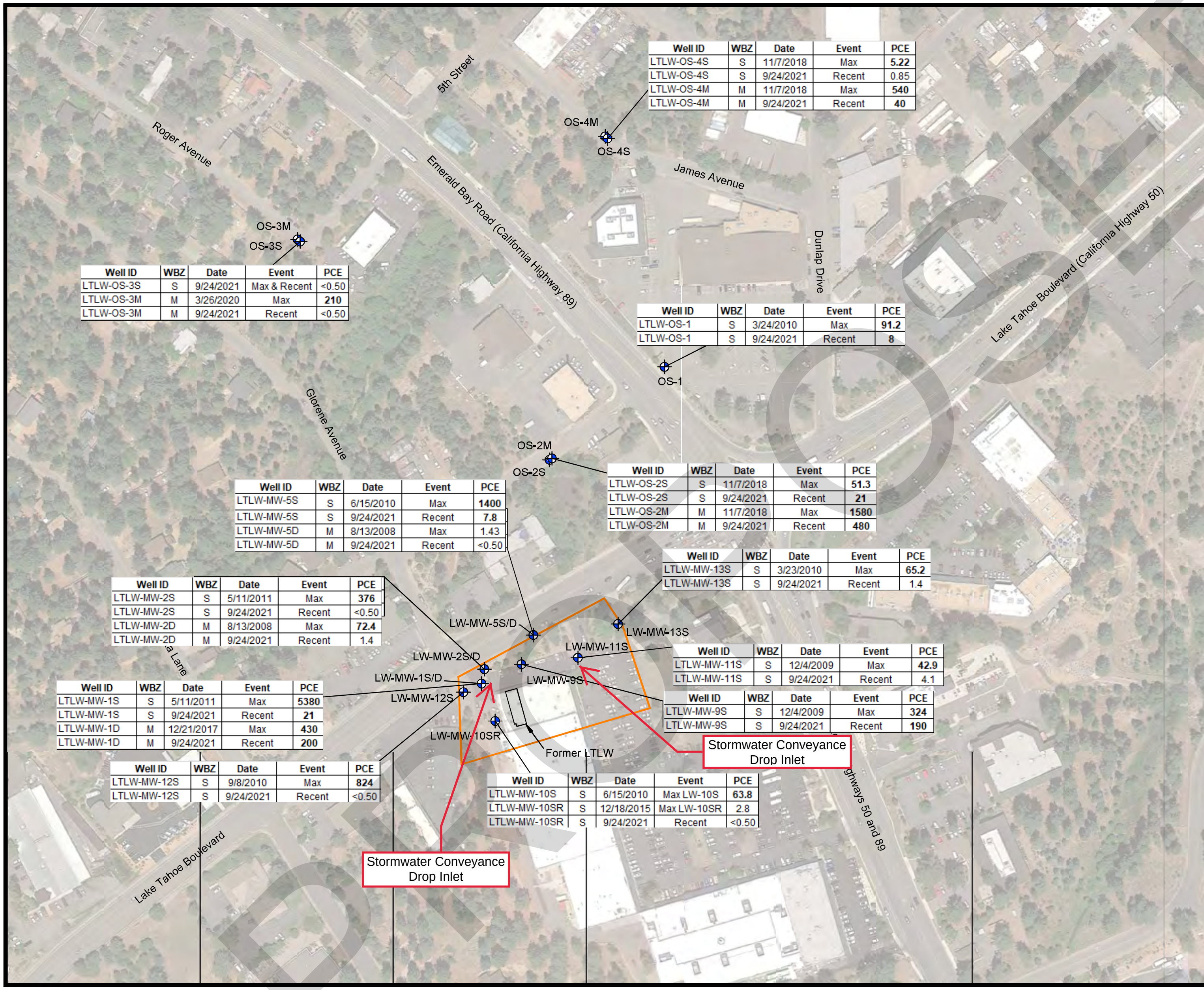
LAKE TAHOE LAUNDRY WORKS
1024 LAKE TAHOE BOULEVARD
SOUTH LAKE TAHOE, CALIFORNIA

WELL AND TRENCHING LOCATIONS PLOT PLAN

FIGURE 3

FIGURE 22: ANNOTATED DISTRIBUTION OF VOCS IN GROUNDWATER- THIRD QUARTER 2021 AND HISTORIC MAXIMUM PCE CONCENTRATIONS DETECTED, THIRD QUARTER 2021 MONITORING REPORT (PES, 2021, ANNOTATED BY LAHONTAN WATER BOARD STAFF)

PES. 15 December 2021. Third Quarter 2021 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.



Well ID	WBZ	Date	Event	PCE
LTLW-OS-4S	S	11/7/2018	Max	**5.22**
LTLW-OS-4S	S	9/24/2021	Recent	0.85
LTLW-OS-4M	M	11/7/2018	Max	**540**
LTLW-OS-4M	M	9/24/2021	Recent	**40**

Well ID	WBZ	Date	Event	PCE
LTLW-OS-3S	S	9/24/2021	Max & Recent	<0.50
LTLW-OS-3M	M	3/26/2020	Max	**210**
LTLW-OS-3M	M	9/24/2021	Recent	<0.50

Well ID	WBZ	Date	Event	PCE
LTLW-OS-1	S	3/24/2010	Max	**91.2**
LTLW-OS-1	S	9/24/2021	Recent	**8**

Well ID	WBZ	Date	Event	PCE
LTLW-OS-2S	S	11/7/2018	Max	**51.3**
LTLW-OS-2S	S	9/24/2021	Recent	**21**
LTLW-OS-2M	M	11/7/2018	Max	**1580**
LTLW-OS-2M	M	9/24/2021	Recent	**480**

Well ID	WBZ	Date	Event	PCE
LTLW-MW-5S	S	6/15/2010	Max	**1400**
LTLW-MW-5S	S	9/24/2021	Recent	**7.8**
LTLW-MW-5D	M	8/13/2008	Max	1.43
LTLW-MW-5D	M	9/24/2021	Recent	<0.50

Well ID	WBZ	Date	Event	PCE
LTLW-MW-13S	S	3/23/2010	Max	**65.2**
LTLW-MW-13S	S	9/24/2021	Recent	1.4

Well ID	WBZ	Date	Event	PCE
LTLW-MW-2S	S	5/11/2011	Max	**376**
LTLW-MW-2S	S	9/24/2021	Recent	<0.50
LTLW-MW-2D	M	8/13/2008	Max	**72.4**
LTLW-MW-2D	M	9/24/2021	Recent	1.4

Well ID	WBZ	Date	Event	PCE
LTLW-MW-11S	S	12/4/2009	Max	**42.9**
LTLW-MW-11S	S	9/24/2021	Recent	4.1

Well ID	WBZ	Date	Event	PCE
LTLW-MW-1S	S	5/11/2011	Max	**5380**
LTLW-MW-1S	S	9/24/2021	Recent	**21**
LTLW-MW-1D	M	12/21/2017	Max	**430**
LTLW-MW-1D	M	9/24/2021	Recent	**200**

Well ID	WBZ	Date	Event	PCE
LTLW-MW-9S	S	12/4/2009	Max	**324**
LTLW-MW-9S	S	9/24/2021	Recent	**190**

Well ID	WBZ	Date	Event	PCE
LTLW-MW-12S	S	9/8/2010	Max	**824**
LTLW-MW-12S	S	9/24/2021	Recent	<0.50

Well ID	WBZ	Date	Event	PCE
LTLW-MW-10S	S	6/15/2010	Max LW-10S	**63.8**
LTLW-MW-10SR	S	12/18/2015	Max LW-10SR	2.8
LTLW-MW-10SR	S	9/24/2021	Recent	<0.50

Explanation

	Lake Tahoe Laundry Works (LTLW) Site
OS-1	Groundwater Monitoring Well
WBZ	Water Bearing Zone (S=Shallow; M=Middle)
PCE	Tetrachloroethene
TCE	Trichloroethene
c12DCE	cis-1,2-Dichloroethene
<0.50	Not detected above the indicated laboratory reporting limit
4.6	Concentrations reported in micrograms per liter (µg/L)
NS	Not Sampled

Lahontan Water Board Annotation Notes

1). Text boxes were added to show recent and maximum concentrations of PCE in groundwater during quarterly monitoring events and approximate location of stormwater conveyance system drop inlets.

2). **Bold** indicates concentration exceeds MCL
MCL PCE = 5 µg/L

General Direction of Grourndwater Flow

N

0 200
SCALE IN FEET

Aerial Photo: June 07, 2018 (Google 2019)
All locations are approximate

PES Environmental, Inc.
Engineering & Environmental Services
AN NV5 COMPANY

Distribution of VOCs in Groundwater - Third Quarter 2021
Quarterly Monitoring Report
Former Lake Tahoe Laundry Works
South Lake Tahoe, California

PLATE
4

JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE
1021.001.04.036	102100104036_21Q3_4-6C	KSF	12/21

FIGURE 23: SITES WITH REPORTED OR SUSPECTED PCE USE, INVESTIGATION SUMMARY REPORT (EKI, 2020A)

EKI. 3 April 2020a. Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

Legend:

- 16 Sites with Reported or Suspected PCE Use
- Water Supply Well
- CPT and GGW Sample (June 2017 to Present)
- GGW Sample (June 2017 to Present)
- Monitoring Well Pair (June 2017 to Present)
- Sanitary Sewer Line with Flow Direction
- Property Boundaries

Abbreviations:

CPT = cone penetration test
GGW = grab groundwater
LTLW = Lake Tahoe Laundry Works
PCE = tetrachloroethene

Notes:

1. All locations are approximate.
2. Basemap source: Google Earth Pro, date of imagery 7 June 2018.
3. California State Plane Coordinate System NAD1983, Zone 2.

N

300 0 300 600
(Scale in Feet)

Sites with Reported or Suspected PCE Use

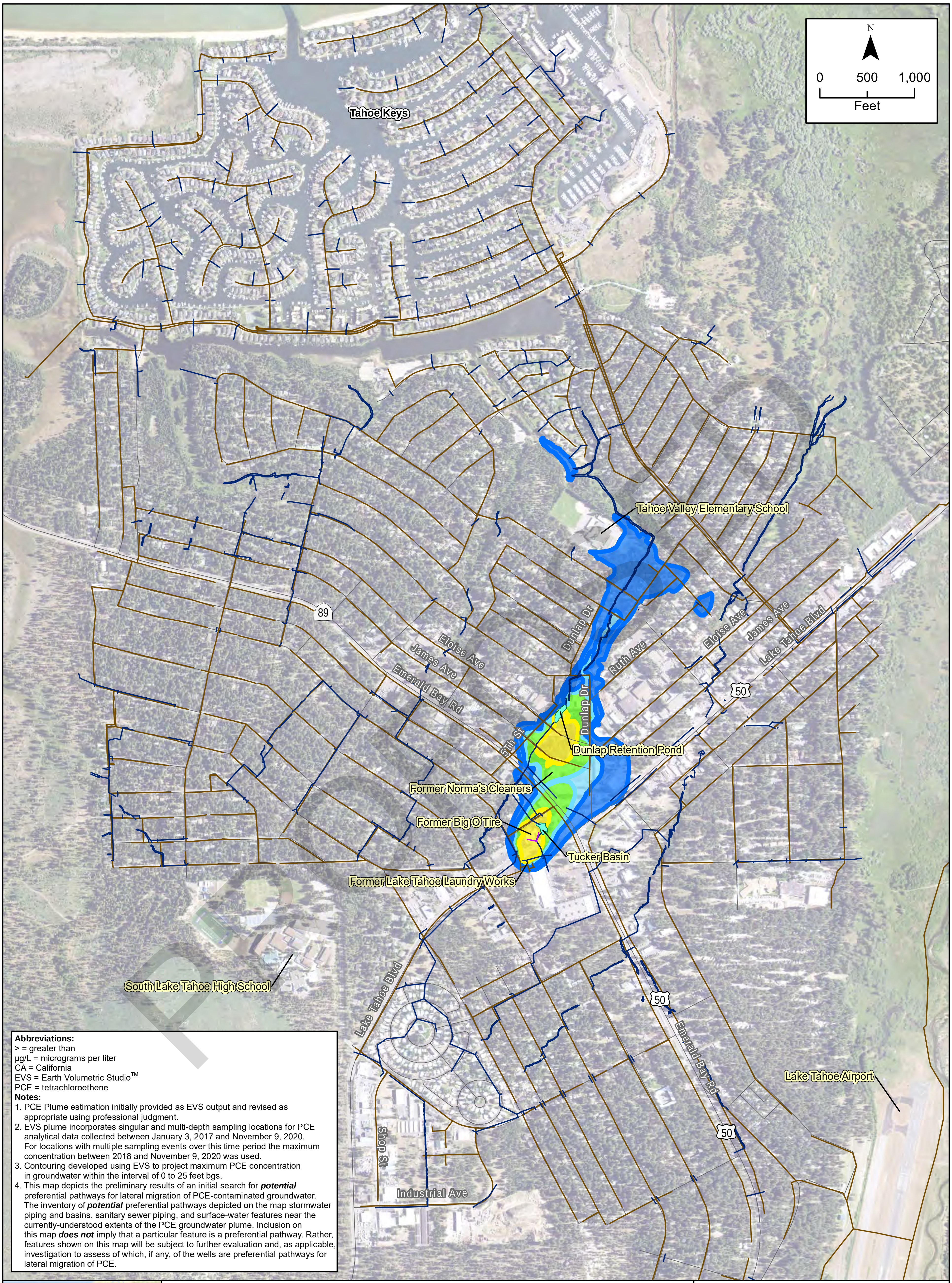
Former Lake Tahoe Laundry Works
South Lake Tahoe, CA
April 2020
EKI A70020.17

eki environment & water

Figure 3-2

FIGURE 24: PREFERENTIAL PATHWAY INVENTORY, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH “Y” PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022, ANNOTATED BY LAHONTAN WATER BOARD STAFF)

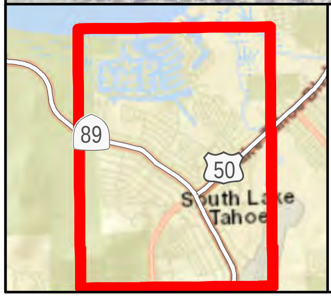
AECOM. Regional Plume Characterization Summary Report: South “Y” PCE Plume 2019-2020 Field Season (June 10, 2022).



\\na.aecomnet.com\LFS\AMER\Sacramento-USSCR2\DCS\GIS\GIS\Projects\60601911_South_Lake_Tahoe_PCE\02_Maps\02_Report_Maps\Regional_Plume_Characterization_Summary_Report\Fig14_Preferential_Pathway_Inventory.mxd 6/8/2022 mike.snyder SAC

Abbreviations:
> = greater than
μg/L = micrograms per liter
CA = California
EVS = Earth Volumetric Studio™
PCE = tetrachloroethene

Notes:
1. PCE Plume estimation initially provided as EVS output and revised as appropriate using professional judgment.
2. EVS plume incorporates singular and multi-depth sampling locations for PCE analytical data collected between January 3, 2017 and November 9, 2020. For locations with multiple sampling events over this time period the maximum concentration between 2018 and November 9, 2020 was used.
3. Contouring developed using EVS to project maximum PCE concentration in groundwater within the interval of 0 to 25 feet bgs.
4. This map depicts the preliminary results of an initial search for ***potential*** preferential pathways for lateral migration of PCE-contaminated groundwater. The inventory of ***potential*** preferential pathways depicted on the map stormwater piping and basins, sanitary sewer piping, and surface-water features near the currently-understood extents of the PCE groundwater plume. Inclusion on this map ***does not*** imply that a particular feature is a preferential pathway. Rather, features shown on this map will be subject to further evaluation and, as applicable, investigation to assess of which, if any, of the wells are preferential pathways for lateral migration of PCE.



- Stormwater Line
- Sewer Pipeline
- Historical Subsurface Stormwater System
- Basins

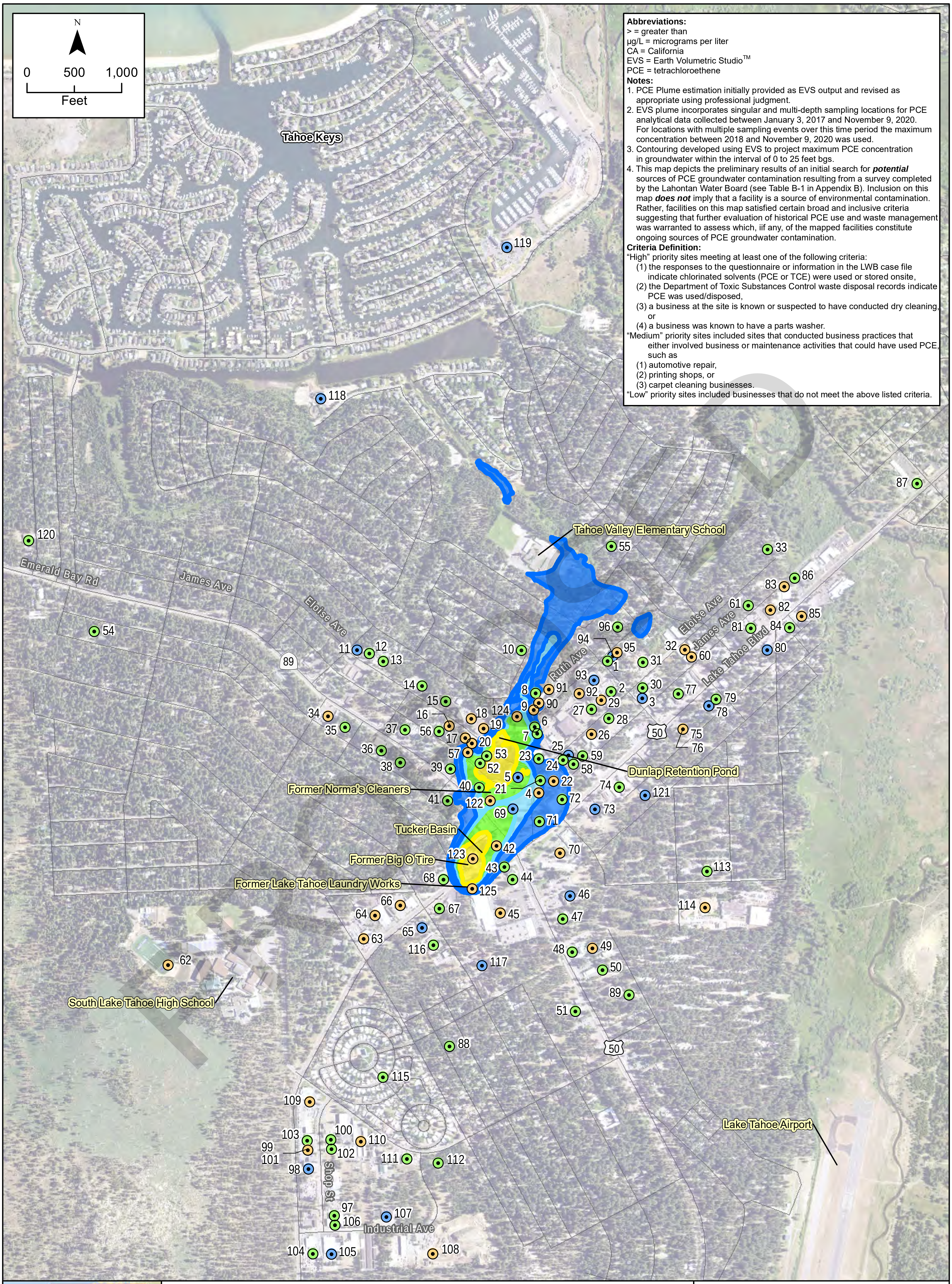
0 to 25-foot Depth bgs
PCE Concentration Contours
- 0.64 μg/L – 2.8 μg/L Groundwater Vapor Intrusion Screening Level (Residential)
- 2.8 μg/L – 5.0 μg/L Groundwater Vapor Intrusion Screening Level (Commercial/Industrial)
- 5.0 μg/L – 25 μg/L
- > 25 μg/L

Figure 14
Preferential Pathway Inventory

South "Y" PCE Plume
South Lake Tahoe, CA

FIGURE 25: INVENTORY OF POTENTIAL SOURCE AREAS, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH “Y” PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)

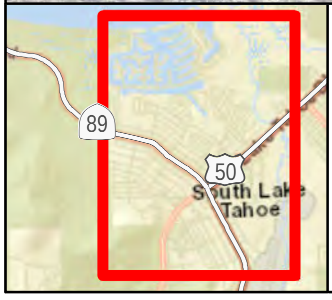
AECOM. Regional Plume Characterization Summary Report: South “Y” PCE Plume 2019-2020 Field Season (June 10, 2022).



Abbreviations:
> = greater than
µg/L = micrograms per liter
CA = California
EVS = Earth Volumetric Studio™
PCE = tetrachloroethene

Notes:
1. PCE Plume estimation initially provided as EVS output and revised as appropriate using professional judgment.
2. EVS plume incorporates singular and multi-depth sampling locations for PCE analytical data collected between January 3, 2017 and November 9, 2020. For locations with multiple sampling events over this time period the maximum concentration between 2018 and November 9, 2020 was used.
3. Contouring developed using EVS to project maximum PCE concentration in groundwater within the interval of 0 to 25 feet bgs.
4. This map depicts the preliminary results of an initial search for *potential* sources of PCE groundwater contamination resulting from a survey completed by the Lahontan Water Board (see Table B-1 in Appendix B). Inclusion on this map ***does not*** imply that a facility is a source of environmental contamination. Rather, facilities on this map satisfied certain broad and inclusive criteria suggesting that further evaluation of historical PCE use and waste management was warranted to assess which, if any, of the mapped facilities constitute ongoing sources of PCE groundwater contamination.

Criteria Definition:
“High” priority sites meeting at least one of the following criteria:
(1) the responses to the questionnaire or information in the LWB case file indicate chlorinated solvents (PCE or TCE) were used or stored onsite,
(2) the Department of Toxic Substances Control waste disposal records indicate PCE was used/disposed,
(3) a business at the site is known or suspected to have conducted dry cleaning, or
(4) a business was known to have a parts washer.
“Medium” priority sites included sites that conducted business practices that either involved business or maintenance activities that could have used PCE, such as
(1) automotive repair,
(2) printing shops, or
(3) carpet cleaning businesses.
“Low” priority sites included businesses that do not meet the above listed criteria.



Properties Evaluated in Source Area Inventory
- Low Priority
- Medium Priority
- High Priority

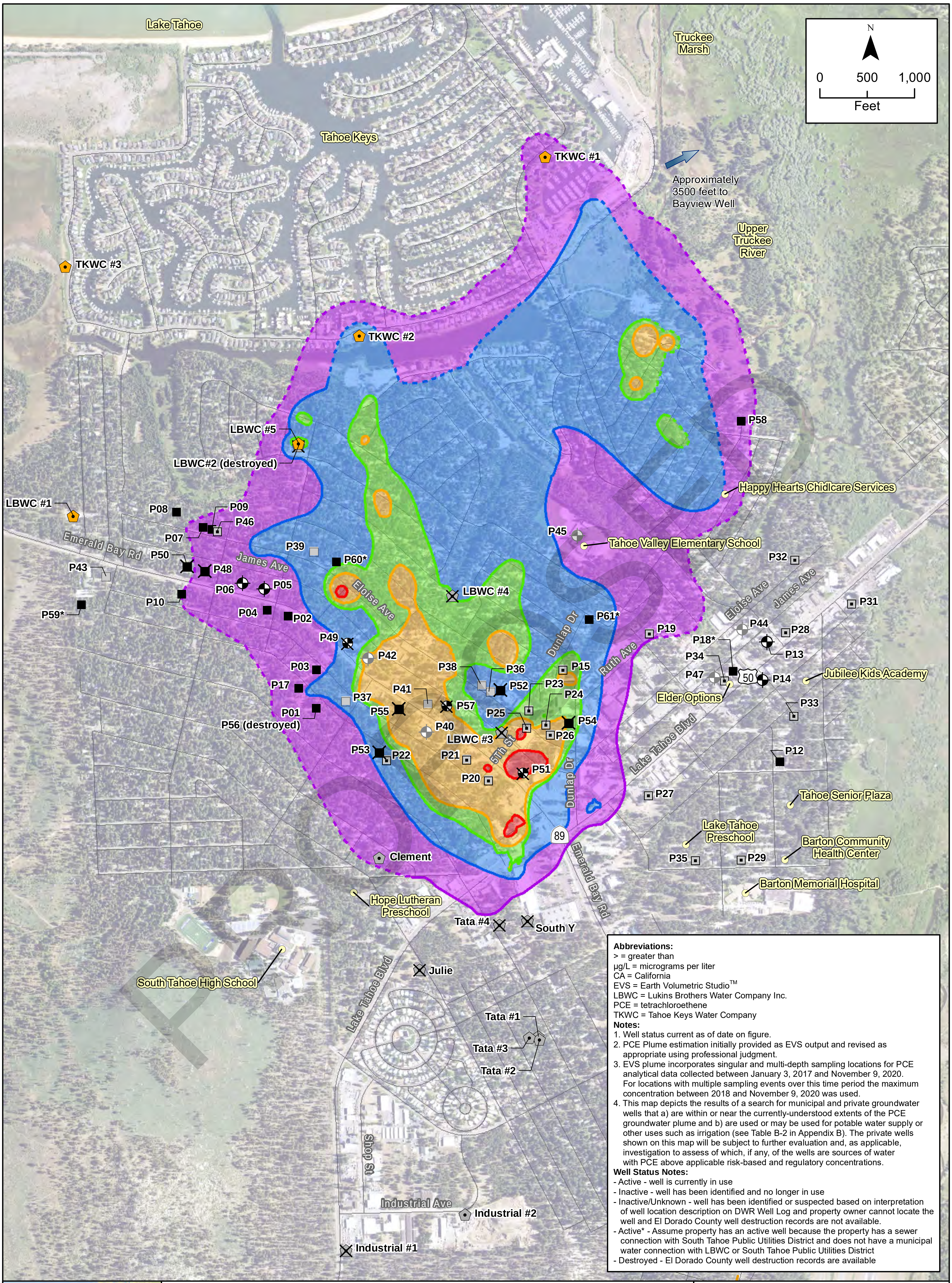
0 to 25-foot Depth bgs PCE Concentration Contours
- 0.64 µg/L – 2.8 µg/L Groundwater Vapor Intrusion Screening Level (Residential)
- 2.8 µg/L – 5.0 µg/L Groundwater Vapor Intrusion Screening Level (Commercial/Industrial)
- 5.0 µg/L – 25 µg/L
- > 25 µg/L

Figure 13
Inventory of Potential Source Areas

South "Y" PCE Plume
South Lake Tahoe, CA

FIGURE 26: RECEPTOR INVENTORY, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH “Y” PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)

AECOM. Regional Plume Characterization Summary Report: South “Y” PCE Plume 2019-2020 Field Season (June 10, 2022).

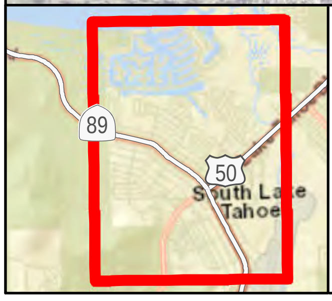


Abbreviations:
> = greater than
µg/L = micrograms per liter
CA = California
EVS = Earth Volumetric Studio™
LBWC = Lukins Brothers Water Company Inc.
PCE = tetrachloroethene
TKWC = Tahoe Keys Water Company

Notes:

1. Well status current as of date on figure.
2. PCE Plume estimation initially provided as EVS output and revised as appropriate using professional judgment.
3. EVS plume incorporates singular and multi-depth sampling locations for PCE analytical data collected between January 3, 2017 and November 9, 2020. For locations with multiple sampling events over this time period the maximum concentration between 2018 and November 9, 2020 was used.
4. This map depicts the results of a search for municipal and private groundwater wells that a) are within or near the currently-understood extents of the PCE groundwater plume and b) are used or may be used for potable water supply or other uses such as irrigation (see Table B-2 in Appendix B). The private wells shown on this map will be subject to further evaluation and, as applicable, investigation to assess of which, if any, of the wells are sources of water with PCE above applicable risk-based and regulatory concentrations.

Well Status Notes:
- Active - well is currently in use
- Inactive - well has been identified and no longer in use
- Inactive/Unknown - well has been identified or suspected based on interpretation of well location description on DWR Well Log and property owner cannot locate the well and El Dorado County well destruction records are not available.
- Active* - Assume property has an active well because the property has a sewer connection with South Tahoe Public Utilities District and does not have a municipal water connection with LBWC or South Tahoe Public Utilities District
- Destroyed - El Dorado County well destruction records are available



Active Municipal Well
Destroyed Municipal Well
Inactive Municipal Well
Active Private Well
*(for locations with * see note)*
Destroyed Private Well
Inactive Private Well
Inactive/Unknown Private Well
Active Small Community Well
Destroyed Small Community Well
Inactive Small Community Well
Potential Sensitive Receptor

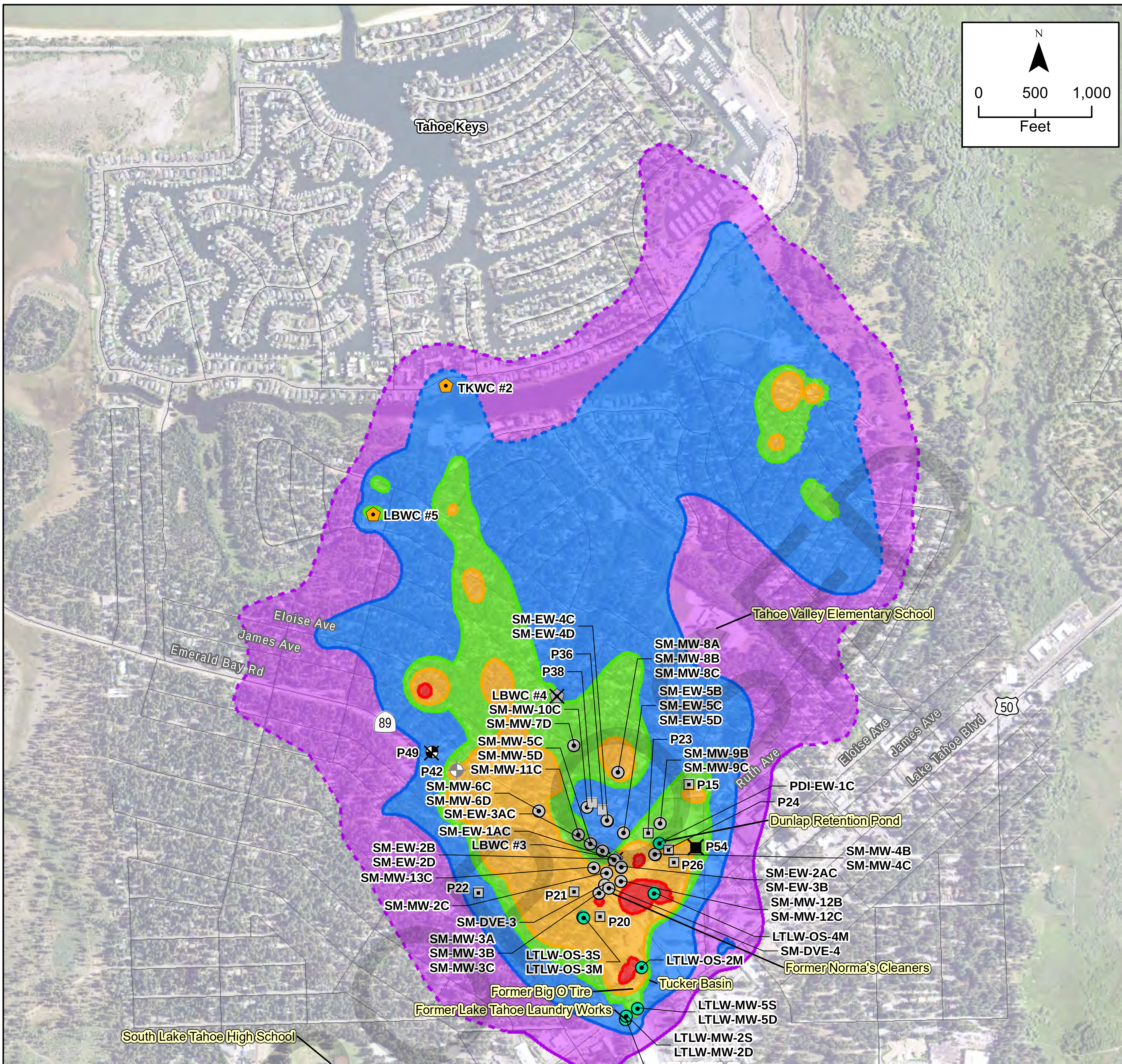
PCE Concentration Contours
(dashed where inferred)
0.5 - 5 µg/L
5 - 50 µg/L
50 - 100 µg/L
100 - 500 µg/L
>500 µg/L

Figure 15
Receptor Inventory

South "Y" PCE Plume
South Lake Tahoe, CA

FIGURE 27: VERTICAL CONDUIT INVENTORY WITHIN THE ESTIMATED PLUME, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH “Y” PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)

AECOM. Regional Plume Characterization Summary Report: South “Y” PCE Plume 2019-2020 Field Season (June 10, 2022).



Abbreviations:
> = greater than
µg/L = micrograms per liter
CA = California
EVS = Earth Volumetric Studio™
LBWC = Lukins Brothers Water Company Inc.
PCE = tetrachloroethene
TKWC = Tahoe Keys Water Company

Notes:
1. Well status current as of date on figure.
2. PCE Plume estimation initially provided as EVS output and revised as appropriate using professional judgment.
3. EVS plume incorporates singular and multi-depth sampling locations for PCE analytical data collected between January 3, 2017 and November 9, 2020. For locations with multiple sampling events over this time period the maximum concentration between 2018 and November 9, 2020 was used.
4. This map depicts the preliminary results of an initial search for ***potential*** preferential pathways for vertical migration of PCE-contaminated groundwater (vertical conduits) within the estimated PCE plume extent. The inventory of ***potential*** vertical conduits depicted on the map includes private, municipal, and monitoring wells, within or near the currently-understood extents of the PCE groundwater plume, identified through a search of public records (see Table B-3 in Appendix B). Inclusion on this map ***does not*** imply that a well is a vertical conduit. Rather, wells shown on this map will be subject to further evaluation and, as applicable, investigation to assess of which, if any, of the wells are conduits for vertical migration of PCE.

Well Status Notes:
- Active - well is currently in use
- Inactive - well has been identified and no longer in use
- Inactive/Unknown - well has been identified or suspected based on interpretation of well location description on DWR Well Log and property owner cannot locate the well and El Dorado County well destruction records are not available.
- Active* - Assume property has an active well because the property has a sewer connection with South Tahoe Public Utilities District and does not have a municipal water connection with LBWC or South Tahoe Public Utilities District
- Destroyed - El Dorado County well destruction records are available

Active Monitoring/Extraction/Observation Well
Inactive Monitoring/Extraction/Observation Well
Active Municipal Well
Municipal Well (Destroyed)
Private Well (Destroyed)
Inactive Private Well
Inactive/Unknown Private Well
Small Community Well (Destroyed)
Inactive Small Community Well

PCE Concentration Contours
(dashed where inferred)
0.5 - 5 µg/L
5 - 50 µg/L
50 - 100 µg/L
100 - 500 µg/L
>500 µg/L

Figure 16
Vertical Conduit Inventory within the Estimated Plume

South "Y" PCE Plume
South Lake Tahoe, CA

FIGURE 28: ANALYTICAL RESULTS FROM SHALLOW WATER-BEARING ZONE, ADDITIONAL SITE INVESTIGATION RESULTS (MAY 27, 2005)

PES. 27 May 2005. Additional Site Investigation Results, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

SB-4	9/14/04
Depth	22-27 ft-bgs
PCE	1.4/1.3*
TCE	<0.50/<0.50*
cis-1,2-DCE	<0.50/<0.50*
trans-1,2-DCE	<0.50/<0.50*

GW-1	10/6/03
Depth	16-22 ft-bgs
PCE	2.4
TCE	<0.50
cis-1,2-DCE	0.55
trans-1,2-DCE	<0.50
Toluene	0.73

SB-5	9/14/04
Depth	22-26 ft-bgs
PCE	1.5
TCE	1.1
cis-1,2-DCE	1.6
trans-1,2-DCE	<0.50

GW-6	9/15/04
Depth	16-20 ft-bgs
PCE	<0.50
TCE	<0.50
cis-1,2-DCE	<0.50
trans-1,2-DCE	<0.50

GW-2	10/6/03
Depth	20-24 ft-bgs
PCE	200
TCE	11
cis-1,2-DCE	8.6
trans-1,2-DCE	<1.0
Toluene	<1.0

SB-1	9/15/04
Depth	23-27 ft-bgs
PCE	8.7
TCE	<0.50
cis-1,2-DCE	<0.50
trans-1,2-DCE	<0.50

GW-5	10/6/03
Depth	20-24 ft-bgs
PCE	[illegible]
TCE	1.2
cis-1,2-DCE	<0.50
trans-1,2-DCE	<0.50
Toluene	<0.50

SB-3	9/15/04
Depth	23-27 ft-bgs
PCE	6.3
TCE	<0.50
cis-1,2-DCE	<0.50
trans-1,2-DCE	<0.50

GW-7	9/15/04
Depth	14-18 ft-bgs
PCE	21
TCE	1.0
cis-1,2-DCE	1.6
trans-1,2-DCE	<0.50

GW-3	10/5/03
Depth	20-24 ft-bgs
PCE	690
TCE	48
cis-1,2-DCE	150
trans-1,2-DCE	2.1
Toluene	<2.5

GW-8	9/14/04
Depth	22-26 ft-bgs
PCE	240
TCE	32
cis-1,2-DCE	74
trans-1,2-DCE	1.3

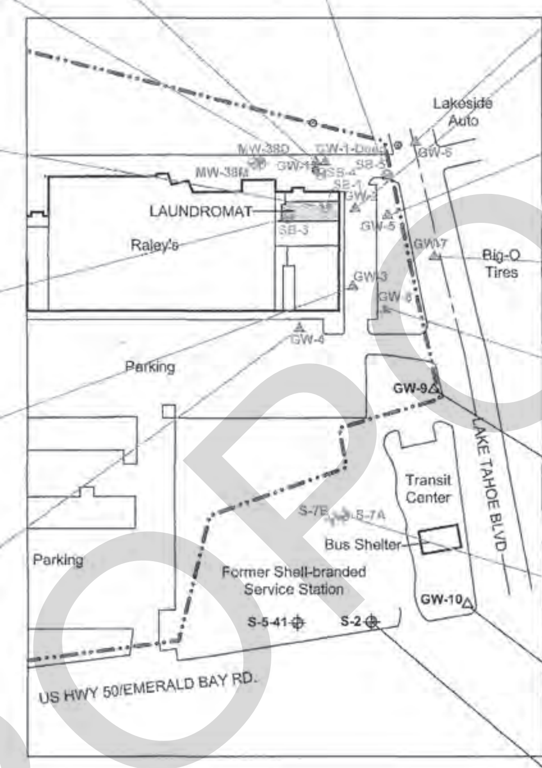
GW-9	4/26/05
Depth	16-20 ft-bgs
PCE	**1,000**
TCE	**42**
cis-1,2-DCE	**40**

GW-4	10/5/03
Depth	20-24 ft-bgs
PCE	<0.50
TCE	<0.50
cis-1,2-DCE	<0.50
trans-1,2-DCE	<0.50
Toluene	<0.50

S-7A	9/11/04
PCE	<0.50
TCE	<0.50
cis-1,2-DCE	<0.50
trans-1,2-DCE	<0.50

GW-10	4/26/05
Depth	16-20 ft-bgs
PCE	**20**
TCE	**1.6**
cis-1,2-DCE	**2.1**

S-2	4/21/05
VOCs	ND



Explanation

Approximate Property Boundary

GW-9 △ Approximate Groundwater Sampling Location (April 2005)

GW-1 △ Approximate Previous Groundwater Sampling Location (October 2003, September 2004)

SB-1 Approximate Previous Soil and Groundwater Sampling Location (September 2004)

S-2 Groundwater Monitoring Well sampled April 2005 (Former Shell Service Station)

S-7B Previously Sampled Groundwater Monitoring Well (USA Gasoline and Former Shell Service Stations, sampled September 2004)

Sanitary Sewer Manhole

ft-bgs = feet below ground surface

PCE = Tetrachloroethylene
TCE = Trichloroethylene
cis-1,2-DCE = cis-1,2-Dichloroethylene
trans-1,2-DCE = trans-1,2-Dichloroethylene
VOCs = Volatile Organic Compounds

< = Not detected at or above the specified laboratory reporting limit
ND = Not detected above the respective laboratory reporting limits

* Duplicate Result

Concentrations presented in micrograms per liter

N

0 150
APPROXIMATE SCALE IN FEET

PES Environmental, Inc.
Engineering & Environmental Services

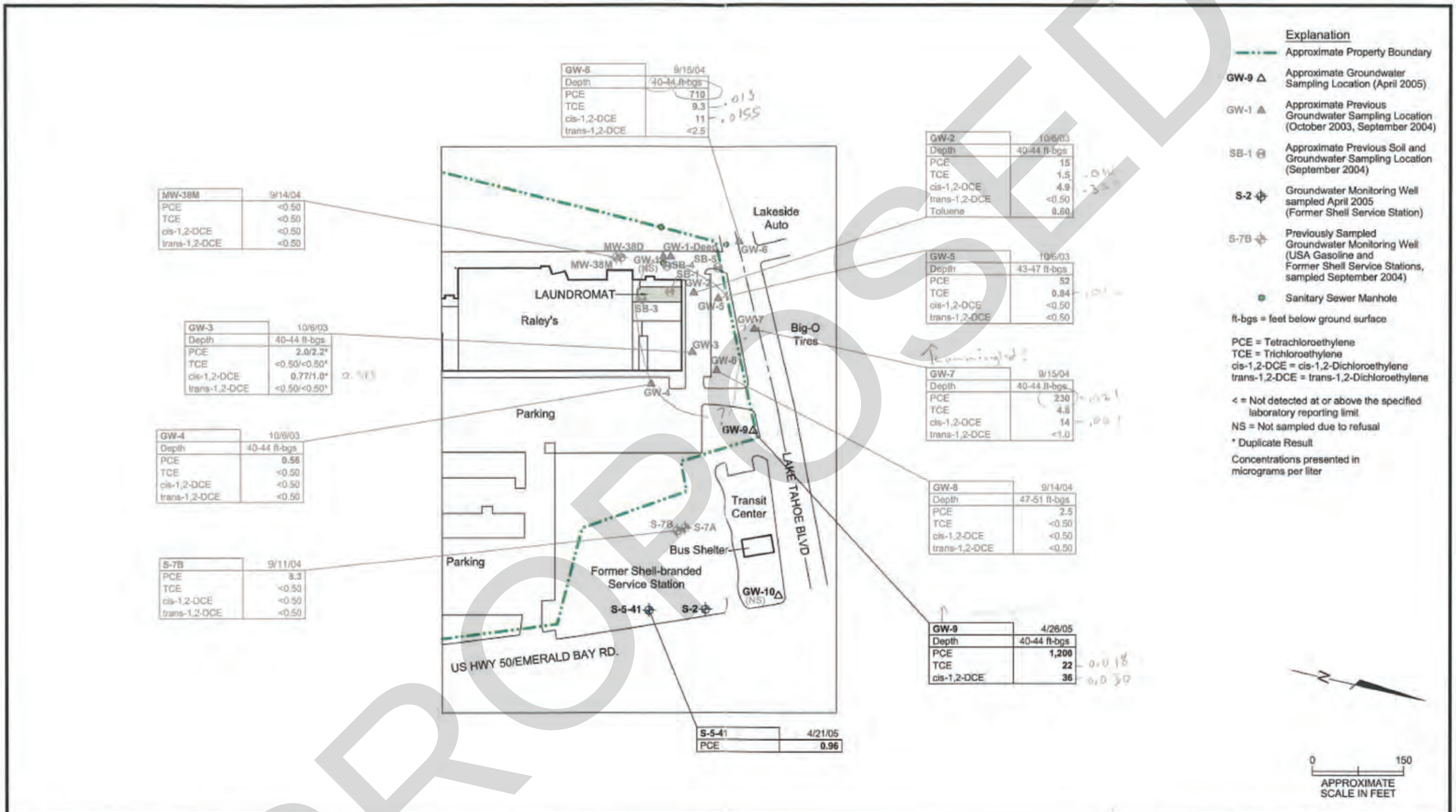
Analytical Results from Shallow Water-Bearing Zone
Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard
South Lake Tahoe, California

PLATE
5

1021.001.01.003	1021001_0505.dwg	FAB	5/05
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

FIGURE 29: ANALYTICAL RESULTS FROM MIDDLE WATER-BEARING ZONE, ADDITIONAL SITE INVESTIGATION RESULTS (PES, 2005)

PES. 27 May 2005. Additional Site Investigation Results, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.



PES Environmental, Inc.
Engineering & Environmental Services

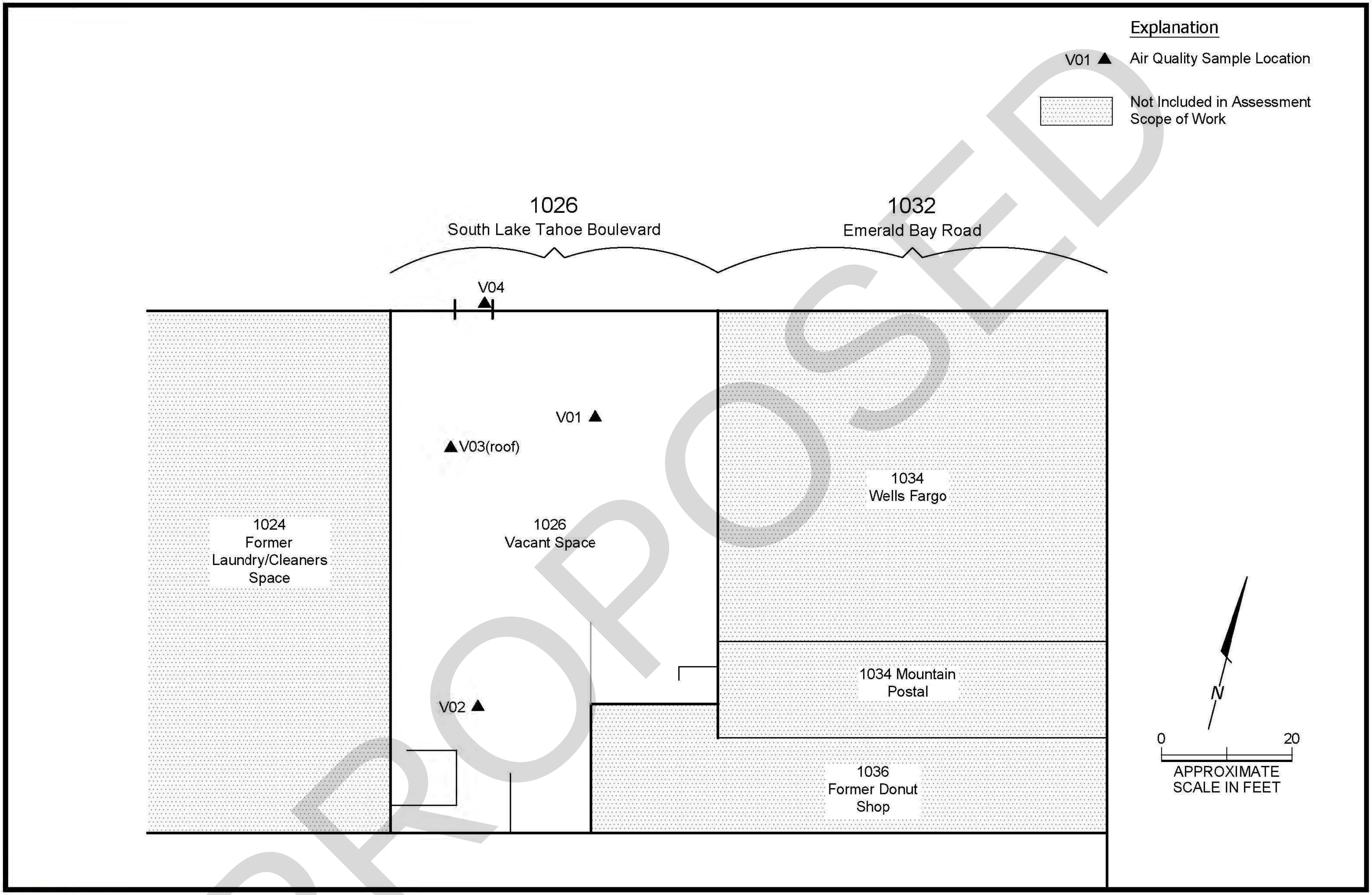
Analytical Results from Middle Water-Bearing Zone
Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard
South Lake Tahoe, California

PLATE 6

1021.001.01.003	1021001_0505.dwg	FAB	5/05
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

FIGURE 30: SAMPLE LOCATION MAP, INDOOR AIR QUALITY ASSESSMENT (PES, 2015)

PES. 17 September 2015. Indoor Air Quality Assessment, South Y Shopping Center, 1026 Lake Tahoe Boulevard, South Lake Tahoe, California.



PES Environmental, Inc.
Engineering & Environmental Services

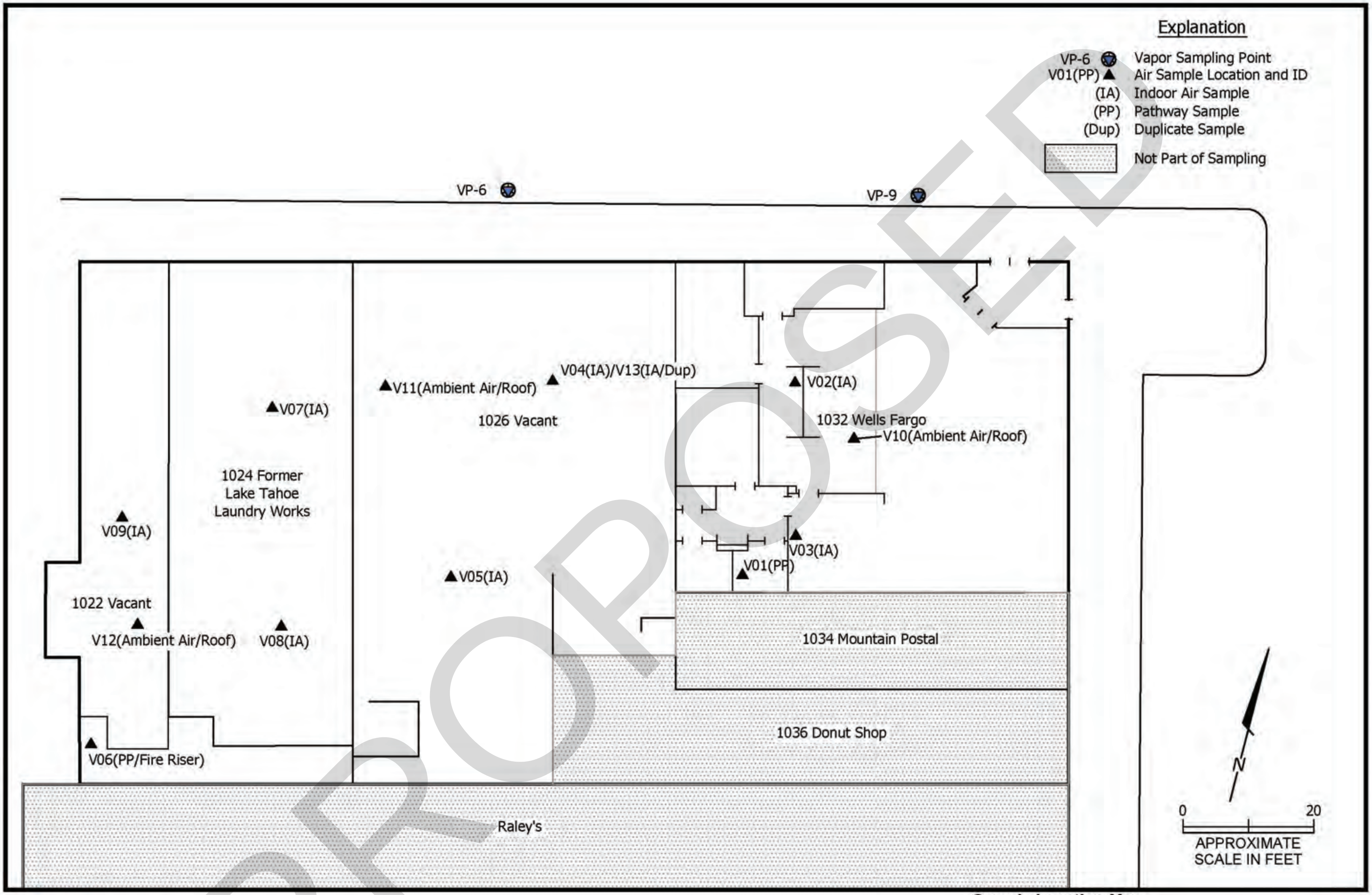
Sample Location Map
South Y Shopping Center
1026 South Lake Tahoe Boulevard
South Lake Tahoe, California

PLATE
2

JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE
1021.001.03.003	102100103003_IAQ_1-2	KM	9/15

FIGURE 31: SAMPLE LOCATION MAP, INDOOR AIR SAMPLING REPORT (PES, 2016A)

PES. 14 January 2016a. Indoor Air Sampling Report, Former Lake Tahoe Laundry Works, 1022,1024, and 1026 Lake Tahoe Boulevard and 1032 Emerald Bay Road, South Lake Tahoe, California, RWQCB SLIC Case No. T6S043.



PES Environmental, Inc.
Engineering & Environmental Services

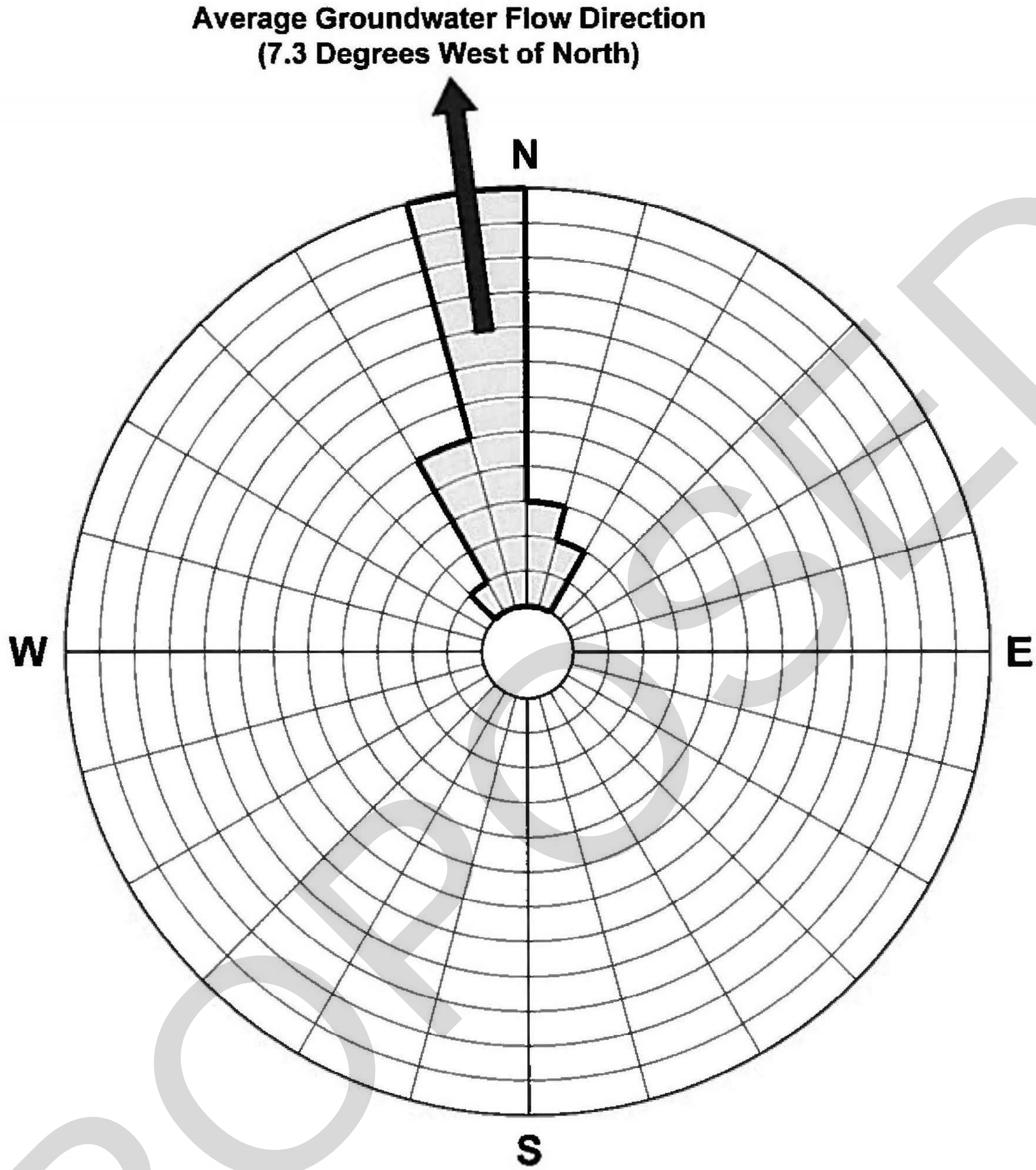
Sample Location Map
Indoor Air Sampling
1022, 1024, and 1026 Lake Tahoe Boulevard
and 1032 Emerald Bay Road
South Lake Tahoe, California

PLATE
3

JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE
1021.001.01.008	102100101008_IAQA_1-3	KSF	1/16

FIGURE 32, ROSE DIAGRAM LTLW GROUNDWATER FLOW DIRECTIONS, CORRESPONDENCE FROM FOX CAPITAL MANAGEMENT CORPORATION TO CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, LAHONTAN BOARD RE: RESPONSE TO REVISED CLEANUP AND ABATEMENT ORDER FOR FORMER LAKE TAHOE LAUNDRY WORKS (HOGAN LOVELLS, 2016)

Hogan Lovells. 8 September 2016. Correspondence from Fox Capital Management Corporation to California Regional Water Quality Control Board, Lahontan Board re: Response to Revised Cleanup and Abatement Order for Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.



Notes:

1. Based on 23 LTLW Quarterly Sampling Events from 2009 to 2015.

Erler & Kalinowski, Inc.

Rose Diagram
LTLW Groundwater Flow Direction

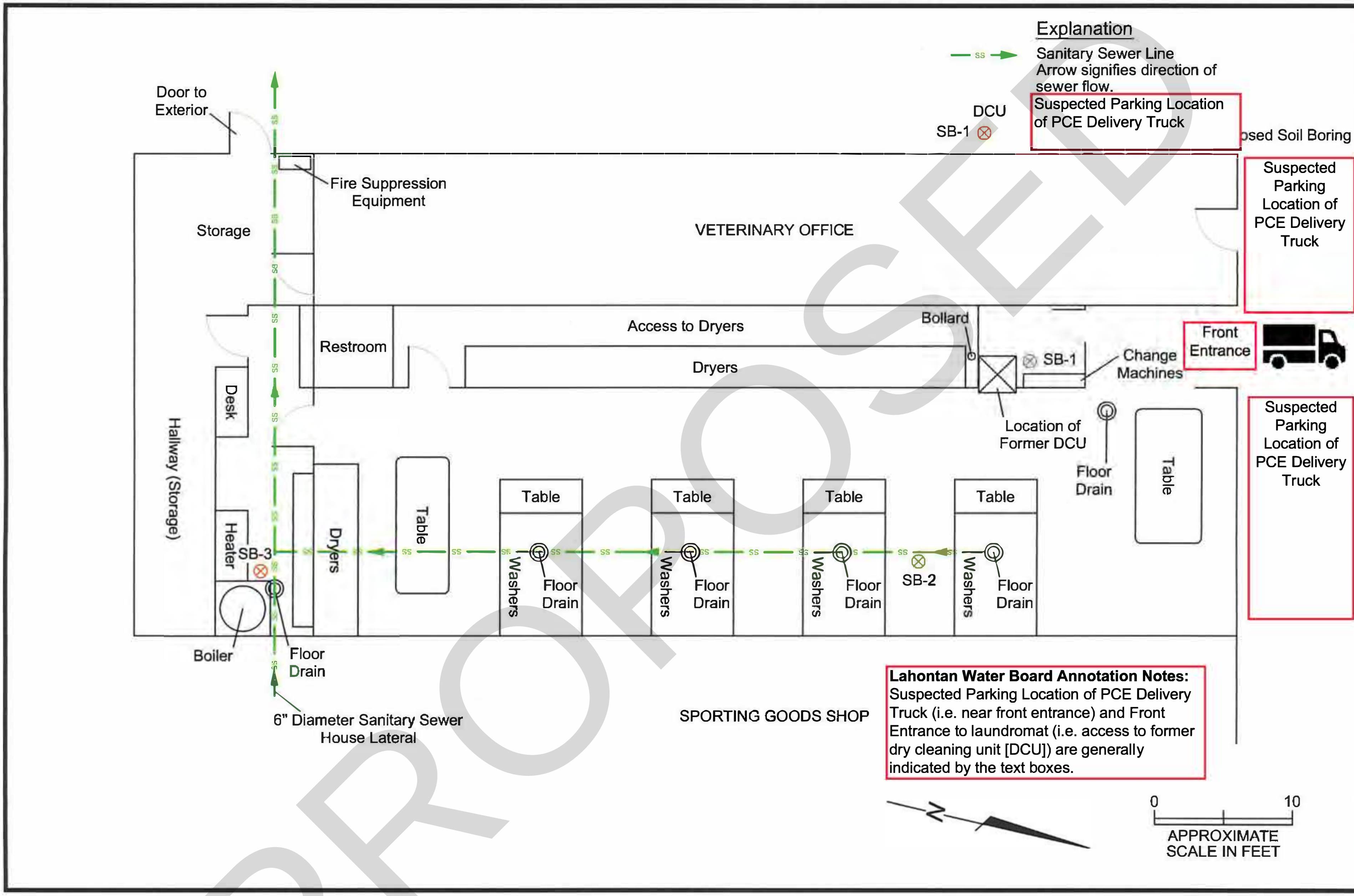
Former Lake Tahoe Laundry Works
South Lake Tahoe, CA

September 2016
EKI A70020.01

Figure 7

FIGURE 33: ANNOTATED INTERIOR BORING LOCATIONS, SUPPLEMENTAL SITE INVESTIGATION RESULTS (PES, 2004, ANNOTATED BY LAHONTAN WATER BOARD STAFF)

PES. 13 October 2004. Supplemental Site Investigation Results, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.



PES Environmental, Inc.
Engineering & Environmental Services

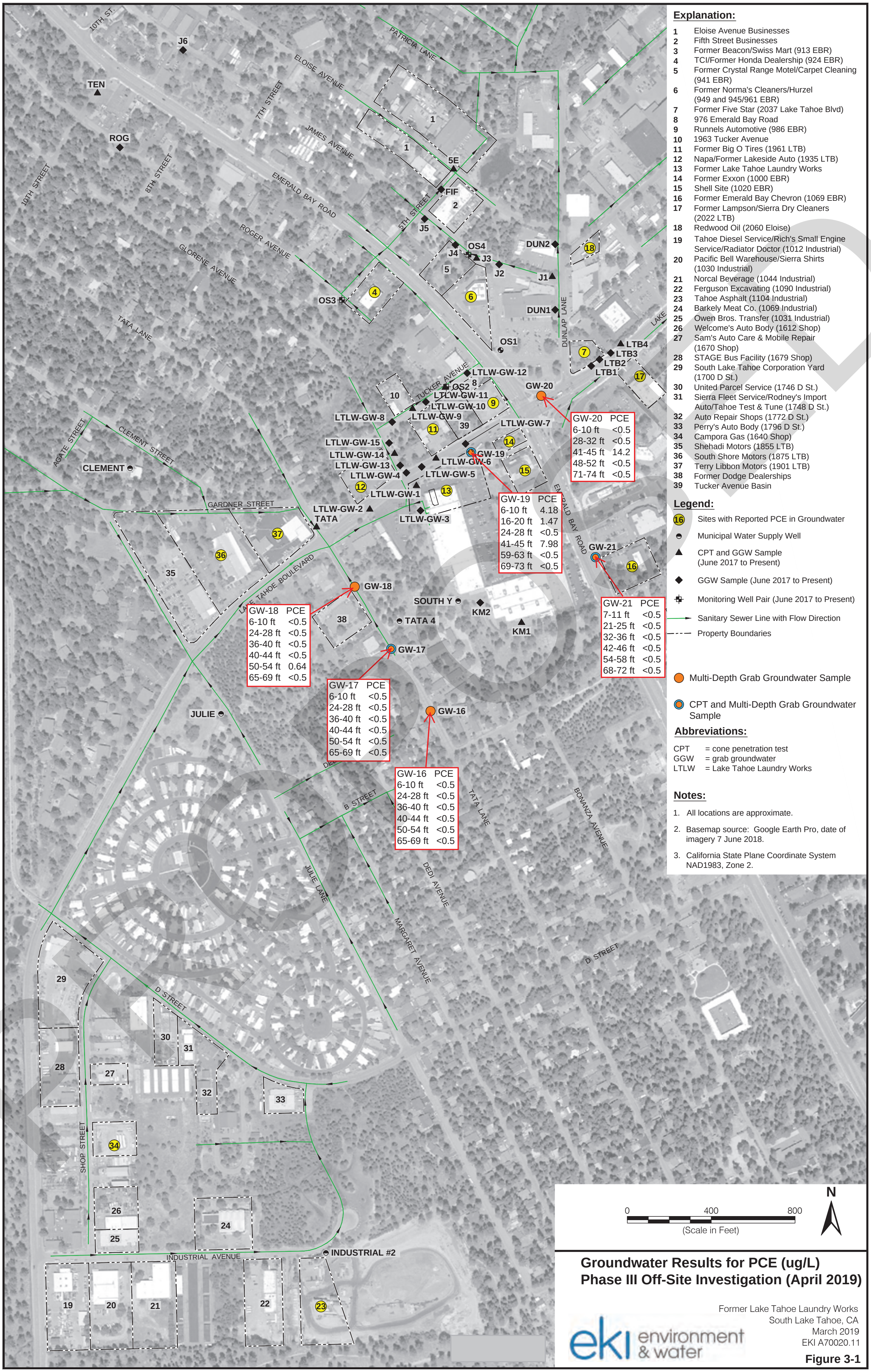
Proposed Interior Boring Locations
Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard
South Lake Tahoe, California

PLATE
3

349.004.02.002	34900402002_WP-0604	KSF	6/04
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

FIGURE 34: GROUNDWATER RESULTS FOR PCE PHASE III OFF-SITE INVESTIGATION (APRIL 2019), PLANNING AND PROGRESS REPORT NO. 21 (EKI, 2019C)

EKI. 7 May 2019c. Planning and Progress Report No. 21 Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.



Groundwater Results for PCE (ug/L)
Phase III Off-Site Investigation (April 2019)

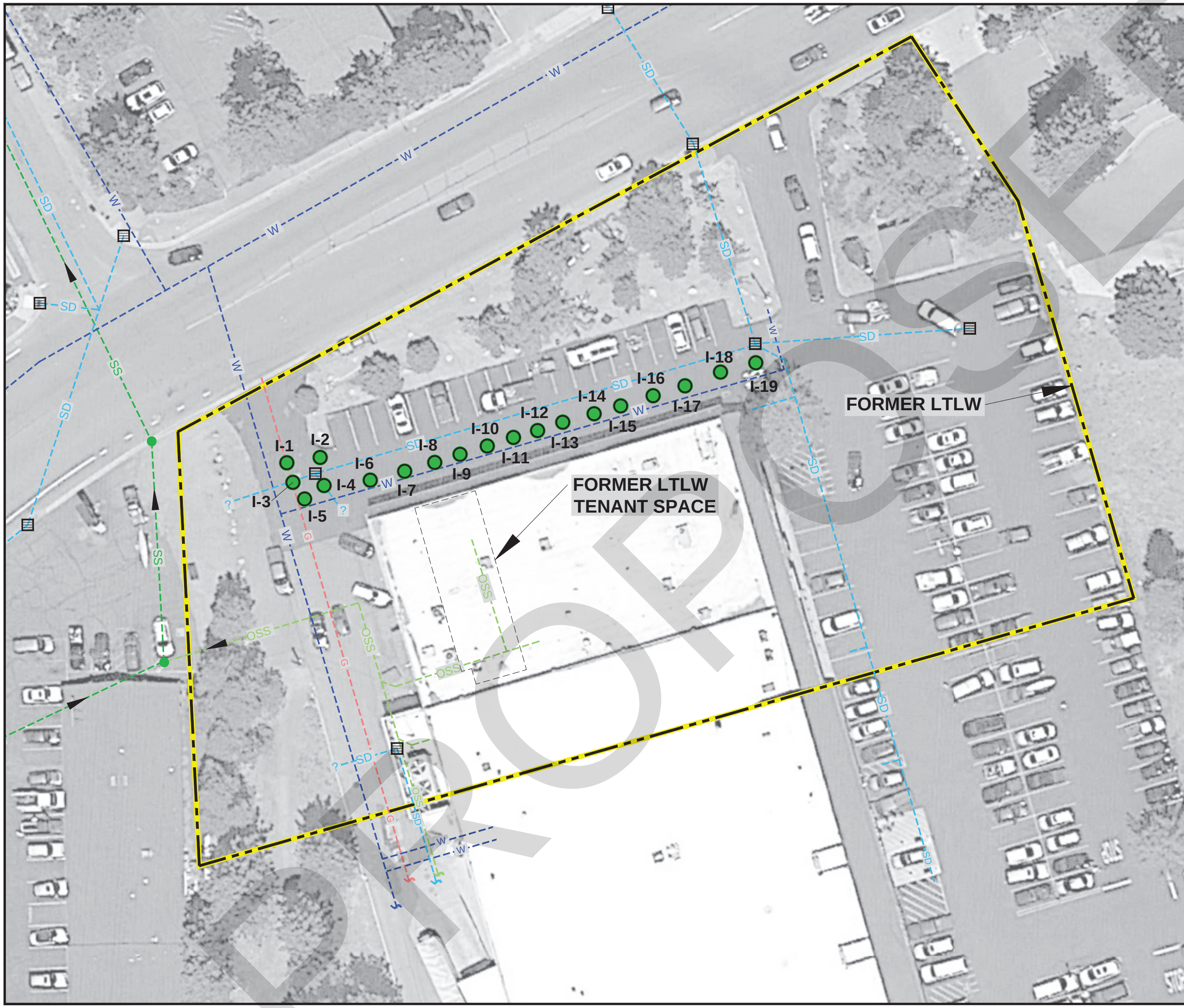
Former Lake Tahoe Laundry Works
South Lake Tahoe, CA
March 2019
EKI A70020.11

eki environment & water

Figure 3-1

FIGURE 35: IN-SITU CHEMICAL OXIDATION INJECTION LOCATIONS, INVESTIGATION SUMMARY REPORT (EKI, 2020A)

EKI. 3 April 2020a. Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.



Legend:

- Approximate Property Boundaries
- SS — STPUD Sewer Main and Manhole
- OSS — On-Site Sewer Line
- W — Water Line and Fire Hydrant
- G — Natural Gas Line
- SD — Subsurface Stormwater System
- I-1 Approximate ISCO Injection Location (See Note 3)
- Storm Drain Drop Inlet

Abbreviations:

ISCO = In-Situ Chemical Oxidation
LTLW = Lake Tahoe Laundry Works
STPUD = South Tahoe Public Utility District

Notes:

1. All locations are approximate.
2. Basemap source: Google Earth Pro, date of imagery 7 June 2018.
3. ISCO injection locations and labels from "*E2C Work Plan to Perform Limited In-Situ Chemical Oxidation Pilot Test*", 31 July 2019.

N

0 40 80
(Scale in Feet)

In-Situ Chemical Oxidation Injection Locations

Former Lake Tahoe Laundry Works
South Lake Tahoe, CA
April 2020
EKI A70020.17

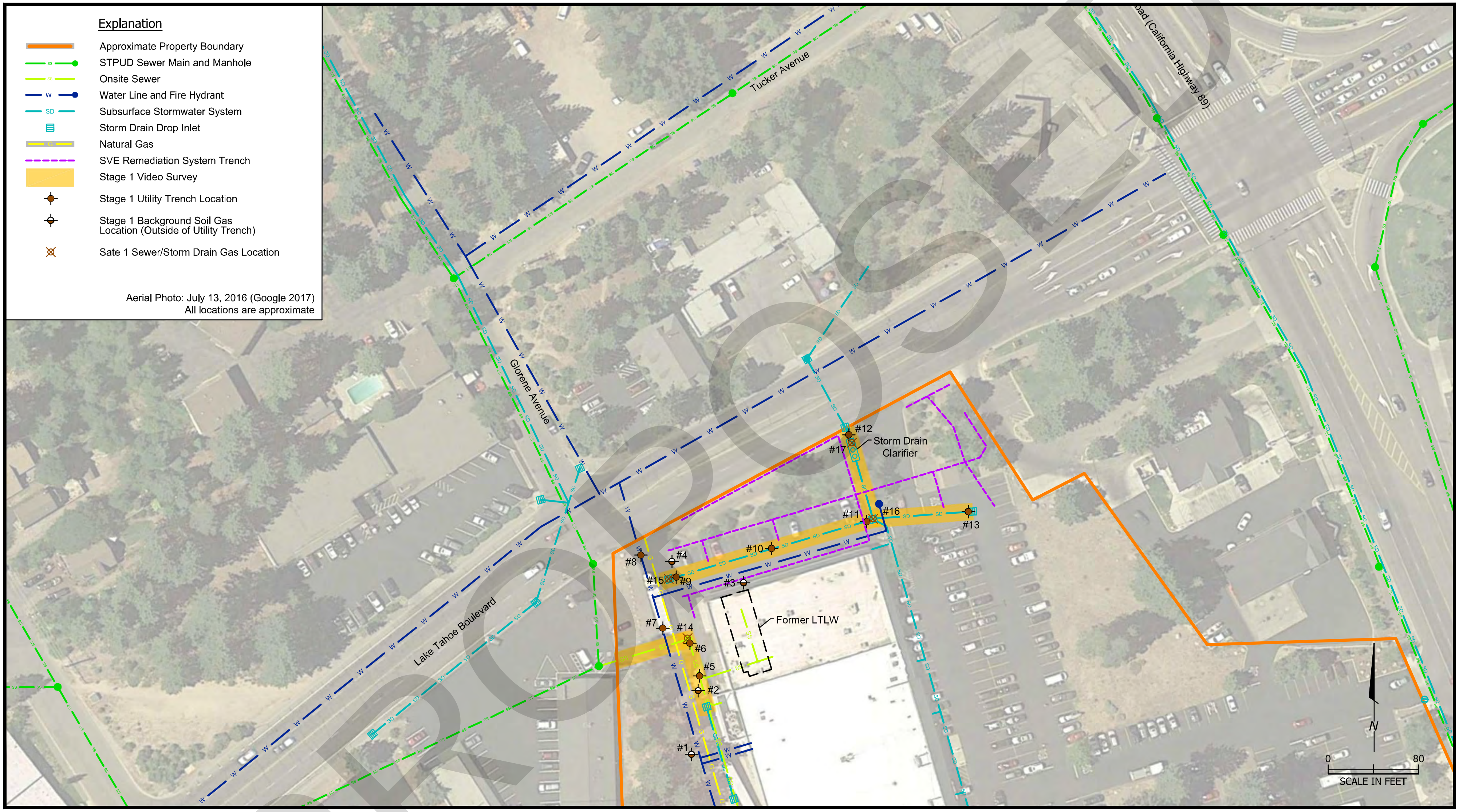
eki environment & water

Figure 3-1

20190315.08023584 G:\A70020.11\Report Dwgs_NewFigure 3-3.dwg Figure 3-3

FIGURE 36: STAGE 1 PASSIVE VAPOR SURVEY, GROUNDWATER INVESTIGATION PLANNING AND PROGRESS REPORT NO. 6 (EKI, 2018D)

EKI. 6 November 2018d. Groundwater Investigation Planning and Progress Report No. 6, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.



PROPOSED

PES Environmental, Inc.
Engineering & Environmental Services

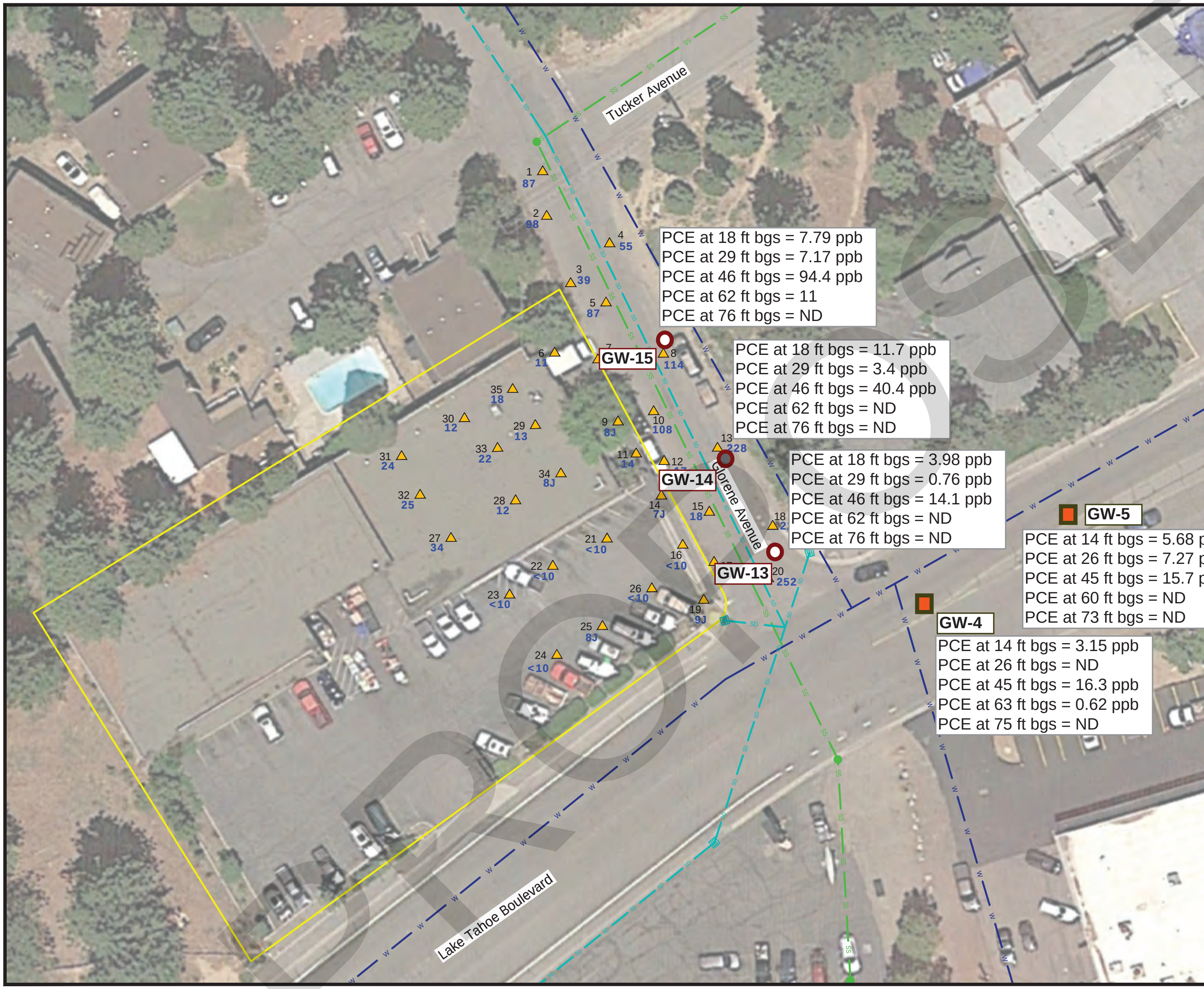
Stage 1 Passive Vapor Survey
Preferential Pathway Evaluation
Lake Tahoe Laundry Works
South Lake Tahoe, California

PLATE
1

1021.001.04.006	102100104006_1	DRAFT	11/18
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

FIGURE 37: RESULTS OF PASSIVE VAPOR SURVEY DATA GAP INVESTIGATION, PLANNING AND PROGRESS REPORT NO. 18 (EKI, 2019A)

EKI. 26 March 2019a. Planning and Progress Report No. 18, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.



Explanation

- Approximate Lakeside Auto Property Boundary
- 1 Passive Soil Gas and Sample Number (Identifier prefix "OPSG-#") Location
- STPUD Sewer Main and Manhole
- Water Line and Fire Hydrant
- Subsurface Stormwater System
- Storm Drain Drop Inlet
- 55 — PCE mass in nanograms in passive vapor samples
- <10 — PCE not detected at or above the indicated reporting limit
- J — Estimated concentration detected below laboratory reporting limit
- EKI CPT Borehole and Multi-Depth Grab Groundwater Sample Location (March 2019)
- EKI Multi-Depth Grab Groundwater Sample Location (March 2019)
- PES Multi-Depth Grab Groundwater Sample Location (Jan 2018)

0 40
SCALE IN FEET

N

Aerial Photo: June 07, 2018 (Google 2019)
All locations and boundaries are approximate

PES Environmental, Inc.
Engineering & Environmental Services

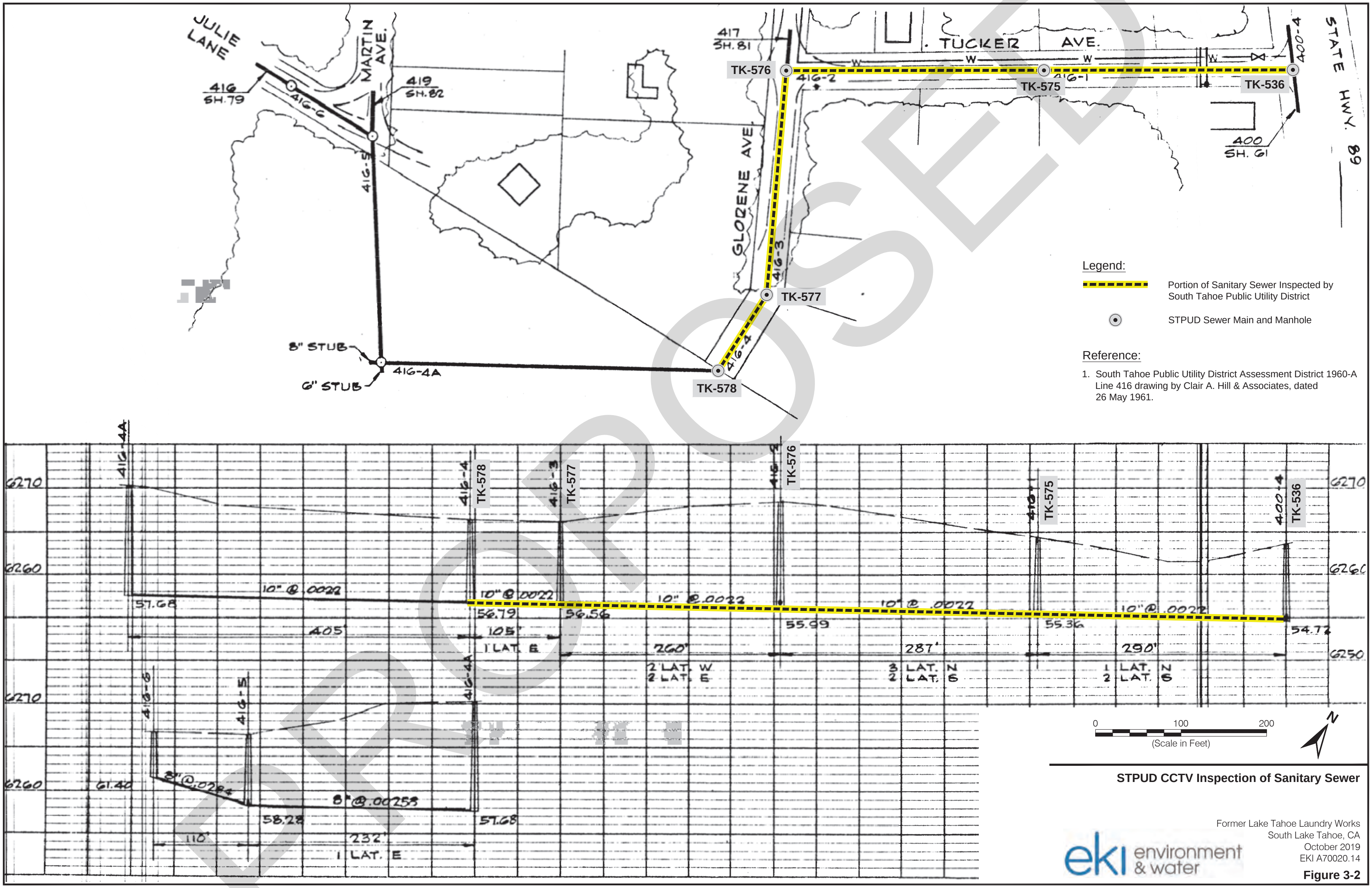
Results of Passive Vapor Survey
Data Gap Investigation
1935 Lake Tahoe Blvd and Glorene Ave
South Lake Tahoe, California

PLATE
1

JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE
1021.001.04.014	102100104001_SSI_1-2	DRAFT	1/19

FIGURE 38: STPUD CCTV INSPECTION OF SANITARY SEWER, INVESTIGATION SUMMARY REPORT (EKI, 2019)

EKI. 4 October 2019d. Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.



STPUD CCTV Inspection of Sanitary Sewer

Former Lake Tahoe Laundry Works
South Lake Tahoe, CA
October 2019
EKI A70020.14

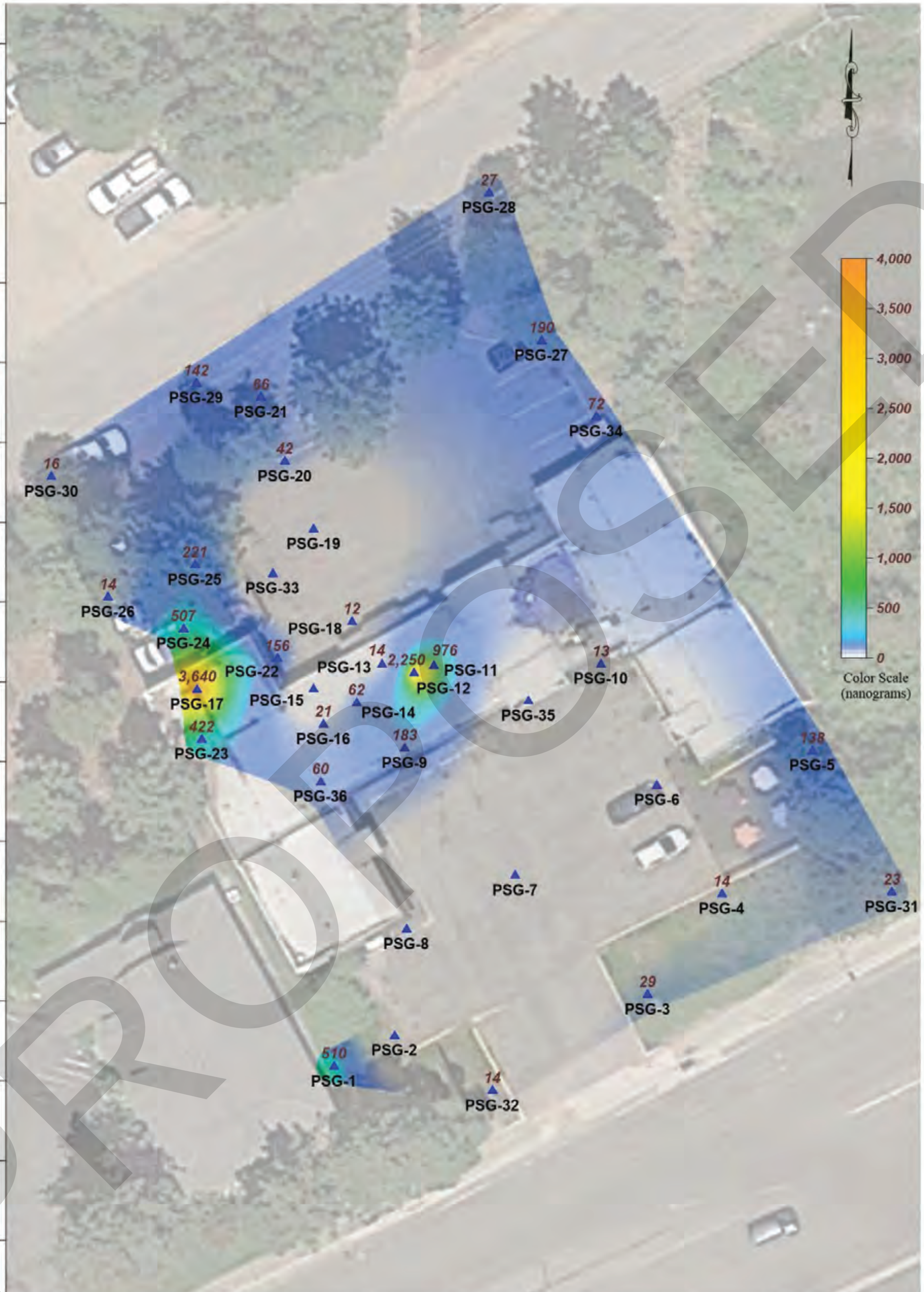
eki environment & water

Figure 3-2

20190315.08264897 G:\A70020.11\Report Dwgs\NewFigure 3-2.dwg Figure 3-2a

FIGURE 39: PASSIVE SOIL-GAS SURVEY TETRACHLOROETHENE, FORMER BIG O TIRES, PASSIVE SOIL GAS INVESTIGATION REPORT (WHA, 2020B)

WHA. 10 November 2020b. Passive Soil Gas Investigation Report, Former Big O Tires Site, 1961 Lake Tahoe Boulevard, South Lake Tahoe, California.



System: State Plane
Zone: Nevada West
Datum: NAD 1983
Coordinate Units: Feet

LEGEND

1,000 NANOGRAMS/SAMPLER

▲ PASSIVE SOIL-GAS SAMPLE LOCATION

Scale in Feet

0 25 50

BEACON ENVIRONMENTAL

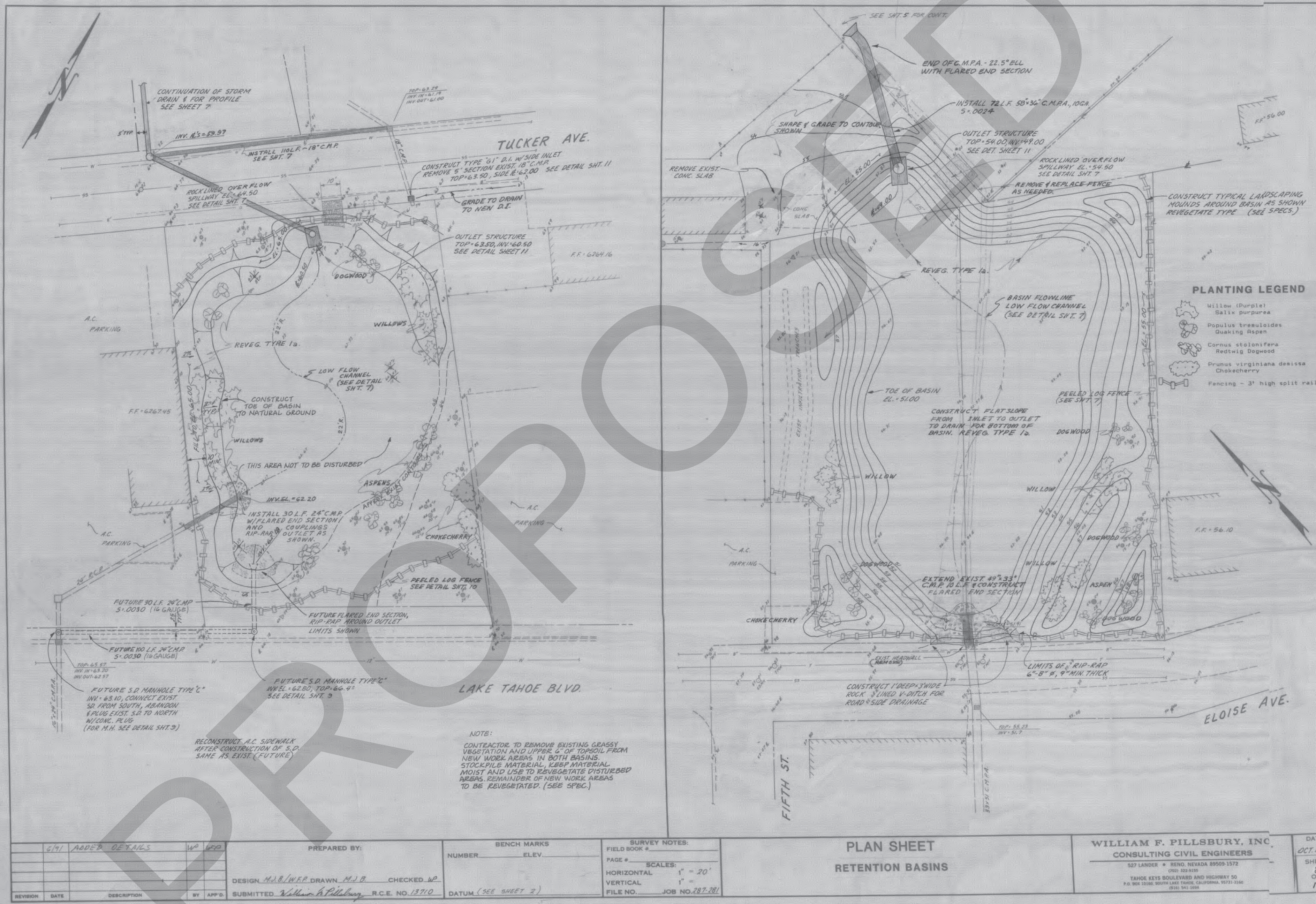
2203A Commerce Road, Suite 1, Forest Hill, MD 21050 USA
www.Beacon-USA.com 1-410-838-8780
Beacon Project No. 5412, October 2020

Figure 4
Passive Soil-Gas Survey
Tetrachloroethene

Former Big O Tires
South Lake Tahoe, CA

FIGURE 40: PLAN SHEET 8 OF 11, IMPROVEMENT PLANS FOR TAHOE VALLEY EROSION CONTROL PROJECT PHASE I (PILLSBURY, 1987)

William F. Pillsbury, Inc. Consulting Civil Engineers. August 1987. Improvement Plans For Tahoe Valley Erosion Control Project Phase I, PWC 1986-06.



K-4
Tahoe Valley ECP, 1986-06
(Built 1991)

FIGURE 41: ANNOTATED 1978 STORMWATER CONVEYANCE SYSTEM CONFIGURATION TO TUCKER BASIN, APRIL 2019, INVESTIGATION SUMMARY REPORT, APPENDIX G (EKI, 2019B, ANNOTATED BY LAHONTAN WATER BOARD STAFF)

EKI. 1 April 2019b. Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

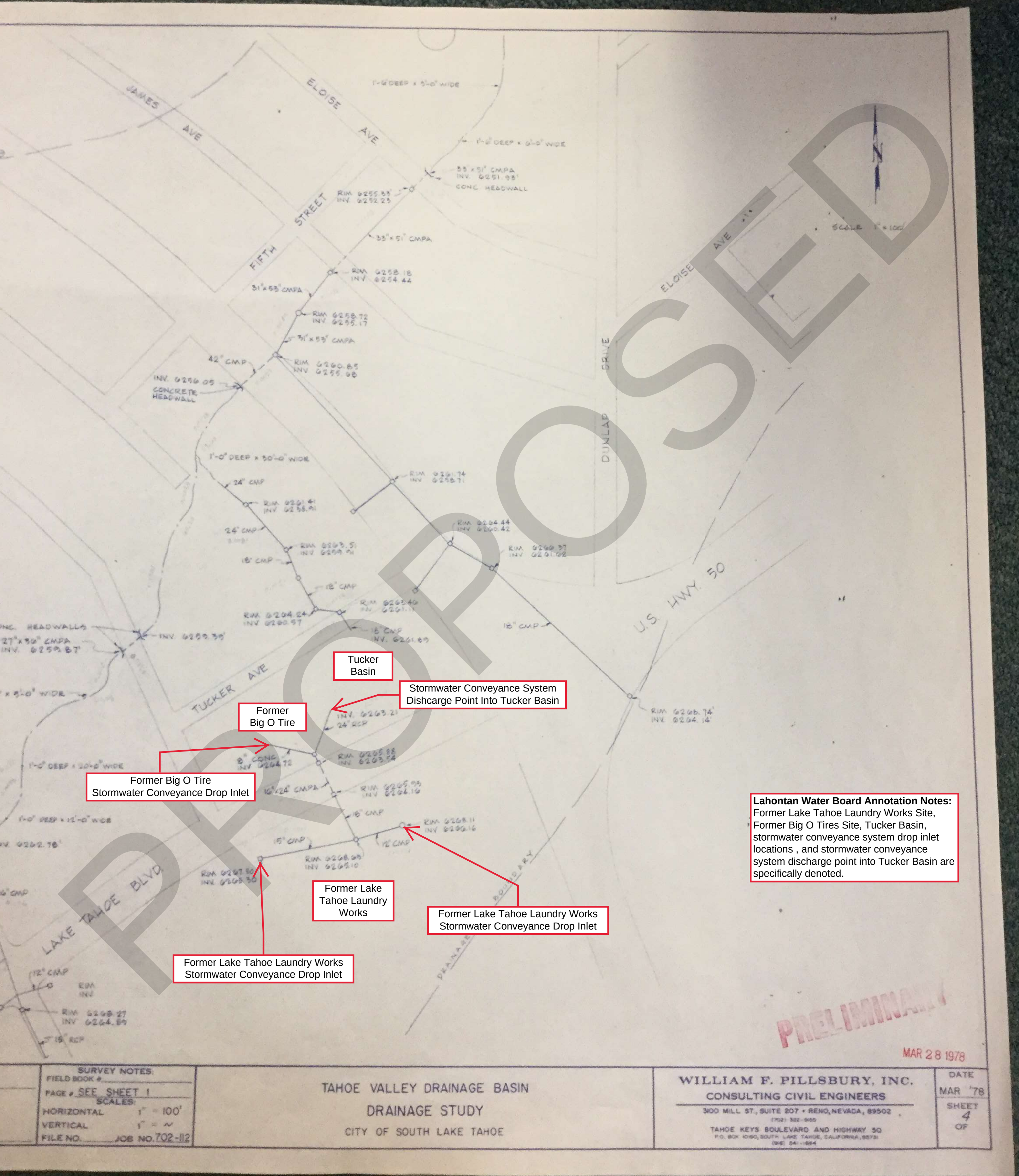
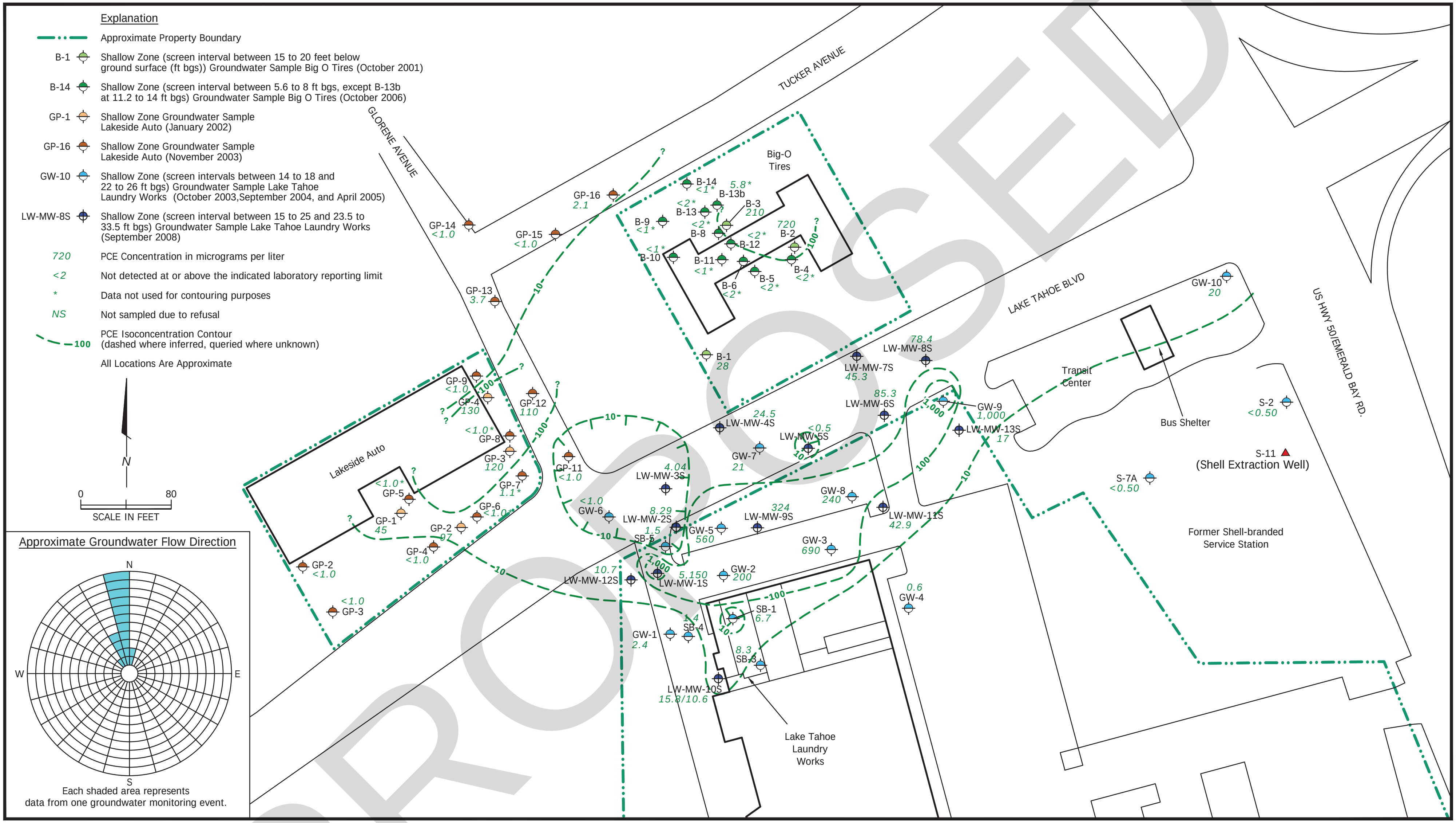

PROPOSED
JAMES AVE
ELOISE AVE
FIFTH STREET
1'-0" DEEP x 5'-0" WIDE
1'-0" DEEP x 6'-0" WIDE
53" x 51" CMPA
INV. 6251.98
CONC. HEADWALL
RIM 6255.33
INV. 6252.23
33" x 51" CMPA
SCALE 1" = 100'
ELOISE AVE
RIM 6258.18
INV. 6254.44
31" x 53" CMPA
RIM 6258.72
INV. 6255.17
31" x 53" CMPA
42" CMP
RIM 6260.85
INV. 6255.68
INV. 6256.05
CONCRETE HEADWALL
DUNLAP DRIVE
1'-0" DEEP x 30'-0" WIDE
24" CMP
RIM 6261.74
INV. 6258.71
RIM 6261.41
INV. 6258.91
24" CMP
RIM 6264.44
INV. 6262.42
RIM 6263.51
INV. 6259.91
RIM 6264.37
INV. 6261.62
18" CMP
12" CMP
U.S. HWY. 50
RIM 6264.24
INV. 6260.57
RIM 6265.40
INV. 6261.11
CONC. HEADWALLS
27" x 30" CMPA
INV. 6259.87
INV. 6260.35
15" CMP
INV. 6261.89
18" CMP
TUCKER AVE
Tucker Basin
Stormwater Conveyance System Dishcharge Point Into Tucker Basin
Former Big O Tire
INV. 6263.21
24" RCP
RIM 6266.74
INV. 6264.14
8" CONC.
INV. 6264.72
RIM 6265.88
INV. 6263.54
1'-0" DEEP x 20'-0" WIDE
Former Big O Tire Stormwater Conveyance Drop Inlet
16" x 24" CMPA
RIM 6265.93
INV. 6264.16
18" CMP
RIM 6268.11
INV. 6266.16
1'-0" DEEP x 12'-0" WIDE
15" CMP
12" CMP
RIM 6268.69
INV. 6265.10
RIM 6267.80
INV. 6265.30
Lahontan Water Board Annotation Notes:
Former Lake Tahoe Laundry Works Site, Former Big O Tires Site, Tucker Basin, stormwater conveyance system drop inlet locations , and stormwater conveyance system discharge point into Tucker Basin are specifically denoted.
Former Lake Tahoe Laundry Works
Former Lake Tahoe Laundry Works Stormwater Conveyance Drop Inlet
DRAINAGE BOUNDARY
LAKE TAHOE BLVD
Former Lake Tahoe Laundry Works Stormwater Conveyance Drop Inlet
12" CMP
RIM
INV
RIM 6268.27
INV 6264.89
15" RCP
PRELIMINARY
MAR 28 1978
SURVEY NOTES:
FIELD BOOK #
PAGE # SEE SHEET 1
SCALES:
HORIZONTAL 1" = 100'
VERTICAL 1" = ~
FILE NO. JOB NO. 702-112
TAHOE VALLEY DRAINAGE BASIN
DRAINAGE STUDY
CITY OF SOUTH LAKE TAHOE
WILLIAM F. PILLSBURY, INC.
CONSULTING CIVIL ENGINEERS
3100 MILL ST., SUITE 207 • RENO, NEVADA, 89502
TAHOE KEYS BOULEVARD AND HIGHWAY 50
DATE
MAR '78
SHEET
4
OF

FIGURE 42: PCE ISOCONCENTRATION CONTOURS OF ANALYTICAL RESULTS FROM SHALLOW WATER-BEARING ZONE (2001-2008), COMMENTS PREPARED BY PES ENVIRONMENTAL INC., AND MORRISON & FOERSTER LLP, ON BEHALF OF COMMERCE BANK/SEVEN SPRINGS LIMITED PARTNERSHIP, RE COMMENTS ON PROPOSED CLEANUP AND ABATEMENT ORDER NO. R6T- 2015- PROP (PES, 2016B)

PES. 11 February 2016b. Comments prepared by PES Environmental Inc., and Morrison & Foerster LLP, on behalf of Commerce Bank/Seven Springs Limited Partnership, re Comments on Proposed Cleanup and Abatement Order No. R6T-2015-PROP, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California. (AR10084 and 10085)



PES Environmental, Inc.
Engineering & Environmental Services

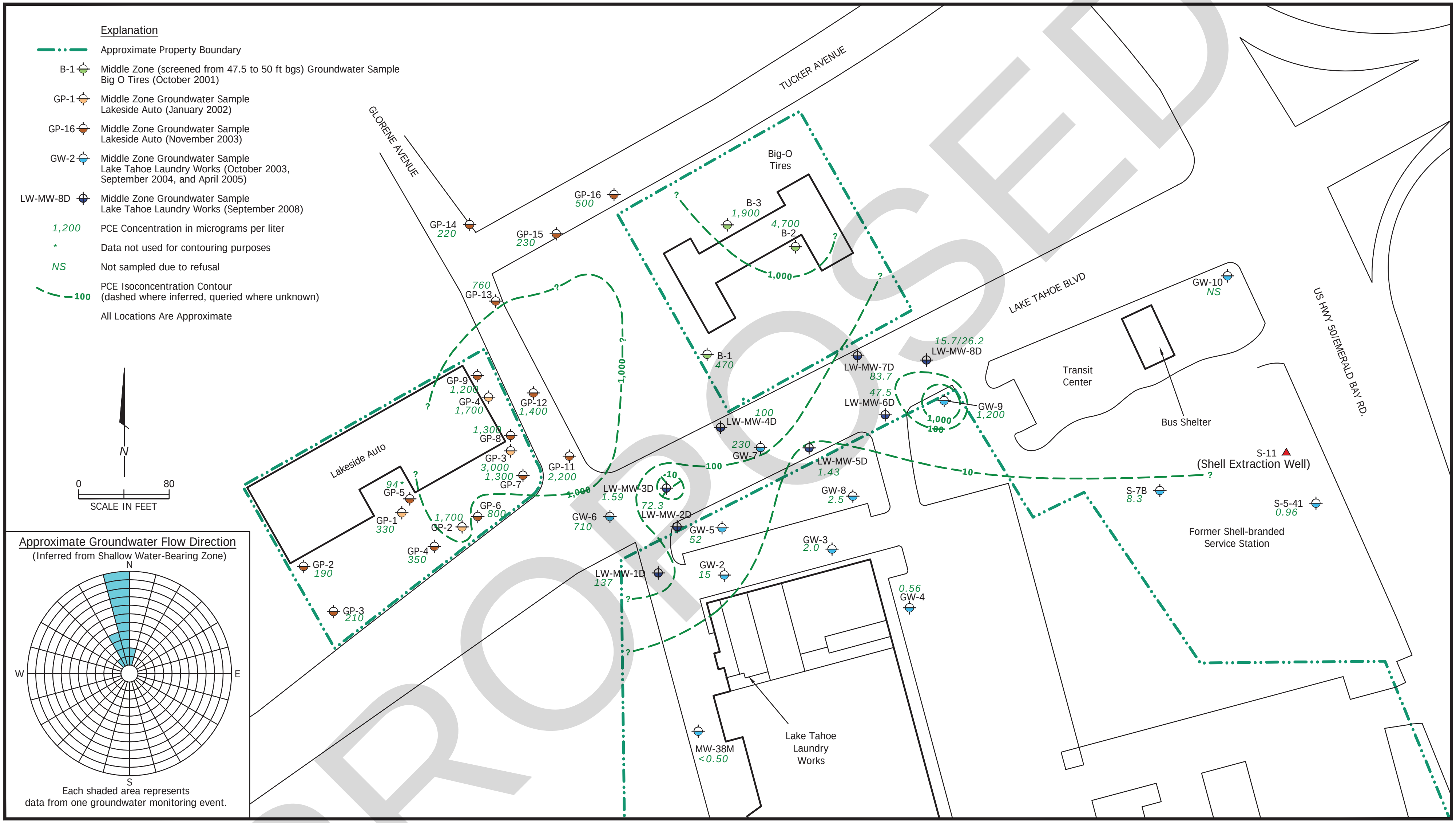
PCE Isoconcentration Contours of Analytical Results from Shallow Water-Bearing Zone (2001-2008)
Lakeside Auto, Big O Tire, and Lake Tahoe Laundry Works
South Lake Tahoe, California

PLATE
1

1021.001.01.008	102100101008_1-2	KSF	12/15
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

FIGURE 43: PCE ISOCONCENTRATION CONTOURS OF ANALYTICAL RESULTS FROM MIDDLE WATER-BEARING ZONE (2001-2008), COMMENTS PREPARED BY PES ENVIRONMENTAL INC., AND MORRISON & FOERSTER LLP, ON BEHALF OF COMMERCE BANK/SEVEN SPRINGS LIMITED PARTNERSHIP, RE COMMENTS ON PROPOSED CLEANUP AND ABATEMENT ORDER NO. R6T- 2015- PROP (PES, 2016B)

PES. 11 February 2016b. Comments prepared by PES Environmental Inc., and Morrison & Foerster LLP, on behalf of Commerce Bank/Seven Springs Limited Partnership, re Comments on Proposed Cleanup and Abatement Order No. R6T-2015-PROP, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California. (AR10084 and 10085)



PES Environmental, Inc.
Engineering & Environmental Services

PCE Isoconcentration Contours of Analytical Results from Middle Water-Bearing Zone (2001-2008)
Lakeside Auto, Big O Tire, and Lake Tahoe Laundry Works
South Lake Tahoe, California

PLATE
2

1021.001.01.008	102100101008_1-2	KSF	12/15
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

FIGURE 44: SOIL VAPOR PROBE PCE CONCENTRATION CONTOURS, 961 EMERALD BAY ROAD, RESULTS OF SOIL VAPOR PROBE INVESTIGATION (RMC, 2021)

RMC Geoscience, Inc. (RMC). 10 February 2021. Results of Soil Vapor Probe Investigation – Trestle South Lake Tahoe Property at 961 Emerald Bay Road, South Lake Tahoe.

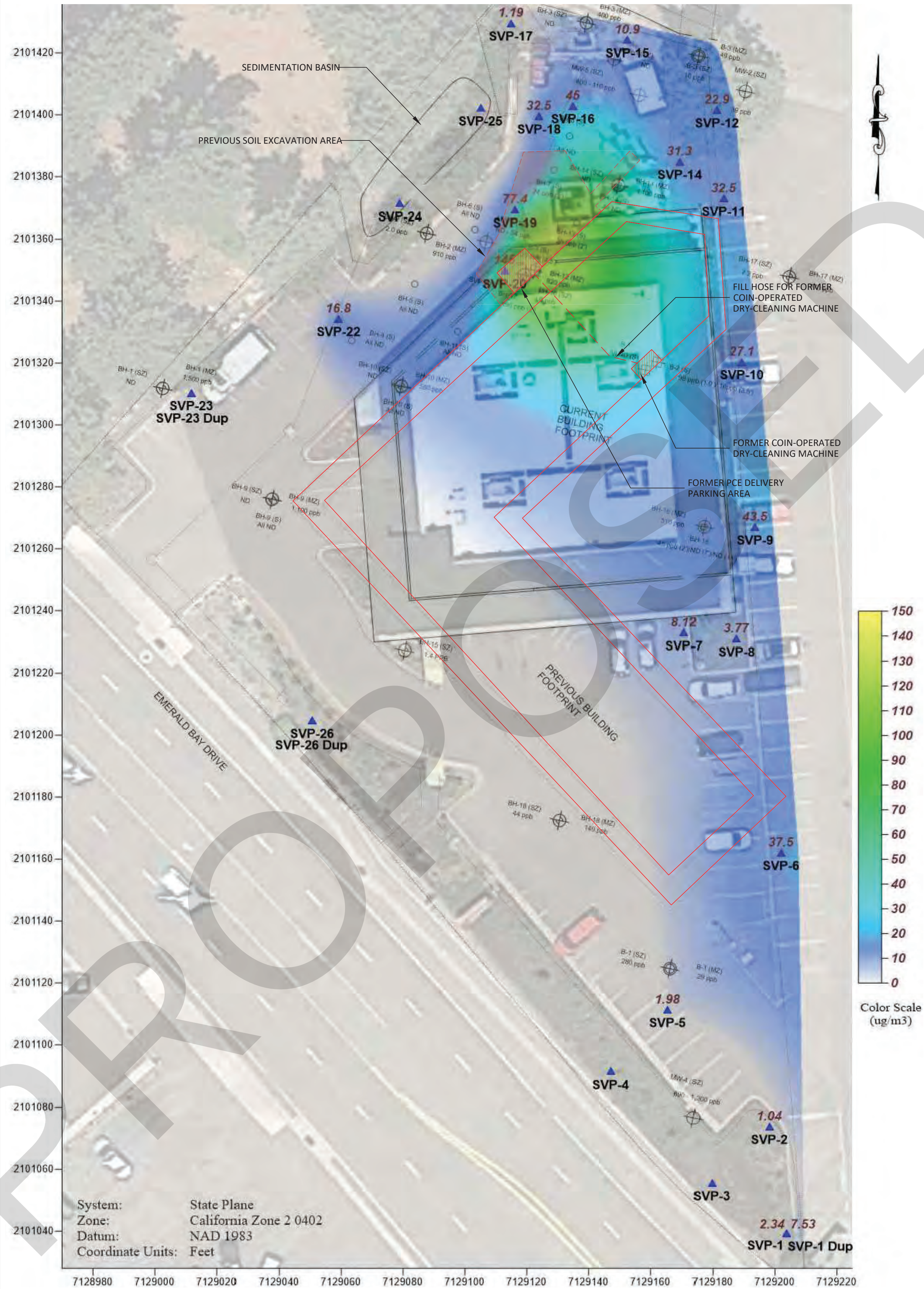


FIGURE FROM BEACON ENVIRONMENTAL - SEE ATTACHMENT 7

RMC GEOSCIENCE
ENGINEERING GEOLOGY - ENVIRONMENTAL GEOSCIENCE
405 EAST D STREET, SUITE 112
PETALUMA, CA 94952
TEL: 415.699.8073
FAX: 707.765.1924

Trestle South Lake Tahoe
961 Emerald Bay Road

SOIL VAPOR PROBE PCE CONCENTRATION CONTOURS

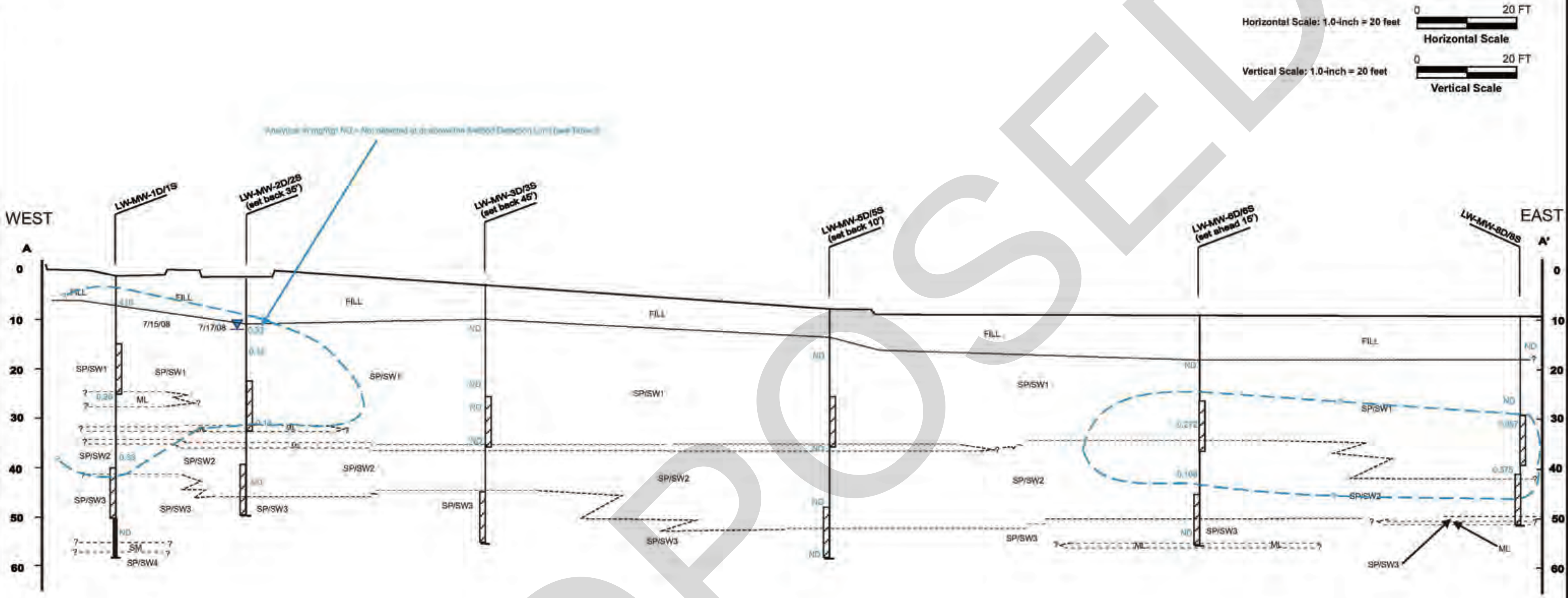
DATE: February 2021

FIGURE: 7

C:\Users\rmitc\Dropbox\2020 Trestle South Lake Tahoe\Summary Report\Figures\FIGURE 7 PCE CONCENTRATION CONTOURS.dwg 2-16-21 rmitc

FIGURE 45: CROSS SECTION A-A' SOIL PCE, SITE INVESTIGATION REPORT OF FINDINGS (E2C, 2008)

E2C Remediation Environmental Engineering, Consulting and Remediation, Inc. (E2C). 22 September 2008. Site Investigation Report of Findings, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.



Legend

ML - Silt; light gray and orange brown with Fe-staining in places

SM - Silty Sand; reddish gray; generally very fine sands; non-plastic fines

SP - Poorly-Graded Sand

SW - Well-Graded Sand

SP/SW1 - Alternating lenses of poorly-graded and well-graded sands; generally salt & pepper in color with occasional moderate yellow brown lenses

SP/SW2 - Alternating lenses of poorly-graded and well-graded sands; generally salt & pepper lenses with interbedded moderate yellow brown and gray lenses

SP/SW3 - Alternating lenses of poorly-graded and well-graded sands; interbedded lenses of gray and orange-brown with occasional Fe-staining; occasional lenses of reddish brown, very fine sand

SP/SW4 - Alternating lenses of poorly-graded and well-graded sands; salt and pepper, moderate yellow brown and gray

First Encountered Shallow Water

Shallow Water Table w/date measured

E₂C Remediation
5300 Woodmere Dr., Suite 105
Bakersfield, CA 93313
Phone: (661) 831-6906
Fax: (661) 831-6234

LAKE TAHOE LAUNDRY WORKS
1024 LAKE TAHOE BOULEVARD
SOUTH LAKE TAHOE, CALIFORNIA

CROSS SECTION A - A'
SOIL PCE

FIGURE
4A

FIGURE 46: POTENTIOMETRIC MAP, SHALLOW ZONE- THIRD QUARTER 2021, THIRD QUARTER 2021 MONITORING REPORT (PES, 2021)

PES. 15 December 2021. Third Quarter 2021 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

Explanation

OS-1	Groundwater Monitoring Well
6259.0	Generalized Groundwater Elevation Contour (dashed where inferred)
6252.82	Groundwater-Level Elevation in feet above Mean Sea Level measured September 24, 2021
*	Datum not used for contouring purposes
0.006	Generalized direction of groundwater flow and horizontal gradient in foot/foot

N

0 200
SCALE IN FEET

Aerial Photo: June 07, 2018 (Google 2019)
All locations are approximate

PES Environmental, Inc.
Engineering & Environmental Services
AN NV5 COMPANY

Potentiometric Map, Shallow Zone - Third Quarter 2021
Quarterly Monitoring Report
Former Lake Tahoe Laundry Works
South Lake Tahoe, California

PLATE
3A

JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE
1021.001.04.036	102100104036_21Q3_3A-3B	KSF	12/21

FIGURE 47: POTENTIOMETRIC MAP, MIDDLE ZONE- THIRD QUARTER 2021, THIRD QUARTER 2021 MONITORING REPORT (PES, 2021)

PES. 15 December 2021. Third Quarter 2021 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

Explanation

OS-1 Groundwater Monitoring Well

6253.0 Generalized Groundwater Elevation Contour (dashed where inferred)

6246.17 Groundwater-Level Elevation in feet above Mean Sea Level measured June 18, 2021

* Datum not used for contouring purposes

0.015 Generalized direction of groundwater flow and horizontal gradient in foot/foot

N

0 200
SCALE IN FEET

Aerial Photo: June 07, 2018 (Google 2019)
All locations are approximate

PES Environmental, Inc.
Engineering & Environmental Services
AN NV5 COMPANY

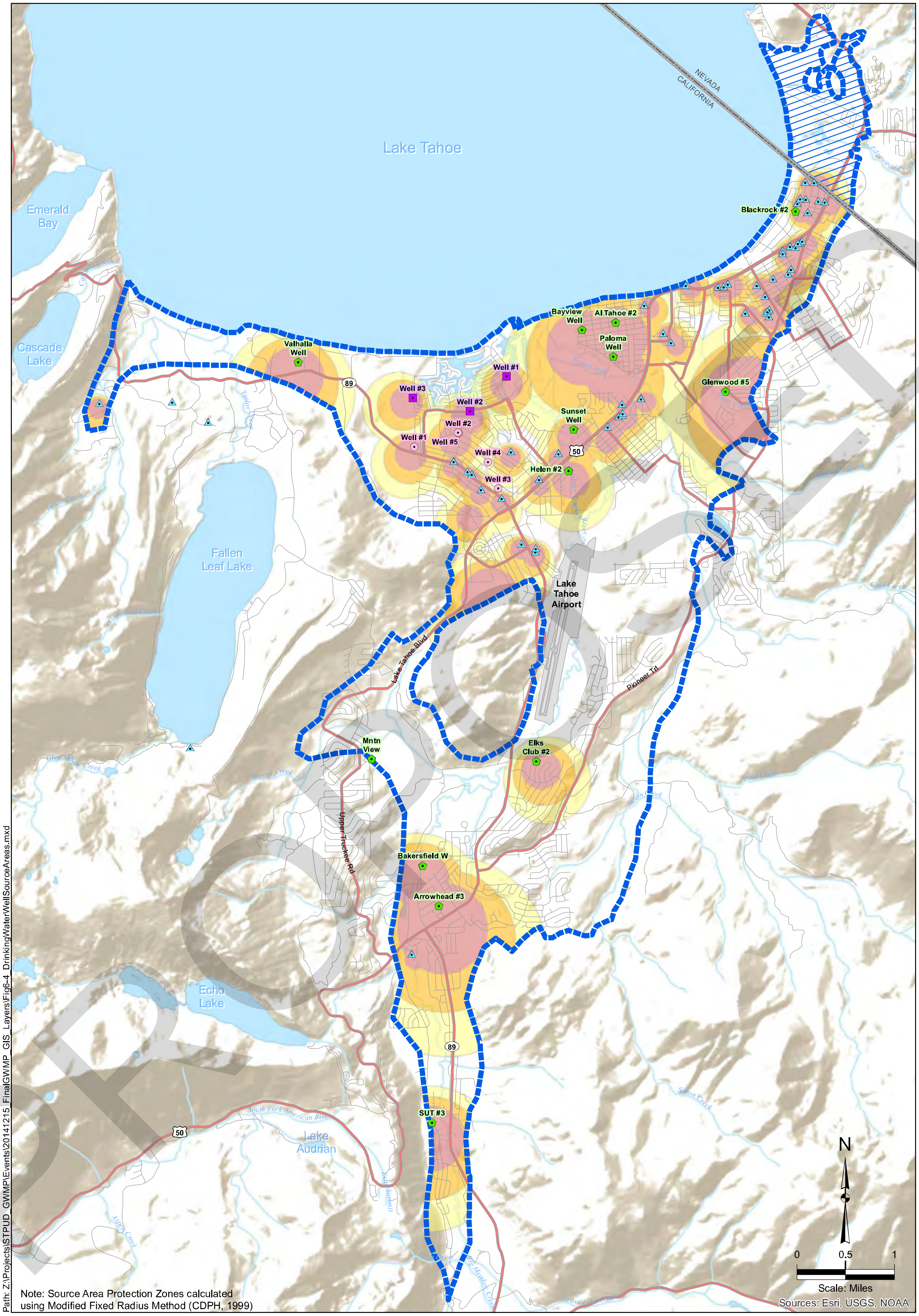
Potentiometric Map, Middle Zone - Third Quarter 2021
Quarterly Monitoring Report
Former Lake Tahoe Laundry Works
South Lake Tahoe, California

PLATE
3B

JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE
1021.001.04.036	102100104036_21Q3_3A-3B	KSF	12/21

FIGURE 48: DRINKING WATER WELL SOURCE WATER PROTECTION AREAS, TAHOE VALLEY SOUTH BASIN (6-5.01) GROUNDWATER MANAGEMENT PLAN (KENNEDY JENKS CONSULTANTS, 2014)

Kennedy Jenks Consultants. 22 December 2014. Tahoe Valley South Basin (6-5.01) 2014 Groundwater Management Plan, Prepared for South Tahoe Public Utility District, 1275 Meadow Crest Drive, South Lake Tahoe, CA 96150



Path: Z:\Projects\STPUD_GWMP\Events\20141215_FinalGWMP_GIS_Layers\Fig6-4_DrinkingWaterWellSourceAreas.mxd

LEGEND

- Small Community Water System Well
- PWS Active Well
- LBWC Well
- TKWC Well

Source Area Protection Zones

- Zone A (2-year Time of Travel)
- Zone B5 (5-year Time of Travel)
- Zone B10 (10-year Time of Travel)

- Tahoe Valley South Groundwater Basin
- Nevada Extension of Groundwater Basin
- Lake
- River

- Major Highway
- Road
- State Line

Kennedy/Jenks Consultants

Final Groundwater Management Plan
South Tahoe Public Utility District

Drinking Water Well Source Water Protection Areas

K/J 1470005*00
December 2014

Figure 6-4

FIGURE 49: LOG OF BORING LTLW-SB-1, PLANNING AND PROGRESS REPORT NO. 1 (EKI, 2018B)

EKI. 1 October 2018b. Groundwater Investigation Planning and Progress Report No. 1, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

PID (ppm)	BLOWS/6IN	DEPTH (FT)	MATERIALS DESCRIPTION
			ASPHALT (7-inches thick)
			DARK BROWN FILL (FILL) 7.5YR 3/2, dry, fine- to course-grained sand, angular base rock up 1-inch in diameter (30% gravel, 60% sand, 10% fines)
0.1			
			STRONG BROWN WELL-GRADED SAND (SW) 7.5YR 5/6, moist, fine- to course-grained sand, rounded gravel up to 1/4-inch in diameter (5% gravel, 85% sand, 10% fines)
0.1		5	Tree root at 4 feet bgs; some BLACK (7.5RY 2.5/1) and GRAY (Gley 1 6/N) sediments from 4 to 5 feet bgs
0.1			
30.1			
		10	
			Color change to BROWN (7.5YR4/4)
0.2			Increase gravel content to 10%, sub-rounded to sub-angular gravel up to 1.5-inches in diameter
			BROWN POORLY-GRADED SAND (SP) 7.5YR 5/3, wet, medium- to coarse-grained sand (0% gravel, 95% sand, 5% fines)
		15	BROWN WELL-GRADED SAND (SW) 7.5YR 4/4, wet, very fine- to course-grained sand, sub-rounded to sub-angular gravel typically up to 1-inch in diameter, occasional rounded gravel up to 2-inches in diameter (10% gravel, 80% sand, 10% fines)
0.1			
0			
		20	
0.1			
		25	BROWN SILTY SAND (SM) 7.5YR 4/4, wet, very fine- to medium-grained sand (0% gravel, 70% sand, 30% fines)
0.1			
			BROWN WELL-GRADED SAND (SW) 7.5YR 4/4, wet, very fine- to course-grained sand (0% gravel, 90% sand, 10% fines)
0.2			
		30	
0			BROWN SANDY SILT (ML) 7.5YR 4/4, moist to wet, medium stiff, very fine- to fine-grained sand (0% gravel, 30% sand, 70% fines)
		35	
			BROWN POORLY-GRADED SAND (SP) 7.5YR 4/4, wet, medium- to coarse-grained sand (0% gravel, 90% sand, 10% fines)
			BROWN SILTY SAND (SM) 7.5YR 4/4, wet, very fine- to medium-grained sand (0% gravel, 85% sand, 15% fines)
0			BROWN SANDY SILT (ML) 7.5YR 4/4, moist to wet, medium stiff, very fine- to fine-grained sand (0% gravel, 30% sand, 70% fines)
		40	BROWN WELL-GRADED SAND (SW) 7.5YR 5/4, wet, very fine- to medium-grained sand (0% gravel, 90% sand, 10% fines)
0		45	
0		50	

(Continued)

PROJECT	Former Lake Tahoe Laundry Works	DIAMETER OF HOLE	4"-core, 6"-drive inches
LOCATION	1024 Lake Tahoe Blvd.	TOTAL DEPTH OF HOLE	100 feet
JOB NUMBER	1021.001.01	DRILL RIG	Sonic (TSI 150)
LOGGED BY	PDG	DATE STARTED	10/23/17
REVIEWED BY	PDG	DATE COMPLETED	10/23/17

PLATE

A-1

PES Environmental, Inc.
Engineering & Environmental Services

LOG OF BORING LTLW-SB-1

PID (ppm)	BLOWS/6IN	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				Color change to BROWN (7.5YR5/3)
0		55		
0		60		
0		65		
				Organic (BLACK 7.5YR 2.5/1) staining at 68 feet bgs
0		70		Iron oxide (REDDISH YELLOW 7.5YR 8/6) staining at 69 feet bgs
				GRAYISH BROWN SILTY SAND (SM) 10YR 5/2, wet, very fine- to coarse-grained sand, (0% gravel, 70% sand, 30% fines)
0		75		VERY DARK GRAY SILTY SAND (SM) 10YR 3/1, wet, very fine- to coarse-grained sand (0% gravel, 85% sand, 15% fines)
				VERY DARK GRAY SILT (ML) 10YR 3/1, moist, medium stiff, low plasticity, very fine- to fine-grained sand (0% gravel, 5% sand, 95% fines)
0		80		
0		85		
0		90		
0		95		
0		100		End boring at 100 feet bgs.

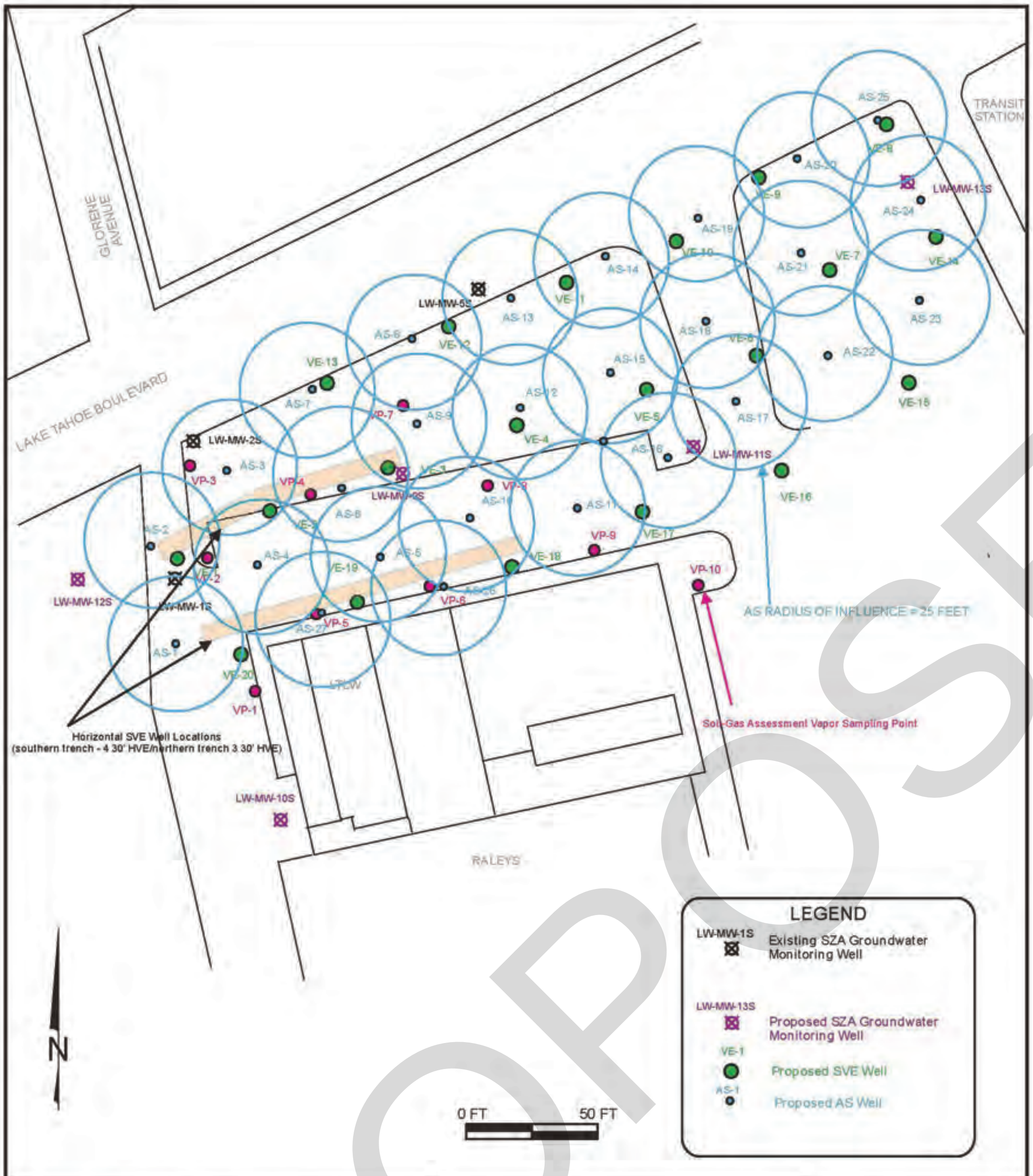
PROJECT	Former Lake Tahoe Laundry Works	DIAMETER OF HOLE	4"-core, 6"-drive inches
LOCATION	1024 Lake Tahoe Blvd.	TOTAL DEPTH OF HOLE	100 feet
JOB NUMBER	1021.001.01	DRILL RIG	Sonic (TSI 150)
LOGGED BY	PDG	DATE STARTED	10/23/17
REVIEWED BY	PDG	DATE COMPLETED	10/23/17

PLATE

A-1

FIGURE 50: GROUNDWATER AIR SPARGING RADIUS OF INFLUENCE PLOT, INTERIM REMEDIAL ACTION WORKPLAN FOR SZA GROUNDWATER INVESTIGATION, SZA GROUNDWATER MONITORING, INTERIM REMEDIAL ACTION VADOSE ZONE SOIL AND SHALLOW GROUNDWATER CLEANUP (E2C, 2009)

E2C. 4 June 2009. Remedial Action Workplan for SZA Groundwater Investigation, SZA Groundwater Monitoring, Interim Remedial Action Vadose Zone Soil and Shallow Groundwater Cleanup, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.



E$_2$C Remediation
5300 Woodmere Dr., Suite 105
Bakersfield, CA 93313

Phone: (661) 831-6906
Fax: (661) 831-6234

LAKE TAHOE LAUNDRY WORKS
1024 LAKE TAHOE BOULEVARD
SOUTH LAKE TAHOE, CALIFORNIA

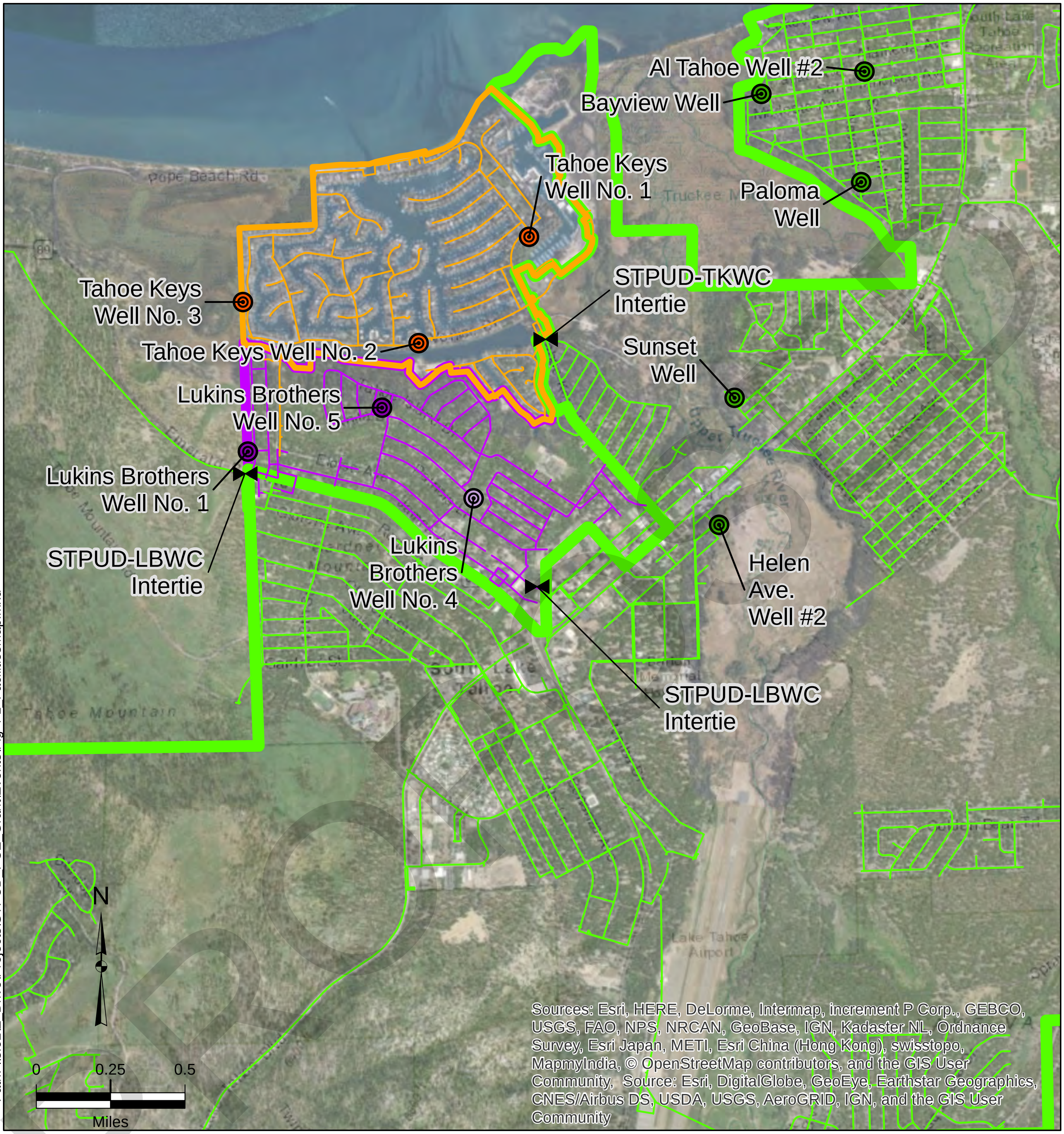
GROUNDWATER AIR SPARGING
RADIUS OF INFLUENCE PLOT

FIGURE

8

FIGURE 51: WATER FACILITIES WITHIN THE SOUTH Y REGION, SOUTH Y PCE FACILITIES FEASIBILITY STUDY (KENNEDY JENKS, 2020)

Kennedy Jenks. 10 May 2020. South Y PCE Facilities Feasibility Study [Agreement D1712508], prepared for South Tahoe Public Utility District, 1275 Meadow Crest Drive, South Lake Tahoe, CA 96150, KJ Project No. 1770027*00



Path: \\sfo2\Z_Drive\Projects\STPUD_PCE_GrantEvents\Fig 4-1_FacilitiesMap.mxd

LEGEND

Production Wells

STPUD Intertie

Water Service Areas

Tahoe Keys Water Company

Lukins Brother Water Company

South Tahoe Public Utility District

Kennedy/Jenks Consultants

South Lake Tahoe, CA

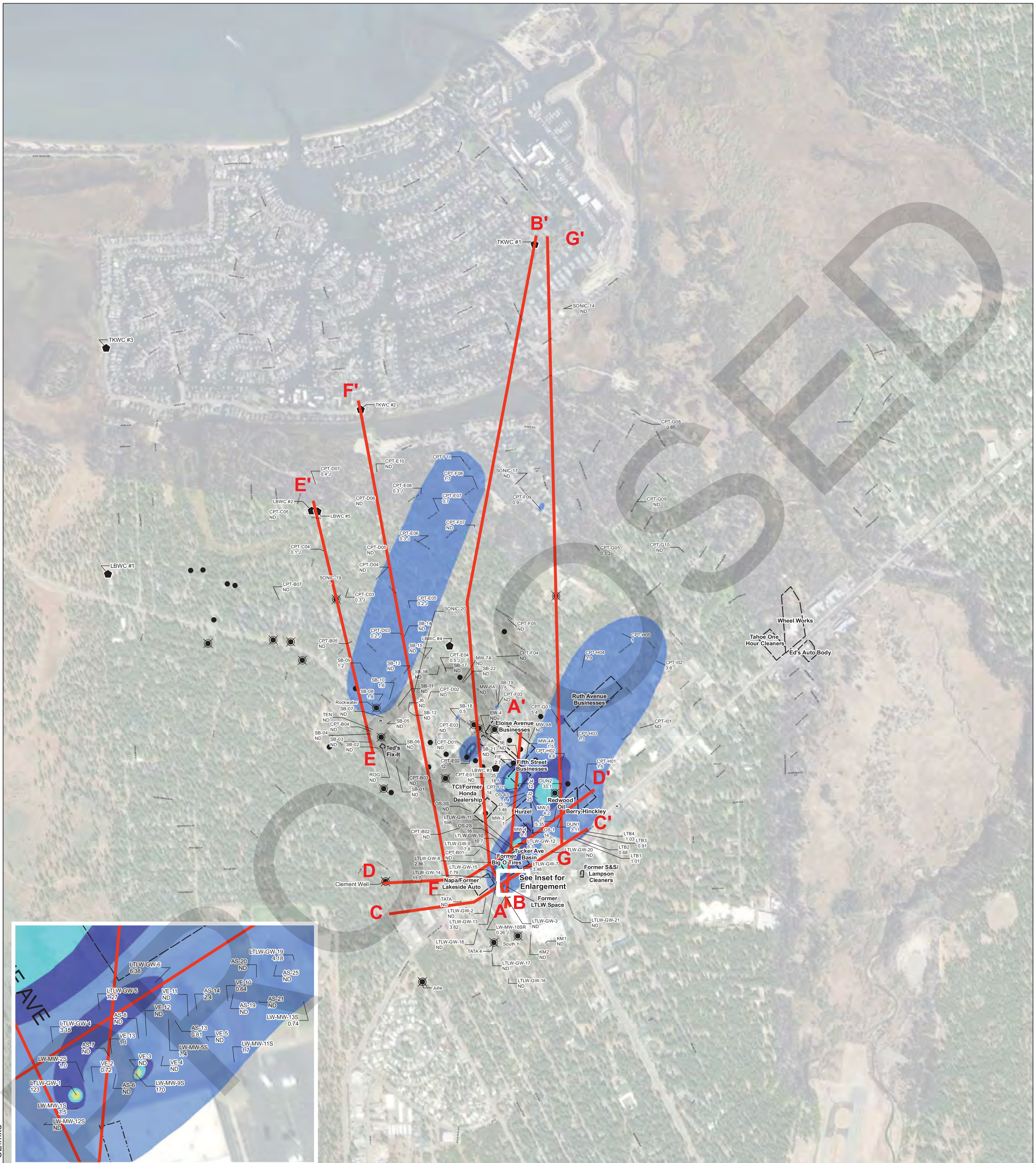
Water Facilities within the South Y Region

1770027.00

Figure 3-1

FIGURE 52: GENERALIZED PCE CONTOURS IN GROUNDWATER SHALLOW ZONE (0 TO 30 FEET BGS) 2015 AND LATER, INVESTIGATION SUMMARY REPORT (EKI, 2020B)

EKI. 1 October 2020b. Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.



Legend

PCE in Groundwater (ug/L)

- \>1,000
- 500 - 1,000
- 100 - 500
- 50 - 100
- 10 - 50
- 5 - 10
- \>RL - 4.9

South Y Water Supply Wells

- Private Well
- Community Water System Well
- Non-Community Water System Well

Abbreviations

GGW = grab groundwater
LTLW = Lake Tahoe Laundry Works
ND = not detected at 0.5 ug/L
PCE = tetrachloroethene
RL = Laboratory Reporting Limit
ug/L = micrograms per liter

Notes

1. All locations are approximate.
2. If GGW samples were collected from multiple depths within the plotted depth interval, the highest PCE concentration of these samples is plotted.
3. Most recent PCE groundwater data are plotted for monitoring wells.
4. Groundwater PCE concentration contours are preliminary and subject to change.

Sources

1. Basemap courtesy of ESRI.

N

0 800 1,600
Feet

Generalized PCE Contours in Groundwater Shallow Zone (0 to 30 feet bgs) 2015 and Later

South Lake Tahoe, CA
October 2020
EKI A70020.20

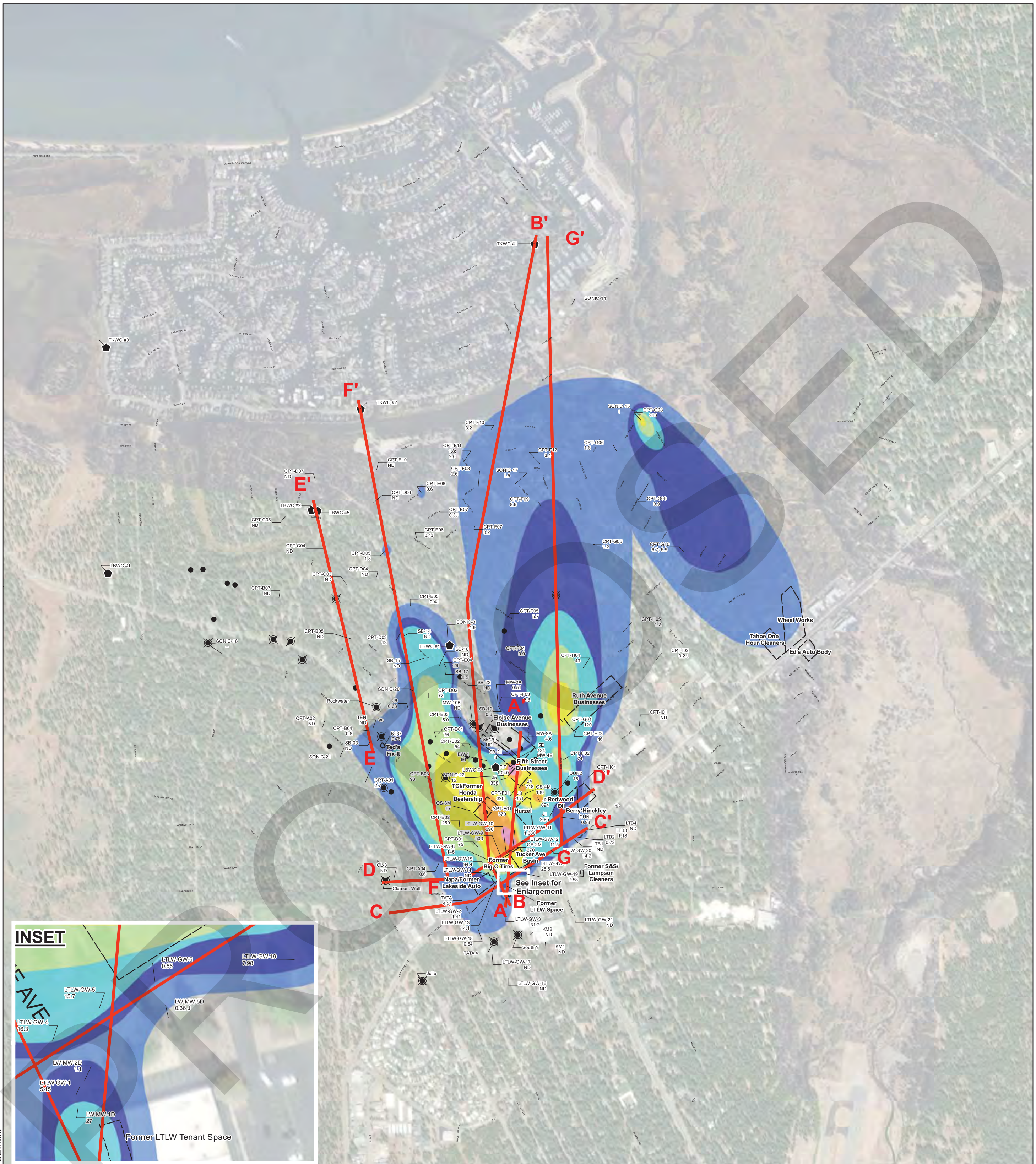
eki environment & water

Figure 5-1

Document Path: X:\A70020\Maps\2020\10\Fig5-1_ShallowPCE.mxd

FIGURE 53: GENERALIZED PCE CONTOURS IN GROUNDWATER MIDDLE ZONE (30 TO 60 FEET BGS) 2015 AND LATER, INVESTIGATION SUMMARY REPORT (EKI, 2020B)

EKI. 1 October 2020b. Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.



Legend

PCE in Groundwater (µg/L)

- >1,000
- 500 - 1,000
- 100 - 500
- 50 - 100
- 10 - 50
- 5 - 10
- >RL - 4.9

South Y Water Supply Wells

- Private Well
- Community Water System Well
- Non-Community Water System Well

Abbreviations

GGW = grab groundwater
LTLW = Lake Tahoe Laundry Works
ND = not detected at 0.5 ug/L
PCE = tetrachloroethene
RL = Laboratory Reporting Limit
ug/L = micrograms per liter

Notes

1. All locations are approximate.
2. If GGW samples were collected from multiple depths within the plotted depth interval, the highest PCE concentration of these samples is plotted.
3. Most recent PCE groundwater data are plotted for monitoring wells.
4. Groundwater PCE concentration contours are preliminary and subject to change.

Sources

1. Basemap courtesy of ESRI.

N

0 800 1,600
Feet

Generalized PCE Contours in Groundwater Middle Zone (30 to 60 feet bgs) 2015 and Later

South Lake Tahoe, CA
October 2020
EKI A70020.20

eki environment & water

Figure 5-2

Document Path: X:\A70020\Maps\2020\10\Fig5-2_MiddlePCE.mxd

FIGURE 54: GENERALIZED PCE CONTOURS IN GROUNDWATER DEEPER ZONE (60 TO 70 FEET BGS) 2015 AND LATER, INVESTIGATION SUMMARY REPORT (EKI, 2020B)

EKI. 1 October 2020b. Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

Legend

PCE in Groundwater (µg/L)

- >1,000
- 500 - 1,000
- 100 - 500
- 50 - 100
- 10 - 50
- 5 - 10
- >RL - 4.9

South Y Water Supply Wells

- Private Well
- Community Water System Well
- Non-Community Water System Well

Abbreviations

GGW = grab groundwater
LTLW = Lake Tahoe Laundry Works
ND = not detected at 0.5 ug/L
PCE = tetrachloroethene
RL = Laboratory Reporting Limit
ug/L = micrograms per liter

Notes

1. All locations are approximate.
2. If GGW samples were collected from multiple depths within the plotted depth interval, the highest PCE concentration of these samples is plotted.
3. Most recent PCE groundwater data are plotted for monitoring wells.
4. Groundwater PCE concentration contours are preliminary and subject to change.

Sources

1. Basemap courtesy of ESRI.

N
0 800 1,600
Feet

Generalized PCE Contours in Groundwater
Deeper Zone (60 to 70 feet bgs)
2015 and Later

South Lake Tahoe, CA
October 2020
EKI A70020.20

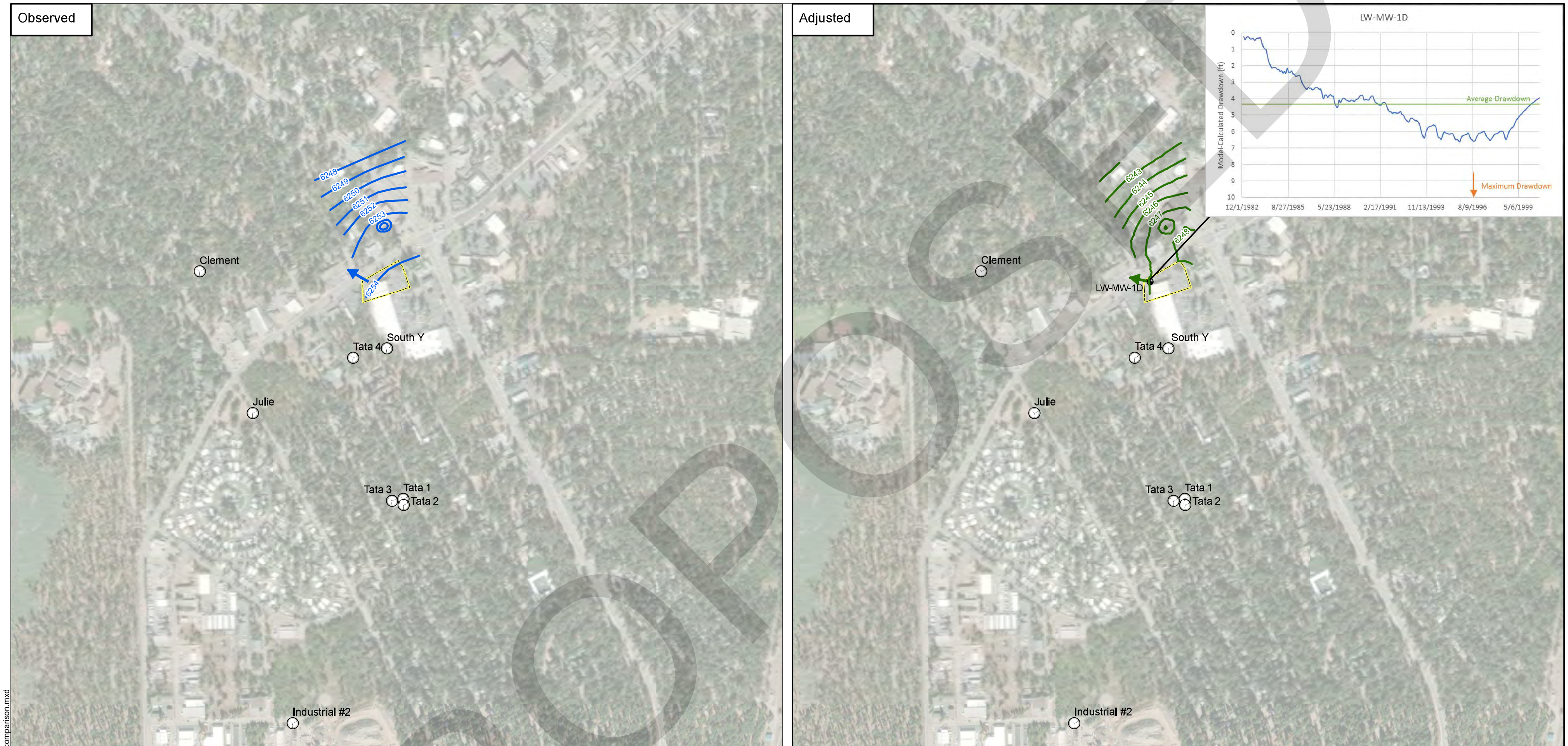
eki environment & water

Figure 5-3

Document Path: X:\A70020\Maps\2020\10\Fig5-3_UpperDeepPCE.mxd

FIGURE 55: OBSERVED MIDDLE ZONE GROUNDWATER ELEVATIONS, AND GROUNDWATER ELEVATIONS ADJUSTED BY SUBTRACTING THE MAXIMUM MODEL-CALCULATED MIDDLE ZONE DRAWDOWN OWING TO HISTORICAL MUNICIPAL WELL EXTRACTIONS, NOVEMBER 2018, INVESTIGATION SUMMARY REPORT (EKI, 2019B)

EKI. 1 April 2019b. Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.



Legend

- Municipal Well
- Monitoring Well
- Observed Groundwater Elevation Contour (ft MSL)
- Adjusted Groundwater Elevation Contour (ft MSL)
- Observed Flow Path
- Adjusted Flow Path
- Former Lake Tahoe Laundry Works Site

Abbreviations

ft = feet
ft MSL = feet above mean sea level

Notes

1. All locations are approximate.
2. Adjusted groundwater elevation contours calculated by subtracting maximum model-calculated historical municipal well drawdown (August 1996) from observed groundwater elevation contours.

Sources

1. Observed groundwater elevation contours from EKI Environment and Water, 2019.
2. Basemap Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

N

0 800 1,600
Feet

Observed Middle Zone Groundwater Elevations, and Groundwater Elevations Adjusted by Subtracting the Maximum Model-Calculated Middle Zone Drawdown Owing to Historical Municipal Well Extractions, November 2018

Former Lake Tahoe Laundry Works
South Lake Tahoe, CA
April 2019
EKI A70020.11
Figure 4-8e

eki environment & water

Path: X:\A70020\Maps\2019\04\Figures\Fig4-8e_Middle_2018_comparison.mxd

LIST OF TABLES

TABLE 1: SUMMARY OF HISTORICAL VP SHALLOW SOIL-GAS ANALYTICAL DATA, THIRD QUARTER 2021 MONITORING REPORT (PES, 2021)

PES. 15 December 2021. Third Quarter 2021 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

Table 4
Summary of Historical VP Shallow Soil Vapor Analytical Data
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Sample ID	Sample Date	PCE		TCE		cis-1,2-DCE		Tracer Gas		Other VOCs	
		(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m3)
VP-1	04/09/10	16	108.5	nd	nd	nd	nd	nd	nd	nd	nc
	09/08/10	72	488.2	nd	nd	nd	nd	nd	nd	0.031	nc
	12/16/10	133	901.7	nd	nd	nd	nd	nd	nd	nd	nc
	05/11/11	unable to sample - water in well									
	09/29/11	<1.0	<6.78	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	12/09/11	<1.0	<6.78	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	03/29/12	<1.0	<6.78	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	06/08/12	16.8	113.9	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	4.59	nc
	09/13/12	40	271.2	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	12/17/12	Unable to collect sample; well tubing filled with ice									
	02/14/13	6.48	43.9	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	06/25/13	Sample Collected - Sample Holding Time Expired, not analyzed									
	09/30/13	250	1,700	5.5	30	<1.2	<4.8	<1.2	<6.74	35.7	nc
	12/10/13	30	200	<10	<53.7	<10	<39.6	<10	<56.1	18	nc
	03/06/14	38	258	<10	<53.7	<10	<39.6	<10	<56.1	11	nc
	06/26/14	610	4,136	<10	<53.7	<10	<39.6	<10	<56.1	12	62.9
	09/17/14	38	258	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	12/16/14	7.5	51	<0.03	<0.016	<10	<39.6	<10	<56.1	nd	nc
	03/31/15	13	88	0.99	5.3	<10	<39.6	<10	<56.1	nd	nc
	06/12/15	<0.01	<0.0678	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	09/11/15	5.3	36	<0.10	<0.537	<10	<39.6	<10	<56.1	nd	nc
	12/18/15	5.6	38	<0.10	<0.537	<10	<39.6	<10	<56.1	17	nc
	03/25/16	41	278	0.35	1.9	<10	<39.6	<10	<56.1	nd	nc
	06/21/16	52	353	0.85	4.6	<10	<39.6	<10	<56.1	nd	nc
	09/28/16	130	882	<0.10	<0.537	<10	<39.6	<10	<56.1	nd	nc
	12/20/16	0.77	5.2	<0.10	<0.537	<10	<39.6	<10	<56.1	nd	nc
	09/27/17	31	210	<0.10	<0.537	<10	<39.6	<10	<56.1	nd	nc
	11/29/17	120	814	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	04/04/18	Unable to collect sample; well tubing filled with water									
	06/25/18	480	3,255	<10	<53.7	<10	<39.6	<10	<56.1	81	nc
	07/31/18	480	3,255	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	09/26/18	<10	<68	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	12/06/18	1.0	6.8	0.33	1.8	<0.2	<0.80	<0.20	<1.1	323.78	832.79
	03/28/19	Unable to collect sample; well tubing filled with water									
	06/04/19	Unable to collect sample; well filled with water									
	09/13/19	120	810	1.3	7.0	0.29	1.2	<0.2	<0.49	14.23	57.2

Table 4
Summary of Historical VP Shallow Soil Vapor Analytical Data
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Sample ID	Sample Date	PCE		TCE		cis-1,2-DCE		Tracer Gas		Other VOCs	
		(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m3)
VP-1	12/20/19	5.3	36	0.28	1.5	<0.2	<0.79	<0.2	<0.49	1.2	5.2
(cont.)	03/26/20	2.1	14	<0.2	<1.1	<0.2	<0.79	<0.2	<0.49	15.6	55.1
	06/29/20	Not Sampled									
	08/12/20	0.49	3.3	<0.2	<1.1	<0.2	<0.79	<0.2	<0.49	12.07	50.4
	09/24/20	6.3	43	0.76	4.1	<0.2	<0.79	<0.2	<0.49	6.54	21.3
	11/20/20	1.8	12	<0.2	<1.1	<0.2	<0.79	<0.2	<0.49	nd	nd
	03/25/21	0.74	5.0	<0.2	<1.1	<10	<40	<10	<25	nd	nd
	06/28/21	2.1	14	<0.2	<1.1	<10	<40	<10	<25	14	34
	09/24/21	**2.2**	**15**	**<0.2**	**<1.1**	**<10**	**<40**	**<10**	**<25**	**nd**	**nd**
VP-2	04/09/10	429	2,909	29	155.7	380	1,506	nd	nd	nd	nc
	09/08/10	82	556.0	nd	nd	nd	nd	nd	nd	nd	nc
	12/16/10	2,510	17,018	174	9,344	150	594	nd	nd	186	nc
	05/11/11	unable to sample - water in well									
	09/29/11	189	1,281	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	12/09/11	2,020	13,696	86.1	4,624	42.6	169	<1.0	<5.61	87.8	nc
	03/29/12	4,700	31,866	459	2,465	<1.0	<3.96	<1.0	<5.61	862	nc
	06/08/12	5,050	34,239	107	575	55.2	219	<1.0	<5.61	108	nc
	09/13/12	7,150	48,477	20	107.41	<1.0	<3.96	<1.0	<5.61	55	nc
	12/17/12	Unable to collect sample; well covered with snow									
	02/14/13	Unable to collect sample; well covered with snow									
	06/25/13	Sample Collected - Sample Holding Time Expired, not analyzed									
	09/30/13	140,000	949,200	4,400	23,628	26,000	102,960	<660	<3,700	2,700	nc
	12/10/13	Not Sampled - not accessible									
	03/06/14	Not Sampled - not accessible									
	06/26/14	8,500	57,630	240	1,289	250	990	<1.0	<5.61	11	nc
	09/17/14	800	5,424	<10	<53.7	<10	<39.6	<1.0	<5.61	nd	nc
	12/16/14	520	3,527	2.7	14.5	12	48	<1.0	<5.61	nd	nc
	03/31/15	160	1,085	3.6	19.3	15	59	<1.0	<5.61	nd	nc
	06/12/15	0.095	0.64	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	09/11/15	2,000	13,560	93	499	20	79	<10	<56.1	nd	nc
	12/18/15	Unable to collect sample; well covered with snow									
	03/25/16	Unable to collect sample; water in well									
	06/21/16	2900	19,662	84	451	<10	<39.6	<10	<56.1	nd	nc
	09/28/16	6200	42,036	94	505	13	51	<10	<56.1	nd	nc
	12/20/16	82	556	5.6	30	<10	<39.6	<10	<56.1	nd	nc

Table 4
Summary of Historical VP Shallow Soil Vapor Analytical Data
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Sample ID	Sample Date	PCE		TCE		cis-1,2-DCE		Tracer Gas		Other VOCs	
		(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m3)
VP-2	09/27/17	1,200,000	8,136,000	2,700	14,499	650	2,574	<10	<56.1	56	nc
(cont.)	11/29/17	370,000	2,508,600	3,200	17,184	1100	4,356	<10	<56.1	18	nc
	04/04/18	Unable to collect sample; well tubing filled with water									
	06/25/18	45,000	305,100	8300	44,571	1200	4,752	<10	<56.1	200	nc
	07/31/18	99,000	671,220	1300	6,981	210	832	<10	<56.1	nd	nc
	09/26/18	2,100	14,000	39	210	29	110	<10	<56.1	88	300
	12/06/18	Unable to collect sample; well covered with snow									
	03/28/19	Unable to collect sample; well covered with snow and ice									
	06/04/19	Unable to collect sample; well filled with water									
	09/13/19	88,000	600,000	530	2,800	1,900	7,500	<0.2	<0.49	nd	nd
	12/20/19	6,100	41,000	100	540	39	150	<0.2	<0.49	12	42
	03/26/20	180	1,200	<0.2	<1.1	<0.2	<0.79	<0.2	<0.49	227	790
	06/29/20	Not Sampled									
	08/12/20	350	2,400	14	75	9.4	37	<0.2	<0.49	12.94	34.6
	09/24/20	360	2,400	17	91	11	44	<0.2	<0.49	23.4	56.1
	11/20/20	520	3,500	4	22	<0.2	<0.79	<0.2	<0.49	nd	nd
	03/25/21	63	430	1.2	6.4	<10	<40	<10	<25	nd	nd
	06/28/21	360	2,500	13	69	13	50	<10	<25	10	24
	09/24/21	**3,600**	**24,000**	**23**	**130**	**5.5**	**22**	**<10**	**<25**	**nd**	**nd**
VP-3	04/09/10	unable to sample - water in well									
	09/08/10	nd	nd	nd	nd	nd	nd	nd	nd	nd	nc
	12/16/10	unable to sample - water in well									
	05/11/11	unable to sample - water in well									
	09/29/11	527	3,573	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	12/09/11	469	3,180	1.96	10.53	<1.0	<3.96	<1.0	<5.61	1.98	nc
	03/29/12	900	6,102	3.24	18.4	<1.0	<3.96	<1.0	<5.61	nd	nc
	06/08/12	522	3,539	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	09/13/12	<1.0	<6.78	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	12/17/12	Unable to collect sample; well covered with snow									
	02/14/13	Unable to collect sample; well covered with snow									
	06/25/13	Sample Collected - Sample Holding Time Expired, not analyzed									
	09/30/13	3,900	26,442	47	252	170	673	<26	<140	nd	nc
	12/10/13	<10	<67.8	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	03/06/14	<10	<67.8	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	06/26/14	330	2,237	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc

Table 4
Summary of Historical VP Shallow Soil Vapor Analytical Data
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Sample ID	Sample Date	PCE		TCE		cis-1,2-DCE		Tracer Gas		Other VOCs	
		(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m3)
VP-3 (cont.)	09/17/14	18	122	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	12/16/14	4.2	28	0.032	0.17	<10	<39.6	<10	<56.1	nd	nc
	03/31/15	2.1	14	<0.030	<0.016	<10	<39.6	<10	<56.1	nd	nc
	06/12/15	<0.01	<0.0678	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	09/11/15	160	1,085	0.42	2.26	<10	<39.6	<10	<56.1	nd	nc
	12/18/15	Unable to collect sample; well covered with snow									
	03/25/16	4.0	27	<0.1	<0.537	<10	<39.6	<10	<56.1	nd	nc
	06/21/16	2.8	19	<0.1	<0.537	<10	<39.6	<10	<56.1	nd	nc
	09/28/16	140	949	2.0	10.7	<10	<39.6	<10	<56.1	nd	nc
	12/20/16	2.0	14	<0.1	<0.537	<10	<39.6	<10	<56.1	nd	nc
	09/27/17	3,900	26,442	27	145	<10	<39.6	<10	<56.1	nd	nc
	11/29/17	11,000	74,580	400	2,148	160	634	<10	<56.1	nd	nc
	04/04/18	Unable to collect sample; well tubing filled with water									
	06/25/18	130,000	881,400	5400	28,998	2400	9,504	<10	<56.1	2817	nc
	07/31/18	61,000	413,580	2800	15,036	1200	4,752	<10	<56.1	nd	nc
	09/26/18	37	250	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	12/06/18	Unable to collect sample; well covered with snow									
	03/28/19	Unable to collect sample; well covered with snow and ice									
	06/04/19	Unable to collect sample; well box filled with water									
	09/13/19	900	6,100	85	460	32	130	<0.2	<0.49	9.39	30.78
	12/20/19	Well covered with snow									
	03/26/20	Unable to sample; covered in snow/ice									
	06/29/20	Not Sampled									
	08/12/20	18	122	0.65	3.5	<0.2	<0.79	<0.2	<0.49	47.54	112.2
	09/24/20	50	340	5.0	27	<0.2	<0.79	<0.2	<0.49	21.7	53
	11/20/20	1.3	8.8	<0.2	<1.1	<0.2	<0.79	<0.2	<0.49	nd	nd
	03/25/21	2.3	16	<0.2	<1.1	<10	<40	<25	<10	10	17
	06/28/21	1.7	12	<0.2	<1.1	<10	<40	<25	<10	13	46
	09/24/21	**0.58**	**3.9**	**<0.2**	**<1.1**	**<10**	**<40**	**<25**	**<10**	**nd**	**nd**
VP-4	04/09/10	nd	nd	nd	nd	nd	nd	nd	nd	nd	nc
	09/08/10	nd	nd	nd	nd	nd	nd	nd	nd	nd	nc
	12/16/10	unable to sample - water in well									
	05/11/11	unable to sample - water in well									
	09/29/11	47	318.7	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	12/09/11	22.1	149.8	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc

Table 4
Summary of Historical VP Shallow Soil Vapor Analytical Data
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Sample ID	Sample Date	PCE		TCE		cis-1,2-DCE		Tracer Gas		Other VOCs	
		(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m3)
VP-4 (cont.)	03/29/12	<1.0	<6.78	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	06/08/12	54.3	368.2	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	09/13/12	<1.0	<6.78	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	12/17/12	Unable to collect sample; well covered with snow									
	02/14/13	1.38	9.36	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	06/25/13	Sample Collected - Sample Holding Time Expired, not analyzed									
	09/30/13	4,300	29,154	64	344	26	103	<1.2	<6.74	21	nc
	12/10/13	16	108	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	03/06/14	<10	<67.8	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	06/26/14	340	2,305	<10	<53.7	<10	<39.6	<10	<56.1	12	nc
	09/17/14	<10	<67.8	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	12/16/14	2.5	17	0.10	0.54	<10	<39.6	<10	<56.1	nd	nc
	03/31/15	1.1	7.5	<0.030	<0.016	<10	<39.6	<10	<56.1	nd	nc
	06/12/15	<0.01	<0.0678	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	09/11/15	33	224	0.78	4.19	<10	<39.6	<10	<56.1	nd	nc
	12/18/15	Unable to collect sample; well covered with snow									
	03/25/16	1.5	10.2	<0.1	<0.537	<10	<39.6	<10	<56.1	nd	nc
	06/21/16	70	475	1.6	8.59	<10	<39.6	<10	<56.1	nd	nc
	09/28/16	88	597	<0.1	<0.537	<10	<39.6	<10	<56.1	nd	nc
	12/20/16	0.69	5	<0.1	<0.537	<10	<39.6	<10	<56.1	nd	nc
	09/27/17	1,300	8,814	3.9	20.9	<10	<39.6	<10	<56.1	nd	nc
	11/29/17	190	1,288	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	04/04/18	Unable to collect sample; well tubing filled with water									
	06/25/18	Unable to collect sample; well plugged									
	07/31/18	Unable to collect sample; well plugged									
	09/26/18	Unable to collect sample; unable to locate well; well buried									
	12/06/18	Unable to collect sample; unable to locate well; well buried									
	03/28/19	Unable to collect sample; unable to locate well; well buried with snow									
	06/04/19	Unable to locate well due to new landscaping									
	09/13/19	Unable to locate well due to new landscaping									
	12/20/19	Unable to locate well due to new landscaping									
	03/26/20	Unable to locate well due to new landscaping									
	06/29/20	Not Sampled									
	08/12/20	Unable to locate well due to new landscaping									
	09/24/20	Unable to locate well due to new landscaping									
	11/20/20	Unable to locate well due to landscaping									
	03/25/21	Unable to locate well due to landscaping									
	06/28/21	Unable to locate well due to landscaping									
	09/24/21	**Unable to locate well due to landscaping**									

Table 4
Summary of Historical VP Shallow Soil Vapor Analytical Data
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Sample ID	Sample Date	PCE		TCE		cis-1,2-DCE		Tracer Gas		Other VOCs	
		(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m3)
VP-5	04/09/10	12	81.4	nd	nd	15	59.44	nd	nd	nd	nc
	09/08/10	nd	nd	nd	nd	nd	nd	nd	nd	nd	nc
	12/16/10	63	427.1	nd	nd	62	246	nd	nd	nd	nc
	05/11/11	unable to sample - water in well									
	09/29/11	2,130	14,441	15	81	<1.0	<3.96	<1.0	<5.61	15.8	nc
	12/09/11	41.5	281.4	1.57	84	8.54	34	<1.0	<5.61	nd	nc
	03/29/12	93.1	631.2	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	332.3	nc
	06/08/12	393	2,665	<1.0	<5.37	230	911	<1.0	<5.61	23.0	nc
	09/13/12	390	2,644	40	215	420	1,663	<1.0	<5.61	40	nc
	12/17/12	Unable to collect sample; well box filled with ice									
	02/14/13	Unable to collect sample; well box filled with ice									
	06/25/13	Sample Collected - Sample Holding Time Expired, not analyzed									
	09/30/13	3,700	25,000	480	2,578	2,500	9,900	<13	<74	505	nc
	12/10/13	Not Sampled - not accessible									
	03/06/14	62	420	<10	<53.7	39	154	<10	<56.1	nd	nc
	06/26/14	540	3,661	52	279	0.27	1.07	<10	<56.1	nd	nc
	09/17/14	Unable to Collect Sample - Wellhead Damaged									
	12/16/14	Unable to Collect Sample - Wellhead Damaged									
	03/31/15	38	258	6.6	35	50	198	<10	<56.1	13	nc
	06/12/15	0.24	1.63	32	172	250	990	<10	<56.1	nd	nc
	09/11/15	150	1,017	19	102	120	475	<10	<56.1	22	nc
	12/18/15	15	102	0.73	3.9	<10	<39.6	<10	<56.1	26	nc
	03/25/16	130	881	5.1	27.4	84	333	<10	<56.1	nd	nc
	06/21/16	230	1,559	29	156	230	911	<10	<56.1	nd	nc
	09/28/16	410	2,780	54	290	430	1,703	<10	<56.1	nd	nc
	12/20/16	Unable to collect sample; well frozen									
	09/27/17	1,000	6,780	29	156	150	594	<10	<56.1	35	nc
	11/29/17	550	3,729	<10	<53.7	92	364	<10	<56.1	12	nc
	04/04/18	320	2,170	8.3	45	43	170	<10	<56.1	nd	nc
	06/25/18	19,000	128,820	200	1,074	340	1,346	<10	<56.1	125	nd
	07/31/18	1,100	7,458	41	220	270	1,069	<10	<56.1	70	nd
	09/26/18	<10	<68	<10	<53.7	<10	<39.6	<10	<56.1	10	38

Table 4
Summary of Historical VP Shallow Soil Vapor Analytical Data
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Sample ID	Sample Date	PCE		TCE		cis-1,2-DCE		Tracer Gas		Other VOCs	
		(ppbV)	($\mu g/m^3$)	(ppbV)	($\mu g/m^3$)	(ppbV)	($\mu g/m^3$)	(ppbV)	($\mu g/m^3$)	(ppbV)	(µg/m3)
VP-5	12/06/18	Unable to collect sample; well frozen									
(cont.)	03/28/19	1.0	6.8	0.54	2.9	0.73	2.9	<0.2	na	3.9	17.1
	06/04/19	26	180	0.30	1.6	15	59	<0.2	<0.49	16	47
	09/13/19	340	2,300	31	170	110	440	<0.2	<0.49	11.52	36.06
	12/20/19	7.8	53	0.89	4.8	3.9	15	<0.2	<0.49	9.8	34
	03/26/20	6.8	46	<0.2	<1.1	<0.2	<0.79	<0.2	<0.49	20.4	57.8
	06/29/20	Not Sampled									
	08/12/20	3.5	24	0.52	2.8	0.71	2.8	<0.2	<0.49	53.62	139.83
	09/24/20	5.5	37	1.1	5.9	<0.2	<0.79	<0.2	<0.49	2.7	55
	11/20/20	4.3	29	<0.2	<1.1	<0.2	<0.79	<0.2	<0.49	nd	nd
	03/25/21	3.8	5.3	<0.2	<1.1	<10	<40	<10	<25	nd	nd
	06/28/21	5.9	40	1.6	9	<10	<40	<10	<25	nd	nd
	09/24/21	**11**	**72**	**2.3**	**13**	**11**	**44**	**<10**	**<25**	**nd**	**nd**
VP-6	04/09/10	28	189.8	nd	nd	nd	nd	nd	nd	nd	nc
	09/08/10	nd	nd	nd	nd	nd	nd	nd	nd	nd	nc
	12/16/10	nd	nd	nd	nd	nd	nd	nd	nd	98	nc
	05/11/11	nd	nd	nd	nd	nd	nd	nd	nd	nd	nc
	09/29/11	<1.0	<6.78	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	12/09/11	1.44	9.8	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	03/29/12	1.77	12.0	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	06/08/12	39.3	266.5	<1.0	<5.37	4.95	20	<1.0	<5.61	5.85	nc
	09/13/12	50	339.0	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	12/17/12	Unable to collect sample; well covered with snow									
	02/14/13	Unable to collect sample; well box filled with ice									
	06/25/13	Sample Collected - Sample Holding Time Expired, not analyzed									
	09/30/13	93	631	6.3	34	21	83	<1.3	<7.5	61.5	nc
	12/10/13	<10	<67.8	<10	<53.7	<10	<39.6	<10	<56.1	11	nc
	03/06/14	Unable to collect sample; well box filled with ice									
	06/26/14	Unable to collect sample; too much vacuum on well									
	09/17/14	Unable to Collect Sample - Obstruction in Well									
	12/16/14	Unable to Collect Sample - Obstruction in Well									
	03/31/15	12	81	0.059	0.317	<10	<39.6	<10	<56.1	18	nc
	06/12/15	0.60	4.1	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	09/11/15	460	3,119	2.1	11	<10	<39.6	<10	<56.1	nd	nc
	12/18/15	160	1,085	0.50	2.69	<10	<39.6	<10	<56.1	nd	nc

Table 4
Summary of Historical VP Shallow Soil Vapor Analytical Data
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Sample ID	Sample Date	PCE		TCE		cis-1,2-DCE		Tracer Gas		Other VOCs	
		(ppbV)	(µg/m³)	(ppbV)	(µg/m³)	(ppbV)	(µg/m³)	(ppbV)	(µg/m³)	(ppbV)	(µg/m3)
VP-6 (cont.)	03/25/16	76	515	0.83	4.5	<10	<39.6	<10	<56.1	nd	nc
	06/21/16	480	3,254	2.1	11.3	<10	<39.6	<10	<56.1	nd	nc
	09/28/16	290	1,966	<0.1	<0.537	<10	<39.6	<10	<56.1	nd	nc
	12/20/16	Unable to collect sample; well frozen									
	09/27/17	790	5,356	1.1	5.9	<10	<39.6	<10	<56.1	nd	nc
	11/29/17	340	2,305	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	04/04/18	77	522	0.31	1.7	<10	<39.6	<10	<56.1	nd	nc
	06/25/18	8600	58,308	60	322.2	24	95	<10	<56.1	16	nc
	07/31/18	1900	12,882	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	09/26/18	17	110	<10	<53.7	<10	<39.6	<10	<56.1	26	90
	12/06/18	19	130	<10	<53.7	<10	<39.6	<10	<56.1	73	152
	03/28/19	11	75	0.55	3.0	<0.2	nd	<0.2	nd	1.12	4.32
	06/04/19	61	410	<0.2	<1.1	<0.2	<0.79	<0.2	<0.49	13	38
	09/13/19	1,800	12,000	6	32	<0.2	<0.79	<0.2	<0.49	11.7	42
	12/20/19	Unable to sample; tubing frozen inside well box									
	03/26/20	260	1,800	<0.2	<1.1	<0.2	<0.79	<0.2	<0.49	40.6	145.9
	06/29/20	Not Sampled									
	08/12/20	45	300	1.6	8.6	0.27	1.1	<0.2	<0.49	16.39	43.51
	09/24/20	32	220	1.1	5.9	<0.2	<0.79	<0.2	<0.49	9	22.2
	11/20/20	Unable to collect sample - well frozen									
	03/25/21	90	610	2.0	11	<10	<40	<10	<25	130	320
	06/28/21	130	880	2.3	13	<10	<40	<10	<25	nd	nd
	09/24/21	**78**	**530**	**1.3**	**6.9**	**<10**	**<40**	**<10**	**<25**	**19**	**46**
VP-7	04/09/10	nd	nd	nd	nd	nd	nd	nd	nd	nd	nc
	09/08/10	64	433.9	nd	nd	nd	nd	nd	nd	nd	nc
	12/16/10	32	217.0	nd	nd	nd	nd	nd	nd	247	nc
	05/11/11	73	494.9	nd	nd	nd	nd	nd	nd	nd	nc
	09/29/11	2.0	13.6	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	12/09/11	<1.0	<6.78	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	16.1	nc
	03/29/12	<1.0	<6.78	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	06/08/12	125	847.5	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	09/13/12	60	406.8	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	12/17/12	Unable to collect sample; well box filled with ice									
	02/14/13	5.03	34.1	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	06/25/13	Sample Collected - Sample Holding Time Expired, not analyzed									

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Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Sample ID	Sample Date	PCE		TCE		cis-1,2-DCE		Tracer Gas		Other VOCs	
		(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m3)
VP-7	09/30/13	110	746	<1.3	<6.8	2.5	10	<1.3	<7.1	27.2	nc
(cont.)	12/10/13	<10	<67.8	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	03/06/14	<10	<67.8	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	06/26/14	<10	<67.8	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	09/17/14	<10	<67.8	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	12/16/14	0.65	4.4	<0.03	<0.016	<10	<39.6	<10	<56.1	nd	nc
	03/31/15	4.6	31.2	0.054	0.290	<10	<39.6	<10	<56.1	nd	nc
	06/12/15	0.012	0.081	<10	<53.7	<1.0	<3.96	<10	<56.1	nd	nc
	09/11/15	1.5	10.2	<0.10	<0.537	<10	<39.6	<10	<56.1	nd	nc
	12/18/15	Unable to collect sample; well covered with snow									
	03/25/16	3.7	25	<0.10	<0.537	<10	<39.6	<10	<56.1	nd	nc
	06/21/16	9.4	64	<0.10	<0.537	<10	<39.6	<10	<56.1	nd	nc
	09/28/16	51	346	<0.10	<0.537	<10	<39.6	<10	<56.1	nd	nc
	12/20/16	0.64	4.3	<0.10	<0.537	<10	<39.6	<10	<56.1	nd	nc
	09/27/17	130	881	<0.10	<0.537	<10	<39.6	<10	<56.1	nd	nc
	11/29/17	46	312	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	04/04/18	2.6	18	<0.10	<0.537	<10	<39.6	<10	<56.1	nd	nc
	06/25/18	6,000	40,680	31	166.47	<10	<39.6	<10	<56.1	nd	nc
	07/31/18	200	1,356	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	09/26/18	34	230	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	12/06/18	6.0	41	<0.2	<1.1	<0.2	<0.80	<0.2	<1.1	94	227.9
	03/28/19	Unable to collect sample; well box filled with water									
	06/04/19	Unable to collect sample; well box filled with water									
	09/13/19	110	750	0.22	1.2	<0.2	<0.79	<0.2	<0.49	14.8	39.8
	12/20/19	7.0	47	<0.2	<1.1	<0.2	<0.79	<0.2	<0.49	0.7	2.4
	03/26/20	0.35	2.4	<0.2	<1.1	<0.2	<0.79	<0.2	<0.49	7.6	28.3
	06/29/20	Not Sampled									
	08/12/20	2.2	15	<0.2	<1.1	<0.2	<0.79	<0.2	<0.49	6.0	15.0
	09/24/20	7.7	52	<0.2	<1.1	<0.2	<0.79	<0.2	<0.49	20.3	48.8
	11/20/20	8.3	56	<0.2	<1.1	<0.2	<0.79	<0.2	<0.49	nd	nd
	03/25/21	0.39	2.6	<0.2	<1.1	<10	<40	<10	<25	22	53
	06/28/21	4.0	27	<0.2	<1.1	<10	<40	<10	<25	nd	nd
	09/24/21	**5.6**	**38**	**<0.2**	**<1.1**	**<10**	**<40**	**<10**	**<25**	**nd**	**nd**

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Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Sample ID	Sample Date	PCE		TCE		cis-1,2-DCE		Tracer Gas		Other VOCs	
		(ppbV)	(μg/m^3)	(ppbV)	(μg/m^3)	(ppbV)	(μg/m^3)	(ppbV)	(μg/m^3)	(ppbV)	(μg/m3)
VP-8	04/09/10	34	230.5	nd	nd	nd	nd	nd	nd	nd	nc
	09/08/10	133	901.7	nd	nd	nd	nd	nd	nd	nd	nc
	12/16/10	318	2,156	nd	nd	nd	nd	nd	nd	nd	nc
	05/11/11	281	1,905	nd	nd	nd	nd	173	971.3	nd	nc
	09/29/11	<1.0	<6.78	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	12/09/11	2.01	13.6	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	03/29/12	39.9	270.5	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	3.33	nc
	06/08/12	537	3,641	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	09/13/12	30	203.4	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	11/19/12	Unable to collect sample; well covered with snow									
	02/14/13	17.8	121	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	06/25/13	Sample Collected - Sample Holding Time Expired, not analyzed									
	09/30/13	580	3,932	5.9	32	<2.2	<8.6	<1.2	<6.74	127.7	nc
	12/10/13	<10	<67.8	<10	<53.7	<10	<39.6	<10	<56.1	25	nc
	03/06/14	<10	<67.8	<10	<53.7	<10	<39.6	<10	<56.1	27	nc
	06/26/14	100	678	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	09/17/14	38	258	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	12/16/14	12	81	0.65	3.49	<10	<39.6	<10	<56.1	nd	nc
	03/31/15	3.2	22	0.72	3.87	<10	<39.6	<10	<56.1	25	nc
	06/12/15	<0.01	<0.0678	<10	<53.7	<10	<39.6	<10	<56.1	95	nc
	09/11/15	44	298	0.75	4.03	<10	<39.6	<10	<56.1	11	nc
	12/18/15	Unable to collect sample; well covered with snow									
	03/25/16	9.3	63	0.24	1.29	<10	<39.6	<10	<56.1	nd	nc
	06/21/16	97	658	0.81	4.35	<10	<39.6	<10	<56.1	nd	nc
	09/28/16	78	529	<0.10	<0.537	<10	<39.6	<10	<56.1	nd	nc
	12/20/16	0.38	2.6	<0.10	<0.537	<10	<39.6	<10	<56.1	nd	nc
	09/27/17	260	1,763	0.89	4.78	<10	<39.6	<10	<56.1	nd	nc
	11/27/17	46	312	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	04/04/18	3.7	25	<0.10	<0.537	<10	<39.6	<10	<56.1	nd	nc
	06/25/18	2,600	17,628	15	81	43	159	<10	<56.1	nd	nc
	07/31/18	120	814	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	09/26/18	31	210	<10	<53.7	<10	<39.6	<10	<56.1	20	69
	12/06/18	5.3	36	0.43	2.3	<0.2	<0.80	<0.20	<1.1	157.05	393.42
	03/28/19	1.0	6.8	0.49	2.6	<0.2	nd	<0.2	nd	2.28	9
	06/04/19	23	160	<0.2	<1.1	<0.2	<0.79	<0.2	<0.49	26	77
	09/13/19	210	1,400	5.7	31	<0.2	<0.79	<0.2	<0.49	10.95	29.6

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Sample ID	Sample Date	PCE		TCE		cis-1,2-DCE		Tracer Gas		Other VOCs	
		(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m3)
VP-8 (cont.)	12/20/19	8.4	57	0.32	1.7	<0.2	<0.79	<0.2	<0.49	1.2	4.3
	03/26/20	Unable to sample; tube full of water									
	06/29/20	Not Sampled									
	08/12/20	3.8	26	0.39	2.1	<0.2	<0.79	<0.2	<0.49	6.62	17.7
	09/24/20	5	34	0.68	3.7	<0.2	<0.79	<0.2	<0.49	38.8	97
	11/20/20	110	750	1.2	6.5	<0.2	<0.79	<0.2	<0.49	nd	nd
	03/25/21	18	120	0.22	1.2	<10	<40	<10	<25	nd	nd
	06/28/21	90	610	1.5	8.2	<10	<40	<10	<25	nd	nd
	09/24/21	**57**	**390**	**0.89**	**4.9**	**<10**	**<40**	**<10**	**<25**	**nd**	**nd**
VP-9	04/09/10	29	196.6	nd	nd	nd	nd	nd	nd	nd	nc
	09/08/10	7,530	51,053	nd	nd	nd	nd	nd	nd	nd	nc
	12/16/10	1,610	10,916	nd	nd	nd	nd	nd	nd	111	nc
	05/11/11	4,480	30,374	nd	nd	nd	nd	nd	nd	nd	nc
	09/29/11	<1.0	<6.78	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	60	nc
	12/09/11	48.2	326.8	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	03/29/12	1,270	8,611	3.57	19	<1.0	<3.96	<1.0	<5.61	nd	nc
	06/08/12	680	4,610	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	09/13/12	190	1,288	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	12/17/12	Unable to collect sample; well box filled with ice									
	02/14/13	Unable to collect sample; well box filled with ice									
	06/25/13	Sample Collected - Sample Holding Time Expired, not analyzed									
	09/30/13	3,800	25,764	<12	<67	<12	<49	<12	<70	nd	nc
	12/10/13	1,300	8,814	<10	<53.7	<10	<39.6	<10	<56.1	23	nc
	03/06/14	560	3,797	<10	<53.7	<10	<39.6	<10	<56.1	10	nc
	06/26/14	1,300	8,814	<10	<53.7	<10	<39.6	<10	<56.1	10	nc
	09/17/14	2,400	16,272	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	12/16/14	13	88	<0.03	<0.016	<10	<39.6	<10	<56.1	nd	nc
	03/31/15	520	3,526	2.4	13	<10	<39.6	<10	<56.1	13	nc
	06/12/15	0.94	6.4	<10	<53.7	<10	<39.6	<10	<56.1	33	nc
	09/11/15	450	3,051	0.37	2.0	<10	<39.6	<10	<56.1	nd	nc
	12/18/15	110	746	<0.10	<0.537	<10	<39.6	<10	<56.1	nd	nc
	03/25/16	270	1,831	0.13	0.70	<10	<39.6	<10	<56.1	nd	nc
	06/21/16	630	4,271	0.73	3.92	<10	<39.6	<10	<56.1	nd	nc
	09/28/16	670	4,543	<0.10	<0.537	<10	<39.6	<10	<56.1	nd	nc

Table 4
Summary of Historical VP Shallow Soil Vapor Analytical Data
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Sample ID	Sample Date	PCE		TCE		cis-1,2-DCE		Tracer Gas		Other VOCs	
		(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m3)
VP-9	12/20/16	Unable to collect sample; well frozen									
(cont.)	09/27/17	580	3,932	<0.10	<0.537	<10	<39.6	<10	<56.1	nd	nc
	11/29/17	170	1,153	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	04/04/18	44	298	<0.10	<0.537	<10	<39.6	<10	<56.1	nd	nc
	06/25/18	3,100	21,018	21	113	<10	<39.6	<10	<56.1	25	nc
	07/31/18	1,600	10,848	<10	<53.7	<10	<39.6	<10	<56.1	12	nc
	09/26/18	24	163	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	12/06/18	74	500	<10	<53.7	<10	<39.6	<10	<56.1	66	140
	03/28/19	Unable to collect sample; well covered with ice									
	06/04/19	55	370	<0.2	<1.1	<0.2	<0.79	<0.2	<0.49	16	47
	09/13/19	3,300	22,000	2.4	13	<0.2	<0.79	<0.2	<0.49	20.95	73.2
	12/20/19	18	120	<0.2	<1.1	<0.2	<0.79	<0.2	<0.49	0.83	3.5
	03/26/20	3.0	20	<0.3	<1.2	<0.2	<0.79	<0.2	<0.49	23.2	82.3
	06/29/20	Not Sampled									
	08/12/20	83	560	0.84	4.5	<0.2	<0.79	<0.2	<0.49	9.48	23.8
	09/24/20	100	680	1.4	7.5	<0.2	<0.79	<0.2	<0.49	nd	nd
	11/20/20	71	480	<0.2	<1.1	<0.2	<0.79	<0.2	<0.49	nd	nd
	03/25/21	14	95	0.29	1.6	<10	<40	<10	<25	<10	<150
	06/28/21	98	670	0.53	2.9	<10	<40	<10	<25	nd	nd
	09/24/21	**8.0**	**55**	**<0.2**	**<1.1**	**<10**	**<40**	**<10**	**<25**	**nd**	**nd**
VP-10	04/09/10	1,980	13,424	47	252.4	50	198.1	nd	nd	nd	nc
	09/08/10	132	895.0	nd	nd	nd	nd	nd	nd	nd	nc
	12/16/10	43	291.5	nd	nd	nd	nd	nd	nd	183	nc
	05/11/11	132	895.0	nd	nd	nd	nd	nd	nd	nd	nc
	09/29/11	114	772.9	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	12/09/11	9.34	63.3	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	03/29/12	<1.0	<6.78	3.57	19	<1.0	<3.96	<1.0	<5.61	nd	nc
	06/08/12	416	2,820	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	09/13/12	290	1,966	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	12/17/12	Unable to collect sample; well box filled with ice									
	02/14/13	13.6	92.2	<1.0	<5.37	<1.0	<3.96	<1.0	<5.61	nd	nc
	06/25/13	Sample Collected - Sample Holding Time Expired, not analyzed									

Table 4
Summary of Historical VP Shallow Soil Vapor Analytical Data
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Sample ID	Sample Date	PCE		TCE		cis-1,2-DCE		Tracer Gas		Other VOCs	
		(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m3)
VP-10	09/30/13	670	4,543	<2.5	<14	<2.5	<10	<2.5	<14	12.7	nc
(cont.)	12/10/13	70	475	<10	<53.7	<10	<39.6	<10	<56.1	13	nc
	03/06/14	38	258	<10	<53.7	<10	<39.6	<10	<56.1	18	nc
	06/26/14	210	1,424	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	09/17/14	160	1,085	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	12/16/14	24	163	<0.03	<0.016	<10	<39.6	<10	<56.1	nd	nc
	03/31/15	17	115.3	0.56	3.01	<10	<39.6	<10	<56.1	13	nc
	06/12/15	0.01	0.07	<10	<53.7	<10	<39.6	<10	<56.1	30	nc
	09/11/15	7.8	52.9	<0.10	<0.537	<10	<39.6	<10	<56.1	nd	nc
	12/18/15	Unable to collect sample; well covered with snow									
	03/25/16	6.1	41	<0.10	<0.537	<10	<39.6	<10	<56.1	nd	nc
	06/21/16	39	264	<0.10	<0.537	<10	<39.6	<10	<56.1	nd	nc
	09/28/16	78	529	<0.10	<0.537	<10	<39.6	<10	<56.1	nd	nc
	12/20/16	7.9	54	<0.10	<0.537	<10	<39.6	<10	<56.1	nd	nc
	09/27/17	67	454	<0.10	<0.537	<10	<39.6	<10	<56.1	nd	nc
	11/29/17	210	1,424	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	04/04/18	61	414	<0.10	<0.537	<10	<39.6	<10	<56.1	nd	nc
	06/25/18	1,300	8,814	<0.10	<0.537	<10	<39.6	<10	<56.1	12	nc
	07/31/18	750	5,085	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	09/26/18	<10	<68	<10	<53.7	<10	<39.6	<10	<56.1	nd	nc
	12/06/18	1.3	8.8	0.23	1.2	<0.2	<0.80	<0.20	<1.1	200.93	507.06
	03/28/19	0.45	3.0	<0.2	nd	<0.2	nd	<0.2	nd	0.76	3.63
	06/04/19	5.5	37	<0.2	<1.1	<0.2	<0.79	<0.2	<0.49	20	59
	09/13/19	120	810	0.78	4.2	<0.2	<0.79	<0.2	<0.49	11.61	42
	12/18/19	6.8	46	<0.2	<1.1	<0.2	<0.79	<0.2	<0.49	1.04	3.6
	03/26/20	1.7	12	<0.2	<1.1	<0.2	<0.79	<0.2	<0.49	10.5	38.4
	06/29/20	Not Sampled									
	08/12/20	5.3	36	<0.2	<1.1	<0.2	<0.79	<0.2	<0.49	47.82	124.36
	09/24/20	8.5	58	<0.2	<1.1	<0.2	<0.79	<0.2	<0.49	44.3	108
	11/20/20	3.8	26	<0.2	<1.1	<0.2	<0.79	<0.2	<0.49	nd	nd
	03/25/21	1.1	7.5	<0.2	<1.1	<10	<40	<10	<25	nd	nd
	06/28/21	4.3	29	<0.2	<1.1	<10	<40	<10	<25	nd	nd
	09/24/21	**3.5**	**23**	**<0.2**	**<1.1**	**<10**	**<40**	**<10**	**<25**	**nd**	**nd**

Table 4
Summary of Historical VP Shallow Soil Vapor Analytical Data
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Sample ID	Sample Date	PCE		TCE		cis-1,2-DCE		Tracer Gas		Other VOCs	
		(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m^3)	(ppbV)	(µg/m3)
VE-2	03/25/21	3.7	5.2	<0.2	<1.1	<10	<40	<10	<25	67	160
	06/28/21	5.7	39	<0.2	<1.1	<10	<40	<10	<25	nd	nd
	09/24/21	**61**	**410**	**1.1**	**7.4**	<10	<40	<10	<25	nd	nd

Notes:
For other VOCs and individual concentrations - See Table 5
VP = vapor probe
PCE = Tetrachloroethene (atomic weight = 165.82 g/mol)
TCE = Trichloroethene (atomic weight = 131.39 g/mol)
cis-1,2-DCE = cis-1,2-Dichloroethene (atomic weight = 96.95 g/mol)
Tracer Gas = Freon 11 or Isopropyl Alcohol
VOCs = Volatile Organic Compounds
ppbV = parts per billion by volume
µg/m3 = micrograms per cubic meter
g/mol = grams per mole
nc = Not calculated, as detection limit is based on atomic weight of a compound
nd = Not detected at or above detection limit for each respective compound
< = Not detected at or above the practical quantitation limit (PQL), which is indicated by value
NS = Not sampled due to snow and ice
Data prior to fourth quarter 2018 was compiled and reported by E2C Remediation, Inc.

TABLE 2: SUMMARY OF LABORATORY ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES- VOLATILE ORGANIC COMPOUNDS, THIRD QUARTER 2021 MONITORING REPORT (PES, 2021)

PES. 15 December 2021. Third Quarter 2021 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

Table 3
Summary of Laboratory Analytical Results for Groundwater Samples - Volatile Organic Compounds
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well/Location Identification	Sample Date	Notes	PCE (µg/L)	TCE (µg/L)	trans-1,2-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,1-DCE (µg/L)	VC (µg/L)	MC (µg/L)	1,1,1,2-Tetra (µg/L)	Chloroform (µg/L)	BDCM (µg/L)
LW-MW-1S	08/13/08		706	74.0	0.727	41.3	1.25	<0.50	<0.50	<0.50	na	na
	12/04/09		5,150	72.7	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	0.575	<0.500
	03/23/10		1,850	<0.500	1.41	339	7.71	<0.500	<0.500	0.795	<0.500	<0.500
	03/23/10	dup.	2,000	<0.500	1.23	314	7.40	<0.500	<0.500	0.710	<0.500	<0.500
	06/15/10		4,920	8.90	<0.500	6.48	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	09/08/10		547	<0.500	<0.500	3.71	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	12/16/10		109	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	05/11/11		5,380	21.4	<0.500	12.7	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	09/29/11		93	4.0	<0.50	2.8	<0.50	<0.50	61	<0.50	4.4	<0.50
	12/09/11		841	5.45	<0.500	2.35	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	03/29/12		1,540	4.83	2.85	5.56	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	03/29/12	dup.	1,300	3.77	2.15	6.26	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	06/08/12		95.5	2.06	<0.500	<0.500	2.23	<0.500	<0.500	<0.500	<0.500	<0.500
	08/21/12		13.2	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	08/21/12	CLS-Split	11.0	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	08/21/12	CRWQCB	5.4	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	11/19/12		7.98	3.000	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	03/11/13		5.94	1.68	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	07/30/13		450	7.5	<0.500	3.8	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	07/30/13	dup.	550	7.7	<0.500	4.0	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	09/30/13		770	8.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/10/13		4.8	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/06/14		2.8	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/26/14		130	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/17/14		2.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/16/14		22	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/26/15		1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/12/15		16	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/11/15		150	3.1	<0.50	<0.50	<0.50	<0.50	0.90	<0.50	<0.50	<0.50
	12/18/15		35	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/18/15	dup.	37	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/25/16		66	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/21/16		110	1.1	<0.50	0.67	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/28/16		35	0.77	<0.50	0.55	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Table 3
Summary of Laboratory Analytical Results for Groundwater Samples - Volatile Organic Compounds
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well/Location Identification	Sample Date	Notes	PCE (µg/L)	TCE (µg/L)	trans-1,2-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,1-DCE (µg/L)	VC (µg/L)	MC (µg/L)	1,1,1,2-Tetra (µg/L)	Chloroform (µg/L)	BDCM (µg/L)
LW-MW-1S	12/20/16		56	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
(cont.)	05/02/17		72	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/27/17		43	0.51	<0.50	0.67	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/21/17		11	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	04/04/18		93	1.9	<0.50	4.9	<0.50	1.5	<0.50	<0.50	<0.50	<0.50
	06/25/18		84	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/26/18		110	0.57	<0.50	0.92	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/06/18		53	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/28/19		12	<0.50	<0.50	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/03/19		2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/19		1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/20/19		36	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	<0.50	<0.50	<0.50
	03/26/20		21	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/29/20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/12/20		7.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/20		11	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	11/19/20		4.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/23/21		12	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/18/21		6.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/21		**21**	**0.86**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
LW-MW-1D	05/02/17		65	1.8	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	05/02/17	dup.	66	1.8	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/27/17		210	4.7	<0.50	2.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/21/17		430	17	<0.50	6.1	<0.50	1.2	<0.50	<0.50	<0.50	<0.50
	04/04/18		67	2	<0.50	1.8	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/25/18		210	<0.50	<0.50	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/26/18		190	4.1	<0.50	4.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/06/18		55	2.2	<0.50	1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/28/19		23	0.75	<0.50	1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/28/19	dup.	25	0.73	<0.50	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/03/19		110	9.8	<0.50	12	<0.50	2.1	<0.50	<0.50	<0.50	<0.50
	09/24/19		130	7.6	<0.50	3.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/20/19		44	0.52	<0.50	3.5	<0.50	<0.50	2.2	<0.50	<0.50	<0.50
	03/26/20		24	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Table 3
Summary of Laboratory Analytical Results for Groundwater Samples - Volatile Organic Compounds
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well/Location Identification	Sample Date	Notes	PCE (µg/L)	TCE (µg/L)	trans-1,2-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,1-DCE (µg/L)	VC (µg/L)	MC (µg/L)	1,1,1,2-Tetra (µg/L)	Chloroform (µg/L)	BDCM (µg/L)
LW-MW-1D	06/29/20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(cont.)	08/12/20		27	2.3	<0.50	0.62	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/20		9.2	0.98	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	11/19/20		14	1.8	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/23/21		140	5.6	<0.50	0.62	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/18/21		110	4.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/21		**200**	**7.4**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
LW-MW-2S	08/13/08		3.00	2.52	<0.50	31.0	<0.50	<0.50	<0.50	<0.50	na	na
	12/04/09		8.29	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	03/23/10		5.9	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	06/15/10		98.7	4.39	<0.500	4.07	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	09/08/10		65.7	<0.500	<0.500	3.14	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	12/16/10		21.3	1.09	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	05/11/11		376	11.7	<0.500	5.04	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	09/29/11		100	14	<0.50	4.6	<0.50	<0.50	51	<0.50	1.6	<0.50
	12/09/11		63.8	7.67	<0.500	1.89	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	12/09/11	dup.	74.4	8.61	<0.500	2.41	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	03/29/12		23.2	3.18	1.09	2.14	<0.500	<0.500	<0.500	1.47	<0.500	<0.500
	06/08/12		84.8	6.94	<0.500	<0.500	2.69	<0.500	<0.500	<0.500	<0.500	<0.500
	08/21/12		44.1	3.22	<0.500	1.67	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	08/21/12	CLS-Split	48	2.70	<0.500	1.20	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	08/21/12	CRWQCB	20.8	2.30	<0.500	1.10	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	11/19/12		1.38	<0.500	<0.500	0.877	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	03/11/13		1.11	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	07/30/13		67	2.5	<0.500	1.1	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	09/30/13		86	2.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/10/13		33	0.57	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/10/13	dup.	33	0.85	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/06/14		6.2	0.90	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/26/14		5.2	0.57	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/17/14		2.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/16/14		3.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/26/15		1.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/12/15		0.95	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/11/15		0.72	<0.50	<0.50	<0.50	<0.50	<0.50	0.79	<0.50	<0.50	<0.50

Table 3
Summary of Laboratory Analytical Results for Groundwater Samples - Volatile Organic Compounds
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well/Location Identification	Sample Date	Notes	PCE (µg/L)	TCE (µg/L)	trans-1,2-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,1-DCE (µg/L)	VC (µg/L)	MC (µg/L)	1,1,1,2-Tetra (µg/L)	Chloroform (µg/L)	BDCM (µg/L)
LW-MW-2S	12/18/15		1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
(cont.)	03/25/16		1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/25/16	dup.	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/21/16		1.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/28/16		1.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/20/16		2.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	05/02/17		2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/27/17		34	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/27/17	dup.	31	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/21/17		9.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	04/04/18		3.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/25/18		2.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/26/18		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/06/18		0.82	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/28/19	Not sampled - covered with snow and ice										
	06/03/19		1.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/03/19	dup.	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/19		0.95	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/19/19		0.99	<0.50	<0.50	<0.50	<0.50	<0.50	2.5	<0.50	<0.50	<0.50
	03/26/20	dup.	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/26/20		1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/29/20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/12/20		1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.14 J	<0.50
	09/24/20		0.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	11/19/20		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/23/21		0.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/18/21		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/21		**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
LW-MW-2D	05/02/17		7.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/27/17		5.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/21/17		5.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	04/04/18		16	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/25/18		27	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/26/18		18	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/06/18		17	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Table 3
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Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well/Location Identification	Sample Date	Notes	PCE (µg/L)	TCE (µg/L)	trans-1,2-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,1-DCE (µg/L)	VC (µg/L)	MC (µg/L)	1,1,1,2-Tetra (µg/L)	Chloroform (µg/L)	BDCM (µg/L)
LW-MW-2D (cont.)	03/28/19	Not sampled - covered with snow and ice										
	06/03/19		7.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/19		6.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/20/19		7.7	<0.50	<0.50	<0.50	<0.50	<0.50	8.5	<0.50	<0.50	<0.50
	03/26/20		5.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/29/20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/12/20		1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.53 J	<0.50
	09/24/20		0.87	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	11/19/20		1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/23/21		1.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/18/21		0.78	<0.50	<0.50	<0.50	<0.50	<0.50	5.9	<0.50	<0.50	<0.50
	09/24/21		**1.4**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
LW-MW-5S	08/13/08		85.1	3.50	<0.50	2.00	<0.50	<0.50	<0.50	<0.50	na	na
	12/04/09		<0.500	11.7	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	03/23/10		<0.500	26.5	<0.500	38.2	<0.500	3.22	<0.500	<0.500	<0.500	<0.500
	06/15/10		1,400	28.1	<0.500	29.0	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	09/08/10		480	11.0	<0.500	11.5	<0.500	<0.500	<0.500	<0.500	1.07	<0.500
	09/08/10	dup.	448	10.6	<0.500	11.3	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	12/16/10		Not sampled - covered with 5 feet of snow									
	05/11/11		625	2.74	<0.500	1.13	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	09/29/11		750	14	0.19	8.4	<0.50	<0.50	44	<0.50	<0.50	<0.50
	09/29/11	dup.	600	13	<0.50	6.7	<0.50	<0.50	37	<0.50	<0.50	<0.50
	12/09/11		964	23.6	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	03/29/12		225	4.81	2.23	4.04	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	06/08/12		931	37.6	<0.500	<0.500	37.8	<0.500	<0.500	<0.500	<0.500	<0.500
	08/21/12		5.06	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	08/21/12	CLS-Split	6.2	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	08/21/12	CRWQCB	3.1	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	11/19/12		6.99	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	03/11/13		3.72	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	03/11/13	dup.	2.57	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	07/30/13		59	1.7	<0.500	0.93	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	09/30/13		81	2.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/10/13		150	2.1	<0.50	0.82	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/06/14		2.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

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Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well/Location Identification	Sample Date	Notes	PCE (µg/L)	TCE (µg/L)	trans-1,2-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,1-DCE (µg/L)	VC (µg/L)	MC (µg/L)	1,1,1,2-Tetra (µg/L)	Chloroform (µg/L)	BDCM (µg/L)
LW-MW-5S	06/26/14		13	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
(cont.)	06/26/14	dup.	13	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/17/14		8.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/16/14		12	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/26/15		1.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/26/15	dup.	1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/12/15		3.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/11/15		6.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/18/15		34	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/25/16		180	3.3	<0.50	0.70	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/21/16		40	0.55	<0.50	<0.50	<0.50	<0.50	0.90	<0.50	<0.50	<0.50
	09/28/16		31	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/20/16		51	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/20/16	dup.	52	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	05/02/17		13	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/27/17		2.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/21/17		1.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/21/17	dup.	1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	04/04/18		4.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/25/18		1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/26/18		1.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/06/18		2.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/28/19	Not sampled - covered with snow and ice										
	06/03/19		1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/19		1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/19	dup.	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/19/19		1.8	<0.50	<0.50	<0.50	<0.50	<0.50	0.52	<0.50	<0.50	<0.50
	03/26/20	Not sampled - covered with snow and ice										
	06/29/20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/12/20		7.4	0.18 J	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.31 J	<0.50
	09/24/20		5.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	11/19/20		5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/23/21		1.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/18/21		4.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/21		**7.8**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**

Table 3
Summary of Laboratory Analytical Results for Groundwater Samples - Volatile Organic Compounds
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well/Location Identification	Sample Date	Notes	PCE (µg/L)	TCE (µg/L)	trans-1,2-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,1-DCE (µg/L)	VC (µg/L)	MC (µg/L)	1,1,1,2-Tetra (µg/L)	Chloroform (µg/L)	BDCM (µg/L)
LW-MW-5D	05/02/17		0.83	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/27/17		1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/21/17		0.64	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	04/04/18		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/25/18		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/26/18		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/06/18		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/28/19	Not sampled - covered with snow and ice										
	06/03/19		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/19		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/19/19		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/26/20	Not sampled - covered with snow and ice										
	06/29/20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/12/20		0.36 J	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.53 J	<0.50
	09/24/20		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	11/19/20		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/23/21		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/18/21		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/21		**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
LW-MW-9S	12/04/09		324	12.7	<0.500	19.0	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	03/23/10		174	<0.500	<0.500	7.78	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	06/15/10		162	7.57	<0.500	22.5	<0.500	<0.500	<0.500	<0.500	1.32	<0.500
	06/15/10	dup.	172	8.04	<0.500	24.5	<0.500	<0.500	<0.500	<0.500	1.29	<0.500
	09/08/10		2.18	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	12/16/10		89.8	4.64	<0.500	17.4	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	12/16/10	dup.	89.6	4.51	<0.500	18.4	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	05/11/11		30.6	0.509	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	09/29/11		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	64	<0.50	<0.50	<0.50
	12/09/11		7.64	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	03/29/12		1.15	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	06/08/12		0.66	<0.500	<0.500	0.596	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	08/21/12		<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	11/19/12		<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	03/11/13		<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	07/30/13		5.3	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500

Table 3
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Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well/Location Identification	Sample Date	Notes	PCE (µg/L)	TCE (µg/L)	trans-1,2-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,1-DCE (µg/L)	VC (µg/L)	MC (µg/L)	1,1,1,2-Tetra (µg/L)	Chloroform (µg/L)	BDCM (µg/L)
LW-MW-9S	09/30/13		4.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
(cont.)	12/10/13		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/06/14		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/26/14		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/17/14		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/16/14		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/26/15		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/12/15		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/11/15		0.54	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/18/15	Not sampled - covered by snow and ice										
	03/25/16		1.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/21/16		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/21/16	dup.	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.51	<0.50	<0.50	<0.50
	09/28/16		1.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/28/16	dup.	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/20/16		1.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	05/02/17		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.53	<0.50	<0.50	<0.50
	09/27/17		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/21/17		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	04/04/18		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/25/18		1.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/26/18		2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/06/18		2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/06/18	dup.	2.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/28/19		2.5	<0.50	<0.50	0.62	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/28/19	dup.	2.3	<0.50	<0.50	0.62	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/03/19		8.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/19		52	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/20/19		6.6	1.1	<0.50	2.2	<0.50	<0.50	1.7	<0.50	<0.50	<0.50
	03/26/20		1.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/29/20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/12/20		170	3.7 J	<5.0	2.3 J	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	09/24/20		16	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	11/19/20		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	03/23/21		110	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Table 3
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1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well/Location Identification	Sample Date	Notes	PCE (µg/L)	TCE (µg/L)	trans-1,2-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,1-DCE (µg/L)	VC (µg/L)	MC (µg/L)	1,1,1,2-Tetra (µg/L)	Chloroform (µg/L)	BDCM (µg/L)
LW-MW-9S	06/18/21		57	0.85	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
(cont.)	**09/24/21**		**190**	**4.70**	**<0.50**	**1.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
LW-MW-10S	12/04/09		15.8	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	12/04/09	dup.	10.6	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	03/23/10		1.04	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	06/15/10		63.8	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	09/08/10		23.7	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	12/16/10		7.57	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	2.09	<0.500
	05/11/11		8.59	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	4.93	<0.500
	09/29/11		13	0.18	<0.50	<0.50	<0.50	<0.50	56	<0.50	0.32	<0.50
	12/09/11		6.82	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	03/29/12		1.42	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	06/08/12		3.56	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	3.08	<0.500
	08/21/12		2.02	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	4.45	<0.500
	11/19/12		Well destroyed									
LW-MW-10SR	07/30/13		0.89	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	3.7	<0.500
	09/30/13		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.1	<1.0
	09/30/13	dup.	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.3	<1.0
	12/10/13		0.65	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	3.4	<0.50
	03/06/14		1.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.62	<0.50
	03/06/14	dup.	1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.63	<0.50
	06/26/14		0.84	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.9	<0.50
	09/17/14		0.84	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	4.1	0.88
	12/16/14		0.51	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	<0.50
	03/26/15		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/12/15		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/11/15		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.76	<0.50	<0.50	<0.50
	12/18/15		2.8	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/25/16		1.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/21/16		2.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/28/16		1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	2.5	<0.50
	12/20/16		2.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	05/02/17		0.74	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.71	<0.50

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Well/Location Identification	Sample Date	Notes	PCE (µg/L)	TCE (µg/L)	trans-1,2-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,1-DCE (µg/L)	VC (µg/L)	MC (µg/L)	1,1,1,2-Tetra (µg/L)	Chloroform (µg/L)	BDCM (µg/L)
LW-MW-10SR (cont.)	09/27/17		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.6	<0.50
	12/21/17		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	<0.50
	04/04/18		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	2.4	0.55
	06/25/18		1.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/26/18		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	2.7	<0.50
	12/06/18		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	4.4	0.70
	03/28/19		0.59	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/03/19		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/19		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.6	<0.50
	12/19/19		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	4.0	<0.50
	03/26/20		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	2.6	1.1
	06/29/20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/12/20		0.26 J	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	2.6	0.61
	09/24/20		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	2.3	0.60
	11/19/20		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/23/21		0.62	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/18/21		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/21		**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
LW-MW-11S	12/04/09		42.9	<0.50	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	03/23/10		32.5	1.08	<0.500	3.63	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	06/15/10		28.3	<0.500	<0.500	0.909	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	09/08/10		14.8	<0.50	<0.500	0.830	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	12/16/10		2.63	<0.50	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	05/11/11		1.33	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	09/29/11		0.68	0.27	<0.50	1.1	<0.50	<0.50	36	<0.50	<0.50	<0.50
	12/09/11		18.3	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	03/29/12		1.41	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	06/08/12		2.13	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	0.547	<0.500
	08/21/12		2.14	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	3.97	<0.500
	11/19/12		6.19	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	03/11/13		4.41	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	07/30/13		4.5	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	2.4	<0.500
	09/30/13		4.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.0	<1.0
	12/10/13		8.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	2.0	<0.50
	03/06/14		7.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.70	<0.50

Table 3
Summary of Laboratory Analytical Results for Groundwater Samples - Volatile Organic Compounds
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well/Location Identification	Sample Date	Notes	PCE (µg/L)	TCE (µg/L)	trans-1,2-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,1-DCE (µg/L)	VC (µg/L)	MC (µg/L)	1,1,1,2-Tetra (µg/L)	Chloroform (µg/L)	BDCM (µg/L)
LW-MW-11S (cont.)	06/26/14		3.8	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	<0.50
	09/17/14		4.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.71	<0.50
	12/16/14		2.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/16/14	dup.	2.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/26/15	Not sampled - Wellhead Damaged										
	06/12/15		0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.4	<0.50
	06/12/15	dup.	0.86	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	<0.50
	09/11/15		0.98	<0.50	<0.50	<0.50	<0.50	<0.50	0.76	<0.50	2.0	<0.50
	12/18/15		3.8	<0.50	<0.50	2.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/25/16		1.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/21/16		0.66	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/28/16		1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/20/16		0.68	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	05/02/17		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/27/17		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/21/17		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.4	<0.50
	04/04/18		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	04/04/18	dup.	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/25/18		1.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/26/18		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/06/18		1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.74	<0.50
	03/28/19		0.96	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/03/19		0.63	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/19		0.96	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/19/19		1.7	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	<0.50	<0.50	<0.50
	12/19/19	dup.	1.9	<0.50	<0.50	<0.50	<0.50	<0.50	4.6	<0.50	<0.50	<0.50
	03/26/20		1.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.89	<0.50
	06/29/20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/12/20	dup.	1.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	0.31 J
	08/12/20		1.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.6	0.31 J
	09/24/20		1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	<0.50
	09/24/20	dup.	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.4	<0.50
	11/19/20		1.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	11/19/20	dup.	1.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/23/21		1.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Table 3
Summary of Laboratory Analytical Results for Groundwater Samples - Volatile Organic Compounds
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well/Location Identification	Sample Date	Notes	PCE (µg/L)	TCE (µg/L)	trans-1,2-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,1-DCE (µg/L)	VC (µg/L)	MC (µg/L)	1,1,1,2-Tetra (µg/L)	Chloroform (µg/L)	BDCM (µg/L)
LW-MW-11S	03/23/21	dup.	0.62	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
(cont.)	06/18/21		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/18/21	dup.	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/21		**4.1**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
LW-MW-12S	12/04/09		10.7	<0.50	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	03/23/10		34.3	<0.50	<0.500	0.613	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	06/15/10		314	1.40	<0.500	1.46	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	09/08/10		824	<0.50	<0.500	4.31	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	12/16/10	Not sampled; covered with 12 feet of snow										
	05/11/11		105	0.651	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	05/11/11	dup.	95.4	0.586	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	09/29/11		23	0.35	<0.50	0.12	<0.50	<0.50	54	<0.50	<0.50	<0.50
	12/09/11		25.1	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	03/29/12	Not sampled; covered with 12-foot high pile of snow										
	06/08/12		7.89	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	08/21/12		2.45	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	11/19/12		<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	03/11/13	Not sampled; covered with high pile of snow										
	07/30/13		35	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	09/30/13		34	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/10/13	Not sampled - well covered with snow										
	03/06/14		2.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/26/14		6.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/17/14		3.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/16/14		5.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/26/15		0.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/12/15		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/11/15		1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/11/15	dup.	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	0.82	<0.50	<0.50	<0.50
	12/18/15	Not sampled - Covered by Snow and Ice										
	03/25/16		0.74	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/21/16		2.1	<0.50	<0.50	<0.50	<0.50	<0.50	0.56	<0.50	<0.50	<0.50
	09/28/16		4.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/20/16	Not sampled - well frozen										
	05/02/17		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Table 3
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Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well/Location Identification	Sample Date	Notes	PCE (µg/L)	TCE (µg/L)	trans-1,2-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,1-DCE (µg/L)	VC (µg/L)	MC (µg/L)	1,1,1,2-Tetra (µg/L)	Chloroform (µg/L)	BDCM (µg/L)
LW-MW-12S	09/27/17		0.96	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
(cont.)	12/21/17	Not sampled, snow pile prevented access										
	04/04/18	Not sampled, snow pile prevented access										
	06/25/18		0.97	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/25/18	dup.	0.82	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/26/18		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/26/18	dup.	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/06/18	Not sampled - covered with snow										
	03/28/19	Not sampled - covered with snow and ice										
	06/03/19		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/19		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/20/19	Not sampled - covered with snow and ice										
	03/26/20	Not sampled - covered with snow and ice										
	06/29/20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/12/20		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/20		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	11/19/20		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/23/21	Not sampled - covered with snow and ice										
	06/18/21		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/21	**dup.**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
	09/24/21		**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
LW-MW-13S	12/04/09		17	<0.50	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	03/23/10		65.2	<0.500	<0.500	2.92	<0.500	<0.500	0.784	<0.500	<0.500	<0.500
	06/15/10		14.1	0.603	<0.500	0.627	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	09/08/10		4.86	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	12/16/10		<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	05/11/11		3.71	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	09/29/11		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	39	<0.50	<0.50	<0.50
	12/09/11		<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	03/29/12		<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	06/08/12		1.71	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	08/21/12		2.16	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	11/19/12		2.33	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	11/19/12	dup.	2.18	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	03/11/13	Not sampled; covered with high pile of snow										
	07/30/13		<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	2.7	<0.500

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Summary of Laboratory Analytical Results for Groundwater Samples - Volatile Organic Compounds
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well/Location Identification	Sample Date	Notes	PCE (µg/L)	TCE (µg/L)	trans-1,2-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,1-DCE (µg/L)	VC (µg/L)	MC (µg/L)	1,1,1,2-Tetra (µg/L)	Chloroform (µg/L)	BDCM (µg/L)
LW-MW-13S	09/30/13		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
(cont.)	12/10/13	Not sampled - well covered with snow										
	03/06/14		0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/26/14		1.8	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.63	<0.50
	09/17/14		0.86	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	<0.50
	09/17/14	dup.	0.85	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.90	<0.50
	12/16/14		2.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	3.1	0.62
	03/26/15		2.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/12/15		2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.99	<0.50
	09/11/15		1.1	<0.50	<0.50	<0.50	<0.50	<0.50	0.76	<0.50	0.68	<0.50
	12/18/15	Not sampled - covered by Snow and Ice										
	03/25/16		1.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/21/16		0.64	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/28/16		1.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/20/16		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	05/02/17		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/27/17		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/21/17		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	04/04/18		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/25/18		1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/26/18		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/06/18		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/28/19		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/03/19		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/19		0.62	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/19/19		0.90	<0.50	<0.50	<0.50	<0.50	<0.50	2.9	<0.50	<0.50	<0.50
	03/26/20	Not sampled - covered with snow and ice										
	06/29/20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/12/20		0.74	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.68 J	0.15 J
	09/24/20		0.51	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	11/19/20		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/23/21		1.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/18/21		1.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/21		**1.4**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**0.54**	**<0.50**

Table 3
Summary of Laboratory Analytical Results for Groundwater Samples - Volatile Organic Compounds
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well/Location Identification	Sample Date	Notes	PCE (µg/L)	TCE (µg/L)	trans-1,2-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,1-DCE (µg/L)	VC (µg/L)	MC (µg/L)	1,1,1,2-Tetra (µg/L)	Chloroform (µg/L)	BDCM (µg/L)
OS-1	03/24/10		91.2	1.41	<0.500	0.989	<0.500	<0.500	1.02	<0.500	<0.500	<0.500
	06/15/10		75.9	2.91	<0.500	1.41	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	09/08/10		13.5	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	12/16/10		52.5	2.43	<0.500	4.43	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	05/11/11		7.1	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	09/29/11		4.6	<0.50	<0.50	<0.50	<0.50	<0.50	25	<0.50	<0.50	<0.50
	12/09/11		20.6	0.617	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	03/29/12		8.97	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	06/08/12		11.60	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	06/08/12	dup.	11.20	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	08/21/12		6.3	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	11/19/12		34.9	1.84	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	03/11/13	Not sampled; covered with high pile of snow										
	07/30/13		26	1.7	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	09/30/13		8.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/10/13		16	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/06/14		5.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/26/14		15	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/17/14		10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/16/14		9.8	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/26/15		64	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/12/15		10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/11/15		9.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/18/15		5.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/25/16		5.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.87	<0.50
	06/21/16		1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/28/16		1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/20/16		9.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	05/02/17		1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/27/17		1.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/21/17		1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	04/04/18		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/25/18		0.86	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/26/18		1.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/06/18		6.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Table 3
Summary of Laboratory Analytical Results for Groundwater Samples - Volatile Organic Compounds
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well/Location Identification	Sample Date	Notes	PCE (µg/L)	TCE (µg/L)	trans-1,2-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,1-DCE (µg/L)	VC (µg/L)	MC (µg/L)	1,1,1,2-Tetra (µg/L)	Chloroform (µg/L)	BDCM (µg/L)
OS-1	03/28/19		1.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
(cont.)	06/03/19		2.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/19		1.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/20/19		2.7	<0.50	<0.50	<0.50	<0.50	<0.50	0.57	<0.50	<0.50	<0.50
	03/26/20		3.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.89	0.50
	06/29/20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/12/20		14	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.26 J	<0.50
	09/24/20		9.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	11/19/20		6.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/23/21		1.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/18/21		2.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/21		**8.0**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
OS-2S	11/07/18		51.3	<0.500	<0.500	<0.500	<0.500	<0.500	<2.50	<0.500	<0.500	<0.500
	03/28/19		48	0.55	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/03/19		15	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/19		23	9.8	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/20/19		14	<0.50	<0.50	<0.50	<0.50	<0.50	2.1	<0.50	<0.50	<0.50
	03/26/20		2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/29/20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/12/20		16	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/20		30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	11/19/20		2.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/23/21		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/18/21		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/21		**21**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
OS-2M	11/07/18		1580	54.4	<10.0	37.2	<10.0	<10.0	<50.0	<10.0	<10.0	<10.0
	03/28/19		860	45	2.5	53	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/03/19		730	34	1.8	38	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/19		320	14	<2.5	17	<2.5	<2.5	<2.5	<2.5	12	<2.5
	12/20/19		410	20	<2.5	23	<2.5	<2.5	3.4	<2.5	24	<2.5
	03/26/20		250	9.4	<2.5	5.3	<2.5	<2.5	2.7	<2.5	<2.5	<2.5
	06/29/20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/12/20		270	12	<5.0	9.1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	09/24/20		280	11	<0.50	8.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	11/19/20		290	13	0.55	13	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

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Well/Location Identification	Sample Date	Notes	PCE (µg/L)	TCE (µg/L)	trans-1,2-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,1-DCE (µg/L)	VC (µg/L)	MC (µg/L)	1,1,1,2-Tetra (µg/L)	Chloroform (µg/L)	BDCM (µg/L)
OS-2M	03/23/21		220	9.3	<0.50	4.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
(cont.)	06/18/21		410	22	<0.50	18	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/21		**480**	**25**	**<0.50**	**17**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
OS-3S	11/07/18		<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<2.50	<0.500	<0.500	<0.500
	03/28/19		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/03/19		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/19		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/19/19		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.6	<0.50	<0.50	<0.50
	03/26/20		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/29/20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/12/20		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/20		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	11/19/20		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/23/21		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/18/21		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/21		**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
OS-3M	11/07/18		163	2.74	<0.500	<0.500	<0.500	<0.500	<2.50	<0.500	<0.500	<0.500
	03/28/19		150	3.0	<0.50	3.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/03/19		130	<0.50	<0.50	2.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/19		130	2.4	<0.50	2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/20/19		200	3.2	<0.50	2.3	<0.50	<0.50	0.54	<0.50	<0.50	<0.50
	03/26/20		210	3.7	<0.50	2.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/29/20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/12/20		67	0.93 J	<2.0	0.59 J	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	09/24/20		72	1.3	<0.50	0.78	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	11/19/20		110	2.0	<0.50	1.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/23/21		150	2.9	<0.50	1.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/18/21		63	0.96	<0.50	0.68	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/21		**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
OS-4S	11/07/18		5.22	<0.500	<0.500	<0.500	<0.500	<0.500	<2.50	<0.500	<0.500	<0.500
	03/28/19		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/03/19		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/19		2.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/20/19		1.6	<0.50	<0.50	<0.50	<0.50	<0.50	0.74	<0.50	<0.50	<0.50

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Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well/Location Identification	Sample Date	Notes	PCE (µg/L)	TCE (µg/L)	trans-1,2-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,1-DCE (µg/L)	VC (µg/L)	MC (µg/L)	1,1,1,2-Tetra (µg/L)	Chloroform (µg/L)	BDCM (µg/L)
OS-4S	03/26/20		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
(cont.)	06/29/20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/12/20		1.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/20		2.8	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	11/19/20		2.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/23/21		3.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/18/21		0.77	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/21		**0.85**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
OS-4M	11/07/18		540	11.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	11/07/18	dup.	446	9.88	<5.00	6.26	<5.00	<5.00	<25.0	<5.00	<5.00	<5.00
	03/28/19		280	8.2	<0.50	8.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/03/19		310	<0.50	<0.50	8.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/19		290	8.5	<0.50	7.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/20/19		330	8.1	<0.50	5.2	<0.50	<0.50	0.61	<0.50	<0.50	<0.50
	03/26/20		180	4.5	<0.50	<0.50	<0.50	<0.50	2.7	<0.50	<0.50	<0.50
	06/29/20		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/12/20		130	2.7	<1.0	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	09/24/20		140	2.6	<0.50	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	11/19/20		140	3.0	<0.50	2.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	03/23/21		94	0.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	06/18/21		76	1.6	<0.50	1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	09/24/21		**40**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**
AS-6	05/04/17		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
AS-7	05/02/17		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
AS-8	05/02/17		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
AS-13	05/03/17		0.81	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
AS-14	05/02/17		2.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.69	0.67
AS-19	05/02/17		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.59	0.53
AS-20	05/02/17		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.67	<0.50

Table 3
Summary of Laboratory Analytical Results for Groundwater Samples - Volatile Organic Compounds
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well/Location Identification	Sample Date	Notes	PCE (µg/L)	TCE (µg/L)	trans-1,2-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,1-DCE (µg/L)	VC (µg/L)	MC (µg/L)	1,1,1,2-Tetra (µg/L)	Chloroform (µg/L)	BDCM (µg/L)
AS-21	05/03/17		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
AS-25	05/02/17		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.78	0.56
VE-2S	05/03/17		0.72	<0.50	<0.50	<0.50	<0.50	<0.50	0.56	<0.50	<0.50	<0.50
VE-3	05/04/17		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
VE-4	05/03/17		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
VE-5	05/03/17		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
VE-10	05/04/17		0.64	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
VE-11	05/03/17		<0.50	<0.50	<0.50	2.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
VE-12	05/04/17		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.71	<0.50	<0.50	<0.50
VE-13	05/04/17		1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
QA/QC Samples (4Q2018 - Present)												
Trip Blank	11/07/18		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50	<0.50
Trip Blank	03/28/19		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trip Blank	06/03/19		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trip Blank	09/24/19		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trip Blank	12/20/19		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	5.9	<0.50	<0.50	<0.50
Trip Blank	03/26/20		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	<0.50	1.2	<0.50
Trip Blank	09/24/20		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	36	<0.50	0.67	<0.50
Trip Blank	11/19/20		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trip Blank	03/23/21		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.55	<0.50	<0.50	<0.50
Trip Blank	06/18/21		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.55	<0.50	<0.50	<0.50
Trip Blank	**09/24/21**		**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**0.55**	**<0.50**	**<0.50**	**<0.50**

Table 3
Summary of Laboratory Analytical Results for Groundwater Samples - Volatile Organic Compounds
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well/Location Identification	Sample Date	Notes	PCE (µg/L)	TCE (µg/L)	trans-1,2-DCE (µg/L)	cis-1,2-DCE (µg/L)	1,1-DCE (µg/L)	VC (µg/L)	MC (µg/L)	1,1,1,2-Tetra (µg/L)	Chloroform (µg/L)	BDCM (µg/L)

Notes:
µg/L = Micrograms per liter
dup. = Duplicate sample
<0.5 = Analyte not detected at or above the indicated laboratory reporting limit
Samples analyzed for volatile organic compounds (VOCs) via U.S. Environmental Protection Agency Test Method 8260B. No other analytes detected at or above their respective laboratory reporting limit.
Data prior to fourth quarter 2018 was compiled and reported by E2C Remediation, Inc.
J = Result is less than the Reporting Limit and greater than or equal to the Method Detection Limit. Concentration is considered an approximate value.
NA = Not analyzed

Chemical Abbreviations
PCE = Tetrachloroethene
TCE = Trichloroethene
trans-1,2-DCE = trans-1,2-Dichloroethene
cis-1,2-DCE = cis-1,2-Dichloroethene
1,1-DCE = 1,1-Dichloroethene
VC = Vinyl Chloride
1,1,1,2-Tetra = 1,1,1,2-Tetrachloroethane
BDCM - Bromodichloromethane
CB = Chlorobenzene
CF = Chloroform
EB = Ethlybenzene

TABLE 3: GROUNDWATER ANALYTICAL RESULTS SUMMARY FOR PCE AND DAUGHTER PRODUCTS, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH “Y” PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)

AECOM. Regional Plume Characterization Summary Report: South “Y” PCE Plume 2019-2020 Field Season (June 10, 2022).

Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products

				Analyte Units	Tetrachloroethene µg/L	Trichloroethylene µg/L	cis-1,2-Dichloroethene µg/L	trans 1,2-Dichloroethene µg/L	Vinyl Chloride µg/L
				CA MCL	**5**	**5**	**6**	**10**	**0.5**
Location ID	**Sample ID**	**Sample Depth (ft bgs)**	**Sample Type**	**Sample Date**					
CPT Locations									
CPT-A01	CPT-A01-061-N-035	35 - 37	N	9/9/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A01	CPT-A01-062-FD-052	52 - 54	FD	9/9/2019	2.7	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A01	CPT-A01-062-N-052	52 - 54	N	9/9/2019	2.5	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A01	CPT-A01-063-N-062	62 - 64	N	9/9/2019	3.3	< 0.1	0.1 J	< 0.1	< 0.1
CPT-A01	CPT-A01-064-N-077	77 - 79	N	9/9/2019	**15**	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A01	CPT-A01-065-N-093	93 - 95	N	9/9/2019	**12**	0.2 J	0.1 J	< 0.1	< 0.1
CPT-A01	CPT-A01-066-N-100	100 - 102	N	9/9/2019	1.2	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A01	CPT-A01-067-N-114	114 - 116	N	9/9/2019	0.8	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A02	CPT-A02-074-N-045	45 - 47	N	9/5/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A02	CPT-A02-071-N-055	55 - 57	N	9/5/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A02	CPT-A02-072-FD-064	64 - 66	FD	9/5/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A02	CPT-A02-072-N-064	64 - 66	N	9/5/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A02	CPT-A02-073-N-072	72 - 74	N	9/5/2019	0.3 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A02	CPT-A02-078-N-081	81 - 83	N	9/5/2019	1.5	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A02	CPT-A02-075-N-087	87 - 89	N	9/5/2019	0.9	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A02	CPT-A02-076-N-095	95 - 97	N	9/5/2019	2.2	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A02	CPT-A02-077-N-105	105 - 107	N	9/5/2019	**6.3**	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A03	CPT-A03-156-N-062	62 - 64	N	9/17/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A03	CPT-A03-155-N-069	69 - 71	N	9/17/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A03	CPT-A03-154-N-079	79 - 81	N	9/17/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A03	CPT-A03-153-N-089	89 - 91	N	9/17/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A03	CPT-A03-152-N-099	99 - 101	N	9/17/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A03	CPT-A03-152-FD-099	99 - 101	FD	9/17/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A03	CPT-A03-151-N-109	109 - 111	N	9/17/2019	0.5	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A04	CPT-A04-161-N-48	48 - 50	N	9/23/2019	0.6 J-	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
CPT-A04	CPT-A04-162-N-66	66 - 68	N	9/23/2019	**6.8 J-**	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
CPT-A04	CPT-A04-163-N-83	85 - 87	N	9/23/2019	0.4	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A04	CPT-A04-164-N-92	92 - 94	N	9/23/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A04	CPT-A04-165-N-105	105 - 107	N	9/23/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products

				Analyte	Tetrachloroethene	Trichloroethylene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	Vinyl Chloride
				Units	µg/L	µg/L	µg/L	µg/L	µg/L
				CA MCL	**5**	**5**	**6**	**10**	**0.5**
Location ID	**Sample ID**	**Sample Depth (ft bgs)**	**Sample Type**	**Sample Date**					
CPT-A04	CPT-A04-166-N-114	114 - 116	N	9/23/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A04	CPT-A04-167-FD-120	120 - 122	N	9/23/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A04	CPT-A04-167-N-120	120 - 122	N	9/23/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A04	CPT-A04-168-N-128	128 - 130	N	9/24/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A05	CPT-A05-169-N-35	35 - 37	N	9/25/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A05	CPT-A05-170-N-45	43 - 45	N	9/25/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A05	CPT-A05-171-N-56	54 - 56	N	9/25/2019	1.0	0.4 J	< 0.1	< 0.1	< 0.1
CPT-A05	CPT-A05-172-N-62	60 - 62	N	9/25/2019	2.9	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A05	CPT-A05-173-N-73	71 - 73	N	9/25/2019	4.3	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A05	CPT-A05-174-N-89	87 - 89	N	9/25/2019	1.4	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A06	CPT-A06-051-N-80	80 - 82	N	9/27/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A06	CPT-A06-052-N-104	104 - 106	N	9/27/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-A06	CPT-A06-053N-118	118 - 120	N	9/30/2019	0.8	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B01	CPT-B01-081-N-008	8 - 10	N	6/27/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B01	CPT-B01-082-N-020	20 - 22	N	6/27/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B01	CPT-B01-083-N-030	30 - 32	N	6/27/2019	0.3 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B01	CPT-B01-084-N-040	40 - 42	N	6/27/2019	3.5	0.3 J	0.6	< 0.1	< 0.1
CPT-B01	CPT-B01-085-N-047	47 - 49	N	6/27/2019	**75**	2.9	**10**	< 0.1	< 0.1
CPT-B01	CPT-B01-086-N-067	67 - 69	N	6/28/2019	< 0.1	< 0.1	< 0.1 UJ	< 0.1	< 0.1
CPT-B01	CPT-B01-089-FD-077	77 - 79	FD	6/27/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B01	CPT-B01-089-N-077	77 - 79	N	6/27/2019	0.2 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B01	CPT-B01-090-N-090	90 - 92	N	6/27/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B02	CPT-B02-091-N-009	5 - 11	N	6/26/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B02	CPT-B02-092-FD-020	20 - 22	FD	6/26/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B02	CPT-B02-092-N-020	20 - 22	N	6/26/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B02	CPT-B02-093-N-032	32 - 34	N	6/26/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B02	CPT-B02-094-N-044	44 - 46	N	6/26/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B02	CPT-B02-095-N-060	60 - 62	N	6/26/2019	**250**	4.2	4.0	< 0.4	< 0.5
CPT-B02	CPT-B02-096-N-072	72 - 74	N	6/26/2019	0.3 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B02	CPT-B02-097-N-082	82 - 84	N	6/26/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products
(Page 3 of 21)

				Analyte	Tetrachloroethene	Trichloroethylene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	Vinyl Chloride
				Units	µg/L	µg/L	µg/L	µg/L	µg/L
				CA MCL	5	5	6	10	0.5
Location ID	Sample ID	Sample Depth (ft bgs)	Sample Type	Sample Date					
CPT-B03	CPT-B03-101-N-010	10 - 12	N	7/16/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B03	CPT-B03-102-N-021	21 - 23	N	7/16/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B03	CPT-B03-103-FD-034	34 - 36	FD	7/16/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B03	CPT-B03-103-N-034	34 - 36	N	7/16/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B03	CPT-B03-104-N-044	44 - 46	N	7/16/2019	0.3 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B03	CPT-B03-105-N-053	53 - 55	N	7/16/2019	**93**	1.1	0.8 J	< 0.2	< 0.2
CPT-B03	CPT-B03-106-N-062	62 - 64	N	7/16/2019	**120**	1.9	1.9	< 0.2	< 0.2
CPT-B03	CPT-B03-107-N-070	70 - 72	N	7/16/2019	**350**	**5.0**	4.9	< 0.5	< 0.5
CPT-B03	CPT-B03-108-N-088	88 - 90	N	7/16/2019	1.5	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B04	CPT-B04-111-N-018	18 - 20	N	8/28/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B04	CPT-B04-112-N-042	42 - 44	N	8/28/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B04	CPT-B04-113-N-056	56 - 58	N	8/28/2019	0.8	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B04	CPT-B04-114-N-062	62 - 64	N	8/28/2019	**36**	0.3 J	0.1 J	< 0.1	< 0.1
CPT-B04	CPT-B04-115-N-080	80 - 82	N	8/28/2019	**170**	3.3	**6.1**	0.1 J	< 0.1
CPT-B04	CPT-B04-116-FD-088	88 - 90	FD	8/28/2019	**200**	3.7	4.1	0.3 J	< 0.2
CPT-B04	CPT-B04-116-N-088	88 - 90	N	8/28/2019	**200**	3.7	4.2	0.3 J	< 0.2
CPT-B04	CPT-B04-117-N-105	105 - 107	N	8/28/2019	**200**	4.9	2.9	0.2 J	< 0.1
CPT-B04	CPT-B04-118-N-130	129 - 131	N	8/28/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B05	CPT-B05-121-N-010	10 - 12	N	8/21/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B05	CPT-B05-122-N-016	16 - 18	N	8/21/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B05	CPT-B05-123-N-029	29 - 31	N	8/21/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B05	CPT-B05-124-N-047	47 - 49	N	8/21/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B05	CPT-B05-125-N-060	60 - 62	N	8/21/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B05	CPT-B05-126-N-070	70 - 72	N	8/21/2019	0.2 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B05	CPT-B05-127-FD-086	86 - 88	FD	8/21/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B05	CPT-B05-127-N-086	86 - 88	N	8/21/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B05	CPT-B05-128-N-097	97 - 99	N	8/21/2019	**25**	0.2 J	0.1 J	< 0.1	< 0.1
CPT-B07	CPT-B07-141-N-022	22 - 24	N	9/4/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B07	CPT-B07-142-N-039	39 - 41	N	9/4/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B07	CPT-B07-143-N-060	60 - 62	N	9/4/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products

				Analyte	Tetrachloroethene	Trichloroethylene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	Vinyl Chloride
				Units	µg/L	µg/L	µg/L	µg/L	µg/L
				CA MCL	5	5	6	10	0.5
Location ID	Sample ID	Sample Depth (ft bgs)	Sample Type	Sample Date					
CPT-B07	CPT-B07-144-N-073	73 - 75	N	9/4/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B07	CPT-B07-145-FD-080	80 - 82	FD	9/4/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B07	CPT-B07-145-N-080	80 - 82	N	9/4/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B07	CPT-B07-146-N-094	94 - 96	N	9/4/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-B07	CPT-B07-147-N-106	106 - 108	N	9/4/2019	**15**	0.2 J	0.1 J	< 0.1	< 0.1
CPT-B07	CPT-B07-148-N-113	113 - 115	N	9/4/2019	**6.2**	< 0.1	< 0.1	< 0.1	< 0.1
CPT-C03	CPT-C03-181-N-014	14 - 16	N	8/13/2019	0.3 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-C03	CPT-C03-182-N-019	19 - 21	N	8/13/2019	0.3 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-C03	CPT-C03-183-N-032	32 - 34	N	8/13/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-C03	CPT-C03-184-N-039	39 - 41	N	8/13/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-C03	CPT-C03-185-N-052	52 - 54	N	8/13/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-C03	CPT-C03-186-FD-068	68 - 70	FD	8/13/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-C03	CPT-C03-186-N-068	68 - 70	N	8/13/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-C03	CPT-C03-187-N-081	81 - 83	N	8/13/2019	4.7	< 0.1	< 0.1	< 0.1	< 0.1
CPT-C03	CPT-C03-188-N-088	88 - 90	N	8/13/2019	0.5	< 0.1	< 0.1	< 0.1	< 0.1
CPT-C04	CPT-C04-191-N-008	8 - 10	N	8/14/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-C04	CPT-C04-191-FD-008	8 - 10	FD	8/14/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-C04	CPT-C04-192-N-015	15 - 17	N	8/14/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-C04	CPT-C04-193-N-022	22 - 24	N	8/14/2019	0.1 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-C04	CPT-C04-194-N-028	28 - 30	N	8/14/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-C04	CPT-C04-195-N-040	40 - 42	N	8/14/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-C04	CPT-C04-196-N-053	53 - 55	N	8/14/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-C04	CPT-C04-197-N-061	61 - 63	N	8/14/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-C05	CPT-C05-201-N-025	25 - 27	N	9/11/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-C05	CPT-C05-202-N-035	35 - 37	N	9/11/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-C05	CPT-C05-203-N-049	49 - 51	N	9/11/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-C05	CPT-C05-204-FD-060	60 - 62	FD	9/11/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-C05	CPT-C05-204-N-060	60 - 62	N	9/11/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-C05	CPT-C05-205-N-070	70 - 72	N	9/11/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-C05	CPT-C05-206-N-083	83 - 85	N	9/11/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products

				Analyte Units	Tetrachloroethene µg/L	Trichloroethylene µg/L	cis-1,2-Dichloroethene µg/L	trans 1,2-Dichloroethene µg/L	Vinyl Chloride µg/L
				CA MCL	**5**	**5**	**6**	**10**	**0.5**
Location ID	**Sample ID**	**Sample Depth (ft bgs)**	**Sample Type**	**Sample Date**					
CPT-C05	CPT-C05-207-N-091	91 - 93	N	9/11/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-C06	CPT-C06-211-N-065	65 - 67	N	9/16/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-C06	CPT-C06-215-N-075	75 - 77	N	9/16/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-C06	CPT-C06-215-FD-075	75 - 77	FD	9/16/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-C06	CPT-C06-212-N-085	85 - 87	N	9/16/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-C06	CPT-C06-213-N-097	97 - 99	N	9/16/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-D01	CPT-D01-221-N-018	18 - 20	N	7/9/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-D01	CPT-D01-222-N-024	24 - 26	N	7/9/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-D01	CPT-D01-223-FD-041	41 - 43	FD	7/9/2019	0.2 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-D01	CPT-D01-223-N-041	41 - 43	N	7/9/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-D01	CPT-D01-224-N-054	54 - 56	N	7/9/2019	**76**	0.8	0.2 J	< 0.1	< 0.1
CPT-D01	CPT-D01-225-N-072	72 - 74	N	7/10/2019	**220**	**5.5**	3.0	< 0.2	< 0.3
CPT-D01	CPT-D01-226-N-080	80 - 82	N	7/10/2019	**180**	**5.2**	2.5	< 0.1	< 0.1
CPT-D02	CPT-D02-231-N-007	7 - 9	N	7/17/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-D02	CPT-D02-232-N-014	14 - 16	N	7/17/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-D02	CPT-D02-233-N-026	26 - 28	N	7/17/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-D02	CPT-D02-234-N-034	34 - 36	N	7/17/2019	0.1 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-D02	CPT-D02-235-N-042	42 - 44	N	7/17/2019	1.0	< 0.1	< 0.1	< 0.1	< 0.1
CPT-D02	CPT-D02-236-FD-058	58 - 60	FD	7/17/2019	**72**	1.1	0.7	< 0.1	< 0.1
CPT-D02	CPT-D02-236-N-058	58 - 60	N	7/17/2019	**72**	1.0	0.6	< 0.1	< 0.1
CPT-D02	CPT-D02-237-N-064	64 - 66	N	7/17/2019	**110**	1.9	2.2	< 0.1	< 0.1
CPT-D02	CPT-D02-238-N-078	78 - 80	N	7/17/2019	**170**	2.8	2.5	< 0.3	< 0.4
CPT-D03	CPT-D03-241-N-014	14 - 16	N	7/22/2019	0.2 J+	< 0.1	< 0.1 UJ	< 0.1 UJ	< 0.1
CPT-D03	CPT-D03-242-FD-030	30 - 32	FD	7/22/2019	< 0.1	< 0.1	< 0.1 UJ	< 0.1 UJ	< 0.1
CPT-D03	CPT-D03-242-N-030	30 - 32	N	7/22/2019	< 0.1	< 0.1	< 0.1 UJ	< 0.1 UJ	< 0.1
CPT-D03	CPT-D03-243-N-044	44 - 46	N	7/22/2019	< 0.1	< 0.1	< 0.1 UJ	< 0.1 UJ	< 0.1
CPT-D03	CPT-D03-244-N-050	50 - 52	N	7/22/2019	< 0.1	< 0.1	< 0.1 UJ	< 0.1 UJ	< 0.1
CPT-D03	CPT-D03-245-N-058	58 - 60	N	7/22/2019	**13**	< 0.1	< 0.1	< 0.1	< 0.1
CPT-D03	CPT-D03-246-N-067	67 - 69	N	7/22/2019	**97**	1.1	0.8 J	< 0.1 UJ	< 0.1
CPT-D03	CPT-D03-247-N-083	83 - 85	N	7/22/2019	**98**	1.3	1.4	< 0.1	< 0.1

Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products

				Analyte	Tetrachloroethene	Trichloroethylene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	Vinyl Chloride
				Units	µg/L	µg/L	µg/L	µg/L	µg/L
				CA MCL	**5**	**5**	**6**	**10**	**0.5**
Location ID	**Sample ID**	**Sample Depth (ft bgs)**	**Sample Type**	**Sample Date**					
CPT-D03	CPT-D03-248-N-090	90 - 92	N	7/22/2019	**140**	2.2	2.7	< 0.1	< 0.1
CPT-D04	CPT-D04-251-N-010	10 - 12	N	7/23/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-D04	CPT-D04-252-N-018	18 - 20	N	7/23/2019	< 0.1	< 0.1	< 0.1 UJ	< 0.1 UJ	< 0.1
CPT-D04	CPT-D04-253-N-026	26 - 28	N	7/23/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-D04	CPT-D04-254-FD-042	42 - 44	FD	7/23/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-D04	CPT-D04-254-N-042	42 - 44	N	7/23/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-D04	CPT-D04-255-N-052	52 - 54	N	7/23/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-D04	CPT-D04-256-N-064	64 - 66	N	7/23/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-D04	CPT-D04-257-N-074	74 - 76	N	7/23/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-D04	CPT-D04-258-N-083	83 - 85	N	7/23/2019	**69**	1.0	1.2	< 0.1	< 0.1
CPT-D05	CPT-D05-261-N-012	12 - 14	N	7/25/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-D05	CPT-D05-262-FD-026	26 - 28	FD	7/25/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-D05	CPT-D05-262-N-026	26 - 28	N	7/25/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-D05	CPT-D05-263-N-038	38 - 40	N	7/25/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-D05	CPT-D05-264-N-049	49 - 51	N	7/25/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-D05	CPT-D05-265-N-058	58 - 60	N	7/25/2019	1.8	< 0.1	< 0.1	< 0.1	< 0.1
CPT-D05	CPT-D05-266-N-068	68 - 70	N	7/25/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-D05	CPT-D05-267-N-076	76 - 78	N	7/25/2019	**36**	0.5 J	0.6	< 0.1	< 0.1
CPT-D05	CPT-D05-268-N-086	86 - 88	N	7/25/2019	**92**	1.2	1.1	< 0.1	< 0.1
CPT-D06	CPT-D06-271-FD-010	10 - 12	FD	8/15/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-D06	CPT-D06-271-N-010	10 - 12	N	8/15/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-D06	CPT-D06-272-N-020	20 - 22	N	8/15/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-D06	CPT-D06-273-N-040	40 - 42	N	8/15/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-D06	CPT-D06-274-N-049	49 - 51	N	8/15/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-D06	CPT-D06-275-N-066	66 - 68	N	8/15/2019	**33**	0.6	0.6	< 0.1	< 0.1
CPT-D06	CPT-D06-276-N-078	78 - 80	N	8/15/2019	**120**	2.3	3.2	0.2 J	< 0.1
CPT-D06	CPT-D06-277-N-090	90 - 92	N	8/15/2019	**41 J-**	1.2	2.4	0.1 J	< 0.1
CPT-D06	CPT-D06-278-N-110	110 - 112	N	8/15/2019	**17**	0.5 J	0.8	< 0.1	< 0.1
CPT-D07	CPT-D07-171-N-016	16 - 18	N	8/26/2019	0.4 J-	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
CPT-D07	CPT-D07-172-N-022	22 - 24	N	8/26/2019	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ

Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products

				Analyte Units	Tetrachloroethene µg/L	Trichloroethylene µg/L	cis-1,2-Dichloroethene µg/L	trans 1,2-Dichloroethene µg/L	Vinyl Chloride µg/L
				CA MCL	**5**	**5**	**6**	**10**	**0.5**
Location ID	**Sample ID**	**Sample Depth (ft bgs)**	**Sample Type**	**Sample Date**					
CPT-D07	CPT-D07-173-N-038	38 - 40	N	8/26/2019	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
CPT-D07	CPT-D07-174-N-054	54 - 56	N	8/26/2019	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
CPT-D07	CPT-D07-175-FD-068	68 - 70	FD	8/26/2019	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
CPT-D07	CPT-D07-175-N-068	68 - 70	N	8/26/2019	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
CPT-D07	CPT-D07-176-N-076	76 - 78	N	8/26/2019	1.0 J-	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
CPT-D07	CPT-D07-177-N-086	86 - 88	N	8/26/2019	**29 J-**	0.6 J-	1.0 J-	< 0.1 UJ	< 0.1 UJ
CPT-D07	CPT-D07-179-N-096	96 - 98	N	8/26/2019	**72 J-**	2.4 J-	3.7 J-	< 0.1 UJ	< 0.1 UJ
CPT-E01	CPT-E01-281-N-007	7 - 9	N	6/24/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E01	CPT-E01-282-N-022	22 - 24	N	6/24/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E01	CPT-E01-283-N-039	39 - 41	N	6/24/2019	**120**	4.5	2.3	< 0.2	< 0.3
CPT-E01	CPT-E01-284-N-049	49 - 51	N	6/24/2019	**570**	**7.4**	**6.8**	< 0.7	< 0.9
CPT-E01	CPT-E01-285-N-058	58 - 62	N	6/24/2019	**540**	**6.9**	**6.9**	< 1.1	< 1.4
CPT-E01	CPT-E01-286-N-074	74 - 76	N	6/25/2019	0.4 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E01	CPT-E01-287-FD-086	86 - 88	FD	6/25/2019	0.4 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E01	CPT-E01-287-N-086	86 - 88	N	6/25/2019	0.2 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E02	CPT-E02-291-N-008	8 - 10	N	7/8/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E02	CPT-E02-292-N-020	20 - 22	N	7/8/2019	0.2 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E02	CPT-E02-293-N-029	29 - 31	N	7/8/2019	**12 J-**	0.3 J-	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
CPT-E02	CPT-E02-294-N-042	42 - 44	N	7/8/2019	**18 J-**	0.4 J-	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
CPT-E02	CPT-E02-295-N-058	58 - 60	N	7/8/2019	**54**	1.5	0.3 UJ	< 0.1	< 0.1
CPT-E02	CPT-E02-296-N-066	66 - 68	N	7/9/2019	**83**	1.7	1.0	< 0.1	< 0.1
CPT-E02	CPT-E02-297-FD-080	80 - 82	FD	7/9/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E02	CPT-E02-297-N-080	80 - 82	N	7/9/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E03	CPT-E03-301-N-008	8 - 10	N	7/10/2019	< 0.1	< 0.1	< 0.1 UJ	< 0.1	< 0.1
CPT-E03	CPT-E03-302-N-018	18 - 20	N	7/10/2019	< 0.1	< 0.1	< 0.1 UJ	< 0.1	< 0.1
CPT-E03	CPT-E03-303-N-028	28 - 30	N	7/10/2019	< 0.1	< 0.1	< 0.1 UJ	< 0.1	< 0.1
CPT-E03	CPT-E03-304-FD-035	35 - 37	FD	7/10/2019	< 0.1	< 0.1	< 0.1 UJ	< 0.1	< 0.1
CPT-E03	CPT-E03-304-N-035	35 - 37	N	7/10/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E03	CPT-E03-305-N-044	44 - 46	N	7/10/2019	0.4 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E03	CPT-E03-306-N-058	58 - 60	N	7/11/2019	5.0	< 0.1	< 0.1	< 0.1	< 0.1

Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products

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				Analyte	Tetrachloroethene	Trichloroethylene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	Vinyl Chloride
				Units	µg/L	µg/L	µg/L	µg/L	µg/L
				CA MCL	**5**	**5**	**6**	**10**	**0.5**
Location ID	**Sample ID**	**Sample Depth (ft bgs)**	**Sample Type**	**Sample Date**					
CPT-E03	CPT-E03-307-N-071	71 - 73	N	7/11/2019	**84**	1.8	0.8	< 0.1	< 0.1
CPT-E04	CPT-E04-311-N-008	8 - 10	N	7/11/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E04	CPT-E04-312-N-015	15 - 17	N	7/11/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E04	CPT-E04-313-N-027	27 - 29	N	7/11/2019	0.5 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E04	CPT-E04-314-N-038	38 - 40	N	7/12/2019	**6.6**	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E04	CPT-E04-315-N-045	45 - 47	N	7/12/2019	**29 J+**	0.4 J	0.2 J	< 0.1	< 0.1
CPT-E04	CPT-E04-316-N-066	66 - 68	N	7/12/2019	**74**	1.2	1.2	< 0.1	< 0.1
CPT-E04	CPT-E04-317-N-082	82 - 84	N	7/12/2019	**56**	1.0	0.4 J	< 0.1	< 0.1
CPT-E04	CPT-E04-318-FD-094	94 - 96	FD	7/12/2019	**13**	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E04	CPT-E04-318-N-094	94 - 96	N	7/12/2019	**11**	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E05	CPT-E05-321-N-011	11 - 13	N	7/24/2019	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
CPT-E05	CPT-E05-322-N-021	21 - 23	N	7/24/2019	0.2 J-	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
CPT-E05	CPT-E05-323-N-034	34 - 36	N	7/24/2019	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
CPT-E05	CPT-E05-324-FD-045	45 - 47	FD	7/24/2019	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
CPT-E05	CPT-E05-324-N-045	45 - 47	N	7/24/2019	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
CPT-E05	CPT-E05-325-N-057	57 - 59	N	7/24/2019	0.4 J-	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
CPT-E05	CPT-E05-326-N-067	67 - 69	N	7/24/2019	**14 J-**	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
CPT-E05	CPT-E05-327-N-086	86 - 88	N	7/24/2019	**44 J-**	0.6 J-	0.7 J-	< 0.1 UJ	< 0.1 UJ
CPT-E05	CPT-E05-328-N-096	96 - 98	N	7/24/2019	**83 J-**	1.1 J-	1.1 J-	< 0.1 UJ	< 0.1 UJ
CPT-E06	CPT-E06-331-N-015	15 - 17	N	7/29/2019	0.3 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E06	CPT-E06-332-N-026	26 - 28	N	7/29/2019	0.2 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E06	CPT-E06-333-N-039	39 - 41	N	7/29/2019	0.1 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E06	CPT-E06-334-N-058	58 - 60	N	7/29/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E06	CPT-E06-335-FD-078	78 - 80	FD	7/29/2019	2.3	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E06	CPT-E06-335-N-078	78 - 80	N	7/29/2019	2.3	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E06	CPT-E06-336-N-092	92 - 94	N	7/29/2019	**24**	0.5 J	0.9	< 0.1	< 0.1
CPT-E07	CPT-E07-341-N-016	16 - 18	N	7/30/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E07	CPT-E07-342-N-026	26 - 28	N	7/30/2019	0.7	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E07	CPT-E07-343-N-035	35 - 37	N	7/30/2019	0.1 J+	< 0.1	< 0.1 UJ	< 0.1	< 0.1
CPT-E07	CPT-E07-344-N-046	46 - 48	N	7/30/2019	0.1 J+	< 0.1	< 0.1 UJ	< 0.1	< 0.1

Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products

				Analyte	Tetrachloroethene	Trichloroethylene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	Vinyl Chloride
				Units	µg/L	µg/L	µg/L	µg/L	µg/L
				CA MCL	5	5	6	10	0.5
Location ID	Sample ID	Sample Depth (ft bgs)	Sample Type	Sample Date					
CPT-E07	CPT-E07-345-N-056	56 - 58	N	7/30/2019	0.3 J+	< 0.1	< 0.1 UJ	< 0.1	< 0.1
CPT-E07	CPT-E07-346-N-069	69 - 71	N	7/30/2019	3.0	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E07	CPT-E07-347-N-076	76 - 78	N	7/30/2019	**15**	0.2 J	0.2 J	< 0.1	< 0.1
CPT-E07	CPT-E07-348-FD-087	87 - 89	FD	7/30/2019	**40**	0.5	0.7	< 0.1	< 0.1
CPT-E07	CPT-E07-348-N-087	87 - 89	N	7/30/2019	**40**	0.5	0.7	< 0.1	< 0.1
CPT-E08	CPT-E08-351-N-013	13 - 15	N	7/31/2019	0.3 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E08	CPT-E08-352-N-018	18 - 20	N	7/31/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E08	CPT-E08-353-N-025	25 - 27	N	7/31/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E08	CPT-E08-354-FD-037	37 - 39	FD	7/31/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E08	CPT-E08-354-N-037	37 - 39	N	7/31/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E08	CPT-E08-355-N-050	50 - 52	N	7/31/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E08	CPT-E08-356-N-058	58 - 60	N	7/31/2019	0.6	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E08	CPT-E08-357-N-075	75 - 77	N	7/31/2019	0.3 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E08	CPT-E08-358-N-093	93 - 95	N	7/31/2019	**38**	0.6	0.6	< 0.1	< 0.1
CPT-E10	CPT-E10-371-N-008	8 - 10	N	8/19/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E10	CPT-E10-372-N-015	15 - 17	N	8/19/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E10	CPT-E10-373-N-031	31 - 33	N	8/19/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E10	CPT-E10-374-FD-045	45 - 47	FD	8/19/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E10	CPT-E10-374-N-045	45 - 47	N	8/19/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-E10	CPT-E10-375-N-063	63 - 65	N	8/19/2019	**16**	0.4 J	0.8	< 0.1	< 0.1
CPT-E10	CPT-E10-376-N-079	79 - 81	N	8/19/2019	**23**	0.6	1.3	< 0.1	< 0.1
CPT-E10	CPT-E10-377-N-100	100 - 102	N	8/19/2019	3.3	< 0.1	0.2 J	< 0.1	< 0.1
CPT-E10	CPT-E10-378-N-111	111 - 113	N	8/19/2019	**30**	0.5	0.9	< 0.1	< 0.1
CPT-F01	CPT-F01-381-N-004	4 - 6	N	7/18/2019	0.3 J	< 0.1	< 0.1	< 0.1 UJ	< 0.1
CPT-F01	CPT-F01-382-N-020	20 - 22	N	7/18/2019	**14**	0.2 J	< 0.1	< 0.1	< 0.1
CPT-F01	CPT-F01-383-N-041	41 - 43	N	7/18/2019	**320**	**5.1**	3.8	< 0.5	< 0.6
CPT-F01	CPT-F01-384-N-052	52 - 54	N	7/18/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F01	CPT-F01-385-N-066	66 - 68	N	7/18/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F01	CPT-F01-386-FD-070	70 - 72	FD	7/18/2019	0.1 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F01	CPT-F01-386-N-070	70 - 72	N	7/18/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products

				Analyte	Tetrachloroethene	Trichloroethylene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	Vinyl Chloride
				Units	µg/L	µg/L	µg/L	µg/L	µg/L
				CA MCL	**5**	**5**	**6**	**10**	**0.5**
Location ID	**Sample ID**	**Sample Depth (ft bgs)**	**Sample Type**	**Sample Date**					
CPT-F01	CPT-F01-387-N-078	78 - 80	N	7/18/2019	0.1 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F03	CPT-F03-402-N-024	24 - 26	N	8/6/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F03	CPT-F03-403-N-031	31 - 33	N	8/6/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F03	CPT-F03-404-N-040	40 - 42	N	8/6/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F03	CPT-F03-405-N-052	52 - 54	N	8/6/2019	**5.3**	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F03	CPT-F03-406-N-070	70 - 72	N	8/6/2019	**240**	4.6	2.5	< 0.4	< 0.5
CPT-F03	CPT-F03-407-N-080	80 - 82	N	8/6/2019	**15**	0.4 J	< 0.1	< 0.1	< 0.1
CPT-F03	CPT-F03-408-FD-094	94 - 96	FD	8/6/2019	**11**	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F03	CPT-F03-408-N-094	94 - 96	N	8/6/2019	**11**	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F04	CPT-F04-411-N-018	18 - 20	N	8/7/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F04	CPT-F04-412-N-027	27 - 29	N	8/7/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F04	CPT-F04-413-FD-040	40 - 42	FD	8/7/2019	0.3 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F04	CPT-F04-413-N-040	40 - 42	N	8/7/2019	0.3 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F04	CPT-F04-414-N-047	47 - 49	N	8/7/2019	0.9	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F04	CPT-F04-415-N-060	60 - 62	N	8/7/2019	**36**	0.7	1.1	< 0.1	< 0.1
CPT-F04	CPT-F04-416-N-068	68 - 70	N	8/7/2019	**93 J-**	2.6 J-	1.3 J-	< 0.2 UJ	< 0.3 UJ
CPT-F04	CPT-F04-417-N-078	78 - 80	N	8/7/2019	**80**	3.5	1.0	< 0.1	< 0.1
CPT-F04	CPT-F04-418-N-088	88 - 90	N	8/7/2019	**16**	0.2 J	< 0.1	< 0.1	< 0.1
CPT-F05	CPT-F05-421-N-015	15 - 17	N	8/22/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F05	CPT-F05-422-N-024	24 - 26	N	8/22/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F05	CPT-F05-423-N-038	38 - 40	N	8/22/2019	1.6	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F05	CPT-F05-424-N-053	53 - 55	N	8/22/2019	**5.7**	< 0.1	0.1 J	< 0.1	< 0.1
CPT-F05	CPT-F05-425-N-067	67 - 69	N	8/22/2019	**89**	2.1	1.9	< 0.1	< 0.1
CPT-F05	CPT-F05-426-FD-076	76 - 78	FD	8/22/2019	**27**	0.6	0.2 J	< 0.1	< 0.1
CPT-F05	CPT-F05-426-N-076	76 - 78	N	8/22/2019	**23**	0.5	0.2 J	< 0.1	< 0.1
CPT-F05	CPT-F05-427-N-084	84 - 86	N	8/22/2019	**27**	0.4 J	< 0.1	< 0.1	< 0.1
CPT-F05	CPT-F05-428-N-094	94 - 96	N	8/22/2019	**13**	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F07	CPT-F07-441-FD-028	28 - 30	FD	8/8/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F07	CPT-F07-441-N-028	28 - 30	N	8/8/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F07	CPT-F07-442-N-042	42 - 44	N	8/8/2019	1.5	< 0.1	< 0.1	< 0.1	< 0.1

Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products
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				Analyte Units	Tetrachloroethene µg/L	Trichloroethylene µg/L	cis-1,2-Dichloroethene µg/L	trans 1,2-Dichloroethene µg/L	Vinyl Chloride µg/L
				CA MCL	5	5	6	10	0.5
Location ID	Sample ID	Sample Depth (ft bgs)	Sample Type	Sample Date					
CPT-F07	CPT-F07-443-N-050	50 - 52	N	8/8/2019	3.2	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F07	CPT-F07-444-N-062	62 - 64	N	8/8/2019	**22**	0.5	1.5	< 0.1	< 0.1
CPT-F07	CPT-F07-445-N-072	72 - 74	N	8/8/2019	**19**	0.2 J	0.4 J	< 0.1	< 0.1
CPT-F07	CPT-F07-446-N-076	76 - 78	N	8/8/2019	**43**	0.5	0.6	< 0.1	< 0.1
CPT-F07	CPT-F07-447-N-086	86 - 88	N	8/8/2019	**24**	0.3 J	0.3 J	< 0.1	< 0.1
CPT-F07	CPT-F07-448-N-096	96 - 98	N	8/8/2019	**7.4**	0.1 J	< 0.1	< 0.1	< 0.1
CPT-F08	CPT-F08-451-N-016	16 - 18	N	8/27/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F08	CPT-F08-452-N-029	29 - 31	N	8/27/2019	1.7	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F08	CPT-F08-453-N-042	42 - 44	N	8/27/2019	1.4	< 0.1	0.1 J	< 0.1	< 0.1
CPT-F08	CPT-F08-454-FD-048	48 - 50	FD	8/27/2019	2.6	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F08	CPT-F08-454-N-048	48 - 50	N	8/27/2019	2.5	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F08	CPT-F08-455-N-066	66 - 68	N	8/27/2019	**13**	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F08	CPT-F08-456-N-080	80 - 82	N	8/27/2019	**28**	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F08	CPT-F08-457-N-090	90 - 92	N	8/27/2019	**17**	0.3 J	0.2 J	< 0.1	< 0.1
CPT-F08	CPT-F08-458-N-103	103 - 105	N	8/27/2019	**12**	0.1 J	< 0.1	< 0.1	< 0.1
CPT-F09	CPT-F09-462-N-013	13 - 15	N	9/10/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F09	CPT-F09-461-FD-028	28 - 30	FD	9/10/2019	0.9	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F09	CPT-F09-461-N-028	28 - 30	N	9/10/2019	0.9	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F09	CPT-F09-463-N-036	36 - 38	N	9/10/2019	1.3	0.3 J	< 0.1	< 0.1	< 0.1
CPT-F09	CPT-F09-464-N-054	54 - 56	N	9/10/2019	**8.9**	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F09	CPT-F09-465-N-066	66 - 68	N	9/10/2019	4.2	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F09	CPT-F09-466-N-081	81 - 83	N	9/10/2019	3.5	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F09	CPT-F09-467-N-090	90 - 92	N	9/10/2019	2.2	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F09	CPT-F09-468-N-102	102 - 104	N	9/10/2019	0.6	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F10	CPT-F10-431-N-52	52 - 54	N	10/2/2019	3.2	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F10	CPT-F10-432-N-70	70 - 72	N	10/2/2019	**25**	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F10	CPT-F10-433-N-85	85 - 87	N	10/2/2019	**12 J+**	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F10	CPT-F10-434-N-98	98 - 100	N	10/3/2019	3.3	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F10	CPT-F10-435-N-105	105 - 107	N	10/3/2019	3.4	< 0.1	< 0.1	< 0.1	< 0.1
CPT-F10	CPT-F10-436-N-115	115 - 117	N	10/3/2019	2.9	< 0.1	< 0.1	< 0.1	< 0.1

Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products

				Analyte Units	Tetrachloroethene µg/L	Trichloroethylene µg/L	cis-1,2-Dichloroethene µg/L	trans 1,2-Dichloroethene µg/L	Vinyl Chloride µg/L
				CA MCL	**5**	**5**	**6**	**10**	**0.5**
Location ID	**Sample ID**	**Sample Depth (ft bgs)**	**Sample Type**	**Sample Date**					
CPT-F11	CPT-F11-WG-005-N-032	32 - 36	N	7/30/2020	< 0.30	< 0.20	< 0.20	< 0.20	< 0.20
CPT-F11	CPT-F11-WG-006-FD-052	52 - 56	FD	7/30/2020	2 J+	< 0.20	< 0.20	< 0.20	< 0.20
CPT-F11	CPT-F11-WG-006-N-052	52 - 56	N	7/30/2020	1.8 J+	< 0.20	< 0.20	< 0.20	< 0.20
CPT-F11	CPT-F11-WG-007-N-080	80 - 84	N	7/30/2020	2.4 J+	< 0.20	< 0.20	< 0.20	< 0.20
CPT-F11	CPT-F11-WG-008-N-104	104 - 108	N	7/30/2020	**22**	< 0.20	< 0.20	< 0.20	< 0.20
CPT-F12	CPT-F12-WG-009-N-032	32 - 36	N	7/29/2020	0.78 J+	< 0.20	< 0.20	< 0.20	< 0.20
CPT-F12	CPT-F12-WG-010-N-049	49 - 53	N	7/29/2020	3.4 J+	< 0.20	< 0.20	< 0.20	< 0.20
CPT-F12	CPT-F12-WG-011-N-069	69 - 73	N	7/29/2020	**6.8 J+**	< 0.20	< 0.20	< 0.20	< 0.20
CPT-F12	CPT-F12-WG-012-N-091	91 - 95	N	7/29/2020	2.4 J+	< 0.20	< 0.20	< 0.20	< 0.20
CPT-F12	CPT-F12-WG-303-N-108	108 - 112	N	7/29/2020	2.7 J+	< 0.20	< 0.20	< 0.20	< 0.20
CPT-G01	CPT-G01-471-N-010	10 - 12	N	7/15/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-G01	CPT-G01-472-N-024	24 - 26	N	7/15/2019	**5.4**	0.2 J	< 0.1	< 0.1	< 0.1
CPT-G01	CPT-G01-473-N-034	34 - 36	N	7/15/2019	**29**	0.7	0.1 J	< 0.1	< 0.1
CPT-G01	CPT-G01-474-FD-041	41 - 43	FD	7/15/2019	**98**	2.3	0.8 J	< 0.2	< 0.2
CPT-G01	CPT-G01-474-N-041	41 - 43	N	7/15/2019	**120**	2.6	1.0 J	< 0.3	< 0.3
CPT-G01	CPT-G01-475-N-052	52 - 54	N	7/15/2019	**12**	0.2 J	< 0.1	< 0.1	< 0.1
CPT-G01	CPT-G01-476-N-062	62 - 64	N	7/15/2019	0.9	< 0.1	< 0.1	< 0.1	< 0.1
CPT-G01	CPT-G01-477-N-072	72 - 74	N	7/15/2019	**5.7**	< 0.1	< 0.1	< 0.1	< 0.1
CPT-G01	CPT-G01-478-N-087	87 - 89	N	7/15/2019	3.3	< 0.1	< 0.1	< 0.1	< 0.1
CPT-G05	CPT-G05-511-N-010	10 - 12	N	8/20/2019	0.2 J-	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
CPT-G05	CPT-G05-512-N-019	19 - 21	N	8/20/2019	0.3 J-	< 0.1 UJ	< 0.1 UJ	< 0.1	< 0.1
CPT-G05	CPT-G05-513-N-025	25 - 27	N	8/20/2019	0.2 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-G05	CPT-G05-514-N-044	44 - 46	N	8/20/2019	1.0 J-	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
CPT-G05	CPT-G05-515-FD-056	56 - 58	FD	8/20/2019	1.2	< 0.1	< 0.1	< 0.1	< 0.1
CPT-G05	CPT-G05-515-N-056	56 - 58	N	8/20/2019	1.1 J-	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
CPT-G05	CPT-G05-516-N-085	85 - 87	N	8/20/2019	0.6	< 0.1	< 0.1	< 0.1	< 0.1
CPT-G06	CPT-G06-521-FD-37	37 - 39	FD	10/1/2019	1.4	< 0.1	< 0.1	< 0.1	< 0.1
CPT-G06	CPT-G06-521-N-37	37 - 39	N	10/1/2019	1.6	< 0.1	< 0.1	< 0.1	< 0.1
CPT-G06	CPT-G06-522-N-47	47 - 49	N	10/1/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-G06	CPT-G06-523-N-54	54 - 56	N	10/1/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products

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				Analyte Units	Tetrachloroethene µg/L	Trichloroethylene µg/L	cis-1,2-Dichloroethene µg/L	trans 1,2-Dichloroethene µg/L	Vinyl Chloride µg/L
				CA MCL	**5**	**5**	**6**	**10**	**0.5**
Location ID	**Sample ID**	**Sample Depth (ft bgs)**	**Sample Type**	**Sample Date**					
CPT-G06	CPT-G06-524-N-71	71 - 73	N	10/1/2019	**73**	0.9	1.0	< 0.1	< 0.1
CPT-G06	CPT-G06-525-N-79	79 - 81	N	10/1/2019	**25**	1.3	2.6	< 0.1	< 0.1
CPT-G06	CPT-G06-526-N-90	90 - 92	N	10/1/2019	**120**	< 0.3	< 0.2	< 0.2	< 0.3
CPT-G06	CPT-G06-527-N-96	96 - 98	N	10/2/2019	**18**	< 0.1	< 0.1	< 0.1	< 0.1
CPT-G07	CPT-G07-495-N-61	61 - 63	N	10/4/2019	3.9 J-	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
CPT-G07	CPT-G07-494-FD-71	71 - 73	FD	10/4/2019	**24 J-**	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
CPT-G07	CPT-G07-494-N-71	71 - 73	N	10/4/2019	**23**	< 0.1	< 0.1	< 0.1	< 0.1
CPT-G07	CPT-G07-493-N-81	81 - 83	N	10/4/2019	**32**	0.5	0.8	< 0.1	< 0.1
CPT-G07	CPT-G07-492-N-91	91 - 93	N	10/4/2019	1.0	< 0.1	< 0.1	< 0.1	< 0.1
CPT-G07	CPT-G07-491-N-101	101 - 103	N	10/4/2019	0.4 J	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
CPT-G08	CPT-G08-WG-013-N-028	28 - 32	N	7/16/2020	0.85 J+	< 0.20	< 0.20	< 0.20	< 0.20
CPT-G08	CPT-G08-WG-014-FD-040	40 - 44	FD	7/27/2020	**290**	0.26 J+	< 0.20	< 0.20	< 0.20
CPT-G08	CPT-G08-WG-014-N-040	40 - 44	N	7/16/2020	**230**	0.24 J+	< 0.20	< 0.20	< 0.20
CPT-G08	CPT-G08-WG-015-N-051	51 - 55	N	7/27/2020	**340**	0.28 J+	< 0.20	< 0.20	< 0.20
CPT-G08	CPT-G08-WG-016-N-080	80 - 84	N	7/27/2020	**17**	< 0.20	< 0.20	< 0.20	< 0.20
CPT-G08	CPT-G08-WG-302-N-096	96 - 100	N	7/27/2020	< 0.30	< 0.20	< 0.20	< 0.20	< 0.20
CPT-G09	CPT-G09-WG-017-N-011	11 - 15	N	7/14/2020	< 0.30	< 0.20	< 0.20	< 0.20	< 0.20
CPT-G09	CPT-G09-WG-018-N-044	44 - 48	N	7/14/2020	3.9	< 0.20	< 0.20	< 0.20	< 0.20
CPT-G09	CPT-G09-WG-019-N-064	64 - 68	N	7/15/2020	**65**	0.41 J+	0.2 J	< 0.20	< 0.20
CPT-G09	CPT-G09-WG-020-N-092	92 - 96	N	7/15/2020	**5.5**	< 0.20	< 0.20	< 0.20	< 0.20
CPT-G09	CPT-G09-WG-301-N-099	99 - 100	N	7/15/2020	< 0.30	< 0.20	< 0.20	< 0.20	< 0.20
CPT-G10	CPT-G10-WG-021-N-10	10 - 12	N	7/31/2020	< 0.30	< 0.20	< 0.20	< 0.20	< 0.20
CPT-G10	CPT-G10-WG-022-FD-038	38 - 40	FD	7/31/2020	**6.9 J+**	< 0.20	< 0.20	< 0.20	< 0.20
CPT-G10	CPT-G10-WG-022-N-038	38 - 40	N	7/31/2020	**6.7 J+**	< 0.20	< 0.20	< 0.20	< 0.20
CPT-G10	CPT-G10-WG-024-N-070	70 - 73	N	7/31/2020	**50**	< 0.20	< 0.20	< 0.20	< 0.20
CPT-G10	CPT-G10-WG-023-N-078	78 - 82	N	7/31/2020	2.1 J+	< 0.20	< 0.20	< 0.20	< 0.20
CPT-G11	CPT-G11-WG-025-N-030	30 - 34	N	8/1/2020	0.47 J	< 0.20	< 0.20	< 0.20	< 0.20
CPT-G11	CPT-G11-WG-026-N-040	40 - 44	N	8/1/2020	< 0.30	< 0.20	< 0.20	< 0.20	< 0.20
CPT-G11	CPT-G11-WG-028-N-056	54 - 60	N	8/1/2020	< 0.30	< 0.20	< 0.20	< 0.20	< 0.20
CPT-G11	CPT-G11-WG-027-N-075	75 - 77.5	N	8/1/2020	< 0.30	0.27 J+	< 0.20	< 0.20	< 0.20

Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products

				Analyte	Tetrachloroethene	Trichloroethylene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	Vinyl Chloride
				Units	µg/L	µg/L	µg/L	µg/L	µg/L
				CA MCL	**5**	**5**	**6**	**10**	**0.5**
Location ID	**Sample ID**	**Sample Depth (ft bgs)**	**Sample Type**	**Sample Date**					
CPT-H01	CPT-H01-001-N-014	14 - 16	N	8/1/2019	1.2	< 0.1	0.2 J	< 0.1	< 0.1
CPT-H01	CPT-H01-002-N-020	20 - 22	N	8/1/2019	1.5	0.3 J	1.1	< 0.1	< 0.1
CPT-H01	CPT-H01-012-N-022	22 - 24	N	8/2/2019	< 2.0	< 1.7	2.2 J	< 1.7	< 1.8
CPT-H01	CPT-H01-004-FD-034	34 - 36	FD	8/1/2019	1.7	0.2 J	0.4 J	< 0.1	< 0.1
CPT-H01	CPT-H01-004-N-034	34 - 36	N	8/1/2019	1.7	0.2 J	0.5	< 0.1	< 0.1
CPT-H01	CPT-H01-005-N-041	41 - 43	N	8/1/2019	0.2 J	< 0.1	0.1 J-	< 0.1	< 0.1
CPT-H01	CPT-H01-006-N-049	49 - 51	N	8/1/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-H01	CPT-H01-007-N-057	57 - 59	N	8/1/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-H01	CPT-H01-008-N-073	73 - 75	N	8/1/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-H02	CPT-H02-011-N-008	8 - 10	N	6/28/2019	< 0.1	0.5 J	0.1 J-	< 0.1	< 0.1
CPT-H02	CPT-H02-012-N-016	16 - 18	N	6/28/2019	0.4 J	0.1 J	0.2 J-	< 0.1	< 0.1
CPT-H02	CPT-H02-013-N-022	22 - 24	N	6/28/2019	**9.6**	0.3 J	0.6 J-	< 0.1	< 0.1
CPT-H02	CPT-H02-014-FD-032	32 - 34	FD	6/28/2019	**60**	1.0	< 0.1 UJ	< 0.1	< 0.1
CPT-H02	CPT-H02-014-N-032	32 - 34	N	6/28/2019	**59**	0.9	< 0.1 UJ	< 0.1	< 0.1
CPT-H02	CPT-H02-015-N-038	38 - 40	N	6/28/2019	**74**	1.4	0.2 J-	< 0.1	< 0.1
CPT-H02	CPT-H02-016-N-055	55 - 57	N	6/28/2019	3.4	< 0.1	< 0.1 UJ	< 0.1	< 0.1
CPT-H02	CPT-H02-017-N-060	60 - 62	N	7/1/2019	1.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-H02	CPT-H02-018-N-083	83 - 85	N	7/1/2019	1.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-H03	CPT-H03-021-N-011	11 - 13	N	7/14/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-H03	CPT-H03-022-N-024	24 - 26	N	7/14/2019	1.3	0.4 J	1.2	< 0.1	< 0.1
CPT-H03	CPT-H03-023-N-038	38 - 40	N	7/14/2019	**46**	1.6	0.1 J	< 0.1	< 0.1
CPT-H03	CPT-H03-024-N-053	53 - 55	N	7/14/2019	**14 J-**	< 0.3 UJ	< 0.3 UJ	< 0.3 UJ	< 0.4 UJ
CPT-H03	CPT-H03-025-N-064	64 - 66	N	7/14/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-H03	CPT-H03-026-N-075	75 - 77	N	7/14/2019	0.3 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-H03	CPT-H03-027-FD-082	82 - 84	FD	7/14/2019	0.3 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-H03	CPT-H03-027-N-082	82 - 84	N	7/14/2019	0.3 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-H03	CPT-H03-028-N-088	88 - 90	N	7/14/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-H04	CPT-H04-031-N-012	12 - 14	N	8/12/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-H04	CPT-H04-032-N-021	21 - 23	N	8/12/2019	3.9	0.1 J	< 0.1	< 0.1	< 0.1
CPT-H04	CPT-H04-033-FD-032	32 - 34	FD	8/12/2019	**5.2**	0.1 J	< 0.1	< 0.1	< 0.1

Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products

				Analyte Units	Tetrachloroethene µg/L	Trichloroethylene µg/L	cis-1,2-Dichloroethene µg/L	trans 1,2-Dichloroethene µg/L	Vinyl Chloride µg/L
				CA MCL	**5**	**5**	**6**	**10**	**0.5**
Location ID	**Sample ID**	**Sample Depth (ft bgs)**	**Sample Type**	**Sample Date**					
CPT-H04	CPT-H04-033-N-032	32 - 34	N	8/12/2019	5.0	0.1 J	< 0.1	< 0.1	< 0.1
CPT-H04	CPT-H04-034-N-040	40 - 42	N	8/12/2019	**43**	0.7	0.2 J	< 0.1	< 0.1
CPT-H04	CPT-H04-035-N-051	51 - 53	N	8/12/2019	**6.5**	0.3 J	< 0.1	< 0.1	< 0.1
CPT-H04	CPT-H04-036-N-062	62 - 64	N	8/12/2019	0.1 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-H04	CPT-H04-037-N-076	76 - 78	N	8/12/2019	0.2 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-H04	CPT-H04-038-N-087	87 - 89	N	8/12/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-H05	CPT-H05-041-N-019	19 - 21	N	9/3/2019	1.0	< 0.1	< 0.1	< 0.1	< 0.1
CPT-H05	CPT-H05-042-N-024	24 - 26	N	9/3/2019	0.8	< 0.1	< 0.1	< 0.1	< 0.1
CPT-H05	CPT-H05-043-N-037	37 - 39	N	9/3/2019	0.8	< 0.1	< 0.1	< 0.1	< 0.1
CPT-H05	CPT-H05-044-N-041	41 - 43	N	9/3/2019	1.2	< 0.1	< 0.1	< 0.1	< 0.1
CPT-H05	CPT-H05-045-N-052	52 - 54	N	9/3/2019	0.4 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-H05	CPT-H05-046-N-062	62 - 64	N	9/3/2019	0.2 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-H05	CPT-H05-047-FD-076	76 - 78	FD	9/3/2019	0.4 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-H05	CPT-H05-047-N-076	76 - 78	N	9/3/2019	0.3 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-H05	CPT-H05-048-N-087	87 - 89	N	9/3/2019	0.3 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-I01	CPT-I01-531-N-016	16 - 18	N	8/5/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-I01	CPT-I01-532-N-024	24 - 26	N	8/5/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-I01	CPT-I01-533-N-034	34 - 36	N	8/5/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-I01	CPT-I01-534-N-040	40 - 42	N	8/5/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-I01	CPT-I01-535-FD-061	61 - 63	FD	8/5/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-I01	CPT-I01-535-N-061	61 - 63	N	8/5/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-I01	CPT-I01-536-N-084	84 - 86	N	8/5/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CPT-I02	CPT-I02-501-N-016	16 - 18	N	9/12/2019	0.5	< 0.1	< 0.1	< 0.1	< 0.1
CPT-I02	CPT-I02-507-N-028	28 - 30	N	9/12/2019	3.8	0.3 J	0.9	< 0.1	< 0.1
CPT-I02	CPT-I02-507-FD-028	28 - 30	FD	9/12/2019	3.8	0.2 J	0.9	< 0.1	< 0.1
CPT-I02	CPT-I02-502-N-038	38 - 40	N	9/12/2019	0.2 J	< 0.1	< 0.1	< 0.1	< 0.1
CPT-I02	CPT-I02-503-N-049	49 - 51	N	9/12/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Sonic Locations									
SONIC01	SONIC01-WG-001N-113	113 - 115	N	6/18/2019	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
SONIC01	SONIC01-WG-002N-126	126 - 128	N	6/18/2019	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ

Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products

				Analyte	Tetrachloroethene	Trichloroethylene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	Vinyl Chloride
				Units	µg/L	µg/L	µg/L	µg/L	µg/L
				CA MCL	**5**	**5**	**6**	**10**	**0.5**
Location ID	**Sample ID**	**Sample Depth (ft bgs)**	**Sample Type**	**Sample Date**					
SONIC01	SONIC01-WG-003N-143	143 - 145	N	6/18/2019	< 0.2 UJ	< 0.2 UJ	< 0.2 UJ	< 0.2 UJ	< 0.3 UJ
SONIC01	SONIC01-WG-004N-183	183 - 185	N	6/19/2019	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
SONIC01	SONIC01-WG-006N-233	233 - 235	N	6/19/2019	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
SONIC01	SONIC01-WG-007FD-253	253 - 255	FD	6/19/2019	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
SONIC01	SONIC01-WG-007N-253	253 - 255	N	6/20/2019	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
SONIC01	SONIC01-WG-008N-273	273 - 275	N	6/20/2019	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
SONIC02	SONIC02-WG-011N-76	76 - 78	N	6/24/2019	**63**	0.6	0.3 J	< 0.1	< 0.1
SONIC02	SONIC02-WG-012N-90	90 - 92	N	6/24/2019	**91**	1.5	1.6	< 0.1	< 0.1
SONIC02	SONIC02-WG-013N-123	123 - 125	N	6/25/2019	**10**	0.1 J	0.1 J	< 0.1	< 0.1
SONIC02	SONIC02-WG-014N-163	163 - 165	N	6/25/2019	**50**	0.9	1.3	< 0.1	< 0.1
SONIC02	SONIC02-WG-015FD-183	183 - 185	FD	6/25/2019	**34**	0.6	0.8	< 0.1	< 0.1
SONIC02	SONIC02-WG-015N-183	183 - 185	N	6/25/2019	**34**	0.6	0.9	< 0.1	< 0.1
SONIC02	SONIC02-WG-016N-213	213 - 215	N	6/26/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC02	SONIC02-WG-017N-243	243 - 245	N	6/26/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC03	SONIC03-WG-021N-50	50 - 52	N	7/1/2019	4.9	0.1 J	0.2 J	< 0.1	< 0.1
SONIC03	SONIC03-WG-022N-70	70 - 72	N	7/1/2019	**71 J-**	1.1 J-	0.6 J-	< 0.1 UJ	< 0.1 UJ
SONIC03	SONIC03-WG-023N-110	110 - 112	N	7/1/2019	**44 J-**	0.8 J-	0.7 J-	< 0.1 UJ	< 0.1 UJ
SONIC03	SONIC03-WG-024N-140	140 - 142	N	7/3/2019	**40 J-**	0.7 J-	0.3 J-	< 0.1 UJ	< 0.1 UJ
SONIC03	SONIC03-WG-025FD-178	178 - 180	FD	7/3/2019	**17**	0.3 J	0.4 J	< 0.1	< 0.1
SONIC03	SONIC03-WG-025N-178	178 - 180	N	7/3/2019	**18**	0.3 J	0.4 J	< 0.1	< 0.1
SONIC03	SONIC03-WG-026N-213	213 - 215	N	7/8/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC03	SONIC03-WG-027N-243	243 - 245	N	7/8/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC04	SONIC04-WG-031N-148	148 - 150	N	7/12/2019	**9.1**	< 0.1	< 0.1	< 0.1	< 0.1
SONIC04	SONIC04-WG-032N-163	163 - 165	N	7/12/2019	0.3 J	< 0.1	< 0.1	< 0.1	< 0.1
SONIC04	SONIC04-WG-033N-173	173 - 175	N	7/15/2019	< 0.1	< 0.1	< 0.1 UJ	< 0.1	< 0.1
SONIC04	SONIC04-WG-034N-248	248 - 250	N	7/15/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC04	SONIC04-WG-035N-288	288 - 290	N	7/16/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC05	SONIC05-WG-041FD-93	93 - 95	FD	7/29/2019	**7.3**	< 0.1	< 0.1	< 0.1	< 0.1
SONIC05	SONIC05-WG-041N-93	93 - 95	N	7/29/2019	**6.8**	< 0.1	< 0.1	< 0.1	< 0.1
SONIC05	SONIC05-WG-042N-123	123 - 125	N	7/29/2019	**36**	0.6	1.1	< 0.1	< 0.1

Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products

				Analyte	Tetrachloroethene	Trichloroethylene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	Vinyl Chloride
				Units	µg/L	µg/L	µg/L	µg/L	µg/L
				CA MCL	5	5	6	10	0.5
Location ID	Sample ID	Sample Depth (ft bgs)	Sample Type	Sample Date					
SONIC05	SONIC05-WG-043N-138	138 - 140	N	7/30/2019	**58**	1.0	1.7	0.1 J	< 0.1
SONIC05	SONIC05-WG-045N-183	183 - 185	N	7/31/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC05	SONIC05-WG-046N-213	213 - 215	N	7/31/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC05	SONIC05-WG-047N-243	243 - 245	N	7/31/2019	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
SONIC05	SONIC05-WG-048N-273	273 - 275	N	7/31/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC05	SONIC05-WG-049N-303	303 - 305	N	7/31/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC5A	SONIC5A-WG-N-148	148 - 150	N	8/21/2019	**78**	1.7	2.9	0.2 J	< 0.1
SONIC5A	SONIC5A-WG-N-168	168 - 170	N	8/21/2019	0.1 J	< 0.1	< 0.1	< 0.1	< 0.1
SONIC06	SONIC06-WG-051N-063	63 - 65	N	7/18/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC06	SONIC06-WG-052N-103	103 - 105	N	7/18/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC06	SONIC06-WG-053FD-143	143 - 145	FD	7/19/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC06	SONIC06-WG-053N-143	143 - 145	N	7/19/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC06	SONIC06-WG-054N-183	183 - 185	N	7/22/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC06	SONIC06-WG-055N-203	203 - 205	N	7/22/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC06	SONIC06-WG-056N-223	223 - 225	N	7/23/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC06	SONIC06-WG-057N-243	243 - 245	N	7/23/2019	< 0.1	< 0.1	< 0.1 UJ	< 0.1	< 0.1
SONIC06	SONIC06-WG-058N-283	283 - 285	N	7/24/2019	< 0.1	< 0.1	< 0.1 UJ	< 0.1	< 0.1
SONIC07	SONIC07-WG-125N-93	93 - 95	N	8/5/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC07	SONIC07-WG-126FD-133	133 - 135	FD	8/5/2019	0.5	< 0.1	< 0.1	< 0.1	< 0.1
SONIC07	SONIC07-WG-126N-133	133 - 135	N	8/5/2019	0.5	< 0.1	< 0.1	< 0.1	< 0.1
SONIC07	SONIC07-WG-127N-148	148 - 150	N	8/6/2019	1.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC07	SONIC07-WG-128N-163	163 - 165	N	8/6/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC07	SONIC07-WG-129N-178	178 - 180	N	8/7/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC07	SONIC07-WG-130N-213	213 - 215	N	8/7/2019	0.3 J	< 0.1	< 0.1	< 0.1	< 0.1
SONIC07	SONIC07-WG-131N-243	243 - 245	N	8/7/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC07	SONIC07-WG-132N-273	273 - 275	N	8/7/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC07	SONIC07-WG-133N-303	303 - 305	N	8/7/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC08	SONIC08-WG-085N-103	103 - 105	N	8/22/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC08	SONIC08-WG-086N-123	123 - 125	N	8/26/2019	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
SONIC08	SONIC08-WG-087N-163	163 - 165	N	8/26/2019	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ

Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products

				Analyte	Tetrachloroethene	Trichloroethylene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	Vinyl Chloride
				Units	µg/L	µg/L	µg/L	µg/L	µg/L
				CA MCL	5	5	6	10	0.5
Location ID	Sample ID	Sample Depth (ft bgs)	Sample Type	Sample Date					
SONIC08	SONIC08-WG-088FD-183	183 - 185	FD	8/26/2019	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
SONIC08	SONIC08-WG-088N-183	183 - 185	N	8/26/2019	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
SONIC08	SONIC08-WG-089N-213	213 - 215	N	8/27/2019	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
SONIC08	SONIC08-WG-090N-243	243 - 245	N	8/27/2019	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ	< 0.1 UJ
SONIC08	SONIC08-WG-091N-273	273 - 275	N	8/27/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC08	SONIC08-WG-092N-305	305 - 307	N	8/27/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC09	SONIC09-WG-095N-113	113 - 115	N	8/13/2019	**26**	0.3 J	< 0.1	< 0.1	< 0.1
SONIC09	SONIC09-WG-096N-133	133 - 135	N	8/14/2019	**30**	0.5 J	0.4 J	< 0.1	< 0.1
SONIC09	SONIC09-WG-097FD-153	153 - 155	FD	8/14/2019	0.7	< 0.1	< 0.1	< 0.1	< 0.1
SONIC09	SONIC09-WG-097N-153	153 - 155	N	8/14/2019	0.9	< 0.1	< 0.1	< 0.1	< 0.1
SONIC09	SONIC09-WG-098N-173	173 - 175	N	8/14/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC09	SONIC09-WG-099N-193	193 - 195	N	8/14/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC09	SONIC09-WG-100N-233	233 - 235	N	8/15/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC09	SONIC09-WG-101N-263	263 - 265	N	8/15/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC09	SONIC09-WG-102N-303	303 - 305	N	8/15/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC10	SONIC10-WG-105N-103	103 - 105	N	8/29/2019	**50**	0.6	0.5 J	< 0.1	< 0.1
SONIC10	SONIC10-WG-106N-123	123 - 125	N	8/29/2019	**550**	**6.4**	**9.0**	< 0.4	< 0.5
SONIC10	SONIC10-WG-107N-143	143 - 145	N	8/29/2019	**230**	**5.2**	**8.0**	< 0.3	< 0.4
SONIC10	SONIC10-WG-108N-163	163 - 165	N	8/30/2019	**260**	**5.0**	**8.1**	0.5 J	< 0.3
SONIC10	SONIC10-WG-109N-183	183 - 185	N	8/30/2019	0.6	< 0.1	< 0.1	< 0.1	< 0.1
SONIC10	SONIC10-WG-110FD-213	213 - 215	FD	9/3/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC10	SONIC10-WG-110N-213	213 - 215	N	9/3/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC10	SONIC10-WG-111N-273	273 - 275	N	9/3/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC10	SONIC10-WG-112N-303	303 - 305	N	9/3/2019	< 0.1	< 0.1	< 0.1	< 0.1	0.2 J
SONIC11	SONIC11-WG-115N-113	113 - 115	N	9/9/2019	**8.5**	< 0.1	< 0.1	< 0.1	< 0.1
SONIC11	SONIC11-WG-116N-133	133 - 135	N	9/9/2019	**8.1**	< 0.1	< 0.1	< 0.1	< 0.1
SONIC11	SONIC11-WG-117FD-153	153 - 155	FD	9/10/2019	1.6	< 0.1	< 0.1	< 0.1	< 0.1
SONIC11	SONIC11-WG-117N-153	153 - 155	N	9/10/2019	1.9	< 0.1	< 0.1	< 0.1	< 0.1
SONIC11	SONIC11-WG-118N-173	173 - 175	N	9/10/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC11	SONIC11-WG-119N-193	193 - 195	N	9/10/2019	1.0	< 0.1	< 0.1	< 0.1	< 0.1

Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products

				Analyte	Tetrachloroethene	Trichloroethylene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	Vinyl Chloride
				Units	µg/L	µg/L	µg/L	µg/L	µg/L
				CA MCL	5	5	6	10	0.5
Location ID	Sample ID	Sample Depth (ft bgs)	Sample Type	Sample Date					
SONIC11	SONIC11-WG-120N-215	215 - 217	N	9/10/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC12	SONIC12-WG-135N-113	113 - 115	N	9/13/2019	**9.6**	< 0.1	< 0.1	< 0.1	< 0.1
SONIC12	SONIC12-WG-136N-133	133 - 135	N	9/13/2019	0.7	< 0.1	< 0.1	< 0.1	< 0.1
SONIC12	SONIC12-WG-137N-153	153 - 155	N	9/13/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC12	SONIC12-WG-138FD-173	173 - 175	FD	9/17/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC12	SONIC12-WG-138N-173	173 - 175	N	9/16/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC12	SONIC12-WG-139N-223	223 - 225	N	9/17/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC12	SONIC12-WG-140N-253	253 - 255	N	9/17/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC12	SONIC12-WG-141N-283	283 - 285	N	9/17/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC13	SONIC13-WG-170N-93	93 - 95	N	9/23/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC13	SONIC13-WG-171N-113	113 - 115	N	9/23/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC13	SONIC13-WG-172N-133	133 - 135	N	9/23/2019	0.2 J	< 0.1	< 0.1	< 0.1	< 0.1
SONIC13	SONIC13-WG-173N-153	153 - 155	N	9/23/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC13	SONIC13-WG-174N-163	163 - 165	N	9/24/2019	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SONIC13	SONIC13-WG-175N-183	183 - 185	N	9/24/2019	3.6	< 0.1	< 0.1	< 0.1	< 0.1
SONIC13	SONIC13-WG-176N-203	203 - 205	N	9/24/2019	0.9	< 0.1	< 0.1	< 0.1	< 0.1
SONIC13	SONIC13-WG-177N-223	223 - 225	N	9/24/2019	4.9	< 0.1	< 0.1	< 0.1	< 0.1
SONIC14	SONIC14-WG-001N-005	5 - 9	N	7/14/2020	< 0.30	< 0.20	< 0.20	< 0.20	< 0.20
SONIC14	SONIC14-WG-002N-061	61 - 63	N	7/14/2020	< 0.30	< 0.20	< 0.20	< 0.20	< 0.20
SONIC14	SONIC14-WG-003N-081	81 - 85	N	7/14/2020	< 0.30 UJ	< 0.20 UJ	< 0.20 UJ	< 0.20 UJ	< 0.20 UJ
SONIC14	SONIC14-WG-004N-111	111 - 115	N	7/14/2020	**26**	< 0.20	< 0.20	< 0.20	< 0.20
SONIC14	SONIC14-WG-401N-142	142 - 145	N	7/16/2020	< 0.30	< 0.20	< 0.20	< 0.20	< 0.20
SONIC14	SONIC14-WG-005FD-221	221 - 225	FD	7/16/2020	< 0.30	< 0.20	< 0.20	< 0.20	< 0.20
SONIC14	SONIC14-WG-005N-221	221 - 225	N	7/16/2020	< 0.30	< 0.20	< 0.20	< 0.20	< 0.20
SONIC14	SONIC14-WG-006N-316	316 - 320	N	7/16/2020	< 0.30	< 0.20	< 0.20	< 0.20	< 0.20
SONIC15	SONIC15-WG-007N-036	36 - 40	N	7/21/2020	1 J+	< 0.20	< 0.20	< 0.20	< 0.20
SONIC15	SONIC15-WG-008N-071	71 - 74	N	7/21/2020	**320**	0.56 J+	0.49 J+	< 0.20	< 0.20
SONIC15	SONIC15-WG-009N-116	116 - 120	N	7/21/2020	< 0.30	< 0.20	< 0.20	< 0.20	< 0.20
SONIC15	SONIC15-WG-010N-136	136 - 140	N	7/21/2020	< 0.30	< 0.20	< 0.20	< 0.20	< 0.20
SONIC15	SONIC15-WG-011N-186	186 - 190	N	7/22/2020	< 0.30	< 0.20	< 0.20	< 0.20	< 0.20

Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products

				Analyte	Tetrachloroethene	Trichloroethylene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	Vinyl Chloride
				Units	µg/L	µg/L	µg/L	µg/L	µg/L
				CA MCL	**5**	**5**	**6**	**10**	**0.5**
Location ID	**Sample ID**	**Sample Depth (ft bgs)**	**Sample Type**	**Sample Date**					
SONIC15	SONIC15-WG-012N-246	246 - 250	N	7/22/2020	< 0.30	< 0.20	< 0.20	< 0.20	< 0.20
SONIC16	SONIC16-WG-014N-053	53 - 55	N	8/28/2020	**47**	0.25 J	< 0.20	< 0.20	< 0.2
SONIC16	SONIC16-WG-015N-073	73 - 75	N	8/28/2020	**75**	< 0.2	< 0.20	< 0.20	< 0.2
SONIC16	SONIC16-WG-013FD-091	91 - 93	FD	8/31/2020	**10 J-**	< 0.2 UJ	< 0.20 UJ	< 0.20 UJ	< 0.2 UJ
SONIC16	SONIC16-WG-013N-091	91 - 93	N	8/31/2020	**9.6 J-**	< 0.2 UJ	< 0.20 UJ	< 0.20 UJ	< 0.2 UJ
SONIC16	SONIC16-WG-016N-133	133 - 135	N	8/31/2020	< 0.30	< 0.2	< 0.20	< 0.20	< 0.2
SONIC16	SONIC16-WG-017N-173	173 - 175	N	9/2/2020	< 0.30	< 0.2	< 0.20	< 0.20	< 0.2
SONIC16	SONIC16-WG-018N-223	223 - 225	N	9/1/2020	< 0.30	< 0.2	< 0.20	< 0.20	< 0.2
SONIC17	SONIC17-WG-019N-018	18 - 20	N	7/30/2020	< 0.30	< 0.20	< 0.20	< 0.20	< 0.20
SONIC17	SONIC17-WG-020N-031	31 - 35	N	7/30/2020	1.5 J+	< 0.20	< 0.20	< 0.20	< 0.20
SONIC17	SONIC17-WG-021N-083	83 - 85	N	7/30/2020	**5.4 J+**	< 0.20	< 0.20	< 0.20	< 0.20
SONIC17	SONIC17-WG-022N-098	98 - 100	N	7/31/2020	**5.3 J+**	< 0.20	< 0.20	< 0.20	< 0.20
SONIC17	SONIC17-WG-023N-138	138 - 140	N	7/31/2020	< 0.30	< 0.20	< 0.20	< 0.20	< 0.20
SONIC17	SONIC17-WG-024N-198	198 - 200	N	8/3/2020	< 0.30	< 0.20	< 0.20	< 0.20	< 0.20
SONIC17	SONIC17-WG-403N-223	223 - 225	N	8/3/2020	< 0.30	< 0.20	< 0.20	< 0.20	< 0.20
SONIC18	SONIC18-WG-025N-071	71 - 75	N	8/5/2020	< 0.30	< 0.2	< 0.20	< 0.20	< 0.2
SONIC18	SONIC18-WG-026N-096	96 - 100	N	8/5/2020	< 0.30	< 0.2	< 0.20	< 0.20	< 0.2
SONIC18	SONIC18-WG-027N-161	161 - 165	N	8/6/2020	0.59	< 0.2	< 0.20	< 0.20	< 0.2
SONIC18	SONIC18-WG-028N-211	211 - 215	N	8/6/2020	0.32 J	< 0.2	< 0.20	< 0.20	< 0.2
SONIC18	SONIC18-WG-029N-241	241 - 245	N	8/7/2020	0.97	< 0.2	< 0.20	< 0.20	< 0.2
SONIC19	SONIC19-WG-031N-013	13 - 15	N	8/10/2020	< 0.30	< 0.2	< 0.20	< 0.20	< 0.2
SONIC19	SONIC19-WG-032N-021	21 - 25	N	8/11/2020	< 0.30 UJ	< 0.2 UJ	< 0.20 UJ	< 0.20 UJ	< 0.2 UJ
SONIC19A	SONIC19A-WG-033N-063	63 - 65	N	8/19/2020	< 0.30 UJ	< 0.2 UJ	< 0.20 UJ	< 0.20 UJ	< 0.2 UJ
SONIC19A	SONIC19A-WG-034N-083	83 - 85	N	8/19/2020	**140**	2.2	2.2	< 0.20	< 0.2
SONIC19A	SONIC19A-WG-035N-103	103 - 105	N	8/19/2020	3.4 J-	< 0.2 UJ	< 0.20 UJ	< 0.20 UJ	< 0.2 UJ
SONIC19A	SONIC19A-WG-405N-123	123 - 125	N	8/24/2020	3.8	< 0.2	< 0.20	< 0.20	< 0.2
SONIC19A	SONIC19A-WG-406FD-203	203 - 205	FD	8/25/2020	1.7	< 0.2	< 0.20	< 0.20	< 0.2
SONIC19A	SONIC19A-WG-406N-203	203 - 205	N	8/25/2020	1.4	< 0.2	< 0.20	< 0.20	< 0.2
SONIC19A	SONIC19A-WG-407N-248	248 - 250	N	8/26/2020	< 0.30 UJ	< 0.2 UJ	< 0.20 UJ	< 0.20 UJ	< 0.2 UJ
SONIC20	SONIC20-WG-037N-033	33 - 35	N	8/4/2020	0.38 J	< 0.2	< 0.20	< 0.20	< 0.2

Table 3 Groundwater Analytical Results Summary for PCE and Daughter Products

				Analyte	Tetrachloroethene	Trichloroethylene	cis-1,2-Dichloroethene	trans 1,2-Dichloroethene	Vinyl Chloride
				Units	µg/L	µg/L	µg/L	µg/L	µg/L
				CA MCL	**5**	**5**	**6**	**10**	**0.5**
Location ID	**Sample ID**	**Sample Depth (ft bgs)**	**Sample Type**	**Sample Date**					
SONIC20	SONIC20-WG-038FD-063	63 - 65	FD	8/4/2020	**120 J**	1.9	1.7	< 0.20	< 0.2
SONIC20	SONIC20-WG-038N-063	63 - 65	N	8/4/2020	**88 J**	1.8	1.7	< 0.20	< 0.2
SONIC20	SONIC20-WG-039N-078	78 - 80	N	8/4/2020	**160**	2.1	1.6	< 0.20	< 0.2
SONIC20	SONIC20-WG-040N-168	168 - 170	N	8/5/2020	2	< 0.2	< 0.20	< 0.20	< 0.2
SONIC20	SONIC20-WG-041N-203	203 - 205	N	8/6/2020	< 0.30 UJ	< 0.2 UJ	< 0.20 UJ	< 0.20 UJ	< 0.2 UJ
SONIC20	SONIC20-WG-042N-248	248 - 250	N	8/6/2020	< 0.30 UJ	< 0.2 UJ	< 0.20 UJ	< 0.20 UJ	< 0.2 UJ
SONIC21	SONIC21-WG-043N-037	37 - 40	N	8/12/2020	< 0.30	< 0.2	< 0.20	< 0.20	< 0.2
SONIC21	SONIC21-WG-044N-078	78 - 80	N	8/12/2020	< 0.30 UJ	< 0.2 UJ	< 0.20 UJ	< 0.20 UJ	< 0.2 UJ
SONIC21	SONIC21-WG-045N-094	94 - 95	N	8/12/2020	< 0.30 UJ	< 0.2 UJ	< 0.20 UJ	< 0.20 UJ	< 0.2 UJ
SONIC21	SONIC21-WG-046N-168	168 - 170	N	8/13/2020	< 0.30 UJ	< 0.2 UJ	< 0.20 UJ	< 0.20 UJ	< 0.2 UJ
SONIC21	SONIC21-WG-047N-183	183 - 185	N	8/13/2020	< 0.30 UJ	< 0.2 UJ	< 0.20 UJ	< 0.20 UJ	< 0.2 UJ
SONIC21	SONIC21-WG-048N-248	248 - 250	N	8/14/2020	< 0.30 UJ	< 0.2 UJ	< 0.20 UJ	< 0.20 UJ	< 0.2 UJ
SONIC22	SONIC22-WG-049N-041	41 - 45	N	7/27/2020	**15**	0.46 J+	< 0.20	< 0.20	< 0.20
SONIC22	SONIC22-WG-050N-051	51 - 55	N	7/27/2020	**15**	0.36 J+	< 0.20	< 0.20	< 0.20
SONIC22	SONIC22-WG-051FD-072	72 - 75	FD	7/27/2020	**15**	0.43 J+	< 0.20	< 0.20	< 0.20
SONIC22	SONIC22-WG-051N-072	72 - 75	N	7/27/2020	**15**	0.4 J+	< 0.20	< 0.20	< 0.20
SONIC22	SONIC22-WG-052N-087	87 - 90	N	7/27/2020	2.7	< 0.20	< 0.20	< 0.20	< 0.20
SONIC22	SONIC22-WG-053N-121	121 - 125	N	7/28/2020	< 0.30	< 0.20	< 0.20	< 0.20	< 0.20
SONIC22	SONIC22-WG-054N-156	156 - 160	N	7/28/2020	< 0.30	< 0.20	< 0.20	< 0.20	< 0.20
SONIC22	SONIC22-WG-402N-253	253 - 255	N	7/28/2020	< 0.30 UJ	< 0.20 UJ	< 0.20 UJ	< 0.20 UJ	< 0.20 UJ

Notes:

Bold font indicates result exceeds CA MCL.

<	less than method detection limit	CPT	cone penetration test
µg/L	micrograms per liter	ID	identification
-	potentially biased low	J	estimated value
+	potentially biased high	N	normal sample
bgs	below ground surface	PCE	tetrachloroethene
CA MCL	California Maximum Contaminant Level (drinking water standards)	UJ	estimated under method detection limit
FD	field duplicate		

TABLE 4: HISTORICAL GROUNDWATER PCE DATA COLLECTED BY OTHERS, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH “Y” PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)

AECOM. Regional Plume Characterization Summary Report: South “Y” PCE Plume 2019-2020 Field Season (June 10, 2022).

Table I-1 Historical Groundwater PCE Data Collected by Others
(Page 1 of 6)

Sample ID	Sample Date	Easting	Northing	Latitude	Longitude	Elevation (feet NAVD88)	Top Screen Depth (bgs)	Bottom Sample Depth (bgs)	Method	Matrix	Units	PCE	TCE	cis-1,2-DCE	VC	Report Sample ID	Source Report
CL-1	10/25/2017	7127563.72	2100470.01	38.9128911	-120.0109843	6278.37	104.38	114.38	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	NA	Clement Well Site_CL-1_ 10252017	KJC, 2018
CL-2	2/6/2019	7127549.42	2100485.34	38.9129340	-120.0110333	6278.36	69.4	79.4	EPA 8260B	Water	ug/L	1.85	<0.5	<0.5	<0.5	CL-2_20190206	EKI, 2019a
CL-3	2/6/2019	7127553.87	2100476.22	38.9129087	-120.0110184	6278.49	39.07	49.07	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	CL-3_20190206-DUP	EKI, 2019a
Clement	1/29/2019	7127472.52	2100455.93	38.9128579	-120.0113058	6282.58	40	120	EPA 8260B	Water	ug/L	0.36	<0.5	<0.5	<0.5	Clement_1/29/2019	SLT Water Purveyor, 2020
HZL-MW-3	6/27/2017	7129122.02	2101330.34	38.9151538	-120.0054295	6265.13	9	24	EPA 8260B	Water	ug/L	1.0	<0.5	<0.5	NA	HMW-3_20170627	KJC, 2018
HZL-MW-4	6/28/2017	7129120.45	2101124.47	38.9145888	-120.0054509	6266.66	9	24	EPA 8260B	Water	ug/L	9.1	<0.5	<0.5	NA	HMW-4_20170628	KJC, 2018
HZL-MW-5	6/26/2017	7129186.76	2101391.37	38.9153175	-120.0051973	6263.62	9	24	EPA 8260B	Water	ug/L	4.2	<0.5	<0.5	NA	HMW-5_20170626	KJC, 2018
LBWC #1	11/9/2020	7124239.48	2104069.62	38.9229718	-120.0223894	6261.44	132	182	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LBWC #1_11/9/2020	SLT Water Purveyor, 2020
LBWC #2	10/26/2017	7126621.33	2104809.06	38.9248591	-120.0139623	6251.45	132	156	EPA 8260B	Water	ug/L	3.60	<0.5	<0.5	<0.5	LBWC #2_10/26/2017	KJC, 2018
LBWC #4	10/26/2017	7128245.69	2103226.99	38.9204185	-120.0083757	6249.78	43	174	EPA 8260B	Water	ug/L	42.5	1.1	0.6	NA	LBWC #4_20171026	KJC, 2018
LBWC #4	3/16/2017	7128245.69	2103226.99	38.9204185	-120.0083757	6249.78	70	75	EPA 8260B	Water	ug/L	9.0	<0.5	<0.5	NA	LBWC #4_20170316	KJC, 2018
LBWC #4	3/16/2017	7128245.69	2103226.99	38.9204185	-120.0083757	6249.78	125	130	EPA 8260B	Water	ug/L	26.7	0.8	0.5	NA	LBWC #4_20170316	KJC, 2018
LBWC #5	7/10/2020	7126619.89	2104838.30	38.9249395	-120.0139651	6250.77	141	255	EPA 8260B	Water	ug/L	64	NA	NA	NA	LBWC #5_7/10/2020	SLT Water Purveyor, 2020
LTLW_5E	7/5/2017	7129020.80	2101894.38	38.9167135	-120.0057547	6262.05	19	23	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	5EGW23	EKI, 2017
LTLW_5E	7/5/2017	7129020.80	2101894.38	38.9167135	-120.0057547	6262.05	36	40	EPA 8260B	Water	ug/L	63.3	2.05	<0.5	<0.5	5EGW40	EKI, 2017
LTLW_5E	7/5/2017	7129020.80	2101894.38	38.9167135	-120.0057547	6262.05	45	49	EPA 8260B	Water	ug/L	124	4.53	1.21	<1	5EGW49	EKI, 2017
LTLW_5E	7/5/2017	7129020.80	2101894.38	38.9167135	-120.0057547	6262.05	76	80	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	5EGW80	EKI, 2017
LTLW_AS-14	5/2/2017	7129001.27	2100479.76	38.9128313	-120.0059324	6270.11	28.5	30	EPA 8260B	Water	ug/L	2.4	<0.5	<0.5	<0.5	AS-14_20170502	E_2C Remediation, 2017
LTLW_AS-19	5/2/2017	7129043.91	2100496.95	38.9128760	-120.0057812	6269.81	28.5	30	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	AS-19_20170502	E_2C Remediation, 2017
LTLW_AS-20	5/2/2017	7129071.46	2100516.84	38.9129289	-120.0056829	6270.21	28.5	30	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	AS-20_20170502	E_2C Remediation, 2017
LTLW_AS-21	5/2/2017	7129074.41	2100489.32	38.9128532	-120.0056747	6271.66	28.5	30	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	AS-21_20170503	E_2C Remediation, 2017
LTLW_AS-25	5/2/2017	7129094.42	2100531.58	38.9129680	-120.0056011	6270.18	28.5	30	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	AS-25_20170502	E_2C Remediation, 2017
LTLW_AS-6	5/2/2017	7128907.17	2100404.72	38.9126310	-120.0062688	6273.73	28.5	30	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	AS-6_20170504	E_2C Remediation, 2017
LTLW_AS-7	5/2/2017	7128899.36	2100425.44	38.9126884	-120.0062947	6270.51	27	28.5	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	AS-7_20170502	E_2C Remediation, 2017
LTLW_AS-8	5/2/2017	7128933.62	2100445.55	38.9127415	-120.0061727	6270.33	25.5	27	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	AS-8_20170502	E_2C Remediation, 2017
LTLW_DUN1	6/23/2017	7129523.82	2101199.14	38.9147747	-120.0040408	6271.95	20	24	EPA 8260B	Water	ug/L	3.11	<0.5	<0.5	<0.5	DUN1GW24	EKI, 2017
LTLW_DUN1	6/23/2017	7129523.82	2101199.14	38.9147747	-120.0040408	6271.95	28	32	EPA 8260B	Water	ug/L	0.93	<0.5	<0.5	<0.5	DUN1GW32	EKI, 2017
LTLW_DUN1	6/23/2017	7129523.82	2101199.14	38.9147747	-120.0040408	6271.95	52	56	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	DUN1GW56	EKI, 2017
LTLW_DUN1	6/23/2017	7129523.82	2101199.14	38.9147747	-120.0040408	6271.95	66	70	EPA 8260B	Water	ug/L	2.58	<0.5	<0.5	<0.5	DUN1GW70	EKI, 2017
LTLW_DUN2	6/27/2017	7129520.27	2101541.07	38.9157135	-120.0040269	6267.07	20	24	EPA 8260B	Water	ug/L	33.1	0.59	<0.5	<0.5	DUN2GW24	EKI, 2017
LTLW_DUN2	6/27/2017	7129520.27	2101541.07	38.9157135	-120.0040269	6267.07	28	32	EPA 8260B	Water	ug/L	16	<0.5	<0.5	<0.5	DUN2GW32	EKI, 2017
LTLW_DUN2	6/27/2017	7129520.27	2101541.07	38.9157135	-120.0040269	6267.07	52	56	EPA 8260B	Water	ug/L	0.74	<0.5	<0.5	<0.5	DUN2GW56	EKI, 2017
LTLW_DUN2	6/27/2017	7129520.27	2101541.07	38.9157135	-120.0040269	6267.07	66	70	EPA 8260B	Water	ug/L	1.03	<0.5	<0.5	<0.5	DUN2GW70	EKI, 2017
LTLW_FIF	6/30/2017	7128959.17	2101784.76	38.9164163	-120.0059797	6263.10	19	23	EPA 8260B	Water	ug/L	2.7	<0.5	<0.5	<0.5	FIFGW23	EKI, 2017
LTLW_FIF	6/30/2017	7128959.17	2101784.76	38.9164163	-120.0059797	6263.10	36	40	EPA 8260B	Water	ug/L	27.3	0.73	<0.5	<0.5	FIFGW40	EKI, 2017
LTLW_FIF	6/30/2017	7128959.17	2101784.76	38.9164163	-120.0059797	6263.10	45	49	EPA 8260B	Water	ug/L	1040	20.8	11.8	<5	FIFGW49	EKI, 2017
LTLW_FIF	6/30/2017	7128959.17	2101784.76	38.9164163	-120.0059797	6263.10	76	80	EPA 8260B	Water	ug/L	0.51	<0.5	<0.5	<0.5	FIFGW80	EKI, 2017
LTLW_J1	6/27/2017	7129479.08	2101365.12	38.9152330	-120.0041852	6268.16	20	24	EPA 8260B	Water	ug/L	5.35	<0.5	<0.5	<0.5	J1GW24	EKI, 2017
LTLW_J1	6/27/2017	7129479.08	2101365.12	38.9152330	-120.0041852	6268.16	28	32	EPA 8260B	Water	ug/L	9.95	<0.5	6.18	<0.5	J1GW32	EKI, 2017
LTLW_J1	6/27/2017	7129479.08	2101365.12	38.9152330	-120.0041852	6268.16	52	56	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	J1GW56	EKI, 2017
LTLW_J1	6/27/2017	7129479.08	2101365.12	38.9152330	-120.0041852	6268.16	66	70	EPA 8260B	Water	ug/L	0.9	<0.5	<0.5	<0.5	J1GW70	EKI, 2017
LTLW_J2	6/28/2017	7129250.85	2101426.89	38.9154163	-120.0049824	6263.72	18	22	EPA 8260B	Water	ug/L	25	<0.5	<0.5	<0.5	J2GW22	EKI, 2017
LTLW_J2	6/28/2017	7129250.85	2101426.89	38.9154163	-120.0049824	6263.72	35	39	EPA 8260B	Water	ug/L	694	14.3	<0.5	<5	J2GW39	EKI, 2017
LTLW_J2	6/28/2017	7129250.85	2101426.89	38.9154163	-120.0049824	6263.72	61	65	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	J2GW65	EKI, 2017
LTLW_J2	6/28/2017	7129250.85	2101426.89	38.9154163	-120.0049824	6263.72	66	70	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	J2GW70	EKI, 2017
LTLW_J3	6/28/2017	7129118.55	2101474.58	38.9155552	-120.0054436	6262.63	18	22	EPA 8260B	Water	ug/L	3.46	<0.5	<0.5	<0.5	J3GW22	EKI, 2017
LTLW_J3	6/28/2017	7129118.55	2101474.58	38.9155552	-120.0054436	6262.63	35	39	EPA 8260B	Water	ug/L	351	11.6	5.19	<5	J3GW39	EKI, 2017
LTLW_J3	6/28/2017	7129118.55	2101474.58	38.9155552	-120.0054436	6262.63	61	65	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	J3GW65	EKI, 2017
LTLW_J3	6/29/2017	7129118.55	2101474.58	38.9155552	-120.0054436	6262.63	66	70	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	J3GW70	EKI, 2017
LTLW_J4	6/29/2017	7129034.03	2101544.56	38.9157524	-120.0057352	6261.78	18	22	EPA 8260B	Water	ug/L	12	<0.5	<0.5	<0.5	J4GW22	EKI, 2017
LTLW_J4	6/29/2017	7129034.03	2101544.56	38.9157524	-120.0057352	6261.78	35	39	EPA 8260B	Water	ug/L	718	14.4	10.4	<5	J4GW39	EKI, 2017

Table I-1 Historical Groundwater PCE Data Collected by Others

Sample ID	Sample Date	Easting	Northing	Latitude	Longitude	Elevation (feet NAVD88)	Top Screen Depth (bgs)	Bottom Sample Depth (bgs)	Method	Matrix	Units	PCE	TCE	cis-1,2-DCE	VC	Report Sample ID	Source Report
LTLW_J4	6/29/2017	7129034.03	2101544.56	38.9157524	-120.0057352	6261.78	61	65	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	J4GW65	EKI, 2017
LTLW_J4	6/29/2017	7129034.03	2101544.56	38.9157524	-120.0057352	6261.78	66	70	EPA 8260B	Water	ug/L	0.53	<0.5	<0.5	<0.5	J4GW70	EKI, 2017
LTLW_J5	6/29/2017	7128902.54	2101664.12	38.9160886	-120.0061880	6263.90	18	22	EPA 8260B	Water	ug/L	18.5	<0.5	<0.5	<0.5	J5GW22	EKI, 2017
LTLW_J5	6/29/2017	7128902.54	2101664.12	38.9160886	-120.0061880	6263.90	35	39	EPA 8260B	Water	ug/L	338	8.64	3.65	<2.5	J5GW39	EKI, 2017
LTLW_J5	6/29/2017	7128902.54	2101664.12	38.9160886	-120.0061880	6263.90	61	65	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	J5GW65	EKI, 2017
LTLW_J5	6/30/2017	7128902.54	2101664.12	38.9160886	-120.0061880	6263.90	66	70	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	J5GW70	EKI, 2017
LTLW_J6	7/6/2017	7127736.55	2102457.17	38.9183358	-120.0102241	6266.24	25	29	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	J6GW29	EKI, 2017
LTLW_J6	7/6/2017	7127736.55	2102457.17	38.9183358	-120.0102241	6266.24	41	45	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	J6GW45	EKI, 2017
LTLW_J6	7/6/2017	7127736.55	2102457.17	38.9183358	-120.0102241	6266.24	49	53	EPA 8260B	Water	ug/L	0.68	<0.5	<0.5	<0.5	J6GW53	EKI, 2017
LTLW_J6	7/6/2017	7127736.55	2102457.17	38.9183358	-120.0102241	6266.24	69	73	EPA 8260B	Water	ug/L	99.1	1.45	1.16	<0.5	J6GW73	EKI, 2017
LTLW_KM1	6/26/2017	7129341.05	2099730.94	38.9107552	-120.0047963	6276.52	17	21	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	KM1GW21	EKI, 2017
LTLW_KM1	6/26/2017	7129341.05	2099730.94	38.9107552	-120.0047963	6276.52	28	32	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	KM1GW32	EKI, 2017
LTLW_KM1	6/26/2017	7129341.05	2099730.94	38.9107552	-120.0047963	6276.52	40	44	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	KM1GW44	EKI, 2017
LTLW_KM1	6/26/2017	7129341.05	2099730.94	38.9107552	-120.0047963	6276.52	66	70	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	KM1GW70	EKI, 2017
LTLW_KM2	6/26/2017	7129168.15	2099828.33	38.9110330	-120.0053963	6276.37	17	21	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	KM2GW21	EKI, 2017
LTLW_KM2	6/26/2017	7129168.15	2099828.33	38.9110330	-120.0053963	6276.37	28	32	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	KM2GW32	EKI, 2017
LTLW_KM2	6/26/2017	7129168.15	2099828.33	38.9110330	-120.0053963	6276.37	40	44	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	KM2GW44	EKI, 2017
LTLW_KM2	6/27/2017	7129168.15	2099828.33	38.9110330	-120.0053963	6276.37	66	70	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	KM2GW70	EKI, 2017
LTLW_LTB1	7/20/2017	7129687.53	2100944.71	38.9140663	-120.0034852	6272.73	18	22	EPA 8260B	Water	ug/L	1.01	<0.5	<0.5	<0.5	LTB1GW22	EKI, 2017
LTLW_LTB1	7/20/2017	7129687.53	2100944.71	38.9140663	-120.0034852	6272.73	28	32	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTB1GW32	EKI, 2017
LTLW_LTB1	7/20/2017	7129687.53	2100944.71	38.9140663	-120.0034852	6272.73	41	45	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTB1GW45	EKI, 2017
LTLW_LTB1	7/20/2017	7129687.53	2100944.71	38.9140663	-120.0034852	6272.73	48	52	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTB1GW52	EKI, 2017
LTLW_LTB1	7/20/2017	7129687.53	2100944.71	38.9140663	-120.0034852	6272.73	70	74	EPA 8260B	Water	ug/L	9.57	<0.5	<0.5	<0.5	LTB1GW74	EKI, 2017
LTLW_LTB2	7/19/2017	7129721.03	2100966.69	38.9141247	-120.0033658	6272.42	18	22	EPA 8260B	Water	ug/L	0.68	<0.5	<0.5	<0.5	LTB2GW22	EKI, 2017
LTLW_LTB2	7/19/2017	7129721.03	2100966.69	38.9141247	-120.0033658	6272.42	28	32	EPA 8260B	Water	ug/L	0.72	<0.5	<0.5	<0.5	LTB2GW32	EKI, 2017
LTLW_LTB2	7/19/2017	7129721.03	2100966.69	38.9141247	-120.0033658	6272.42	35	39	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTB2GW39	EKI, 2017
LTLW_LTB2	7/19/2017	7129721.03	2100966.69	38.9141247	-120.0033658	6272.42	45	49	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTB2GW49	EKI, 2017
LTLW_LTB2	7/19/2017	7129721.03	2100966.69	38.9141247	-120.0033658	6272.42	54	58	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTB2GW58	EKI, 2017
LTLW_LTB3	7/19/2017	7129786.45	2101012.65	38.9142469	-120.0031324	6272.40	18	22	EPA 8260B	Water	ug/L	0.91	<0.5	<0.5	<0.5	LTB3GW22	EKI, 2017
LTLW_LTB3	7/19/2017	7129786.45	2101012.65	38.9142469	-120.0031324	6272.40	28	32	EPA 8260B	Water	ug/L	1.18	<0.5	<0.5	<0.5	LTB3GW32	EKI, 2017
LTLW_LTB3	7/19/2017	7129786.45	2101012.65	38.9142469	-120.0031324	6272.40	41	45	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTB3GW45	EKI, 2017
LTLW_LTB3	7/20/2017	7129786.45	2101012.65	38.9142469	-120.0031324	6272.40	48	52	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTB3GW52	EKI, 2017
LTLW_LTB3	7/20/2017	7129786.45	2101012.65	38.9142469	-120.0031324	6272.40	70	74	EPA 8260B	Water	ug/L	5.48	<0.5	<0.5	<0.5	LTB3GW74	EKI, 2017
LTLW_LTB4	7/18/2017	7129819.81	2101040.71	38.9143219	-120.0030130	6271.97	18	22	EPA 8260B	Water	ug/L	1.03	<0.5	<0.5	<0.5	LTB4GW22	EKI, 2017
LTLW_LTB4	7/18/2017	7129819.81	2101040.71	38.9143219	-120.0030130	6271.97	24	28	EPA 8260B	Water	ug/L	0.58	<0.5	<0.5	<0.5	LTB4GW28	EKI, 2017
LTLW_LTB4	7/18/2017	7129819.81	2101040.71	38.9143219	-120.0030130	6271.97	35	39	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTB4GW39	EKI, 2017
LTLW_LTB4	7/18/2017	7129819.81	2101040.71	38.9143219	-120.0030130	6271.97	45	49	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTB4GW49	EKI, 2017
LTLW_LTB4	7/19/2017	7129819.81	2101040.71	38.9143219	-120.0030130	6271.97	54	58	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTB4GW58	EKI, 2017
LTLW_ROG	7/7/2017	7127431.86	2102003.25	38.9171080	-120.0113297	6272.32	25	29	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	ROGGW29	EKI, 2017
LTLW_ROG	7/7/2017	7127431.86	2102003.25	38.9171080	-120.0113297	6272.32	41	45	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	ROGGW45	EKI, 2017
LTLW_ROG	7/7/2017	7127431.86	2102003.25	38.9171080	-120.0113297	6272.32	49	53	EPA 8260B	Water	ug/L	0.78	<0.5	<0.5	<0.5	ROGGW53	EKI, 2017
LTLW_ROG	7/7/2017	7127431.86	2102003.25	38.9171080	-120.0113297	6272.32	69	73	EPA 8260B	Water	ug/L	30.5	0.61	0.93	<0.5	ROGGW73	EKI, 2017
LTLW_TATA	7/6/2017	7128350.66	2100226.28	38.9121747	-120.0082380	6270.84	24	28	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	TATAGW28	EKI, 2017
LTLW_TATA	7/6/2017	7128350.66	2100226.28	38.9121747	-120.0082380	6270.84	44	48	EPA 8260B	Water	ug/L	4.34	<0.5	<0.5	<0.5	TATAGW48	EKI, 2017
LTLW_TATA	7/6/2017	7128350.66	2100226.28	38.9121747	-120.0082380	6270.84	60	64	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	TATAGW64	EKI, 2017
LTLW_TATA	7/6/2017	7128350.66	2100226.28	38.9121747	-120.0082380	6270.84	70	74	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	TATAGW74	EKI, 2017
LTLW_TEN	6/23/2017	7127318.49	2102235.52	38.9177524	-120.0117102	6273.73	25	29	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	TENGW29	EKI, 2017
LTLW_TEN	6/23/2017	7127318.49	2102235.52	38.9177524	-120.0117102	6273.73	41	45	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	TENGW45	EKI, 2017
LTLW_TEN	6/23/2017	7127318.49	2102235.52	38.9177524	-120.0117102	6273.73	49	53	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	TENGW53	EKI, 2017
LTLW_TEN	6/23/2017	7127318.49	2102235.52	38.9177524	-120.0117102	6273.73	69	73	EPA 8260B	Water	ug/L	22	<0.5	<0.5	<0.5	TENGW73	EKI, 2017
LTLW_VE-2	5/2/2017	7128880.56	2100394.98	38.9126059	-120.0063631	6273.37	5	10	EPA 8260B	Water	ug/L	0.72	<0.5	<0.5	<0.5	VE-2_20170502	E_2C Remediation, 2017

Table I-1 Historical Groundwater PCE Data Collected by Others
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Sample ID	Sample Date	Easting	Northing	Latitude	Longitude	Elevation (feet NAVD88)	Top Screen Depth (bgs)	Bottom Sample Depth (bgs)	Method	Matrix	Units	PCE	TCE	cis-1,2-DCE	VC	Report Sample ID	Source Report
LTLW_VE-3	5/2/2017	7128929.48	2100412.29	38.9126505	-120.0061898	6273.62	12	14	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	VE-3_20170502	E_2C Remediation, 2017
LTLW_VE-4	5/2/2017	7128962.04	2100425.14	38.9126838	-120.0060744	6273.34	11	13	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	VE-4_20170502	E_2C Remediation, 2017
LTLW_VE-5	5/2/2017	7129015.50	2100443.16	38.9127300	-120.0058852	6273.04	11.4	13.4	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	VE-5_20170502	E_2C Remediation, 2017
LTLW-AS-13	5/3/2017	7128976.14	2100466.56	38.9127966	-120.0060217	6270.18	27.5	29	EPA 8260B	Water	ug/L	0.81	<0.5	<0.5	<0.5	AS-13_20170503	E_2C Remediation, 2017
LTLW-GW-1	1/9/2018	7128861.12	2100379.68	38.9125651	-120.0064326	6273.43	10	14	EPA 8260B	Water	ug/L	123	<1	<1	<1	LTLWGW1-14	EKI, 2019a
LTLW-GW-1	1/9/2018	7128861.12	2100379.68	38.9125651	-120.0064326	6273.43	22	26	EPA 8260B	Water	ug/L	7.78	<0.5	<0.5	<0.5	LTLWGW1-26	EKI, 2019a
LTLW-GW-1	1/9/2018	7128861.12	2100379.68	38.9125651	-120.0064326	6273.43	41	45	EPA 8260B	Water	ug/L	5.15	<0.5	<0.5	<0.5	LTLWGW1-45	EKI, 2019a
LTLW-GW-1	1/9/2018	7128861.12	2100379.68	38.9125651	-120.0064326	6273.43	59	63	EPA 8260B	Water	ug/L	4.27	<0.5	<0.5	<0.5	LTLWGW1-63	EKI, 2019a
LTLW-GW-1	1/9/2018	7128861.12	2100379.68	38.9125651	-120.0064326	6273.43	71	75	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTLWGW1-75	EKI, 2019a
LTLW-GW-10	10/3/2018	7128761.80	2100661.62	38.9133450	-120.0067598	6271.70	22	26	EPA 8260B	Water	ug/L	10.7	<0.5	<0.5	<0.5	LTLW-GW-10-26	EKI, 2019a
LTLW-GW-10	10/3/2018	7128761.80	2100661.62	38.9133450	-120.0067598	6271.70	30	34	EPA 8260B	Water	ug/L	23.2	<0.5	<0.5	<0.5	LTLW-GW-10-34	EKI, 2019a
LTLW-GW-10	10/3/2018	7128761.80	2100661.62	38.9133450	-120.0067598	6271.70	42	46	EPA 8260B	Water	ug/L	148	3.82	1.74	<1	LTLW-GW-10-46	EKI, 2019a
LTLW-GW-10	10/3/2018	7128761.80	2100661.62	38.9133450	-120.0067598	6271.70	57	61	EPA 8260B	Water	ug/L	290	8.26	5.04	<2.5	LTLW-GW-10-61	EKI, 2019a
LTLW-GW-10	10/3/2018	7128761.80	2100661.62	38.9133450	-120.0067598	6271.70	70	74	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTLW-GW-10-74	EKI, 2019a
LTLW-GW-11	10/4/2018	7128846.03	2100718.98	38.9134974	-120.0064594	6269.93	22	26	EPA 8260B	Water	ug/L	63.3	0.58	<0.5	<0.5	LTLW-GW-11-26	EKI, 2019a
LTLW-GW-11	10/4/2018	7128846.03	2100718.98	38.9134974	-120.0064594	6269.93	30	34	EPA 8260B	Water	ug/L	596	29.2	18.1	<5	LTLW-GW-11-34	EKI, 2019a
LTLW-GW-11	10/4/2018	7128846.03	2100718.98	38.9134974	-120.0064594	6269.93	42	46	EPA 8260B	Water	ug/L	1680	49.5	29.5	<10	LTLW-GW-11-46	EKI, 2019a
LTLW-GW-11	10/4/2018	7128846.03	2100718.98	38.9134974	-120.0064594	6269.93	56	60	EPA 8260B	Water	ug/L	0.66	<0.5	<0.5	<0.5	LTLW-GW-11-60	EKI, 2019a
LTLW-GW-11	10/4/2018	7128846.03	2100718.98	38.9134974	-120.0064594	6269.93	67	71	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTLW-GW-11-71	EKI, 2019a
LTLW-GW-12	10/4/2018	7129080.24	2100909.66	38.9140067	-120.0056218	6267.96	22	26	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTLW-GW-12-26	EKI, 2019a
LTLW-GW-12	10/4/2018	7129080.24	2100909.66	38.9140067	-120.0056218	6267.96	30	34	EPA 8260B	Water	ug/L	11.5	<0.5	<0.5	<0.5	LTLW-GW-12-34	EKI, 2019a
LTLW-GW-12	10/4/2018	7129080.24	2100909.66	38.9140067	-120.0056218	6267.96	42	46	EPA 8260B	Water	ug/L	10.9	<0.5	<0.5	<0.5	LTLW-GW-12-46	EKI, 2019a
LTLW-GW-12	10/4/2018	7129080.24	2100909.66	38.9140067	-120.0056218	6267.96	56	60	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTLW-GW-12-60	EKI, 2019a
LTLW-GW-12	10/5/2018	7129080.24	2100909.66	38.9140067	-120.0056218	6267.96	67	71	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTLW-GW-12-71	EKI, 2019a
LTLW-GW-13	3/13/2019	7128772.24	2100457.30	38.9127835	-120.0067389	6270.67	14	18	EPA 8260B	Water	ug/L	3.98	<0.5	<0.5	<0.5	LTLW-GW-13-18	EKI, 2019b
LTLW-GW-13	3/13/2019	7128772.24	2100457.30	38.9127835	-120.0067389	6270.67	25	29	EPA 8260B	Water	ug/L	0.76	<0.5	<0.5	<0.5	LTLW-GW-13-29	EKI, 2019b
LTLW-GW-13	3/13/2019	7128772.24	2100457.30	38.9127835	-120.0067389	6270.67	42	46	EPA 8260B	Water	ug/L	14.1	<0.5	<0.5	<0.5	LTLW-GW-13-46	EKI, 2019b
LTLW-GW-13	3/13/2019	7128772.24	2100457.30	38.9127835	-120.0067389	6270.67	58	62	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTLW-GW-13-62	EKI, 2019b
LTLW-GW-13	3/13/2019	7128772.24	2100457.30	38.9127835	-120.0067389	6270.67	72	76	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTLW-GW-13-76	EKI, 2019b
LTLW-GW-14	3/12/2019	7128755.22	2100495.15	38.9128884	-120.0067958	6271.18	14	18	EPA 8260B	Water	ug/L	11.7	<0.5	<0.5	<0.5	LTLW-GW-14-18	EKI, 2019b
LTLW-GW-14	3/12/2019	7128755.22	2100495.15	38.9128884	-120.0067958	6271.18	25	29	EPA 8260B	Water	ug/L	3.40	<0.5	<0.5	<0.5	LTLW-GW-14-29	EKI, 2019b
LTLW-GW-14	3/12/2019	7128755.22	2100495.15	38.9128884	-120.0067958	6271.18	42	46	EPA 8260B	Water	ug/L	40.4	<0.5	<0.5	<0.5	LTLW-GW-14-46	EKI, 2019b
LTLW-GW-14	3/12/2019	7128755.22	2100495.15	38.9128884	-120.0067958	6271.18	58	62	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTLW-GW-14-62-DUP	EKI, 2019b
LTLW-GW-14	3/13/2019	7128755.22	2100495.15	38.9128884	-120.0067958	6271.18	72	76	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTLW-GW-14-76	EKI, 2019b
LTLW-GW-15	3/13/2019	7128734.04	2100543.41	38.9130222	-120.0068665	6272.15	14	18	EPA 8260B	Water	ug/L	7.79	<0.5	<0.5	<0.5	LTLW-GW-15-18	EKI, 2019b
LTLW-GW-15	3/13/2019	7128734.04	2100543.41	38.9130222	-120.0068665	6272.15	25	29	EPA 8260B	Water	ug/L	7.17	<0.5	0.92	<0.5	LTLW-GW-15-29	EKI, 2019b
LTLW-GW-15	3/13/2019	7128734.04	2100543.41	38.9130222	-120.0068665	6272.15	42	46	EPA 8260B	Water	ug/L	94.4	<1	1.75	<1	LTLW-GW-15-46	EKI, 2019b
LTLW-GW-15	3/13/2019	7128734.04	2100543.41	38.9130222	-120.0068665	6272.15	58	62	EPA 8260B	Water	ug/L	11	<0.5	<0.5	<0.5	LTLW-GW-15-62	EKI, 2019b
LTLW-GW-15	3/13/2019	7128734.04	2100543.41	38.9130222	-120.0068665	6272.15	72	76	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTLW-GW-15-76	EKI, 2019b
LTLW-GW-16	4/24/2019	7128913.42	2099319.01	38.9096502	-120.0063306	6281.23	6	10	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	GW-16-10	EKI, 2019b
LTLW-GW-16	4/24/2019	7128913.42	2099319.01	38.9096502	-120.0063306	6281.23	24	28	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	GW-16-28	EKI, 2019b
LTLW-GW-16	4/24/2019	7128913.42	2099319.01	38.9096502	-120.0063306	6281.23	36	40	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	GW-16-40	EKI, 2019b
LTLW-GW-16	4/24/2019	7128913.42	2099319.01	38.9096502	-120.0063306	6281.23	40	44	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	GW-16-DUP	EKI, 2019b
LTLW-GW-16	4/24/2019	7128913.42	2099319.01	38.9096502	-120.0063306	6281.23	50	54	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	GW-16-54	EKI, 2019b
LTLW-GW-16	4/24/2019	7128913.42	2099319.01	38.9096502	-120.0063306	6281.23	65	69	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	GW-16-69	EKI, 2019b
LTLW-GW-17	4/23/2019	7128715.94	2099614.14	38.9104723	-120.0070017	6280.92	6	10	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	GW-17-10	EKI, 2019b
LTLW-GW-17	4/23/2019	7128715.94	2099614.14	38.9104723	-120.0070017	6280.92	24	28	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	GW-17-28	EKI, 2019b
LTLW-GW-17	4/23/2019	7128715.94	2099614.14	38.9104723	-120.0070017	6280.92	36	40	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	GW-17-40	EKI, 2019b
LTLW-GW-17	4/23/2019	7128715.94	2099614.14	38.9104723	-120.0070017	6280.92	40	44	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	GW-17-44	EKI, 2019b
LTLW-GW-17	4/24/2019	7128715.94	2099614.14	38.9104723	-120.0070017	6280.92	50	54	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	GW-17-54	EKI, 2019b
LTLW-GW-17	4/24/2019	7128715.94	2099614.14	38.9104723	-120.0070017	6280.92	65	69	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	GW-17-69	EKI, 2019b

Table I-1 Historical Groundwater PCE Data Collected by Others

Sample ID	Sample Date	Easting	Northing	Latitude	Longitude	Elevation (feet NAVD88)	Top Screen Depth (bgs)	Bottom Sample Depth (bgs)	Method	Matrix	Units	PCE	TCE	cis-1,2-DCE	VC	Report Sample ID	Source Report
LTLW-GW-18	4/25/2019	7128549.92	2099896.26	38.9112567	-120.0075633	6276.17	6	10	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	GW-18-10	EKI, 2019b
LTLW-GW-18	4/25/2019	7128549.92	2099896.26	38.9112567	-120.0075633	6276.17	24	28	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	GW-18-28	EKI, 2019b
LTLW-GW-18	4/25/2019	7128549.92	2099896.26	38.9112567	-120.0075633	6276.17	36	40	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	GW-18-40	EKI, 2019b
LTLW-GW-18	4/25/2019	7128549.92	2099896.26	38.9112567	-120.0075633	6276.17	40	44	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	GW-18-44	EKI, 2019b
LTLW-GW-18	4/25/2019	7128549.92	2099896.26	38.9112567	-120.0075633	6276.17	50	54	EPA 8260B	Water	ug/L	0.64	<0.5	<0.5	<0.5	GW-18-54	EKI, 2019b
LTLW-GW-18	4/25/2019	7128549.92	2099896.26	38.9112567	-120.0075633	6276.17	65	69	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	GW-18-69	EKI, 2019b
LTLW-GW-19	4/26/2019	7129115.24	2100536.45	38.9129801	-120.0055276	6270.31	6	10	EPA 8260B	Water	ug/L	4.18	<0.5	<0.5	<0.5	GW-19-10	EKI, 2019b
LTLW-GW-19	4/26/2019	7129115.24	2100536.45	38.9129801	-120.0055276	6270.31	16	20	EPA 8260B	Water	ug/L	1.47	<0.5	<0.5	<0.5	GW-19-20	EKI, 2019b
LTLW-GW-19	4/26/2019	7129115.24	2100536.45	38.9129801	-120.0055276	6270.31	24	28	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	GW-19-28	EKI, 2019b
LTLW-GW-19	4/26/2019	7129115.24	2100536.45	38.9129801	-120.0055276	6270.31	41	45	EPA 8260B	Water	ug/L	7.98	<0.5	<0.5	<0.5	GW-19-45	EKI, 2019b
LTLW-GW-19	4/26/2019	7129115.24	2100536.45	38.9129801	-120.0055276	6270.31	59	63	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	GW-19-63	EKI, 2019b
LTLW-GW-19	4/26/2019	7129115.24	2100536.45	38.9129801	-120.0055276	6270.31	69	73	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	GW-19-73	EKI, 2019b
LTLW-GW-2	1/4/2018	7128642.02	2100267.82	38.9122712	-120.0072110	6271.64	7	11	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTLWGW2-11	EKI, 2019a
LTLW-GW-2	1/4/2018	7128642.02	2100267.82	38.9122712	-120.0072110	6271.64	14	18	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTLWGW2-18	EKI, 2019a
LTLW-GW-2	1/4/2018	7128642.02	2100267.82	38.9122712	-120.0072110	6271.64	29	33	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTLWGW2-33	EKI, 2019a
LTLW-GW-2	1/4/2018	7128642.02	2100267.82	38.9122712	-120.0072110	6271.64	46	50	EPA 8260B	Water	ug/L	1.41	<0.5	<0.5	<0.5	LTLWGW2-50	EKI, 2019a
LTLW-GW-2	1/4/2018	7128642.02	2100267.82	38.9122712	-120.0072110	6271.64	72	76	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTLWGW2-76	EKI, 2019a
LTLW-GW-20	4/25/2019	7129412.55	2100807.72	38.9137069	-120.0044620	6273.18	6	10	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	GW-20-10	EKI, 2019b
LTLW-GW-20	4/25/2019	7129412.55	2100807.72	38.9137069	-120.0044620	6273.18	28	32	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	GW-20-32	EKI, 2019b
LTLW-GW-20	4/25/2019	7129412.55	2100807.72	38.9137069	-120.0044620	6273.18	41	45	EPA 8260B	Water	ug/L	14.2	<0.5	<0.5	<0.5	GW-20-45	EKI, 2019b
LTLW-GW-20	4/25/2019	7129412.55	2100807.72	38.9137069	-120.0044620	6273.18	48	52	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	GW-20-52	EKI, 2019b
LTLW-GW-20	4/25/2019	7129412.55	2100807.72	38.9137069	-120.0044620	6273.18	70	74	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	GW-20-74	EKI, 2019b
LTLW-GW-21	4/22/2019	7129689.42	2100029.57	38.9115540	-120.0035492	6275.10	7	11	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	GW-21-11	EKI, 2019b
LTLW-GW-21	4/22/2019	7129689.42	2100029.57	38.9115540	-120.0035492	6275.10	21	25	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	GW-21-25	EKI, 2019b
LTLW-GW-21	4/22/2019	7129689.42	2100029.57	38.9115540	-120.0035492	6275.10	32	36	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	GW-21-36	EKI, 2019b
LTLW-GW-21	4/22/2019	7129689.42	2100029.57	38.9115540	-120.0035492	6275.10	42	46	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	GW-21-46	EKI, 2019b
LTLW-GW-21	4/22/2019	7129689.42	2100029.57	38.9115540	-120.0035492	6275.10	54	58	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	GW-21-DUP	EKI, 2019b
LTLW-GW-21	4/23/2019	7129689.42	2100029.57	38.9115540	-120.0035492	6275.10	68	72	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	GW-21-72	EKI, 2019b
LTLW-GW-3	1/9/2018	7128884.79	2100262.89	38.9122430	-120.0063584	6272.30	10	14	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTLWGW3-14	EKI, 2019a
LTLW-GW-3	1/9/2018	7128884.79	2100262.89	38.9122430	-120.0063584	6272.30	22	26	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTLWGW3-26	EKI, 2019a
LTLW-GW-3	1/9/2018	7128884.79	2100262.89	38.9122430	-120.0063584	6272.30	41	45	EPA 8260B	Water	ug/L	31.7	0.66	<0.5	<0.5	LTLWGW3-45	EKI, 2019a
LTLW-GW-3	1/10/2018	7128884.79	2100262.89	38.9122430	-120.0063584	6272.30	59	63	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTLWGW3-63	EKI, 2019a
LTLW-GW-3	1/10/2018	7128884.79	2100262.89	38.9122430	-120.0063584	6272.30	71	75	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTLWGW3-75	EKI, 2019a
LTLW-GW-4	1/10/2018	7128833.12	2100441.68	38.9127369	-120.0065262	6271.51	10	14	EPA 8260B	Water	ug/L	3.15	<0.5	<0.5	<0.5	LTLWGW4-14	EKI, 2019a
LTLW-GW-4	1/10/2018	7128833.12	2100441.68	38.9127369	-120.0065262	6271.51	22	26	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTLWGW4-26-DUP	EKI, 2019a
LTLW-GW-4	1/10/2018	7128833.12	2100441.68	38.9127369	-120.0065262	6271.51	41	45	EPA 8260B	Water	ug/L	16.3	<0.5	<0.5	<0.5	LTLWGW4-45	EKI, 2019a
LTLW-GW-4	1/10/2018	7128833.12	2100441.68	38.9127369	-120.0065262	6271.51	59	63	EPA 8260B	Water	ug/L	0.62	<0.5	<0.5	<0.5	LTLWGW4-63	EKI, 2019a
LTLW-GW-4	1/10/2018	7128833.12	2100441.68	38.9127369	-120.0065262	6271.51	71	75	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTLWGW4-75	EKI, 2019a
LTLW-GW-5	1/8/2018	7128887.83	2100479.89	38.9128385	-120.0063310	6270.87	10	14	EPA 8260B	Water	ug/L	6.67	<0.5	<0.5	<0.5	LTLWGW5-14-DUP	EKI, 2019a
LTLW-GW-5	1/8/2018	7128887.83	2100479.89	38.9128385	-120.0063310	6270.87	22	26	EPA 8260B	Water	ug/L	7.27	<0.5	<0.5	<0.5	LTLWGW5-26	EKI, 2019a
LTLW-GW-5	1/8/2018	7128887.83	2100479.89	38.9128385	-120.0063310	6270.87	38	42	EPA 8260B	Water	ug/L	15.7	<0.5	<0.5	<0.5	LTLWGW5-42	EKI, 2019a
LTLW-GW-5	1/8/2018	7128887.83	2100479.89	38.9128385	-120.0063310	6270.87	56	60	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTLWGW5-60	EKI, 2019a
LTLW-GW-5	1/8/2018	7128887.83	2100479.89	38.9128385	-120.0063310	6270.87	69	73	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTLWGW5-73	EKI, 2019a
LTLW-GW-6	1/8/2018	7128952.83	2100510.39	38.9129183	-120.0061002	6270.71	10	14	EPA 8260B	Water	ug/L	6.38	0.7	0.64	<0.5	LTLWGW6-14	EKI, 2019a
LTLW-GW-6	1/8/2018	7128952.83	2100510.39	38.9129183	-120.0061002	6270.71	22	26	EPA 8260B	Water	ug/L	0.62	<0.5	<0.5	<0.5	LTLWGW6-26	EKI, 2019a
LTLW-GW-6	1/8/2018	7128952.83	2100510.39	38.9129183	-120.0061002	6270.71	38	42	EPA 8260B	Water	ug/L	0.56	<0.5	<0.5	<0.5	LTLWGW6-42	EKI, 2019a
LTLW-GW-6	1/8/2018	7128952.83	2100510.39	38.9129183	-120.0061002	6270.71	56	60	EPA 8260B	Water	ug/L	0.55	<0.5	<0.5	<0.5	LTLWGW6-60	EKI, 2019a
LTLW-GW-6	1/8/2018	7128952.83	2100510.39	38.9129183	-120.0061002	6270.71	69	73	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTLWGW6-73	EKI, 2019a
LTLW-GW-7	1/5/2018	7129093.65	2100582.25	38.9131071	-120.0055999	6270.72	10	14	EPA 8260B	Water	ug/L	1.27	<0.5	<0.5	<0.5	LTLWGW7-14	EKI, 2019a
LTLW-GW-7	1/5/2018	7129093.65	2100582.25	38.9131071	-120.0055999	6270.72	22	26	EPA 8260B	Water	ug/L	3.61	<0.5	<0.5	<0.5	LTLWGW7-26	EKI, 2019a
LTLW-GW-7	1/5/2018	7129093.65	2100582.25	38.9131071	-120.0055999	6270.72	38	42	EPA 8260B	Water	ug/L	28.6	0.53	<0.5	<0.5	LTLWGW7-42	EKI, 2019a
LTLW-GW-7	1/5/2018	7129093.65	2100582.25	38.9131071	-120.0055999	6270.72	56	60	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTLWGW7-60	EKI, 2019a

Table I-1 Historical Groundwater PCE Data Collected by Others
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Sample ID	Sample Date	Easting	Northing	Latitude	Longitude	Elevation (feet NAVD88)	Top Screen Depth (bgs)	Bottom Sample Depth (bgs)	Method	Matrix	Units	PCE	TCE	cis-1,2-DCE	VC	Report Sample ID	Source Report
LTLW-GW-7	1/5/2018	7129093.65	2100582.25	38.9131071	-120.0055999	6270.72	69	73	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTLWGW7-73	EKI, 2019a
LTLW-GW-8	10/2/2018	7128934.67	2100779.39	38.9136579	-120.0061433	6268.56	22	26	EPA 8260B	Water	ug/L	2.86	<0.5	<0.5	<0.5	LTLW-GW-8-26	EKI, 2019a
LTLW-GW-8	10/2/2018	7128934.67	2100779.39	38.9136579	-120.0061433	6268.56	30	34	EPA 8260B	Water	ug/L	3.39	<0.5	<0.5	<0.5	LTLW-GW-8-34	EKI, 2019a
LTLW-GW-8	10/2/2018	7128934.67	2100779.39	38.9136579	-120.0061433	6268.56	42	46	EPA 8260B	Water	ug/L	145	2.69	2.19	<1	LTLW-GW-8-46	EKI, 2019a
LTLW-GW-8	10/2/2018	7128934.67	2100779.39	38.9136579	-120.0061433	6268.56	58	62	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTLW-GW-8-62	EKI, 2019a
LTLW-GW-8	10/2/2018	7128934.67	2100779.39	38.9136579	-120.0061433	6268.56	72	76	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTLW-GW-8-76	EKI, 2019a
LTLW-GW-9	10/3/2018	7129010.31	2100829.17	38.9137900	-120.0058737	6268.56	22	26	EPA 8260B	Water	ug/L	7.8	<0.5	<0.5	<0.5	LTLW-GW-9-26	EKI, 2019a
LTLW-GW-9	10/3/2018	7129010.31	2100829.17	38.9137900	-120.0058737	6268.56	30	34	EPA 8260B	Water	ug/L	16.3	1.06	0.64	<0.5	LTLW-GW-9-34-DUP	EKI, 2019a
LTLW-GW-9	10/3/2018	7129010.31	2100829.17	38.9137900	-120.0058737	6268.56	42	46	EPA 8260B	Water	ug/L	503	8.37	6.4	<5	LTLW-GW-9-46	EKI, 2019a
LTLW-GW-9	10/3/2018	7129010.31	2100829.17	38.9137900	-120.0058737	6268.56	58	62	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTLW-GW-9-62	EKI, 2019a
LTLW-GW-9	10/3/2018	7129010.31	2100829.17	38.9137900	-120.0058737	6268.56	72	76	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	LTLW-GW-9-76	EKI, 2019a
LTLW-MW-10SR	3/28/2019	7128880.41	2100287.05	38.9123096	-120.0063719	6272.33	10	25	EPA 8260B	Water	ug/L	0.59	<0.5	<0.5	<0.5	MW-10SR_20190328	PES. 2020a
LTLW-MW-11S	12/19/2019	7129049.08	2100416.32	38.9126543	-120.0057693	6272.08	10	25	EPA 8260B	Water	ug/L	1.9	<0.5	<0.5	<0.5	LW-MW-11S20191219_DUP	PES. 2020a
LTLW-MW-12S	6/25/2018	7128815.51	2100345.91	38.9124751	-120.0065954	6271.11	10	25	EPA 8260B	Water	ug/L	0.82	<0.5	<0.5	<0.5	LW-MW-12S20180625_DUP	E_2C Remediation, 2018b
LTLW-MW-13S	6/25/2018	7129130.96	2100485.10	38.9128382	-120.0054763	6271.28	10	25	EPA 8260B	Water	ug/L	1	<0.5	<0.5	<0.5	LW-MW-13S20180625	E_2C Remediation, 2018b
LTLW-MW-1D	6/3/2019	7128852.53	2100363.37	38.9125208	-120.0064640	6271.81	40	50	EPA 8260B	Water	ug/L	110	9.8	12	2.1	LW-MW-1D20190603	PES. 2019b
LTLW-MW-1S	9/26/2018	7128852.53	2100363.37	38.9125208	-120.0064640	6271.94	15	25	EPA 8260B	Water	ug/L	110	0.57	0.92	<0.5	LW-MW-1S20180926	E_2C Remediation, 2018c
LTLW-MW-2D	6/25/2018	7128858.48	2100392.97	38.9126017	-120.0064408	6272.80	39.5	49.5	EPA 8260B	Water	ug/L	27	<0.5	<0.5	<0.5	LW-MW-2D20180625	E_2C Remediation, 2018b
LTLW-MW-2S	4/4/2018	7128858.48	2100392.97	38.9126017	-120.0064408	6272.84	22.5	32.5	EPA 8260B	Water	ug/L	3.6	<0.5	<0.5	<0.5	LW-MW-2S20180404	E_2C Remediation, 2018a
LTLW-MW-5D	8/12/2020	7128958.33	2100462.52	38.9127866	-120.0060846	6269.76	40.5	50.5	EPA 8260B	Water	ug/L	0.36 J	<0.5	<0.5	<0.5	LW-MW-5D20200812	PES. 2020c
LTLW-MW-5S	8/12/2020	7128958.33	2100462.52	38.9127866	-120.0060846	6269.99	19	29	EPA 8260B	Water	ug/L	7.4	0.18 J	<0.5	<0.5	LW-MW-5S20200812	PES. 2020c
LTLW-MW-9S	8/12/2020	7128934.00	2100402.86	38.9126243	-120.0061747	6273.46	10	25	EPA 8260B	Water	ug/L	170	3.7 J	2.3 J	<5.0	LW-MW-9S20200812	PES. 2020c
LTLW-OS-1	8/12/2020	7129225.71	2101009.88	38.9142731	-120.0051029	6268.58	10	25	EPA 8260B	Water	ug/L	14	<0.5	<0.5	<0.5	OS-1_20200812	PES. 2020c
LTLW-OS-2M	11/7/2018	7128996.24	2100823.04	38.9137740	-120.0059236	6267.62	42	48	EPA 8260B	Water	ug/L	1580	54.4	37.2	<10	OS-2M20181107	PES. 2019a
LTLW-OS-2S	11/7/2018	7128991.27	2100820.12	38.9137663	-120.0059413	6267.57	8.5	23.5	EPA 8260B	Water	ug/L	51.3	<0.5	<0.5	<0.5	OS-2S20181107	PES. 2019a
LTLW-OS-3M	3/26/2020	7128477.27	2101269.91	38.9150320	-120.0077127	6270.52	38	48	EPA 8260B	Water	ug/L	210	3.7	2.1	<0.5	OS-3M20200326	PES. 2020b
LTLW-OS-3S	8/12/2020	7128482.37	2101265.58	38.9150198	-120.0076951	6270.12	8.5	23.5	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	OS-3S20200812	PES. 2020c
LTLW-OS-4M	11/7/2018	7129104.67	2101480.20	38.9155715	-120.0054919	6262.37	33	43	EPA 8260B	Water	ug/L	540	11.6	6.38	<0.5	OS-4M20181107	PES. 2019a
LTLW-OS-4S	11/7/2018	7129109.66	2101475.90	38.9155594	-120.0054747	6262.47	9	24	EPA 8260B	Water	ug/L	5.22	<0.5	<0.5	<0.5	OS-4S20181107	PES. 2019a
LTLW-VE-10	5/4/2017	7129038.04	2100489.50	38.9128559	-120.0058024	6269.87	10	12	EPA 8260B	Water	ug/L	0.64	<0.5	<0.5	<0.5	VE-10_20170504	E_2C Remediation, 2017
LTLW-VE-11	5/3/2017	7128991.27	2100471.84	38.9128102	-120.0059681	6270.35	10	12	EPA 8260B	Water	ug/L	<0.5	<0.5	2.1	<0.5	VE-11_20170503	E_2C Remediation, 2017
LTLW-VE-12	5/4/2017	7128942.66	2100449.22	38.9127510	-120.0061407	6270.35	9.5	11.5	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	VE-12_20170504	E_2C Remediation, 2017
LTLW-VE-13	5/4/2017	7128902.37	2100427.45	38.9126937	-120.0062839	6270.57	11.5	13.5	EPA 8260B	Water	ug/L	1.1	<0.5	<0.5	<0.5	VE-13_20170504	E_2C Remediation, 2017
LTLW-VE-3	5/4/2017	7128929.48	2100412.29	38.9126505	-120.0061898	6273.62	12	14	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	VE-3_20170504	E_2C Remediation, 2017
PDI-EW-1C	5/1/2018	7129152.82	2101925.09	38.9167899	-120.0052884	6262.48	30	35	EPA 8260B	Water	ug/L	30.7	0.8	<0.5	<0.5	EW-1 Zone 1	KJC, 2019
PDI-EW-1C	5/2/2018	7129152.82	2101925.09	38.9167899	-120.0052884	6262.48	41	51	EPA 8260B	Water	ug/L	66	2.8	<0.5	<0.5	EW-1 Zone 2	KJC, 2019
PDI-EW-1C	7/11/2018	7129152.82	2101925.09	38.9167899	-120.0052884	6262.48	44.6	59.6	EPA 8260B	Water	ug/L	64	3.9	1.1	<0.5	EW-1C_1hr_20180711	KJC, 2019
PDI-EW-1C	5/3/2018	7129152.82	2101925.09	38.9167899	-120.0052884	6262.48	60	70	EPA 8260B	Water	ug/L	1.5	<0.5	<0.5	<0.5	EW-1 Zone 3	KJC, 2019
PDI-EW-1C	5/5/2018	7129152.82	2101925.09	38.9167899	-120.0052884	6262.48	119	124	EPA 8260B	Water	ug/L	<0.5	0.6	<0.5	<0.5	EW-1 Zone 5	KJC, 2019
Rockwater	7/6/2017	7127354.76	2102570.27	38.9186640	-120.0115440	6274.12	70	99	EPA 8260B	Water	ug/L	189	3.3	3.3	NA	Rockwater_20170706	KJC, 2018
SM-EW-4D	5/2/2018	7128689.06	2102127.42	38.9173733	-120.0069024	6264.99	120	140	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	EW-4D, 5/2/2018	KJC, 2019
SM-MW-10B	5/2/2018	7128519.04	2102240.78	38.9176947	-120.0074911	6264.43	35	50	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	MW-10B, 5/2/2018	KJC, 2019
SM-MW-10C	5/2/2018	7128513.73	2102244.29	38.9177046	-120.0075095	6264.56	65	80	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	<0.5	MW-10C, 5/2/2018	KJC, 2019
SM-MW-4A	5/2/2018	7129114.75	2101826.12	38.9165205	-120.0054298	6259.11	15	25	EPA 8260B	Water	ug/L	1.5	<0.5	<0.5	<0.5	MW-4A, 5/2/2018	KJC, 2019
SM-MW-4B	5/2/2018	7129114.79	2101825.88	38.9165198	-120.0054297	6259.27	35	50	EPA 8260B	Water	ug/L	64	2.3	0.8	<0.5	MW-4B, 5/2/2018	KJC, 2019
SM-MW-4C	6/26/2017	7129112.78	2101828.02	38.9165258	-120.0054366	6259.56	59	79	EPA 8260B	Water	ug/L	1.0	<0.5	<0.5	NA	MW-4C_20170626	KJC, 2018
SM-MW-4C	5/2/2018	7129112.78	2101828.02	38.9165258	-120.0054366	6259.56	59	79	EPA 8260B	Water	ug/L	2.7	<0.5	<0.5	<0.5	MW-4C, 5/2/2018	KJC, 2019
SM-MW-7C	5/2/2018	7128391.99	2102791.70	38.9192147	-120.0078951	6254.53	60	80	EPA 8260B	Water	ug/L	3.4	<0.5	0.6	<0.5	MW-7C, 5/2/2018	KJC, 2019
SM-MW-7D	5/2/2018	7128394.74	2102789.78	38.9192093	-120.0078856	6254.65	120	140	EPA 8260B	Water	ug/L	14	<0.5	<0.5	<0.5	MW-7D, 5/2/2018	KJC, 2019
SM-MW-9A	6/29/2017	7129159.31	2102102.28	38.9172707	-120.0052389	6260.85	15	25	EPA 8260B	Water	ug/L	<0.5	<0.5	<0.5	NA	MW-9A_20170629	KJC, 2018

Table I-1 Historical Groundwater PCE Data Collected by Others

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Sample ID	Sample Date	Easting	Northing	Latitude	Longitude	Elevation (feet NAVD88)	Top Screen Depth (bgs)	Bottom Sample Depth (bgs)	Method	Matrix	Units	PCE	TCE	cis-1,2-DCE	VC	Report Sample ID	Source Report
SM-MW-9B	6/29/2017	7129159.31	2102102.28	38.9172707	-120.0052389	6260.85	35	50	EPA 8260B	Water	ug/L	4.6	<0.5	<0.5	NA	MW-9B_20170629	KJC, 2018
SM-MW-9C	6/28/2017	7129159.31	2102102.28	38.9172707	-120.0052389	6260.85	65	80	EPA 8260B	Water	ug/L	2.0	<0.5	<0.5	NA	MW-9C_20170628	KJC, 2018
TKWC #1	9/15/2020	7129225.45	2107866.41	38.9330954	-120.0045747	6238.18	78	341	EPA 8260B	Water	ug/L	3.6	NA	NA	NA	TKPOA #1_9/15/2020	SLT Water Purveyor, 2020
TKWC #2	5/12/2020	7127263.75	2105977.30	38.9280276	-120.0116148	6237.87	75	510	EPA 8260B	Water	ug/L	31	NA	NA	NA	TKPOA #2_5/12/2020	SLT Water Purveyor, 2020
TKWC #3	3/3/2020	7124155.08	2106708.39	38.9302208	-120.0224842	6238.79	117	364	EPA 8260B	Water	ug/L	1.1	NA	NA	NA	TKPOA #3_3/3/2020	SLT Water Purveyor, 2020

Notes:

Eastings and northings are in NAD 83 CA State Plane Zone 2 survey feet.
Latitude and longitude are in Universal Transverse Mercator (UTM).
bgs = below ground surface
cis-1,2-DCE = cis-1,2-dichloroethene
ID = identification
NA = not analyzed
NAVD88 = North American Vertical Datum of 1988
PCE = tetrachloroethene
TCE = trichloroethene
VC = vinyl chloride
ug/L = micrograms per liter

References:

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KJC. 2019. Final Pre Design Investigation Report for Remedial Alternatives to Mitigate Tetrachloroethylene Contamination. July.
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PES. 2019b. Second Quarter 2019 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California. September.
PES. 2020a. Fourth Quarter 2019 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California. March.
PES. 2020b. First Quarter 2020 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California. June.
PES. 2020c. First Quarter 2020 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California. September.
South Lake Tahoe (SLT) Water Purveyor. 2020. Data provided by South Lake Tahoe water purveyors.

TABLE 5: LITHOLOGIC INPUT DATA, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH “Y” PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)

AECOM. Regional Plume Characterization Summary Report: South “Y” PCE Plume 2019-2020 Field Season (June 10, 2022).

Table I-2 Lithology Input Data
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Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"5ECPT"	2101894.384	7129020.8	6262.064	6257.143	6256.815	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6256.815	6256.158	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6256.158	6246.808	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6246.808	6246.48	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6246.48	6243.855	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6243.855	6243.691	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6243.691	6243.527	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6243.527	6243.363	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6243.363	6241.887	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6241.887	6239.59	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6239.59	6239.426	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6239.426	6239.262	CL/ML
"5ECPT"	2101894.384	7129020.8	6262.064	6239.262	6239.098	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6239.098	6238.934	CL/ML
"5ECPT"	2101894.384	7129020.8	6262.064	6238.934	6238.114	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6238.114	6237.95	CL/ML
"5ECPT"	2101894.384	7129020.8	6262.064	6237.95	6237.786	CL/ML
"5ECPT"	2101894.384	7129020.8	6262.064	6237.786	6237.622	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6237.622	6237.458	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6237.458	6237.13	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6237.13	6236.966	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6236.966	6236.309	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6236.309	6236.145	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6236.145	6235.981	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6235.981	6235.817	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6235.817	6235.653	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6235.653	6234.177	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6234.177	6233.521	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6233.521	6224.17	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6224.17	6224.006	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6224.006	6223.514	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6223.514	6223.022	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6223.022	6222.858	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6222.858	6222.366	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6222.366	6222.202	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6222.202	6222.038	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6222.038	6221.382	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6221.382	6221.218	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6221.218	6221.053	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6221.053	6220.889	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6220.889	6219.741	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6219.741	6219.577	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6219.577	6219.413	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6219.413	6218.593	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6218.593	6218.429	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6218.429	6217.773	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6217.773	6217.609	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6217.609	6217.445	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6217.445	6217.281	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6217.281	6217.116	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6217.116	6216.788	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6216.788	6214.328	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6214.328	6214.164	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6214.164	6213.836	CL/ML

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"5ECPT"	2101894.384	7129020.8	6262.064	6213.836	6213.508	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6213.508	6212.523	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6212.523	6212.359	CL/ML
"5ECPT"	2101894.384	7129020.8	6262.064	6212.359	6212.031	CL/ML
"5ECPT"	2101894.384	7129020.8	6262.064	6212.031	6211.867	CL/ML
"5ECPT"	2101894.384	7129020.8	6262.064	6211.867	6208.586	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6208.586	6208.422	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6208.422	6208.258	CL/ML
"5ECPT"	2101894.384	7129020.8	6262.064	6208.258	6208.094	CL/ML
"5ECPT"	2101894.384	7129020.8	6262.064	6208.094	6207.766	CL/ML
"5ECPT"	2101894.384	7129020.8	6262.064	6207.766	6207.602	CL/ML
"5ECPT"	2101894.384	7129020.8	6262.064	6207.602	6207.11	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6207.11	6206.782	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6206.782	6206.126	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6206.126	6205.962	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6205.962	6205.305	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6205.305	6205.141	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6205.141	6204.485	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6204.485	6204.321	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6204.321	6202.517	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6202.517	6202.189	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6202.189	6199.564	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6199.564	6199.4	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6199.4	6199.236	CL/ML
"5ECPT"	2101894.384	7129020.8	6262.064	6199.236	6198.908	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6198.908	6196.939	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6196.939	6196.447	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6196.447	6195.463	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6195.463	6194.971	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6194.971	6194.807	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6194.807	6194.315	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6194.315	6189.065	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6189.065	6184.144	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6184.144	6183.324	CL/ML
"5ECPT"	2101894.384	7129020.8	6262.064	6183.324	6182.996	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6182.996	6182.176	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6182.176	6182.012	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6182.012	6181.683	CL/ML
"5ECPT"	2101894.384	7129020.8	6262.064	6181.683	6181.191	CL/ML
"5ECPT"	2101894.384	7129020.8	6262.064	6181.191	6181.027	CL/ML
"5ECPT"	2101894.384	7129020.8	6262.064	6181.027	6180.863	SM/SC
"5ECPT"	2101894.384	7129020.8	6262.064	6180.863	6180.371	Sand
"5ECPT"	2101894.384	7129020.8	6262.064	6180.371	6178.895	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6278.9	6278.4	Sand
"CPT-A01"	2101772.055	7127338.94	6278.9	6278.4	6275.4	Sand
"CPT-A01"	2101772.055	7127338.94	6278.9	6275.4	6270.37	Sand
"CPT-A01"	2101772.055	7127338.94	6278.9	6270.37	6268.073	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6268.073	6266.433	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6266.433	6264.464	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6264.464	6264.136	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6264.136	6261.512	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6261.512	6261.183	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6261.183	6260.855	Sand
"CPT-A01"	2101772.055	7127338.94	6278.9	6260.855	6260.527	SM/SC

Table I-2 Lithology Input Data

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Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-A01"	2101772.055	7127338.94	6278.9	6260.527	6260.199	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6260.199	6259.871	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6259.871	6259.215	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6259.215	6258.887	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6258.887	6258.559	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6258.559	6255.934	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6255.934	6255.278	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6255.278	6254.95	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6254.95	6253.638	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6253.638	6252.325	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6252.325	6251.013	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6251.013	6250.029	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6250.029	6249.701	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6249.701	6249.044	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6249.044	6248.716	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6248.716	6246.748	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6246.748	6245.107	Sand
"CPT-A01"	2101772.055	7127338.94	6278.9	6245.107	6244.451	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6244.451	6241.827	Sand
"CPT-A01"	2101772.055	7127338.94	6278.9	6241.827	6241.17	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6241.17	6240.842	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6240.842	6240.186	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6240.186	6239.858	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6239.858	6239.53	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6239.53	6239.202	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6239.202	6238.874	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6238.874	6238.218	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6238.218	6236.577	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6236.577	6235.921	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6235.921	6235.265	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6235.265	6234.281	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6234.281	6233.624	Sand
"CPT-A01"	2101772.055	7127338.94	6278.9	6233.624	6233.296	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6233.296	6232.312	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6232.312	6231.984	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6231.984	6230.672	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6230.672	6230.015	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6230.015	6229.359	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6229.359	6228.703	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6228.703	6228.375	Sand
"CPT-A01"	2101772.055	7127338.94	6278.9	6228.375	6228.047	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6228.047	6225.094	Sand
"CPT-A01"	2101772.055	7127338.94	6278.9	6225.094	6224.766	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6224.766	6223.782	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6223.782	6222.141	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6222.141	6220.501	Sand
"CPT-A01"	2101772.055	7127338.94	6278.9	6220.501	6220.173	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6220.173	6219.845	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6219.845	6219.189	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6219.189	6218.861	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6218.861	6215.252	Sand
"CPT-A01"	2101772.055	7127338.94	6278.9	6215.252	6214.267	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6214.267	6213.939	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6213.939	6213.283	CL/ML

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-A01"	2101772.055	7127338.94	6278.9	6213.283	6212.955	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6212.955	6212.627	Sand
"CPT-A01"	2101772.055	7127338.94	6278.9	6212.627	6211.315	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6211.315	6210.987	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6210.987	6210.659	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6210.659	6210.33	Sand
"CPT-A01"	2101772.055	7127338.94	6278.9	6210.33	6209.674	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6209.674	6209.346	Sand
"CPT-A01"	2101772.055	7127338.94	6278.9	6209.346	6209.018	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6209.018	6208.362	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6208.362	6207.378	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6207.378	6204.753	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6204.753	6203.769	Sand
"CPT-A01"	2101772.055	7127338.94	6278.9	6203.769	6203.113	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6203.113	6200.16	Sand
"CPT-A01"	2101772.055	7127338.94	6278.9	6200.16	6199.504	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6199.504	6199.176	Sand
"CPT-A01"	2101772.055	7127338.94	6278.9	6199.176	6196.879	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6196.879	6196.551	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6196.551	6195.567	Sand
"CPT-A01"	2101772.055	7127338.94	6278.9	6195.567	6195.239	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6195.239	6194.254	Sand
"CPT-A01"	2101772.055	7127338.94	6278.9	6194.254	6193.598	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6193.598	6184.084	Sand
"CPT-A01"	2101772.055	7127338.94	6278.9	6184.084	6181.459	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6181.459	6179.819	Sand
"CPT-A01"	2101772.055	7127338.94	6278.9	6179.819	6179.491	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6179.491	6177.194	Sand
"CPT-A01"	2101772.055	7127338.94	6278.9	6177.194	6175.225	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6175.225	6174.897	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6174.897	6173.585	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6173.585	6172.929	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6172.929	6168.992	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6168.992	6168.336	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6168.336	6166.039	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6166.039	6165.711	Sand
"CPT-A01"	2101772.055	7127338.94	6278.9	6165.711	6165.383	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6165.383	6163.086	Sand
"CPT-A01"	2101772.055	7127338.94	6278.9	6163.086	6162.758	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6162.758	6162.43	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6162.43	6162.102	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6162.102	6161.446	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6161.446	6160.462	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6160.462	6160.134	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6160.134	6159.806	CL/ML
"CPT-A01"	2101772.055	7127338.94	6278.9	6159.806	6159.477	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6159.477	6158.821	Sand
"CPT-A01"	2101772.055	7127338.94	6278.9	6158.821	6157.181	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6157.181	6156.853	Sand
"CPT-A01"	2101772.055	7127338.94	6278.9	6156.853	6155.869	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6155.869	6155.212	Sand
"CPT-A01"	2101772.055	7127338.94	6278.9	6155.212	6154.556	SM/SC
"CPT-A01"	2101772.055	7127338.94	6278.9	6154.556	6153.572	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6287.6	6287.1	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-A02"	2102225.875	7126744.585	6287.6	6287.1	6282.679	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6282.679	6282.351	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6282.351	6279.07	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6279.07	6278.414	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6278.414	6277.101	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6277.101	6276.773	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6276.773	6272.836	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6272.836	6270.868	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6270.868	6270.212	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6270.212	6269.883	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6269.883	6268.571	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6268.571	6267.915	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6267.915	6267.587	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6267.587	6265.618	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6265.618	6265.29	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6265.29	6255.776	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6255.776	6255.448	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6255.448	6249.214	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6249.214	6247.574	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6247.574	6241.012	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6241.012	6240.356	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6240.356	6238.715	CL/ML
"CPT-A02"	2102225.875	7126744.585	6287.6	6238.715	6238.387	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6238.387	6234.778	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6234.778	6234.122	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6234.122	6233.466	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6233.466	6229.201	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6229.201	6228.217	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6228.217	6227.561	CL/ML
"CPT-A02"	2102225.875	7126744.585	6287.6	6227.561	6227.233	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6227.233	6226.576	CL/ML
"CPT-A02"	2102225.875	7126744.585	6287.6	6226.576	6226.248	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6226.248	6225.92	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6225.92	6225.264	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6225.264	6221.983	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6221.983	6221.655	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6221.655	6221.327	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6221.327	6220.999	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6220.999	6219.687	CL/ML
"CPT-A02"	2102225.875	7126744.585	6287.6	6219.687	6219.03	CL/ML
"CPT-A02"	2102225.875	7126744.585	6287.6	6219.03	6218.702	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6218.702	6217.39	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6217.39	6217.062	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6217.062	6214.437	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6214.437	6214.109	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6214.109	6213.781	CL/ML
"CPT-A02"	2102225.875	7126744.585	6287.6	6213.781	6212.469	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6212.469	6212.141	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6212.141	6211.813	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6211.813	6211.485	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6211.485	6211.156	CL/ML
"CPT-A02"	2102225.875	7126744.585	6287.6	6211.156	6210.828	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6210.828	6204.267	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6204.267	6203.282	SM/SC

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-A02"	2102225.875	7126744.585	6287.6	6203.282	6201.97	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6201.97	6201.314	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6201.314	6197.705	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6197.705	6197.377	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6197.377	6196.065	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6196.065	6195.408	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6195.408	6194.752	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6194.752	6193.112	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6193.112	6190.815	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6190.815	6190.487	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6190.487	6189.503	CL/ML
"CPT-A02"	2102225.875	7126744.585	6287.6	6189.503	6188.847	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6188.847	6188.519	CL/ML
"CPT-A02"	2102225.875	7126744.585	6287.6	6188.519	6188.191	CL/ML
"CPT-A02"	2102225.875	7126744.585	6287.6	6188.191	6187.862	CL/ML
"CPT-A02"	2102225.875	7126744.585	6287.6	6187.862	6186.222	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6186.222	6185.894	CL/ML
"CPT-A02"	2102225.875	7126744.585	6287.6	6185.894	6185.566	CL/ML
"CPT-A02"	2102225.875	7126744.585	6287.6	6185.566	6185.238	CL/ML
"CPT-A02"	2102225.875	7126744.585	6287.6	6185.238	6184.91	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6184.91	6184.582	CL/ML
"CPT-A02"	2102225.875	7126744.585	6287.6	6184.582	6184.254	CL/ML
"CPT-A02"	2102225.875	7126744.585	6287.6	6184.254	6183.925	CL/ML
"CPT-A02"	2102225.875	7126744.585	6287.6	6183.925	6183.597	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6183.597	6180.645	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6180.645	6179.988	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6179.988	6179.004	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6179.004	6176.051	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6176.051	6175.067	CL/ML
"CPT-A02"	2102225.875	7126744.585	6287.6	6175.067	6174.411	SM/SC
"CPT-A02"	2102225.875	7126744.585	6287.6	6174.411	6169.49	Sand
"CPT-A02"	2102225.875	7126744.585	6287.6	6169.49	6169.162	Sand
"CPT-A03"	2101983.646	7126384.076	6309.1	6309.1	6308.6	Sand
"CPT-A03"	2101983.646	7126384.076	6309.1	6308.6	6304.179	Sand
"CPT-A03"	2101983.646	7126384.076	6309.1	6304.179	6302.538	Sand
"CPT-A03"	2101983.646	7126384.076	6309.1	6302.538	6302.21	SM/SC
"CPT-A03"	2101983.646	7126384.076	6309.1	6302.21	6301.882	CL/ML
"CPT-A03"	2101983.646	7126384.076	6309.1	6301.882	6297.945	Sand
"CPT-A03"	2101983.646	7126384.076	6309.1	6297.945	6297.617	SM/SC
"CPT-A03"	2101983.646	7126384.076	6309.1	6297.617	6296.961	Sand
"CPT-A03"	2101983.646	7126384.076	6309.1	6296.961	6296.633	SM/SC
"CPT-A03"	2101983.646	7126384.076	6309.1	6296.633	6296.305	CL/ML
"CPT-A03"	2101983.646	7126384.076	6309.1	6296.305	6295.977	CL/ML
"CPT-A03"	2101983.646	7126384.076	6309.1	6295.977	6294.336	CL/ML
"CPT-A03"	2101983.646	7126384.076	6309.1	6294.336	6294.008	SM/SC
"CPT-A03"	2101983.646	7126384.076	6309.1	6294.008	6293.352	CL/ML
"CPT-A03"	2101983.646	7126384.076	6309.1	6293.352	6293.024	SM/SC
"CPT-A03"	2101983.646	7126384.076	6309.1	6293.024	6292.368	CL/ML
"CPT-A03"	2101983.646	7126384.076	6309.1	6292.368	6292.04	CL/ML
"CPT-A03"	2101983.646	7126384.076	6309.1	6292.04	6290.399	SM/SC
"CPT-A03"	2101983.646	7126384.076	6309.1	6290.399	6290.071	CL/ML
"CPT-A03"	2101983.646	7126384.076	6309.1	6290.071	6289.743	CL/ML
"CPT-A03"	2101983.646	7126384.076	6309.1	6289.743	6288.759	CL/ML
"CPT-A03"	2101983.646	7126384.076	6309.1	6288.759	6288.431	CL/ML

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-A03"	2101983.646	7126384.076	6309.1	6288.431	6287.446	CL/ML
"CPT-A03"	2101983.646	7126384.076	6309.1	6287.446	6287.118	CL/ML
"CPT-A03"	2101983.646	7126384.076	6309.1	6287.118	6286.79	CL/ML
"CPT-A03"	2101983.646	7126384.076	6309.1	6286.79	6286.134	SM/SC
"CPT-A03"	2101983.646	7126384.076	6309.1	6286.134	6285.15	CL/ML
"CPT-A03"	2101983.646	7126384.076	6309.1	6285.15	6284.822	CL/ML
"CPT-A03"	2101983.646	7126384.076	6309.1	6284.822	6284.166	CL/ML
"CPT-A03"	2101983.646	7126384.076	6309.1	6284.166	6283.838	SM/SC
"CPT-A03"	2101983.646	7126384.076	6309.1	6283.838	6277.932	Sand
"CPT-A03"	2101983.646	7126384.076	6309.1	6277.932	6277.276	Sand
"CPT-A03"	2101983.646	7126384.076	6309.1	6277.276	6275.307	Sand
"CPT-A03"	2101983.646	7126384.076	6309.1	6275.307	6274.979	SM/SC
"CPT-A03"	2101983.646	7126384.076	6309.1	6274.979	6274.651	CL/ML
"CPT-A03"	2101983.646	7126384.076	6309.1	6274.651	6273.667	SM/SC
"CPT-A03"	2101983.646	7126384.076	6309.1	6273.667	6273.339	CL/ML
"CPT-A03"	2101983.646	7126384.076	6309.1	6273.339	6272.683	SM/SC
"CPT-A03"	2101983.646	7126384.076	6309.1	6272.683	6271.37	Sand
"CPT-A03"	2101983.646	7126384.076	6309.1	6271.37	6270.714	Sand
"CPT-A03"	2101983.646	7126384.076	6309.1	6270.714	6267.105	Sand
"CPT-A03"	2101983.646	7126384.076	6309.1	6267.105	6266.449	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6275.3	6274.8	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6274.8	6270.379	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6270.379	6269.394	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6269.394	6268.41	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6268.41	6265.95	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6265.95	6265.457	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6265.457	6264.965	CL/ML
"CPT-A04"	2100664.332	7128094.649	6275.3	6264.965	6262.505	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6262.505	6261.52	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6261.52	6260.536	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6260.536	6259.552	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6259.552	6258.076	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6258.076	6257.583	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6257.583	6256.599	CL/ML
"CPT-A04"	2100664.332	7128094.649	6275.3	6256.599	6256.107	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6256.107	6255.123	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6255.123	6254.631	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6254.631	6254.139	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6254.139	6253.646	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6253.646	6253.154	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6253.154	6252.17	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6252.17	6251.678	CL/ML
"CPT-A04"	2100664.332	7128094.649	6275.3	6251.678	6251.186	CL/ML
"CPT-A04"	2100664.332	7128094.649	6275.3	6251.186	6250.694	CL/ML
"CPT-A04"	2100664.332	7128094.649	6275.3	6250.694	6250.202	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6250.202	6248.725	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6248.725	6247.249	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6247.249	6246.265	CL/ML
"CPT-A04"	2100664.332	7128094.649	6275.3	6246.265	6245.772	CL/ML
"CPT-A04"	2100664.332	7128094.649	6275.3	6245.772	6244.788	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6244.788	6242.82	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6242.82	6242.328	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6242.328	6241.835	CL/ML
"CPT-A04"	2100664.332	7128094.649	6275.3	6241.835	6238.883	SM/SC

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-A04"	2100664.332	7128094.649	6275.3	6238.883	6238.391	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6238.391	6236.422	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6236.422	6221.166	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6221.166	6220.674	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6220.674	6220.182	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6220.182	6219.198	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6219.198	6216.737	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6216.737	6216.245	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6216.245	6212.308	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6212.308	6211.816	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6211.816	6210.831	CL/ML
"CPT-A04"	2100664.332	7128094.649	6275.3	6210.831	6210.339	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6210.339	6209.355	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6209.355	6202.465	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6202.465	6201.973	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6201.973	6190.162	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6190.162	6188.686	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6188.686	6180.812	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6180.812	6179.828	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6179.828	6176.383	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6176.383	6174.906	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6174.906	6173.922	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6173.922	6172.446	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6172.446	6171.954	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6171.954	6171.461	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6171.461	6170.477	CL/ML
"CPT-A04"	2100664.332	7128094.649	6275.3	6170.477	6169.493	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6169.493	6169.001	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6169.001	6168.017	CL/ML
"CPT-A04"	2100664.332	7128094.649	6275.3	6168.017	6167.524	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6167.524	6166.54	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6166.54	6165.064	CL/ML
"CPT-A04"	2100664.332	7128094.649	6275.3	6165.064	6164.572	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6164.572	6164.08	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6164.08	6163.587	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6163.587	6163.095	CL/ML
"CPT-A04"	2100664.332	7128094.649	6275.3	6163.095	6162.603	CL/ML
"CPT-A04"	2100664.332	7128094.649	6275.3	6162.603	6162.111	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6162.111	6160.143	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6160.143	6154.237	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6154.237	6153.253	Sand
"CPT-A04"	2100664.332	7128094.649	6275.3	6153.253	6141.934	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6141.934	6141.442	CL/ML
"CPT-A04"	2100664.332	7128094.649	6275.3	6141.442	6130.615	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6130.615	6130.123	CL/ML
"CPT-A04"	2100664.332	7128094.649	6275.3	6130.123	6129.631	SM/SC
"CPT-A04"	2100664.332	7128094.649	6275.3	6129.631	6125.202	CL/ML
"CPT-A05"	2101077.402	7127548.514	6275.1	6275.1	6274.6	Sand
"CPT-A05"	2101077.402	7127548.514	6275.1	6274.6	6270.179	Sand
"CPT-A05"	2101077.402	7127548.514	6275.1	6270.179	6267.882	Sand
"CPT-A05"	2101077.402	7127548.514	6275.1	6267.882	6264.601	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6264.601	6264.273	CL/ML
"CPT-A05"	2101077.402	7127548.514	6275.1	6264.273	6263.945	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6263.945	6257.712	Sand

Table I-2 Lithology Input Data
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Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-A05"	2101077.402	7127548.514	6275.1	6257.712	6256.399	Sand
"CPT-A05"	2101077.402	7127548.514	6275.1	6256.399	6255.087	Sand
"CPT-A05"	2101077.402	7127548.514	6275.1	6255.087	6254.103	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6254.103	6253.775	CL/ML
"CPT-A05"	2101077.402	7127548.514	6275.1	6253.775	6253.446	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6253.446	6248.197	Sand
"CPT-A05"	2101077.402	7127548.514	6275.1	6248.197	6247.869	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6247.869	6246.557	Sand
"CPT-A05"	2101077.402	7127548.514	6275.1	6246.557	6245.244	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6245.244	6242.292	Sand
"CPT-A05"	2101077.402	7127548.514	6275.1	6242.292	6241.964	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6241.964	6241.635	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6241.635	6241.307	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6241.307	6239.011	Sand
"CPT-A05"	2101077.402	7127548.514	6275.1	6239.011	6238.683	Sand
"CPT-A05"	2101077.402	7127548.514	6275.1	6238.683	6236.386	Sand
"CPT-A05"	2101077.402	7127548.514	6275.1	6236.386	6236.058	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6236.058	6235.402	CL/ML
"CPT-A05"	2101077.402	7127548.514	6275.1	6235.402	6235.074	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6235.074	6233.433	Sand
"CPT-A05"	2101077.402	7127548.514	6275.1	6233.433	6233.105	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6233.105	6229.496	Sand
"CPT-A05"	2101077.402	7127548.514	6275.1	6229.496	6228.84	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6228.84	6228.184	CL/ML
"CPT-A05"	2101077.402	7127548.514	6275.1	6228.184	6227.856	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6227.856	6225.559	Sand
"CPT-A05"	2101077.402	7127548.514	6275.1	6225.559	6225.231	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6225.231	6224.575	CL/ML
"CPT-A05"	2101077.402	7127548.514	6275.1	6224.575	6224.247	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6224.247	6221.95	Sand
"CPT-A05"	2101077.402	7127548.514	6275.1	6221.95	6220.638	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6220.638	6220.31	CL/ML
"CPT-A05"	2101077.402	7127548.514	6275.1	6220.31	6219.982	Sand
"CPT-A05"	2101077.402	7127548.514	6275.1	6219.982	6219.654	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6219.654	6211.124	Sand
"CPT-A05"	2101077.402	7127548.514	6275.1	6211.124	6210.796	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6210.796	6210.467	Sand
"CPT-A05"	2101077.402	7127548.514	6275.1	6210.467	6210.139	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6210.139	6209.811	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6209.811	6209.155	CL/ML
"CPT-A05"	2101077.402	7127548.514	6275.1	6209.155	6208.827	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6208.827	6207.843	Sand
"CPT-A05"	2101077.402	7127548.514	6275.1	6207.843	6207.515	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6207.515	6205.546	CL/ML
"CPT-A05"	2101077.402	7127548.514	6275.1	6205.546	6205.218	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6205.218	6204.89	Sand
"CPT-A05"	2101077.402	7127548.514	6275.1	6204.89	6203.906	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6203.906	6203.578	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6203.578	6202.922	Sand
"CPT-A05"	2101077.402	7127548.514	6275.1	6202.922	6201.937	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6201.937	6200.953	Sand
"CPT-A05"	2101077.402	7127548.514	6275.1	6200.953	6199.969	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6199.969	6199.641	Sand
"CPT-A05"	2101077.402	7127548.514	6275.1	6199.641	6198.985	SM/SC

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-A05"	2101077.402	7127548.514	6275.1	6198.985	6198.656	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6198.656	6195.048	Sand
"CPT-A05"	2101077.402	7127548.514	6275.1	6195.048	6192.751	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6192.751	6192.423	Sand
"CPT-A05"	2101077.402	7127548.514	6275.1	6192.423	6192.095	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6192.095	6191.767	Sand
"CPT-A05"	2101077.402	7127548.514	6275.1	6191.767	6190.782	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6190.782	6186.189	Sand
"CPT-A05"	2101077.402	7127548.514	6275.1	6186.189	6185.533	CL/ML
"CPT-A05"	2101077.402	7127548.514	6275.1	6185.533	6185.205	SM/SC
"CPT-A05"	2101077.402	7127548.514	6275.1	6185.205	6183.893	Sand
"CPT-A05"	2101077.402	7127548.514	6275.1	6183.893	6182.58	Sand
"CPT-A06"	2101412.905	7126780.904	6325.4	6324.9	6320.479	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6320.479	6314.245	Sand
"CPT-A06"	2101412.905	7126780.904	6325.4	6314.245	6312.933	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6312.933	6308.668	Sand
"CPT-A06"	2101412.905	7126780.904	6325.4	6308.668	6308.012	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6308.012	6302.106	Sand
"CPT-A06"	2101412.905	7126780.904	6325.4	6302.106	6301.122	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6301.122	6300.794	Sand
"CPT-A06"	2101412.905	7126780.904	6325.4	6300.794	6300.466	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6300.466	6300.138	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6300.138	6299.481	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6299.481	6299.153	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6299.153	6298.497	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6298.497	6298.169	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6298.169	6297.841	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6297.841	6297.185	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6297.185	6296.857	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6296.857	6294.232	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6294.232	6293.576	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6293.576	6292.92	Sand
"CPT-A06"	2101412.905	7126780.904	6325.4	6292.92	6292.264	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6292.264	6286.03	Sand
"CPT-A06"	2101412.905	7126780.904	6325.4	6286.03	6285.374	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6285.374	6283.077	Sand
"CPT-A06"	2101412.905	7126780.904	6325.4	6283.077	6282.749	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6282.749	6282.421	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6282.421	6281.765	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6281.765	6280.781	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6280.781	6280.452	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6280.452	6280.124	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6280.124	6276.187	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6276.187	6275.531	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6275.531	6275.203	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6275.203	6270.61	Sand
"CPT-A06"	2101412.905	7126780.904	6325.4	6270.61	6269.954	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6269.954	6268.97	Sand
"CPT-A06"	2101412.905	7126780.904	6325.4	6268.97	6267.657	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6267.657	6267.329	Sand
"CPT-A06"	2101412.905	7126780.904	6325.4	6267.329	6267.001	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6267.001	6264.048	Sand
"CPT-A06"	2101412.905	7126780.904	6325.4	6264.048	6262.08	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6262.08	6249.285	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-A06"	2101412.905	7126780.904	6325.4	6249.285	6248.956	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6248.956	6243.051	Sand
"CPT-A06"	2101412.905	7126780.904	6325.4	6243.051	6242.067	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6242.067	6240.754	Sand
"CPT-A06"	2101412.905	7126780.904	6325.4	6240.754	6239.114	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6239.114	6238.786	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6238.786	6238.458	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6238.458	6236.489	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6236.489	6234.849	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6234.849	6232.552	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6232.552	6230.256	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6230.256	6228.943	Sand
"CPT-A06"	2101412.905	7126780.904	6325.4	6228.943	6228.287	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6228.287	6227.631	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6227.631	6227.303	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6227.303	6226.319	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6226.319	6225.991	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6225.991	6222.054	Sand
"CPT-A06"	2101412.905	7126780.904	6325.4	6222.054	6221.725	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6221.725	6221.069	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6221.069	6220.085	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6220.085	6219.429	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6219.429	6214.836	Sand
"CPT-A06"	2101412.905	7126780.904	6325.4	6214.836	6213.523	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6213.523	6213.195	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6213.195	6212.539	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6212.539	6212.211	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6212.211	6202.368	Sand
"CPT-A06"	2101412.905	7126780.904	6325.4	6202.368	6202.04	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6202.04	6201.712	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6201.712	6200.728	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6200.728	6199.416	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6199.416	6197.447	Sand
"CPT-A06"	2101412.905	7126780.904	6325.4	6197.447	6196.135	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6196.135	6195.807	Sand
"CPT-A06"	2101412.905	7126780.904	6325.4	6195.807	6195.479	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6195.479	6195.151	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6195.151	6194.166	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6194.166	6193.838	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6193.838	6193.51	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6193.51	6192.526	Sand
"CPT-A06"	2101412.905	7126780.904	6325.4	6192.526	6192.198	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6192.198	6190.886	Sand
"CPT-A06"	2101412.905	7126780.904	6325.4	6190.886	6190.557	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6190.557	6188.917	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6188.917	6187.605	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6187.605	6186.62	Sand
"CPT-A06"	2101412.905	7126780.904	6325.4	6186.62	6186.292	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6186.292	6185.636	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6185.636	6184.98	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6184.98	6184.652	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6184.652	6183.996	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6183.996	6183.34	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6183.34	6182.355	Sand

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-A06"	2101412.905	7126780.904	6325.4	6182.355	6182.027	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6182.027	6181.699	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6181.699	6181.371	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6181.371	6180.387	SM/SC
"CPT-A06"	2101412.905	7126780.904	6325.4	6180.387	6179.403	CL/ML
"CPT-A06"	2101412.905	7126780.904	6325.4	6179.403	6175.466	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6267.3	6262.379	Sand
"CPT-B01"	2100829.099	7128571.719	6267.3	6262.379	6249.255	Sand
"CPT-B01"	2100829.099	7128571.719	6267.3	6249.255	6248.271	CL/ML
"CPT-B01"	2100829.099	7128571.719	6267.3	6248.271	6247.615	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6247.615	6246.959	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6246.959	6245.646	Sand
"CPT-B01"	2100829.099	7128571.719	6267.3	6245.646	6244.662	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6244.662	6241.053	Sand
"CPT-B01"	2100829.099	7128571.719	6267.3	6241.053	6240.397	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6240.397	6240.069	CL/ML
"CPT-B01"	2100829.099	7128571.719	6267.3	6240.069	6239.413	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6239.413	6236.788	Sand
"CPT-B01"	2100829.099	7128571.719	6267.3	6236.788	6236.46	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6236.46	6233.179	Sand
"CPT-B01"	2100829.099	7128571.719	6267.3	6233.179	6232.851	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6232.851	6231.539	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6231.539	6231.211	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6231.211	6229.242	Sand
"CPT-B01"	2100829.099	7128571.719	6267.3	6229.242	6228.586	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6228.586	6228.258	Sand
"CPT-B01"	2100829.099	7128571.719	6267.3	6228.258	6227.93	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6227.93	6227.274	CL/ML
"CPT-B01"	2100829.099	7128571.719	6267.3	6227.274	6226.946	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6226.946	6225.961	Sand
"CPT-B01"	2100829.099	7128571.719	6267.3	6225.961	6225.633	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6225.633	6224.977	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6224.977	6224.649	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6224.649	6223.665	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6223.665	6223.009	Sand
"CPT-B01"	2100829.099	7128571.719	6267.3	6223.009	6222.024	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6222.024	6221.04	Sand
"CPT-B01"	2100829.099	7128571.719	6267.3	6221.04	6220.712	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6220.712	6220.384	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6220.384	6219.4	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6219.4	6216.775	Sand
"CPT-B01"	2100829.099	7128571.719	6267.3	6216.775	6215.791	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6215.791	6215.463	Sand
"CPT-B01"	2100829.099	7128571.719	6267.3	6215.463	6214.807	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6214.807	6213.822	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6213.822	6213.494	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6213.494	6205.292	Sand
"CPT-B01"	2100829.099	7128571.719	6267.3	6205.292	6204.964	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6204.964	6202.667	Sand
"CPT-B01"	2100829.099	7128571.719	6267.3	6202.667	6202.011	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6202.011	6196.762	Sand
"CPT-B01"	2100829.099	7128571.719	6267.3	6196.762	6195.122	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6195.122	6194.465	Sand
"CPT-B01"	2100829.099	7128571.719	6267.3	6194.465	6193.481	SM/SC

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-B01"	2100829.099	7128571.719	6267.3	6193.481	6193.153	Sand
"CPT-B01"	2100829.099	7128571.719	6267.3	6193.153	6191.841	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6191.841	6191.513	Sand
"CPT-B01"	2100829.099	7128571.719	6267.3	6191.513	6189.872	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6189.872	6188.232	Sand
"CPT-B01"	2100829.099	7128571.719	6267.3	6188.232	6187.248	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6187.248	6186.591	CL/ML
"CPT-B01"	2100829.099	7128571.719	6267.3	6186.591	6185.935	Sand
"CPT-B01"	2100829.099	7128571.719	6267.3	6185.935	6184.951	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6184.951	6184.295	CL/ML
"CPT-B01"	2100829.099	7128571.719	6267.3	6184.295	6182.654	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6182.654	6179.045	Sand
"CPT-B01"	2100829.099	7128571.719	6267.3	6179.045	6178.389	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6178.389	6178.061	CL/ML
"CPT-B01"	2100829.099	7128571.719	6267.3	6178.061	6177.733	CL/ML
"CPT-B01"	2100829.099	7128571.719	6267.3	6177.733	6177.405	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6177.405	6174.78	Sand
"CPT-B01"	2100829.099	7128571.719	6267.3	6174.78	6174.452	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6174.452	6172.484	Sand
"CPT-B01"	2100829.099	7128571.719	6267.3	6172.484	6169.859	SM/SC
"CPT-B01"	2100829.099	7128571.719	6267.3	6169.859	6168.219	CL/ML
"CPT-B01"	2100829.099	7128571.719	6267.3	6168.219	6167.234	CL/ML
"CPT-B01"	2100829.099	7128571.719	6267.3	6167.234	6166.906	CL/ML
"CPT-B02"	2101083.217	7128340.159	6271.3	6271.3	6270.8	Sand
"CPT-B02"	2101083.217	7128340.159	6271.3	6270.8	6266.379	Sand
"CPT-B02"	2101083.217	7128340.159	6271.3	6266.379	6266.051	Sand
"CPT-B02"	2101083.217	7128340.159	6271.3	6266.051	6264.738	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6264.738	6264.41	CL/ML
"CPT-B02"	2101083.217	7128340.159	6271.3	6264.41	6261.129	Sand
"CPT-B02"	2101083.217	7128340.159	6271.3	6261.129	6260.473	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6260.473	6259.161	Sand
"CPT-B02"	2101083.217	7128340.159	6271.3	6259.161	6258.833	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6258.833	6257.52	CL/ML
"CPT-B02"	2101083.217	7128340.159	6271.3	6257.52	6256.208	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6256.208	6251.943	Sand
"CPT-B02"	2101083.217	7128340.159	6271.3	6251.943	6251.615	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6251.615	6250.959	CL/ML
"CPT-B02"	2101083.217	7128340.159	6271.3	6250.959	6250.631	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6250.631	6250.303	CL/ML
"CPT-B02"	2101083.217	7128340.159	6271.3	6250.303	6249.646	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6249.646	6249.318	CL/ML
"CPT-B02"	2101083.217	7128340.159	6271.3	6249.318	6248.006	CL/ML
"CPT-B02"	2101083.217	7128340.159	6271.3	6248.006	6247.022	CL/ML
"CPT-B02"	2101083.217	7128340.159	6271.3	6247.022	6246.366	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6246.366	6243.085	Sand
"CPT-B02"	2101083.217	7128340.159	6271.3	6243.085	6242.429	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6242.429	6242.101	Sand
"CPT-B02"	2101083.217	7128340.159	6271.3	6242.101	6241.772	CL/ML
"CPT-B02"	2101083.217	7128340.159	6271.3	6241.772	6241.444	CL/ML
"CPT-B02"	2101083.217	7128340.159	6271.3	6241.444	6241.116	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6241.116	6240.132	CL/ML
"CPT-B02"	2101083.217	7128340.159	6271.3	6240.132	6239.804	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6239.804	6238.492	Sand
"CPT-B02"	2101083.217	7128340.159	6271.3	6238.492	6236.851	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-B02"	2101083.217	7128340.159	6271.3	6236.851	6236.195	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6236.195	6234.555	Sand
"CPT-B02"	2101083.217	7128340.159	6271.3	6234.555	6234.227	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6234.227	6233.57	CL/ML
"CPT-B02"	2101083.217	7128340.159	6271.3	6233.57	6232.914	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6232.914	6232.586	Sand
"CPT-B02"	2101083.217	7128340.159	6271.3	6232.586	6232.258	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6232.258	6228.321	Sand
"CPT-B02"	2101083.217	7128340.159	6271.3	6228.321	6227.993	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6227.993	6225.696	Sand
"CPT-B02"	2101083.217	7128340.159	6271.3	6225.696	6225.04	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6225.04	6224.056	Sand
"CPT-B02"	2101083.217	7128340.159	6271.3	6224.056	6223.728	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6223.728	6222.415	Sand
"CPT-B02"	2101083.217	7128340.159	6271.3	6222.415	6221.759	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6221.759	6220.775	Sand
"CPT-B02"	2101083.217	7128340.159	6271.3	6220.775	6220.119	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6220.119	6218.807	Sand
"CPT-B02"	2101083.217	7128340.159	6271.3	6218.807	6217.166	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6217.166	6216.838	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6216.838	6215.526	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6215.526	6215.198	Sand
"CPT-B02"	2101083.217	7128340.159	6271.3	6215.198	6214.87	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6214.87	6212.573	Sand
"CPT-B02"	2101083.217	7128340.159	6271.3	6212.573	6211.917	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6211.917	6209.292	Sand
"CPT-B02"	2101083.217	7128340.159	6271.3	6209.292	6208.636	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6208.636	6207.98	Sand
"CPT-B02"	2101083.217	7128340.159	6271.3	6207.98	6207.652	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6207.652	6206.011	Sand
"CPT-B02"	2101083.217	7128340.159	6271.3	6206.011	6205.683	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6205.683	6180.093	Sand
"CPT-B02"	2101083.217	7128340.159	6271.3	6180.093	6179.765	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6179.765	6178.452	Sand
"CPT-B02"	2101083.217	7128340.159	6271.3	6178.452	6177.468	CL/ML
"CPT-B02"	2101083.217	7128340.159	6271.3	6177.468	6176.156	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6176.156	6175.828	CL/ML
"CPT-B02"	2101083.217	7128340.159	6271.3	6175.828	6175.499	CL/ML
"CPT-B02"	2101083.217	7128340.159	6271.3	6175.499	6175.171	CL/ML
"CPT-B02"	2101083.217	7128340.159	6271.3	6175.171	6174.843	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6174.843	6174.187	Sand
"CPT-B02"	2101083.217	7128340.159	6271.3	6174.187	6173.859	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6173.859	6173.531	CL/ML
"CPT-B02"	2101083.217	7128340.159	6271.3	6173.531	6172.875	SM/SC
"CPT-B02"	2101083.217	7128340.159	6271.3	6172.875	6171.234	CL/ML
"CPT-B02"	2101083.217	7128340.159	6271.3	6171.234	6170.906	CL/ML
"CPT-B03"	2101802.943	7127745.592	6271.7	6271.7	6271.2	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6271.2	6266.779	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6266.779	6265.466	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6265.466	6264.81	SM/SC
"CPT-B03"	2101802.943	7127745.592	6271.7	6264.81	6264.154	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6264.154	6263.17	SM/SC
"CPT-B03"	2101802.943	7127745.592	6271.7	6263.17	6262.186	CL/ML
"CPT-B03"	2101802.943	7127745.592	6271.7	6262.186	6261.857	CL/ML

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-B03"	2101802.943	7127745.592	6271.7	6261.857	6261.529	SM/SC
"CPT-B03"	2101802.943	7127745.592	6271.7	6261.529	6257.92	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6257.92	6253.983	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6253.983	6253.655	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6253.655	6252.343	SM/SC
"CPT-B03"	2101802.943	7127745.592	6271.7	6252.343	6252.015	CL/ML
"CPT-B03"	2101802.943	7127745.592	6271.7	6252.015	6251.359	SM/SC
"CPT-B03"	2101802.943	7127745.592	6271.7	6251.359	6251.031	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6251.031	6248.406	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6248.406	6248.078	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6248.078	6247.75	SM/SC
"CPT-B03"	2101802.943	7127745.592	6271.7	6247.75	6247.422	CL/ML
"CPT-B03"	2101802.943	7127745.592	6271.7	6247.422	6247.094	SM/SC
"CPT-B03"	2101802.943	7127745.592	6271.7	6247.094	6246.766	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6246.766	6245.453	CL/ML
"CPT-B03"	2101802.943	7127745.592	6271.7	6245.453	6245.125	SM/SC
"CPT-B03"	2101802.943	7127745.592	6271.7	6245.125	6243.813	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6243.813	6243.485	SM/SC
"CPT-B03"	2101802.943	7127745.592	6271.7	6243.485	6241.188	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6241.188	6240.86	SM/SC
"CPT-B03"	2101802.943	7127745.592	6271.7	6240.86	6240.204	CL/ML
"CPT-B03"	2101802.943	7127745.592	6271.7	6240.204	6239.876	CL/ML
"CPT-B03"	2101802.943	7127745.592	6271.7	6239.876	6239.548	SM/SC
"CPT-B03"	2101802.943	7127745.592	6271.7	6239.548	6235.283	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6235.283	6234.627	SM/SC
"CPT-B03"	2101802.943	7127745.592	6271.7	6234.627	6234.298	CL/ML
"CPT-B03"	2101802.943	7127745.592	6271.7	6234.298	6233.642	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6233.642	6233.314	SM/SC
"CPT-B03"	2101802.943	7127745.592	6271.7	6233.314	6232.658	CL/ML
"CPT-B03"	2101802.943	7127745.592	6271.7	6232.658	6232.002	SM/SC
"CPT-B03"	2101802.943	7127745.592	6271.7	6232.002	6230.69	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6230.69	6230.033	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6230.033	6227.737	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6227.737	6227.409	SM/SC
"CPT-B03"	2101802.943	7127745.592	6271.7	6227.409	6216.254	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6216.254	6215.926	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6215.926	6214.941	SM/SC
"CPT-B03"	2101802.943	7127745.592	6271.7	6214.941	6213.301	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6213.301	6212.973	SM/SC
"CPT-B03"	2101802.943	7127745.592	6271.7	6212.973	6212.645	SM/SC
"CPT-B03"	2101802.943	7127745.592	6271.7	6212.645	6212.317	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6212.317	6210.02	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6210.02	6209.364	SM/SC
"CPT-B03"	2101802.943	7127745.592	6271.7	6209.364	6207.067	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6207.067	6206.739	SM/SC
"CPT-B03"	2101802.943	7127745.592	6271.7	6206.739	6206.411	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6206.411	6206.083	SM/SC
"CPT-B03"	2101802.943	7127745.592	6271.7	6206.083	6204.443	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6204.443	6203.459	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6203.459	6196.897	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6196.897	6196.569	SM/SC
"CPT-B03"	2101802.943	7127745.592	6271.7	6196.569	6196.241	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6196.241	6195.585	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6195.585	6195.256	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-B03"	2101802.943	7127745.592	6271.7	6195.256	6193.944	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6193.944	6193.616	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6193.616	6191.648	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6191.648	6191.319	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6191.319	6182.789	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6182.789	6182.461	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6182.461	6180.821	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6180.821	6180.493	SM/SC
"CPT-B03"	2101802.943	7127745.592	6271.7	6180.493	6179.836	CL/ML
"CPT-B03"	2101802.943	7127745.592	6271.7	6179.836	6179.508	SM/SC
"CPT-B03"	2101802.943	7127745.592	6271.7	6179.508	6171.306	Sand
"CPT-B03"	2101802.943	7127745.592	6271.7	6171.306	6170.978	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6274.1	6273.6	CL/ML
"CPT-B04"	2102216.496	7127296.017	6274.1	6273.6	6273.1	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6273.1	6272.1	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6272.1	6271.1	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6271.1	6269.179	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6269.179	6268.194	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6268.194	6267.866	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6267.866	6261.305	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6261.305	6260.649	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6260.649	6259.992	CL/ML
"CPT-B04"	2102216.496	7127296.017	6274.1	6259.992	6259.664	CL/ML
"CPT-B04"	2102216.496	7127296.017	6274.1	6259.664	6259.336	CL/ML
"CPT-B04"	2102216.496	7127296.017	6274.1	6259.336	6253.103	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6253.103	6252.775	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6252.775	6252.118	CL/ML
"CPT-B04"	2102216.496	7127296.017	6274.1	6252.118	6251.462	CL/ML
"CPT-B04"	2102216.496	7127296.017	6274.1	6251.462	6250.15	CL/ML
"CPT-B04"	2102216.496	7127296.017	6274.1	6250.15	6249.822	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6249.822	6249.166	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6249.166	6248.838	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6248.838	6248.509	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6248.509	6248.181	CL/ML
"CPT-B04"	2102216.496	7127296.017	6274.1	6248.181	6247.853	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6247.853	6245.557	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6245.557	6244.244	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6244.244	6243.588	CL/ML
"CPT-B04"	2102216.496	7127296.017	6274.1	6243.588	6243.26	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6243.26	6241.948	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6241.948	6240.964	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6240.964	6239.979	CL/ML
"CPT-B04"	2102216.496	7127296.017	6274.1	6239.979	6238.667	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6238.667	6238.011	CL/ML
"CPT-B04"	2102216.496	7127296.017	6274.1	6238.011	6237.355	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6237.355	6236.37	CL/ML
"CPT-B04"	2102216.496	7127296.017	6274.1	6236.37	6236.042	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6236.042	6234.074	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6234.074	6233.746	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6233.746	6232.105	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6232.105	6230.465	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6230.465	6229.152	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6229.152	6228.824	CL/ML
"CPT-B04"	2102216.496	7127296.017	6274.1	6228.824	6228.168	SM/SC

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-B04"	2102216.496	7127296.017	6274.1	6228.168	6227.84	CL/ML
"CPT-B04"	2102216.496	7127296.017	6274.1	6227.84	6226.856	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6226.856	6225.544	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6225.544	6225.215	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6225.215	6223.903	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6223.903	6222.919	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6222.919	6222.591	CL/ML
"CPT-B04"	2102216.496	7127296.017	6274.1	6222.591	6219.966	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6219.966	6219.638	CL/ML
"CPT-B04"	2102216.496	7127296.017	6274.1	6219.638	6207.499	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6207.499	6206.843	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6206.843	6206.515	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6206.515	6205.202	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6205.202	6204.218	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6204.218	6203.89	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6203.89	6203.234	CL/ML
"CPT-B04"	2102216.496	7127296.017	6274.1	6203.234	6202.906	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6202.906	6200.609	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6200.609	6200.281	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6200.281	6199.953	CL/ML
"CPT-B04"	2102216.496	7127296.017	6274.1	6199.953	6199.297	CL/ML
"CPT-B04"	2102216.496	7127296.017	6274.1	6199.297	6198.969	CL/ML
"CPT-B04"	2102216.496	7127296.017	6274.1	6198.969	6198.641	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6198.641	6192.243	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6192.243	6191.587	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6191.587	6189.946	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6189.946	6188.634	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6188.634	6188.306	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6188.306	6185.681	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6185.681	6184.697	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6184.697	6184.041	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6184.041	6182.729	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6182.729	6182.072	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6182.072	6175.511	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6175.511	6173.542	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6173.542	6169.605	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6169.605	6169.277	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6169.277	6167.309	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6167.309	6166.652	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6166.652	6164.356	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6164.356	6156.81	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6156.81	6155.498	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6155.498	6153.201	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6153.201	6152.873	CL/ML
"CPT-B04"	2102216.496	7127296.017	6274.1	6152.873	6152.545	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6152.545	6142.046	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6142.046	6141.718	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6141.718	6141.39	Sand
"CPT-B04"	2102216.496	7127296.017	6274.1	6141.39	6141.062	SM/SC
"CPT-B04"	2102216.496	7127296.017	6274.1	6141.062	6140.078	CL/ML
"CPT-B05"	2103266.606	7127071.325	6267.3	6267.3	6266.8	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6266.8	6262.379	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6262.379	6257.129	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6257.129	6256.473	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-B05"	2103266.606	7127071.325	6267.3	6256.473	6254.177	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6254.177	6253.849	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6253.849	6252.864	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6252.864	6252.536	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6252.536	6252.208	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6252.208	6250.896	CL/ML
"CPT-B05"	2103266.606	7127071.325	6267.3	6250.896	6248.927	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6248.927	6248.271	SM/SC
"CPT-B05"	2103266.606	7127071.325	6267.3	6248.271	6247.615	CL/ML
"CPT-B05"	2103266.606	7127071.325	6267.3	6247.615	6245.975	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6245.975	6245.318	SM/SC
"CPT-B05"	2103266.606	7127071.325	6267.3	6245.318	6244.99	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6244.99	6244.006	SM/SC
"CPT-B05"	2103266.606	7127071.325	6267.3	6244.006	6241.381	CL/ML
"CPT-B05"	2103266.606	7127071.325	6267.3	6241.381	6240.725	CL/ML
"CPT-B05"	2103266.606	7127071.325	6267.3	6240.725	6238.757	CL/ML
"CPT-B05"	2103266.606	7127071.325	6267.3	6238.757	6236.46	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6236.46	6235.148	SM/SC
"CPT-B05"	2103266.606	7127071.325	6267.3	6235.148	6232.523	CL/ML
"CPT-B05"	2103266.606	7127071.325	6267.3	6232.523	6232.195	SM/SC
"CPT-B05"	2103266.606	7127071.325	6267.3	6232.195	6231.211	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6231.211	6230.555	SM/SC
"CPT-B05"	2103266.606	7127071.325	6267.3	6230.555	6230.227	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6230.227	6229.57	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6229.57	6229.242	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6229.242	6228.914	SM/SC
"CPT-B05"	2103266.606	7127071.325	6267.3	6228.914	6228.586	CL/ML
"CPT-B05"	2103266.606	7127071.325	6267.3	6228.586	6228.258	SM/SC
"CPT-B05"	2103266.606	7127071.325	6267.3	6228.258	6227.274	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6227.274	6226.618	SM/SC
"CPT-B05"	2103266.606	7127071.325	6267.3	6226.618	6223.993	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6223.993	6222.024	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6222.024	6221.696	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6221.696	6220.384	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6220.384	6218.415	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6218.415	6218.087	SM/SC
"CPT-B05"	2103266.606	7127071.325	6267.3	6218.087	6217.759	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6217.759	6217.103	SM/SC
"CPT-B05"	2103266.606	7127071.325	6267.3	6217.103	6216.119	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6216.119	6215.135	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6215.135	6213.494	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6213.494	6213.166	SM/SC
"CPT-B05"	2103266.606	7127071.325	6267.3	6213.166	6209.557	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6209.557	6208.245	SM/SC
"CPT-B05"	2103266.606	7127071.325	6267.3	6208.245	6207.589	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6207.589	6207.261	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6207.261	6206.604	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6206.604	6205.948	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6205.948	6204.636	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6204.636	6203.652	SM/SC
"CPT-B05"	2103266.606	7127071.325	6267.3	6203.652	6202.996	CL/ML
"CPT-B05"	2103266.606	7127071.325	6267.3	6202.996	6202.339	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6202.339	6201.027	CL/ML
"CPT-B05"	2103266.606	7127071.325	6267.3	6201.027	6200.043	CL/ML

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-B05"	2103266.606	7127071.325	6267.3	6200.043	6199.715	SM/SC
"CPT-B05"	2103266.606	7127071.325	6267.3	6199.715	6185.935	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6185.935	6185.607	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6185.607	6184.623	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6184.623	6183.967	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6183.967	6174.124	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6174.124	6173.468	Sand
"CPT-B05"	2103266.606	7127071.325	6267.3	6173.468	6166.906	Sand
"CPT-B07"	2103757.621	7126219.006	6260.3	6260.3	6259.3	Sand
"CPT-B07"	2103757.621	7126219.006	6260.3	6259.3	6255.379	Sand
"CPT-B07"	2103757.621	7126219.006	6260.3	6255.379	6246.192	Sand
"CPT-B07"	2103757.621	7126219.006	6260.3	6246.192	6245.864	SM/SC
"CPT-B07"	2103757.621	7126219.006	6260.3	6245.864	6245.208	SM/SC
"CPT-B07"	2103757.621	7126219.006	6260.3	6245.208	6244.88	SM/SC
"CPT-B07"	2103757.621	7126219.006	6260.3	6244.88	6236.678	Sand
"CPT-B07"	2103757.621	7126219.006	6260.3	6236.678	6236.022	SM/SC
"CPT-B07"	2103757.621	7126219.006	6260.3	6236.022	6219.618	Sand
"CPT-B07"	2103757.621	7126219.006	6260.3	6219.618	6219.289	SM/SC
"CPT-B07"	2103757.621	7126219.006	6260.3	6219.289	6218.961	SM/SC
"CPT-B07"	2103757.621	7126219.006	6260.3	6218.961	6218.633	SM/SC
"CPT-B07"	2103757.621	7126219.006	6260.3	6218.633	6215.681	Sand
"CPT-B07"	2103757.621	7126219.006	6260.3	6215.681	6215.352	SM/SC
"CPT-B07"	2103757.621	7126219.006	6260.3	6215.352	6214.696	Sand
"CPT-B07"	2103757.621	7126219.006	6260.3	6214.696	6211.087	SM/SC
"CPT-B07"	2103757.621	7126219.006	6260.3	6211.087	6210.431	SM/SC
"CPT-B07"	2103757.621	7126219.006	6260.3	6210.431	6210.103	Sand
"CPT-B07"	2103757.621	7126219.006	6260.3	6210.103	6208.135	SM/SC
"CPT-B07"	2103757.621	7126219.006	6260.3	6208.135	6207.807	CL/ML
"CPT-B07"	2103757.621	7126219.006	6260.3	6207.807	6207.15	CL/ML
"CPT-B07"	2103757.621	7126219.006	6260.3	6207.15	6206.494	CL/ML
"CPT-B07"	2103757.621	7126219.006	6260.3	6206.494	6205.838	CL/ML
"CPT-B07"	2103757.621	7126219.006	6260.3	6205.838	6204.526	SM/SC
"CPT-B07"	2103757.621	7126219.006	6260.3	6204.526	6204.198	Sand
"CPT-B07"	2103757.621	7126219.006	6260.3	6204.198	6203.213	Sand
"CPT-B07"	2103757.621	7126219.006	6260.3	6203.213	6201.245	Sand
"CPT-B07"	2103757.621	7126219.006	6260.3	6201.245	6200.589	SM/SC
"CPT-B07"	2103757.621	7126219.006	6260.3	6200.589	6198.948	Sand
"CPT-B07"	2103757.621	7126219.006	6260.3	6198.948	6194.355	SM/SC
"CPT-B07"	2103757.621	7126219.006	6260.3	6194.355	6193.699	SM/SC
"CPT-B07"	2103757.621	7126219.006	6260.3	6193.699	6192.715	SM/SC
"CPT-B07"	2103757.621	7126219.006	6260.3	6192.715	6191.074	Sand
"CPT-B07"	2103757.621	7126219.006	6260.3	6191.074	6190.746	SM/SC
"CPT-B07"	2103757.621	7126219.006	6260.3	6190.746	6183.528	Sand
"CPT-B07"	2103757.621	7126219.006	6260.3	6183.528	6182.544	SM/SC
"CPT-B07"	2103757.621	7126219.006	6260.3	6182.544	6178.607	Sand
"CPT-B07"	2103757.621	7126219.006	6260.3	6178.607	6177.951	SM/SC
"CPT-B07"	2103757.621	7126219.006	6260.3	6177.951	6177.623	Sand
"CPT-B07"	2103757.621	7126219.006	6260.3	6177.623	6176.967	Sand
"CPT-B07"	2103757.621	7126219.006	6260.3	6176.967	6174.67	Sand
"CPT-B07"	2103757.621	7126219.006	6260.3	6174.67	6174.342	SM/SC
"CPT-B07"	2103757.621	7126219.006	6260.3	6174.342	6173.03	Sand
"CPT-B07"	2103757.621	7126219.006	6260.3	6173.03	6171.389	SM/SC
"CPT-B07"	2103757.621	7126219.006	6260.3	6171.389	6169.749	Sand
"CPT-B07"	2103757.621	7126219.006	6260.3	6169.749	6169.421	SM/SC

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-B07"	2103757.621	7126219.006	6260.3	6169.421	6166.468	Sand
"CPT-B07"	2103757.621	7126219.006	6260.3	6166.468	6165.484	Sand
"CPT-B07"	2103757.621	7126219.006	6260.3	6165.484	6164.828	Sand
"CPT-B07"	2103757.621	7126219.006	6260.3	6164.828	6164.499	SM/SC
"CPT-B07"	2103757.621	7126219.006	6260.3	6164.499	6164.171	CL/ML
"CPT-B07"	2103757.621	7126219.006	6260.3	6164.171	6163.843	CL/ML
"CPT-B07"	2103757.621	7126219.006	6260.3	6163.843	6163.187	CL/ML
"CPT-B07"	2103757.621	7126219.006	6260.3	6163.187	6161.547	SM/SC
"CPT-B07"	2103757.621	7126219.006	6260.3	6161.547	6161.219	Sand
"CPT-B07"	2103757.621	7126219.006	6260.3	6161.219	6160.234	SM/SC
"CPT-B07"	2103757.621	7126219.006	6260.3	6160.234	6155.313	Sand
"CPT-B07"	2103757.621	7126219.006	6260.3	6155.313	6154.657	SM/SC
"CPT-B07"	2103757.621	7126219.006	6260.3	6154.657	6153.673	Sand
"CPT-B07"	2103757.621	7126219.006	6260.3	6153.673	6153.017	SM/SC
"CPT-B07"	2103757.621	7126219.006	6260.3	6153.017	6152.688	Sand
"CPT-B07"	2103757.621	7126219.006	6260.3	6152.688	6149.408	SM/SC
"CPT-B07"	2103757.621	7126219.006	6260.3	6149.408	6147.767	Sand
"CPT-B07"	2103757.621	7126219.006	6260.3	6147.767	6145.471	Sand
"CPT-C03"	2103894.043	7127031.487	6259.7	6259.7	6259.2	Sand
"CPT-C03"	2103894.043	7127031.487	6259.7	6259.2	6254.779	Sand
"CPT-C03"	2103894.043	7127031.487	6259.7	6254.779	6254.287	SM/SC
"CPT-C03"	2103894.043	7127031.487	6259.7	6254.287	6249.365	Sand
"CPT-C03"	2103894.043	7127031.487	6259.7	6249.365	6247.889	SM/SC
"CPT-C03"	2103894.043	7127031.487	6259.7	6247.889	6239.031	Sand
"CPT-C03"	2103894.043	7127031.487	6259.7	6239.031	6238.539	SM/SC
"CPT-C03"	2103894.043	7127031.487	6259.7	6238.539	6236.57	CL/ML
"CPT-C03"	2103894.043	7127031.487	6259.7	6236.57	6233.617	SM/SC
"CPT-C03"	2103894.043	7127031.487	6259.7	6233.617	6225.251	Sand
"CPT-C03"	2103894.043	7127031.487	6259.7	6225.251	6224.759	SM/SC
"CPT-C03"	2103894.043	7127031.487	6259.7	6224.759	6219.838	Sand
"CPT-C03"	2103894.043	7127031.487	6259.7	6219.838	6219.346	SM/SC
"CPT-C03"	2103894.043	7127031.487	6259.7	6219.346	6217.869	SM/SC
"CPT-C03"	2103894.043	7127031.487	6259.7	6217.869	6216.885	Sand
"CPT-C03"	2103894.043	7127031.487	6259.7	6216.885	6215.409	SM/SC
"CPT-C03"	2103894.043	7127031.487	6259.7	6215.409	6207.043	Sand
"CPT-C03"	2103894.043	7127031.487	6259.7	6207.043	6206.058	SM/SC
"CPT-C03"	2103894.043	7127031.487	6259.7	6206.058	6205.074	CL/ML
"CPT-C03"	2103894.043	7127031.487	6259.7	6205.074	6204.09	SM/SC
"CPT-C03"	2103894.043	7127031.487	6259.7	6204.09	6203.106	Sand
"CPT-C03"	2103894.043	7127031.487	6259.7	6203.106	6202.613	CL/ML
"CPT-C03"	2103894.043	7127031.487	6259.7	6202.613	6201.629	SM/SC
"CPT-C03"	2103894.043	7127031.487	6259.7	6201.629	6200.645	CL/ML
"CPT-C03"	2103894.043	7127031.487	6259.7	6200.645	6199.661	SM/SC
"CPT-C03"	2103894.043	7127031.487	6259.7	6199.661	6197.692	CL/ML
"CPT-C03"	2103894.043	7127031.487	6259.7	6197.692	6195.724	Sand
"CPT-C03"	2103894.043	7127031.487	6259.7	6195.724	6195.231	SM/SC
"CPT-C03"	2103894.043	7127031.487	6259.7	6195.231	6186.373	Sand
"CPT-C03"	2103894.043	7127031.487	6259.7	6186.373	6184.897	SM/SC
"CPT-C03"	2103894.043	7127031.487	6259.7	6184.897	6181.452	Sand
"CPT-C03"	2103894.043	7127031.487	6259.7	6181.452	6180.96	SM/SC
"CPT-C03"	2103894.043	7127031.487	6259.7	6180.96	6179.976	Sand
"CPT-C03"	2103894.043	7127031.487	6259.7	6179.976	6179.483	SM/SC
"CPT-C03"	2103894.043	7127031.487	6259.7	6179.483	6168.165	Sand
"CPT-C03"	2103894.043	7127031.487	6259.7	6168.165	6161.275	SM/SC

Table I-2 Lithology Input Data
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Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-C03"	2103894.043	7127031.487	6259.7	6161.275	6159.798	Sand
"CPT-C04"	2104327.331	7126741.881	6246.8	6246.8	6246.3	Sand
"CPT-C04"	2104327.331	7126741.881	6246.8	6246.3	6241.879	Sand
"CPT-C04"	2104327.331	7126741.881	6246.8	6241.879	6229.083	Sand
"CPT-C04"	2104327.331	7126741.881	6246.8	6229.083	6228.591	SM/SC
"CPT-C04"	2104327.331	7126741.881	6246.8	6228.591	6216.288	Sand
"CPT-C04"	2104327.331	7126741.881	6246.8	6216.288	6214.32	SM/SC
"CPT-C04"	2104327.331	7126741.881	6246.8	6214.32	6213.335	Sand
"CPT-C04"	2104327.331	7126741.881	6246.8	6213.335	6211.859	SM/SC
"CPT-C04"	2104327.331	7126741.881	6246.8	6211.859	6210.383	SM/SC
"CPT-C04"	2104327.331	7126741.881	6246.8	6210.383	6209.891	Sand
"CPT-C04"	2104327.331	7126741.881	6246.8	6209.891	6206.938	Sand
"CPT-C04"	2104327.331	7126741.881	6246.8	6206.938	6205.954	SM/SC
"CPT-C04"	2104327.331	7126741.881	6246.8	6205.954	6204.477	Sand
"CPT-C04"	2104327.331	7126741.881	6246.8	6204.477	6203.493	Sand
"CPT-C04"	2104327.331	7126741.881	6246.8	6203.493	6200.048	SM/SC
"CPT-C04"	2104327.331	7126741.881	6246.8	6200.048	6199.064	SM/SC
"CPT-C04"	2104327.331	7126741.881	6246.8	6199.064	6198.572	Sand
"CPT-C04"	2104327.331	7126741.881	6246.8	6198.572	6198.08	SM/SC
"CPT-C04"	2104327.331	7126741.881	6246.8	6198.08	6197.095	Sand
"CPT-C04"	2104327.331	7126741.881	6246.8	6197.095	6196.603	Sand
"CPT-C04"	2104327.331	7126741.881	6246.8	6196.603	6195.619	SM/SC
"CPT-C04"	2104327.331	7126741.881	6246.8	6195.619	6195.127	CL/ML
"CPT-C04"	2104327.331	7126741.881	6246.8	6195.127	6191.682	Sand
"CPT-C04"	2104327.331	7126741.881	6246.8	6191.682	6191.19	SM/SC
"CPT-C04"	2104327.331	7126741.881	6246.8	6191.19	6181.347	Sand
"CPT-C04"	2104327.331	7126741.881	6246.8	6181.347	6180.855	Sand
"CPT-C04"	2104327.331	7126741.881	6246.8	6180.855	6179.871	Sand
"CPT-C04"	2104327.331	7126741.881	6246.8	6179.871	6179.379	SM/SC
"CPT-C04"	2104327.331	7126741.881	6246.8	6179.379	6177.41	Sand
"CPT-C04"	2104327.331	7126741.881	6246.8	6177.41	6176.918	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6254.6	6250.179	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6250.179	6248.21	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6248.21	6246.898	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6246.898	6246.242	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6246.242	6245.586	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6245.586	6242.305	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6242.305	6240.008	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6240.008	6239.024	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6239.024	6237.712	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6237.712	6237.383	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6237.383	6236.071	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6236.071	6235.743	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6235.743	6235.415	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6235.415	6229.838	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6229.838	6228.853	SM/SC
"CPT-C05"	2104720.863	7126305.228	6255.1	6228.853	6224.26	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6224.26	6222.62	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6222.62	6221.964	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6221.964	6220.979	SM/SC
"CPT-C05"	2104720.863	7126305.228	6255.1	6220.979	6219.011	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6219.011	6218.683	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6218.683	6217.698	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6217.698	6216.714	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-C05"	2104720.863	7126305.228	6255.1	6216.714	6216.386	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6216.386	6212.449	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6212.449	6211.793	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6211.793	6211.137	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6211.137	6210.809	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6210.809	6207.528	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6207.528	6207.2	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6207.2	6206.544	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6206.544	6204.247	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6204.247	6203.263	SM/SC
"CPT-C05"	2104720.863	7126305.228	6255.1	6203.263	6201.95	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6201.95	6199.326	SM/SC
"CPT-C05"	2104720.863	7126305.228	6255.1	6199.326	6193.092	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6193.092	6192.764	SM/SC
"CPT-C05"	2104720.863	7126305.228	6255.1	6192.764	6192.108	CL/ML
"CPT-C05"	2104720.863	7126305.228	6255.1	6192.108	6191.124	SM/SC
"CPT-C05"	2104720.863	7126305.228	6255.1	6191.124	6190.467	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6190.467	6189.811	SM/SC
"CPT-C05"	2104720.863	7126305.228	6255.1	6189.811	6189.155	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6189.155	6188.827	SM/SC
"CPT-C05"	2104720.863	7126305.228	6255.1	6188.827	6188.499	CL/ML
"CPT-C05"	2104720.863	7126305.228	6255.1	6188.499	6188.171	CL/ML
"CPT-C05"	2104720.863	7126305.228	6255.1	6188.171	6187.843	CL/ML
"CPT-C05"	2104720.863	7126305.228	6255.1	6187.843	6186.859	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6186.859	6186.53	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6186.53	6185.874	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6185.874	6185.546	SM/SC
"CPT-C05"	2104720.863	7126305.228	6255.1	6185.546	6180.953	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6180.953	6179.969	SM/SC
"CPT-C05"	2104720.863	7126305.228	6255.1	6179.969	6179.641	CL/ML
"CPT-C05"	2104720.863	7126305.228	6255.1	6179.641	6179.313	SM/SC
"CPT-C05"	2104720.863	7126305.228	6255.1	6179.313	6177.672	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6177.672	6175.048	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6175.048	6170.454	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6170.454	6169.47	SM/SC
"CPT-C05"	2104720.863	7126305.228	6255.1	6169.47	6168.158	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6168.158	6167.173	SM/SC
"CPT-C05"	2104720.863	7126305.228	6255.1	6167.173	6165.861	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6165.861	6164.877	SM/SC
"CPT-C05"	2104720.863	7126305.228	6255.1	6164.877	6162.252	Sand
"CPT-C05"	2104720.863	7126305.228	6255.1	6162.252	6161.924	SM/SC
"CPT-C06"	2105357.451	7126027.293	6244.8	6244.3	6239.8	Sand
"CPT-C06"	2105357.451	7126027.293	6244.8	6239.879	6225.115	Sand
"CPT-C06"	2105357.451	7126027.293	6244.8	6225.115	6224.459	SM/SC
"CPT-C06"	2105357.451	7126027.293	6244.8	6224.459	6224.131	Sand
"CPT-C06"	2105357.451	7126027.293	6244.8	6224.131	6223.146	SM/SC
"CPT-C06"	2105357.451	7126027.293	6244.8	6223.146	6221.834	Sand
"CPT-C06"	2105357.451	7126027.293	6244.8	6221.834	6219.866	SM/SC
"CPT-C06"	2105357.451	7126027.293	6244.8	6219.866	6218.881	Sand
"CPT-C06"	2105357.451	7126027.293	6244.8	6218.881	6218.553	SM/SC
"CPT-C06"	2105357.451	7126027.293	6244.8	6218.553	6217.241	Sand
"CPT-C06"	2105357.451	7126027.293	6244.8	6217.241	6216.585	SM/SC
"CPT-C06"	2105357.451	7126027.293	6244.8	6216.585	6216.257	Sand
"CPT-C06"	2105357.451	7126027.293	6244.8	6216.257	6215.272	SM/SC

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-C06"	2105357.451	7126027.293	6244.8	6215.272	6214.944	CL/ML
"CPT-C06"	2105357.451	7126027.293	6244.8	6214.944	6214.288	SM/SC
"CPT-C06"	2105357.451	7126027.293	6244.8	6214.288	6212.32	Sand
"CPT-C06"	2105357.451	7126027.293	6244.8	6212.32	6211.335	SM/SC
"CPT-C06"	2105357.451	7126027.293	6244.8	6211.335	6210.351	SM/SC
"CPT-C06"	2105357.451	7126027.293	6244.8	6210.351	6209.039	Sand
"CPT-C06"	2105357.451	7126027.293	6244.8	6209.039	6208.383	SM/SC
"CPT-C06"	2105357.451	7126027.293	6244.8	6208.383	6207.07	SM/SC
"CPT-C06"	2105357.451	7126027.293	6244.8	6207.07	6206.742	Sand
"CPT-C06"	2105357.451	7126027.293	6244.8	6206.742	6201.821	Sand
"CPT-C06"	2105357.451	7126027.293	6244.8	6201.821	6200.837	Sand
"CPT-C06"	2105357.451	7126027.293	6244.8	6200.837	6200.509	Sand
"CPT-C06"	2105357.451	7126027.293	6244.8	6200.509	6199.196	Sand
"CPT-C06"	2105357.451	7126027.293	6244.8	6199.196	6198.212	Sand
"CPT-C06"	2105357.451	7126027.293	6244.8	6198.212	6166.388	Sand
"CPT-C06"	2105357.451	7126027.293	6244.8	6166.388	6166.06	Sand
"CPT-D01"	2102121.651	7128055.572	6268	6268	6267.5	Sand
"CPT-D01"	2102121.651	7128055.572	6268	6267.5	6263.079	Sand
"CPT-D01"	2102121.651	7128055.572	6268	6263.079	6262.751	Sand
"CPT-D01"	2102121.651	7128055.572	6268	6262.751	6262.094	Sand
"CPT-D01"	2102121.651	7128055.572	6268	6262.094	6261.11	Sand
"CPT-D01"	2102121.651	7128055.572	6268	6261.11	6260.782	Sand
"CPT-D01"	2102121.651	7128055.572	6268	6260.782	6255.861	Sand
"CPT-D01"	2102121.651	7128055.572	6268	6255.861	6254.877	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6254.877	6252.908	CL/ML
"CPT-D01"	2102121.651	7128055.572	6268	6252.908	6252.252	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6252.252	6248.971	Sand
"CPT-D01"	2102121.651	7128055.572	6268	6248.971	6248.643	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6248.643	6247.003	Sand
"CPT-D01"	2102121.651	7128055.572	6268	6247.003	6246.018	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6246.018	6240.769	Sand
"CPT-D01"	2102121.651	7128055.572	6268	6240.769	6240.441	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6240.441	6239.129	Sand
"CPT-D01"	2102121.651	7128055.572	6268	6239.129	6238.801	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6238.801	6238.144	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6238.144	6233.551	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6233.551	6232.239	CL/ML
"CPT-D01"	2102121.651	7128055.572	6268	6232.239	6231.911	CL/ML
"CPT-D01"	2102121.651	7128055.572	6268	6231.911	6231.583	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6231.583	6228.63	Sand
"CPT-D01"	2102121.651	7128055.572	6268	6228.63	6228.302	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6228.302	6227.974	CL/ML
"CPT-D01"	2102121.651	7128055.572	6268	6227.974	6227.318	CL/ML
"CPT-D01"	2102121.651	7128055.572	6268	6227.318	6226.333	Sand
"CPT-D01"	2102121.651	7128055.572	6268	6226.333	6226.005	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6226.005	6225.677	Sand
"CPT-D01"	2102121.651	7128055.572	6268	6225.677	6225.349	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6225.349	6224.693	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6224.693	6224.365	Sand
"CPT-D01"	2102121.651	7128055.572	6268	6224.365	6224.037	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6224.037	6223.709	Sand
"CPT-D01"	2102121.651	7128055.572	6268	6223.709	6223.381	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6223.381	6223.052	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6223.052	6222.396	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-D01"	2102121.651	7128055.572	6268	6222.396	6221.74	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6221.74	6221.412	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6221.412	6221.084	CL/ML
"CPT-D01"	2102121.651	7128055.572	6268	6221.084	6220.756	CL/ML
"CPT-D01"	2102121.651	7128055.572	6268	6220.756	6220.428	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6220.428	6214.522	Sand
"CPT-D01"	2102121.651	7128055.572	6268	6214.522	6214.194	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6214.194	6212.554	Sand
"CPT-D01"	2102121.651	7128055.572	6268	6212.554	6211.898	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6211.898	6211.241	Sand
"CPT-D01"	2102121.651	7128055.572	6268	6211.241	6210.257	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6210.257	6209.273	Sand
"CPT-D01"	2102121.651	7128055.572	6268	6209.273	6208.945	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6208.945	6207.961	Sand
"CPT-D01"	2102121.651	7128055.572	6268	6207.961	6207.633	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6207.633	6207.304	Sand
"CPT-D01"	2102121.651	7128055.572	6268	6207.304	6206.32	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6206.32	6204.352	Sand
"CPT-D01"	2102121.651	7128055.572	6268	6204.352	6204.024	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6204.024	6203.367	Sand
"CPT-D01"	2102121.651	7128055.572	6268	6203.367	6202.055	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6202.055	6201.727	CL/ML
"CPT-D01"	2102121.651	7128055.572	6268	6201.727	6201.399	CL/ML
"CPT-D01"	2102121.651	7128055.572	6268	6201.399	6200.743	CL/ML
"CPT-D01"	2102121.651	7128055.572	6268	6200.743	6200.087	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6200.087	6199.102	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6199.102	6196.15	Sand
"CPT-D01"	2102121.651	7128055.572	6268	6196.15	6195.822	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6195.822	6194.181	CL/ML
"CPT-D01"	2102121.651	7128055.572	6268	6194.181	6193.853	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6193.853	6192.869	Sand
"CPT-D01"	2102121.651	7128055.572	6268	6192.869	6191.885	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6191.885	6190.9	CL/ML
"CPT-D01"	2102121.651	7128055.572	6268	6190.9	6189.916	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6189.916	6185.323	Sand
"CPT-D01"	2102121.651	7128055.572	6268	6185.323	6184.995	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6184.995	6184.667	Sand
"CPT-D01"	2102121.651	7128055.572	6268	6184.667	6182.37	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6182.37	6182.042	Sand
"CPT-D01"	2102121.651	7128055.572	6268	6182.042	6181.058	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6181.058	6179.417	SM/SC
"CPT-D01"	2102121.651	7128055.572	6268	6179.417	6179.089	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6260.4	6259.9	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6259.9	6255.479	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6255.479	6254.166	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6254.166	6253.838	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6253.838	6252.198	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6252.198	6251.542	SM/SC
"CPT-D02"	2102597.517	7127967.857	6260.4	6251.542	6251.214	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6251.214	6249.901	SM/SC
"CPT-D02"	2102597.517	7127967.857	6260.4	6249.901	6249.573	CL/ML
"CPT-D02"	2102597.517	7127967.857	6260.4	6249.573	6249.245	SM/SC
"CPT-D02"	2102597.517	7127967.857	6260.4	6249.245	6248.917	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6248.917	6248.261	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-D02"	2102597.517	7127967.857	6260.4	6248.261	6247.605	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6247.605	6247.277	SM/SC
"CPT-D02"	2102597.517	7127967.857	6260.4	6247.277	6244.652	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6244.652	6243.996	SM/SC
"CPT-D02"	2102597.517	7127967.857	6260.4	6243.996	6243.34	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6243.34	6242.683	SM/SC
"CPT-D02"	2102597.517	7127967.857	6260.4	6242.683	6242.355	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6242.355	6242.027	SM/SC
"CPT-D02"	2102597.517	7127967.857	6260.4	6242.027	6240.059	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6240.059	6239.075	SM/SC
"CPT-D02"	2102597.517	7127967.857	6260.4	6239.075	6237.762	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6237.762	6237.106	SM/SC
"CPT-D02"	2102597.517	7127967.857	6260.4	6237.106	6235.138	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6235.138	6234.809	SM/SC
"CPT-D02"	2102597.517	7127967.857	6260.4	6234.809	6234.153	CL/ML
"CPT-D02"	2102597.517	7127967.857	6260.4	6234.153	6232.513	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6232.513	6231.857	SM/SC
"CPT-D02"	2102597.517	7127967.857	6260.4	6231.857	6226.279	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6226.279	6225.951	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6225.951	6220.374	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6220.374	6220.046	SM/SC
"CPT-D02"	2102597.517	7127967.857	6260.4	6220.046	6219.718	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6219.718	6219.39	SM/SC
"CPT-D02"	2102597.517	7127967.857	6260.4	6219.39	6218.405	CL/ML
"CPT-D02"	2102597.517	7127967.857	6260.4	6218.405	6216.437	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6216.437	6215.781	SM/SC
"CPT-D02"	2102597.517	7127967.857	6260.4	6215.781	6215.124	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6215.124	6214.796	SM/SC
"CPT-D02"	2102597.517	7127967.857	6260.4	6214.796	6214.14	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6214.14	6213.812	CL/ML
"CPT-D02"	2102597.517	7127967.857	6260.4	6213.812	6213.156	CL/ML
"CPT-D02"	2102597.517	7127967.857	6260.4	6213.156	6212.828	CL/ML
"CPT-D02"	2102597.517	7127967.857	6260.4	6212.828	6212.5	CL/ML
"CPT-D02"	2102597.517	7127967.857	6260.4	6212.5	6212.172	CL/ML
"CPT-D02"	2102597.517	7127967.857	6260.4	6212.172	6211.844	CL/ML
"CPT-D02"	2102597.517	7127967.857	6260.4	6211.844	6210.859	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6210.859	6210.531	SM/SC
"CPT-D02"	2102597.517	7127967.857	6260.4	6210.531	6210.203	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6210.203	6209.547	SM/SC
"CPT-D02"	2102597.517	7127967.857	6260.4	6209.547	6208.891	SM/SC
"CPT-D02"	2102597.517	7127967.857	6260.4	6208.891	6200.033	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6200.033	6199.704	SM/SC
"CPT-D02"	2102597.517	7127967.857	6260.4	6199.704	6199.376	SM/SC
"CPT-D02"	2102597.517	7127967.857	6260.4	6199.376	6199.048	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6199.048	6198.72	SM/SC
"CPT-D02"	2102597.517	7127967.857	6260.4	6198.72	6193.799	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6193.799	6193.471	SM/SC
"CPT-D02"	2102597.517	7127967.857	6260.4	6193.471	6191.83	SM/SC
"CPT-D02"	2102597.517	7127967.857	6260.4	6191.83	6191.502	SM/SC
"CPT-D02"	2102597.517	7127967.857	6260.4	6191.502	6191.174	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6191.174	6190.846	SM/SC
"CPT-D02"	2102597.517	7127967.857	6260.4	6190.846	6190.19	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6190.19	6189.862	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6189.862	6186.581	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-D02"	2102597.517	7127967.857	6260.4	6186.581	6185.925	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6185.925	6185.269	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6185.269	6184.941	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6184.941	6181.988	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6181.988	6181.004	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6181.004	6176.739	Sand
"CPT-D02"	2102597.517	7127967.857	6260.4	6176.739	6176.082	Sand
"CPT-D03"	2103351.188	7127648.934	6264.1	6264.1	6263.6	Sand
"CPT-D03"	2103351.188	7127648.934	6264.1	6263.6	6259.179	Sand
"CPT-D03"	2103351.188	7127648.934	6264.1	6259.179	6253.601	Sand
"CPT-D03"	2103351.188	7127648.934	6264.1	6253.601	6250.977	SM/SC
"CPT-D03"	2103351.188	7127648.934	6264.1	6250.977	6249.992	CL/ML
"CPT-D03"	2103351.188	7127648.934	6264.1	6249.992	6249.664	SM/SC
"CPT-D03"	2103351.188	7127648.934	6264.1	6249.664	6247.04	Sand
"CPT-D03"	2103351.188	7127648.934	6264.1	6247.04	6246.712	SM/SC
"CPT-D03"	2103351.188	7127648.934	6264.1	6246.712	6245.727	Sand
"CPT-D03"	2103351.188	7127648.934	6264.1	6245.727	6245.399	Sand
"CPT-D03"	2103351.188	7127648.934	6264.1	6245.399	6243.103	Sand
"CPT-D03"	2103351.188	7127648.934	6264.1	6243.103	6242.446	SM/SC
"CPT-D03"	2103351.188	7127648.934	6264.1	6242.446	6242.118	Sand
"CPT-D03"	2103351.188	7127648.934	6264.1	6242.118	6241.134	SM/SC
"CPT-D03"	2103351.188	7127648.934	6264.1	6241.134	6239.822	Sand
"CPT-D03"	2103351.188	7127648.934	6264.1	6239.822	6239.494	SM/SC
"CPT-D03"	2103351.188	7127648.934	6264.1	6239.494	6239.166	CL/ML
"CPT-D03"	2103351.188	7127648.934	6264.1	6239.166	6238.509	Sand
"CPT-D03"	2103351.188	7127648.934	6264.1	6238.509	6237.853	SM/SC
"CPT-D03"	2103351.188	7127648.934	6264.1	6237.853	6237.525	Sand
"CPT-D03"	2103351.188	7127648.934	6264.1	6237.525	6237.197	SM/SC
"CPT-D03"	2103351.188	7127648.934	6264.1	6237.197	6235.885	SM/SC
"CPT-D03"	2103351.188	7127648.934	6264.1	6235.885	6235.229	SM/SC
"CPT-D03"	2103351.188	7127648.934	6264.1	6235.229	6231.948	Sand
"CPT-D03"	2103351.188	7127648.934	6264.1	6231.948	6230.635	SM/SC
"CPT-D03"	2103351.188	7127648.934	6264.1	6230.635	6230.307	Sand
"CPT-D03"	2103351.188	7127648.934	6264.1	6230.307	6227.027	SM/SC
"CPT-D03"	2103351.188	7127648.934	6264.1	6227.027	6225.714	Sand
"CPT-D03"	2103351.188	7127648.934	6264.1	6225.714	6224.402	SM/SC
"CPT-D03"	2103351.188	7127648.934	6264.1	6224.402	6224.074	SM/SC
"CPT-D03"	2103351.188	7127648.934	6264.1	6224.074	6216.2	Sand
"CPT-D03"	2103351.188	7127648.934	6264.1	6216.2	6214.231	SM/SC
"CPT-D03"	2103351.188	7127648.934	6264.1	6214.231	6213.247	Sand
"CPT-D03"	2103351.188	7127648.934	6264.1	6213.247	6212.919	SM/SC
"CPT-D03"	2103351.188	7127648.934	6264.1	6212.919	6211.607	Sand
"CPT-D03"	2103351.188	7127648.934	6264.1	6211.607	6211.278	CL/ML
"CPT-D03"	2103351.188	7127648.934	6264.1	6211.278	6209.966	CL/ML
"CPT-D03"	2103351.188	7127648.934	6264.1	6209.966	6209.31	CL/ML
"CPT-D03"	2103351.188	7127648.934	6264.1	6209.31	6208.654	CL/ML
"CPT-D03"	2103351.188	7127648.934	6264.1	6208.654	6208.326	Sand
"CPT-D03"	2103351.188	7127648.934	6264.1	6208.326	6207.998	SM/SC
"CPT-D03"	2103351.188	7127648.934	6264.1	6207.998	6201.764	Sand
"CPT-D03"	2103351.188	7127648.934	6264.1	6201.764	6201.436	Sand
"CPT-D03"	2103351.188	7127648.934	6264.1	6201.436	6194.874	Sand
"CPT-D03"	2103351.188	7127648.934	6264.1	6194.874	6194.546	SM/SC
"CPT-D03"	2103351.188	7127648.934	6264.1	6194.546	6184.048	Sand
"CPT-D03"	2103351.188	7127648.934	6264.1	6184.048	6183.719	SM/SC

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-D03"	2103351.188	7127648.934	6264.1	6183.719	6183.063	SM/SC
"CPT-D03"	2103351.188	7127648.934	6264.1	6183.063	6182.735	SM/SC
"CPT-D03"	2103351.188	7127648.934	6264.1	6182.735	6179.126	Sand
"CPT-D03"	2103351.188	7127648.934	6264.1	6179.126	6178.47	SM/SC
"CPT-D03"	2103351.188	7127648.934	6264.1	6178.47	6168.956	Sand
"CPT-D04"	2103999.954	7127361.44	6255.8	6255.8	6255.3	SM/SC
"CPT-D04"	2103999.954	7127361.44	6255.8	6255.3	6250.879	SM/SC
"CPT-D04"	2103999.954	7127361.44	6255.8	6250.879	6249.894	SM/SC
"CPT-D04"	2103999.954	7127361.44	6255.8	6249.894	6248.418	CL/ML
"CPT-D04"	2103999.954	7127361.44	6255.8	6248.418	6246.942	SM/SC
"CPT-D04"	2103999.954	7127361.44	6255.8	6246.942	6246.45	Sand
"CPT-D04"	2103999.954	7127361.44	6255.8	6246.45	6244.481	Sand
"CPT-D04"	2103999.954	7127361.44	6255.8	6244.481	6238.576	Sand
"CPT-D04"	2103999.954	7127361.44	6255.8	6238.576	6236.607	Sand
"CPT-D04"	2103999.954	7127361.44	6255.8	6236.607	6235.131	Sand
"CPT-D04"	2103999.954	7127361.44	6255.8	6235.131	6234.639	SM/SC
"CPT-D04"	2103999.954	7127361.44	6255.8	6234.639	6233.654	Sand
"CPT-D04"	2103999.954	7127361.44	6255.8	6233.654	6233.162	SM/SC
"CPT-D04"	2103999.954	7127361.44	6255.8	6233.162	6231.686	CL/ML
"CPT-D04"	2103999.954	7127361.44	6255.8	6231.686	6231.194	CL/ML
"CPT-D04"	2103999.954	7127361.44	6255.8	6231.194	6230.702	CL/ML
"CPT-D04"	2103999.954	7127361.44	6255.8	6230.702	6230.209	Sand
"CPT-D04"	2103999.954	7127361.44	6255.8	6230.209	6228.733	Sand
"CPT-D04"	2103999.954	7127361.44	6255.8	6228.733	6227.257	Sand
"CPT-D04"	2103999.954	7127361.44	6255.8	6227.257	6226.765	SM/SC
"CPT-D04"	2103999.954	7127361.44	6255.8	6226.765	6226.272	CL/ML
"CPT-D04"	2103999.954	7127361.44	6255.8	6226.272	6224.796	SM/SC
"CPT-D04"	2103999.954	7127361.44	6255.8	6224.796	6220.859	CL/ML
"CPT-D04"	2103999.954	7127361.44	6255.8	6220.859	6218.891	SM/SC
"CPT-D04"	2103999.954	7127361.44	6255.8	6218.891	6218.398	Sand
"CPT-D04"	2103999.954	7127361.44	6255.8	6218.398	6217.906	SM/SC
"CPT-D04"	2103999.954	7127361.44	6255.8	6217.906	6212.493	Sand
"CPT-D04"	2103999.954	7127361.44	6255.8	6212.493	6210.032	SM/SC
"CPT-D04"	2103999.954	7127361.44	6255.8	6210.032	6209.54	CL/ML
"CPT-D04"	2103999.954	7127361.44	6255.8	6209.54	6208.556	SM/SC
"CPT-D04"	2103999.954	7127361.44	6255.8	6208.556	6207.08	SM/SC
"CPT-D04"	2103999.954	7127361.44	6255.8	6207.08	6205.603	Sand
"CPT-D04"	2103999.954	7127361.44	6255.8	6205.603	6205.111	SM/SC
"CPT-D04"	2103999.954	7127361.44	6255.8	6205.111	6204.619	SM/SC
"CPT-D04"	2103999.954	7127361.44	6255.8	6204.619	6204.127	CL/ML
"CPT-D04"	2103999.954	7127361.44	6255.8	6204.127	6201.666	Sand
"CPT-D04"	2103999.954	7127361.44	6255.8	6201.666	6200.682	SM/SC
"CPT-D04"	2103999.954	7127361.44	6255.8	6200.682	6199.206	Sand
"CPT-D04"	2103999.954	7127361.44	6255.8	6199.206	6198.221	SM/SC
"CPT-D04"	2103999.954	7127361.44	6255.8	6198.221	6189.363	Sand
"CPT-D04"	2103999.954	7127361.44	6255.8	6189.363	6188.871	SM/SC
"CPT-D04"	2103999.954	7127361.44	6255.8	6188.871	6188.379	Sand
"CPT-D04"	2103999.954	7127361.44	6255.8	6188.379	6187.887	SM/SC
"CPT-D04"	2103999.954	7127361.44	6255.8	6187.887	6186.902	Sand
"CPT-D04"	2103999.954	7127361.44	6255.8	6186.902	6186.41	SM/SC
"CPT-D04"	2103999.954	7127361.44	6255.8	6186.41	6180.013	Sand
"CPT-D04"	2103999.954	7127361.44	6255.8	6180.013	6179.52	SM/SC
"CPT-D04"	2103999.954	7127361.44	6255.8	6179.52	6178.536	CL/ML
"CPT-D04"	2103999.954	7127361.44	6255.8	6178.536	6169.186	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-D04"	2103999.954	7127361.44	6255.8	6169.186	6168.694	SM/SC
"CPT-D04"	2103999.954	7127361.44	6255.8	6168.694	6167.217	Sand
"CPT-D04"	2103999.954	7127361.44	6255.8	6167.217	6165.741	SM/SC
"CPT-D04"	2103999.954	7127361.44	6255.8	6165.741	6161.312	Sand
"CPT-D04"	2103999.954	7127361.44	6255.8	6161.312	6160.82	Sand
"CPT-D05"	2104304.778	7127475.579	6250.1	6250.1	6249.6	Sand
"CPT-D05"	2104304.778	7127475.579	6250.1	6249.6	6245.179	Sand
"CPT-D05"	2104304.778	7127475.579	6250.1	6245.179	6241.242	Sand
"CPT-D05"	2104304.778	7127475.579	6250.1	6241.242	6240.75	SM/SC
"CPT-D05"	2104304.778	7127475.579	6250.1	6240.75	6234.352	Sand
"CPT-D05"	2104304.778	7127475.579	6250.1	6234.352	6233.86	CL/ML
"CPT-D05"	2104304.778	7127475.579	6250.1	6233.86	6233.368	SM/SC
"CPT-D05"	2104304.778	7127475.579	6250.1	6233.368	6232.876	Sand
"CPT-D05"	2104304.778	7127475.579	6250.1	6232.876	6229.923	Sand
"CPT-D05"	2104304.778	7127475.579	6250.1	6229.923	6228.446	Sand
"CPT-D05"	2104304.778	7127475.579	6250.1	6228.446	6227.954	SM/SC
"CPT-D05"	2104304.778	7127475.579	6250.1	6227.954	6224.509	Sand
"CPT-D05"	2104304.778	7127475.579	6250.1	6224.509	6224.017	SM/SC
"CPT-D05"	2104304.778	7127475.579	6250.1	6224.017	6221.065	Sand
"CPT-D05"	2104304.778	7127475.579	6250.1	6221.065	6220.572	SM/SC
"CPT-D05"	2104304.778	7127475.579	6250.1	6220.572	6220.08	Sand
"CPT-D05"	2104304.778	7127475.579	6250.1	6220.08	6219.588	SM/SC
"CPT-D05"	2104304.778	7127475.579	6250.1	6219.588	6219.096	Sand
"CPT-D05"	2104304.778	7127475.579	6250.1	6219.096	6218.604	SM/SC
"CPT-D05"	2104304.778	7127475.579	6250.1	6218.604	6216.635	SM/SC
"CPT-D05"	2104304.778	7127475.579	6250.1	6216.635	6213.191	Sand
"CPT-D05"	2104304.778	7127475.579	6250.1	6213.191	6211.222	SM/SC
"CPT-D05"	2104304.778	7127475.579	6250.1	6211.222	6210.238	Sand
"CPT-D05"	2104304.778	7127475.579	6250.1	6210.238	6207.777	SM/SC
"CPT-D05"	2104304.778	7127475.579	6250.1	6207.777	6206.301	SM/SC
"CPT-D05"	2104304.778	7127475.579	6250.1	6206.301	6205.809	SM/SC
"CPT-D05"	2104304.778	7127475.579	6250.1	6205.809	6205.317	SM/SC
"CPT-D05"	2104304.778	7127475.579	6250.1	6205.317	6204.824	Sand
"CPT-D05"	2104304.778	7127475.579	6250.1	6204.824	6204.332	SM/SC
"CPT-D05"	2104304.778	7127475.579	6250.1	6204.332	6201.872	CL/ML
"CPT-D05"	2104304.778	7127475.579	6250.1	6201.872	6201.38	Sand
"CPT-D05"	2104304.778	7127475.579	6250.1	6201.38	6199.903	Sand
"CPT-D05"	2104304.778	7127475.579	6250.1	6199.903	6197.935	SM/SC
"CPT-D05"	2104304.778	7127475.579	6250.1	6197.935	6189.568	Sand
"CPT-D05"	2104304.778	7127475.579	6250.1	6189.568	6189.076	SM/SC
"CPT-D05"	2104304.778	7127475.579	6250.1	6189.076	6188.092	Sand
"CPT-D05"	2104304.778	7127475.579	6250.1	6188.092	6187.6	Sand
"CPT-D05"	2104304.778	7127475.579	6250.1	6187.6	6187.108	SM/SC
"CPT-D05"	2104304.778	7127475.579	6250.1	6187.108	6179.234	Sand
"CPT-D05"	2104304.778	7127475.579	6250.1	6179.234	6178.742	SM/SC
"CPT-D05"	2104304.778	7127475.579	6250.1	6178.742	6171.36	Sand
"CPT-D05"	2104304.778	7127475.579	6250.1	6171.36	6170.868	SM/SC
"CPT-D05"	2104304.778	7127475.579	6250.1	6170.868	6169.883	Sand
"CPT-D05"	2104304.778	7127475.579	6250.1	6169.883	6169.391	SM/SC
"CPT-D05"	2104304.778	7127475.579	6250.1	6169.391	6166.931	Sand
"CPT-D05"	2104304.778	7127475.579	6250.1	6166.931	6165.946	SM/SC
"CPT-D05"	2104304.778	7127475.579	6250.1	6165.946	6165.454	Sand
"CPT-D05"	2104304.778	7127475.579	6250.1	6165.454	6164.47	SM/SC
"CPT-D05"	2104304.778	7127475.579	6250.1	6164.47	6159.057	Sand

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-D05"	2104304.778	7127475.579	6250.1	6159.057	6158.565	Sand
"CPT-D06"	2104881.595	7127321.772	6240.7	6240.7	6240.2	Sand
"CPT-D06"	2104881.595	7127321.772	6240.7	6240.2	6235.779	Sand
"CPT-D06"	2104881.595	7127321.772	6240.7	6235.779	6235.287	Sand
"CPT-D06"	2104881.595	7127321.772	6240.7	6235.287	6234.302	SM/SC
"CPT-D06"	2104881.595	7127321.772	6240.7	6234.302	6224.46	Sand
"CPT-D06"	2104881.595	7127321.772	6240.7	6224.46	6223.476	SM/SC
"CPT-D06"	2104881.595	7127321.772	6240.7	6223.476	6222.983	CL/ML
"CPT-D06"	2104881.595	7127321.772	6240.7	6222.983	6222.491	SM/SC
"CPT-D06"	2104881.595	7127321.772	6240.7	6222.491	6221.507	Sand
"CPT-D06"	2104881.595	7127321.772	6240.7	6221.507	6221.015	CL/ML
"CPT-D06"	2104881.595	7127321.772	6240.7	6221.015	6220.031	Sand
"CPT-D06"	2104881.595	7127321.772	6240.7	6220.031	6218.554	SM/SC
"CPT-D06"	2104881.595	7127321.772	6240.7	6218.554	6218.062	Sand
"CPT-D06"	2104881.595	7127321.772	6240.7	6218.062	6216.586	SM/SC
"CPT-D06"	2104881.595	7127321.772	6240.7	6216.586	6216.094	CL/ML
"CPT-D06"	2104881.595	7127321.772	6240.7	6216.094	6214.125	SM/SC
"CPT-D06"	2104881.595	7127321.772	6240.7	6214.125	6212.649	SM/SC
"CPT-D06"	2104881.595	7127321.772	6240.7	6212.649	6212.157	Sand
"CPT-D06"	2104881.595	7127321.772	6240.7	6212.157	6211.172	SM/SC
"CPT-D06"	2104881.595	7127321.772	6240.7	6211.172	6210.188	Sand
"CPT-D06"	2104881.595	7127321.772	6240.7	6210.188	6208.22	SM/SC
"CPT-D06"	2104881.595	7127321.772	6240.7	6208.22	6204.283	SM/SC
"CPT-D06"	2104881.595	7127321.772	6240.7	6204.283	6203.791	SM/SC
"CPT-D06"	2104881.595	7127321.772	6240.7	6203.791	6203.298	Sand
"CPT-D06"	2104881.595	7127321.772	6240.7	6203.298	6202.806	SM/SC
"CPT-D06"	2104881.595	7127321.772	6240.7	6202.806	6201.822	SM/SC
"CPT-D06"	2104881.595	7127321.772	6240.7	6201.822	6201.33	SM/SC
"CPT-D06"	2104881.595	7127321.772	6240.7	6201.33	6196.901	Sand
"CPT-D06"	2104881.595	7127321.772	6240.7	6196.901	6195.917	SM/SC
"CPT-D06"	2104881.595	7127321.772	6240.7	6195.917	6189.027	Sand
"CPT-D06"	2104881.595	7127321.772	6240.7	6189.027	6188.535	SM/SC
"CPT-D06"	2104881.595	7127321.772	6240.7	6188.535	6188.043	CL/ML
"CPT-D06"	2104881.595	7127321.772	6240.7	6188.043	6187.55	SM/SC
"CPT-D06"	2104881.595	7127321.772	6240.7	6187.55	6185.582	Sand
"CPT-D06"	2104881.595	7127321.772	6240.7	6186.566	6186.074	Sand
"CPT-D06"	2104881.595	7127321.772	6240.7	6185.582	6184.598	SM/SC
"CPT-D06"	2104881.595	7127321.772	6240.7	6184.598	6184.106	Sand
"CPT-D06"	2104881.595	7127321.772	6240.7	6184.106	6183.613	SM/SC
"CPT-D06"	2104881.595	7127321.772	6240.7	6183.613	6183.121	Sand
"CPT-D06"	2104881.595	7127321.772	6240.7	6183.121	6181.645	SM/SC
"CPT-D06"	2104881.595	7127321.772	6240.7	6181.645	6179.676	Sand
"CPT-D06"	2104881.595	7127321.772	6240.7	6179.676	6179.184	CL/ML
"CPT-D06"	2104881.595	7127321.772	6240.7	6179.184	6177.708	Sand
"CPT-D06"	2104881.595	7127321.772	6240.7	6177.708	6173.279	SM/SC
"CPT-D06"	2104881.595	7127321.772	6240.7	6173.279	6170.326	Sand
"CPT-D06"	2104881.595	7127321.772	6240.7	6170.326	6169.342	SM/SC
"CPT-D06"	2104881.595	7127321.772	6240.7	6169.342	6168.357	Sand
"CPT-D06"	2104881.595	7127321.772	6240.7	6168.357	6167.865	SM/SC
"CPT-D06"	2104881.595	7127321.772	6240.7	6167.865	6166.881	Sand
"CPT-D06"	2104881.595	7127321.772	6240.7	6166.881	6165.405	SM/SC
"CPT-D06"	2104881.595	7127321.772	6240.7	6165.405	6164.42	SM/SC
"CPT-D06"	2104881.595	7127321.772	6240.7	6164.42	6163.928	SM/SC
"CPT-D06"	2104881.595	7127321.772	6240.7	6163.928	6159.991	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-D06"	2104881.595	7127321.772	6240.7	6159.991	6155.562	SM/SC
"CPT-D06"	2104881.595	7127321.772	6240.7	6155.562	6153.594	Sand
"CPT-D06"	2104881.595	7127321.772	6240.7	6153.594	6140.306	SM/SC
"CPT-D07"	2105111.584	7126644.51	6246	6246	6245.5	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6245.5	6241.079	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6241.079	6235.829	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6235.829	6234.189	SM/SC
"CPT-D07"	2105111.584	7126644.51	6246	6234.189	6231.564	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6231.564	6228.612	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6228.612	6226.971	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6226.971	6226.643	SM/SC
"CPT-D07"	2105111.584	7126644.51	6246	6226.643	6225.659	CL/ML
"CPT-D07"	2105111.584	7126644.51	6246	6225.659	6225.003	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6225.003	6224.675	SM/SC
"CPT-D07"	2105111.584	7126644.51	6246	6224.675	6211.551	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6211.551	6211.223	SM/SC
"CPT-D07"	2105111.584	7126644.51	6246	6211.223	6208.27	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6208.27	6207.614	SM/SC
"CPT-D07"	2105111.584	7126644.51	6246	6207.614	6206.958	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6206.958	6206.302	SM/SC
"CPT-D07"	2105111.584	7126644.51	6246	6206.302	6205.974	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6205.974	6203.021	SM/SC
"CPT-D07"	2105111.584	7126644.51	6246	6203.021	6202.037	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6202.037	6201.709	SM/SC
"CPT-D07"	2105111.584	7126644.51	6246	6201.709	6198.756	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6198.756	6196.459	SM/SC
"CPT-D07"	2105111.584	7126644.51	6246	6196.459	6194.491	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6194.491	6194.163	SM/SC
"CPT-D07"	2105111.584	7126644.51	6246	6194.163	6193.835	CL/ML
"CPT-D07"	2105111.584	7126644.51	6246	6193.835	6193.507	SM/SC
"CPT-D07"	2105111.584	7126644.51	6246	6193.507	6188.257	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6188.257	6187.601	SM/SC
"CPT-D07"	2105111.584	7126644.51	6246	6187.601	6185.633	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6185.633	6185.304	SM/SC
"CPT-D07"	2105111.584	7126644.51	6246	6185.304	6182.68	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6182.68	6182.024	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6182.024	6179.727	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6179.727	6179.399	SM/SC
"CPT-D07"	2105111.584	7126644.51	6246	6179.399	6178.087	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6178.087	6177.43	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6177.43	6174.806	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6174.806	6174.15	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6174.15	6173.165	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6173.165	6171.197	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6171.197	6170.869	CL/ML
"CPT-D07"	2105111.584	7126644.51	6246	6170.869	6170.541	SM/SC
"CPT-D07"	2105111.584	7126644.51	6246	6170.541	6164.307	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6164.307	6163.651	SM/SC
"CPT-D07"	2105111.584	7126644.51	6246	6163.651	6153.152	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6153.152	6152.824	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6152.824	6152.496	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6152.496	6151.512	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6151.512	6146.919	Sand
"CPT-D07"	2105111.584	7126644.51	6246	6146.919	6146.591	SM/SC

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-D07"	2105111.584	7126644.51	6246	6146.591	6145.606	Sand
"CPT-E01"	2101403.717	7128603.099	6268.3	6268.3	6267.8	SM/SC
"CPT-E01"	2101403.717	7128603.099	6268.3	6267.8	6263.379	SM/SC
"CPT-E01"	2101403.717	7128603.099	6268.3	6263.379	6262.723	SM/SC
"CPT-E01"	2101403.717	7128603.099	6268.3	6262.723	6262.066	Sand
"CPT-E01"	2101403.717	7128603.099	6268.3	6262.066	6260.426	SM/SC
"CPT-E01"	2101403.717	7128603.099	6268.3	6260.426	6260.098	SM/SC
"CPT-E01"	2101403.717	7128603.099	6268.3	6260.098	6259.77	SM/SC
"CPT-E01"	2101403.717	7128603.099	6268.3	6259.77	6258.129	Sand
"CPT-E01"	2101403.717	7128603.099	6268.3	6258.129	6257.801	SM/SC
"CPT-E01"	2101403.717	7128603.099	6268.3	6257.801	6257.145	CL/ML
"CPT-E01"	2101403.717	7128603.099	6268.3	6257.145	6252.224	SM/SC
"CPT-E01"	2101403.717	7128603.099	6268.3	6252.224	6245.99	Sand
"CPT-E01"	2101403.717	7128603.099	6268.3	6245.99	6245.662	Sand
"CPT-E01"	2101403.717	7128603.099	6268.3	6245.662	6245.006	Sand
"CPT-E01"	2101403.717	7128603.099	6268.3	6245.006	6243.694	SM/SC
"CPT-E01"	2101403.717	7128603.099	6268.3	6243.694	6243.038	CL/ML
"CPT-E01"	2101403.717	7128603.099	6268.3	6243.038	6241.725	SM/SC
"CPT-E01"	2101403.717	7128603.099	6268.3	6241.725	6241.397	Sand
"CPT-E01"	2101403.717	7128603.099	6268.3	6241.397	6240.413	Sand
"CPT-E01"	2101403.717	7128603.099	6268.3	6240.413	6238.116	Sand
"CPT-E01"	2101403.717	7128603.099	6268.3	6238.116	6237.788	SM/SC
"CPT-E01"	2101403.717	7128603.099	6268.3	6237.788	6236.804	Sand
"CPT-E01"	2101403.717	7128603.099	6268.3	6236.804	6236.476	SM/SC
"CPT-E01"	2101403.717	7128603.099	6268.3	6236.476	6232.539	Sand
"CPT-E01"	2101403.717	7128603.099	6268.3	6232.539	6232.211	Sand
"CPT-E01"	2101403.717	7128603.099	6268.3	6232.211	6231.227	Sand
"CPT-E01"	2101403.717	7128603.099	6268.3	6231.227	6230.57	SM/SC
"CPT-E01"	2101403.717	7128603.099	6268.3	6230.57	6227.946	Sand
"CPT-E01"	2101403.717	7128603.099	6268.3	6227.946	6227.29	Sand
"CPT-E01"	2101403.717	7128603.099	6268.3	6227.29	6226.961	Sand
"CPT-E01"	2101403.717	7128603.099	6268.3	6226.961	6226.633	SM/SC
"CPT-E01"	2101403.717	7128603.099	6268.3	6226.633	6225.649	Sand
"CPT-E01"	2101403.717	7128603.099	6268.3	6225.649	6225.321	SM/SC
"CPT-E01"	2101403.717	7128603.099	6268.3	6225.321	6224.337	SM/SC
"CPT-E01"	2101403.717	7128603.099	6268.3	6224.337	6224.009	Sand
"CPT-E01"	2101403.717	7128603.099	6268.3	6224.009	6222.696	SM/SC
"CPT-E01"	2101403.717	7128603.099	6268.3	6222.696	6222.368	SM/SC
"CPT-E01"	2101403.717	7128603.099	6268.3	6222.368	6222.04	Sand
"CPT-E01"	2101403.717	7128603.099	6268.3	6222.04	6215.807	Sand
"CPT-E01"	2101403.717	7128603.099	6268.3	6215.807	6215.478	SM/SC
"CPT-E01"	2101403.717	7128603.099	6268.3	6215.478	6210.229	Sand
"CPT-E01"	2101403.717	7128603.099	6268.3	6210.229	6209.901	Sand
"CPT-E01"	2101403.717	7128603.099	6268.3	6209.901	6207.933	SM/SC
"CPT-E01"	2101403.717	7128603.099	6268.3	6207.933	6205.636	Sand
"CPT-E01"	2101403.717	7128603.099	6268.3	6205.636	6204.98	SM/SC
"CPT-E01"	2101403.717	7128603.099	6268.3	6204.98	6183.326	Sand
"CPT-E01"	2101403.717	7128603.099	6268.3	6183.326	6182.014	SM/SC
"CPT-E01"	2101403.717	7128603.099	6268.3	6182.014	6181.03	Sand
"CPT-E01"	2101403.717	7128603.099	6268.3	6181.03	6180.702	SM/SC
"CPT-E01"	2101403.717	7128603.099	6268.3	6180.702	6180.373	CL/ML
"CPT-E01"	2101403.717	7128603.099	6268.3	6180.373	6180.045	SM/SC
"CPT-E01"	2101403.717	7128603.099	6268.3	6180.045	6177.749	Sand
"CPT-E01"	2101403.717	7128603.099	6268.3	6177.749	6177.421	SM/SC

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-E01"	2101403.717	7128603.099	6268.3	6177.421	6177.093	CL/ML
"CPT-E01"	2101403.717	7128603.099	6268.3	6177.093	6176.765	SM/SC
"CPT-E01"	2101403.717	7128603.099	6268.3	6176.765	6175.452	Sand
"CPT-E01"	2101403.717	7128603.099	6268.3	6175.452	6173.156	CL/ML
"CPT-E01"	2101403.717	7128603.099	6268.3	6173.156	6172.828	CL/ML
"CPT-E01"	2101403.717	7128603.099	6268.3	6172.828	6171.187	SM/SC
"CPT-E01"	2101403.717	7128603.099	6268.3	6171.187	6170.859	CL/ML
"CPT-E01"	2101403.717	7128603.099	6268.3	6170.859	6168.891	CL/ML
"CPT-E01"	2101403.717	7128603.099	6268.3	6168.891	6168.562	SM/SC
"CPT-E01"	2101403.717	7128603.099	6268.3	6168.562	6167.906	Sand
"CPT-E02"	2101994.784	7128465.689	6268.7	6268.7	6268.2	Sand
"CPT-E02"	2101994.784	7128465.689	6268.7	6268.2	6263.779	Sand
"CPT-E02"	2101994.784	7128465.689	6268.7	6263.779	6254.264	Sand
"CPT-E02"	2101994.784	7128465.689	6268.7	6254.264	6253.936	SM/SC
"CPT-E02"	2101994.784	7128465.689	6268.7	6253.936	6252.624	Sand
"CPT-E02"	2101994.784	7128465.689	6268.7	6252.624	6251.968	SM/SC
"CPT-E02"	2101994.784	7128465.689	6268.7	6251.968	6251.64	CL/ML
"CPT-E02"	2101994.784	7128465.689	6268.7	6251.64	6251.312	SM/SC
"CPT-E02"	2101994.784	7128465.689	6268.7	6251.312	6250.983	CL/ML
"CPT-E02"	2101994.784	7128465.689	6268.7	6250.983	6250.655	SM/SC
"CPT-E02"	2101994.784	7128465.689	6268.7	6250.655	6236.548	Sand
"CPT-E02"	2101994.784	7128465.689	6268.7	6236.548	6233.923	SM/SC
"CPT-E02"	2101994.784	7128465.689	6268.7	6233.923	6233.595	Sand
"CPT-E02"	2101994.784	7128465.689	6268.7	6233.595	6231.627	SM/SC
"CPT-E02"	2101994.784	7128465.689	6268.7	6231.627	6224.737	Sand
"CPT-E02"	2101994.784	7128465.689	6268.7	6224.737	6224.409	SM/SC
"CPT-E02"	2101994.784	7128465.689	6268.7	6224.409	6224.081	Sand
"CPT-E02"	2101994.784	7128465.689	6268.7	6224.081	6223.424	CL/ML
"CPT-E02"	2101994.784	7128465.689	6268.7	6223.424	6223.096	Sand
"CPT-E02"	2101994.784	7128465.689	6268.7	6223.096	6222.768	SM/SC
"CPT-E02"	2101994.784	7128465.689	6268.7	6222.768	6221.128	Sand
"CPT-E02"	2101994.784	7128465.689	6268.7	6221.128	6220.8	SM/SC
"CPT-E02"	2101994.784	7128465.689	6268.7	6220.8	6220.144	Sand
"CPT-E02"	2101994.784	7128465.689	6268.7	6220.144	6219.815	SM/SC
"CPT-E02"	2101994.784	7128465.689	6268.7	6219.815	6218.831	SM/SC
"CPT-E02"	2101994.784	7128465.689	6268.7	6218.831	6214.894	Sand
"CPT-E02"	2101994.784	7128465.689	6268.7	6214.894	6214.566	SM/SC
"CPT-E02"	2101994.784	7128465.689	6268.7	6214.566	6212.926	CL/ML
"CPT-E02"	2101994.784	7128465.689	6268.7	6212.926	6212.27	SM/SC
"CPT-E02"	2101994.784	7128465.689	6268.7	6212.27	6211.941	Sand
"CPT-E02"	2101994.784	7128465.689	6268.7	6211.941	6211.613	SM/SC
"CPT-E02"	2101994.784	7128465.689	6268.7	6211.613	6208.989	Sand
"CPT-E02"	2101994.784	7128465.689	6268.7	6208.989	6208.333	SM/SC
"CPT-E02"	2101994.784	7128465.689	6268.7	6208.333	6207.348	Sand
"CPT-E02"	2101994.784	7128465.689	6268.7	6207.348	6207.02	SM/SC
"CPT-E02"	2101994.784	7128465.689	6268.7	6207.02	6206.036	SM/SC
"CPT-E02"	2101994.784	7128465.689	6268.7	6206.036	6201.443	Sand
"CPT-E02"	2101994.784	7128465.689	6268.7	6201.443	6201.115	SM/SC
"CPT-E02"	2101994.784	7128465.689	6268.7	6201.115	6199.146	SM/SC
"CPT-E02"	2101994.784	7128465.689	6268.7	6199.146	6198.818	Sand
"CPT-E02"	2101994.784	7128465.689	6268.7	6198.818	6198.162	SM/SC
"CPT-E02"	2101994.784	7128465.689	6268.7	6198.162	6197.834	Sand
"CPT-E02"	2101994.784	7128465.689	6268.7	6197.834	6197.506	SM/SC
"CPT-E02"	2101994.784	7128465.689	6268.7	6197.506	6186.351	Sand

Table I-2 Lithology Input Data
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Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-E02"	2101994.784	7128465.689	6268.7	6186.351	6185.367	SM/SC
"CPT-E02"	2101994.784	7128465.689	6268.7	6185.367	6177.493	Sand
"CPT-E02"	2101994.784	7128465.689	6268.7	6177.493	6177.165	Sand
"CPT-E03"	2102360.07	7128330.346	6263.7	6263.7	6263.2	Sand
"CPT-E03"	2102360.07	7128330.346	6263.7	6263.2	6258.779	Sand
"CPT-E03"	2102360.07	7128330.346	6263.7	6258.779	6253.529	Sand
"CPT-E03"	2102360.07	7128330.346	6263.7	6253.529	6251.233	SM/SC
"CPT-E03"	2102360.07	7128330.346	6263.7	6251.233	6249.92	Sand
"CPT-E03"	2102360.07	7128330.346	6263.7	6249.92	6249.592	SM/SC
"CPT-E03"	2102360.07	7128330.346	6263.7	6249.592	6249.264	CL/ML
"CPT-E03"	2102360.07	7128330.346	6263.7	6249.264	6248.936	SM/SC
"CPT-E03"	2102360.07	7128330.346	6263.7	6248.936	6248.608	Sand
"CPT-E03"	2102360.07	7128330.346	6263.7	6248.608	6248.28	Sand
"CPT-E03"	2102360.07	7128330.346	6263.7	6248.28	6247.624	Sand
"CPT-E03"	2102360.07	7128330.346	6263.7	6247.624	6247.296	SM/SC
"CPT-E03"	2102360.07	7128330.346	6263.7	6247.296	6240.406	Sand
"CPT-E03"	2102360.07	7128330.346	6263.7	6240.406	6240.078	Sand
"CPT-E03"	2102360.07	7128330.346	6263.7	6240.078	6232.204	Sand
"CPT-E03"	2102360.07	7128330.346	6263.7	6232.204	6231.876	Sand
"CPT-E03"	2102360.07	7128330.346	6263.7	6231.876	6226.955	Sand
"CPT-E03"	2102360.07	7128330.346	6263.7	6226.955	6226.627	SM/SC
"CPT-E03"	2102360.07	7128330.346	6263.7	6226.627	6225.314	CL/ML
"CPT-E03"	2102360.07	7128330.346	6263.7	6225.314	6224.33	SM/SC
"CPT-E03"	2102360.07	7128330.346	6263.7	6224.33	6224.002	Sand
"CPT-E03"	2102360.07	7128330.346	6263.7	6224.002	6223.674	SM/SC
"CPT-E03"	2102360.07	7128330.346	6263.7	6223.674	6222.361	Sand
"CPT-E03"	2102360.07	7128330.346	6263.7	6222.361	6221.705	SM/SC
"CPT-E03"	2102360.07	7128330.346	6263.7	6221.705	6221.049	CL/ML
"CPT-E03"	2102360.07	7128330.346	6263.7	6221.049	6220.721	SM/SC
"CPT-E03"	2102360.07	7128330.346	6263.7	6220.721	6220.393	Sand
"CPT-E03"	2102360.07	7128330.346	6263.7	6220.393	6220.065	SM/SC
"CPT-E03"	2102360.07	7128330.346	6263.7	6220.065	6219.737	SM/SC
"CPT-E03"	2102360.07	7128330.346	6263.7	6219.737	6219.409	SM/SC
"CPT-E03"	2102360.07	7128330.346	6263.7	6219.409	6218.752	Sand
"CPT-E03"	2102360.07	7128330.346	6263.7	6218.752	6218.424	Sand
"CPT-E03"	2102360.07	7128330.346	6263.7	6218.424	6218.096	Sand
"CPT-E03"	2102360.07	7128330.346	6263.7	6218.096	6217.768	SM/SC
"CPT-E03"	2102360.07	7128330.346	6263.7	6217.768	6217.112	CL/ML
"CPT-E03"	2102360.07	7128330.346	6263.7	6217.112	6216.784	SM/SC
"CPT-E03"	2102360.07	7128330.346	6263.7	6216.784	6215.472	Sand
"CPT-E03"	2102360.07	7128330.346	6263.7	6215.472	6214.815	SM/SC
"CPT-E03"	2102360.07	7128330.346	6263.7	6214.815	6214.487	SM/SC
"CPT-E03"	2102360.07	7128330.346	6263.7	6214.487	6213.175	Sand
"CPT-E03"	2102360.07	7128330.346	6263.7	6213.175	6212.191	SM/SC
"CPT-E03"	2102360.07	7128330.346	6263.7	6212.191	6202.348	Sand
"CPT-E03"	2102360.07	7128330.346	6263.7	6202.348	6201.692	SM/SC
"CPT-E03"	2102360.07	7128330.346	6263.7	6201.692	6201.036	SM/SC
"CPT-E03"	2102360.07	7128330.346	6263.7	6201.036	6200.708	SM/SC
"CPT-E03"	2102360.07	7128330.346	6263.7	6200.708	6196.443	Sand
"CPT-E03"	2102360.07	7128330.346	6263.7	6196.443	6195.787	SM/SC
"CPT-E03"	2102360.07	7128330.346	6263.7	6195.787	6194.146	Sand
"CPT-E03"	2102360.07	7128330.346	6263.7	6194.146	6193.818	SM/SC
"CPT-E03"	2102360.07	7128330.346	6263.7	6193.818	6190.537	Sand
"CPT-E03"	2102360.07	7128330.346	6263.7	6190.537	6189.881	SM/SC

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-E03"	2102360.07	7128330.346	6263.7	6189.881	6182.663	Sand
"CPT-E04"	2102926.679	7128178.922	6252.8	6252.8	6252.3	SM/SC
"CPT-E04"	2102926.679	7128178.922	6252.8	6252.3	6247.879	SM/SC
"CPT-E04"	2102926.679	7128178.922	6252.8	6247.879	6245.254	Sand
"CPT-E04"	2102926.679	7128178.922	6252.8	6245.254	6243.942	SM/SC
"CPT-E04"	2102926.679	7128178.922	6252.8	6243.942	6235.412	Sand
"CPT-E04"	2102926.679	7128178.922	6252.8	6235.412	6234.755	SM/SC
"CPT-E04"	2102926.679	7128178.922	6252.8	6234.755	6234.427	SM/SC
"CPT-E04"	2102926.679	7128178.922	6252.8	6234.427	6223.929	Sand
"CPT-E04"	2102926.679	7128178.922	6252.8	6223.929	6223.601	SM/SC
"CPT-E04"	2102926.679	7128178.922	6252.8	6223.601	6222.944	CL/ML
"CPT-E04"	2102926.679	7128178.922	6252.8	6222.944	6222.616	SM/SC
"CPT-E04"	2102926.679	7128178.922	6252.8	6222.616	6220.32	Sand
"CPT-E04"	2102926.679	7128178.922	6252.8	6220.32	6219.992	SM/SC
"CPT-E04"	2102926.679	7128178.922	6252.8	6219.992	6219.007	CL/ML
"CPT-E04"	2102926.679	7128178.922	6252.8	6219.007	6203.915	Sand
"CPT-E04"	2102926.679	7128178.922	6252.8	6203.915	6203.587	SM/SC
"CPT-E04"	2102926.679	7128178.922	6252.8	6203.587	6203.259	Sand
"CPT-E04"	2102926.679	7128178.922	6252.8	6203.259	6202.603	SM/SC
"CPT-E04"	2102926.679	7128178.922	6252.8	6202.603	6201.947	Sand
"CPT-E04"	2102926.679	7128178.922	6252.8	6201.947	6201.619	SM/SC
"CPT-E04"	2102926.679	7128178.922	6252.8	6201.619	6201.291	SM/SC
"CPT-E04"	2102926.679	7128178.922	6252.8	6201.291	6200.963	CL/ML
"CPT-E04"	2102926.679	7128178.922	6252.8	6200.963	6200.635	Sand
"CPT-E04"	2102926.679	7128178.922	6252.8	6200.635	6200.307	SM/SC
"CPT-E04"	2102926.679	7128178.922	6252.8	6200.307	6197.682	Sand
"CPT-E04"	2102926.679	7128178.922	6252.8	6197.682	6196.698	SM/SC
"CPT-E04"	2102926.679	7128178.922	6252.8	6196.698	6195.385	CL/ML
"CPT-E04"	2102926.679	7128178.922	6252.8	6195.385	6195.057	CL/ML
"CPT-E04"	2102926.679	7128178.922	6252.8	6195.057	6194.401	CL/ML
"CPT-E04"	2102926.679	7128178.922	6252.8	6194.401	6194.073	SM/SC
"CPT-E04"	2102926.679	7128178.922	6252.8	6194.073	6180.293	Sand
"CPT-E04"	2102926.679	7128178.922	6252.8	6180.293	6179.965	SM/SC
"CPT-E04"	2102926.679	7128178.922	6252.8	6179.965	6174.06	Sand
"CPT-E04"	2102926.679	7128178.922	6252.8	6174.06	6173.732	Sand
"CPT-E04"	2102926.679	7128178.922	6252.8	6173.732	6167.17	Sand
"CPT-E04"	2102926.679	7128178.922	6252.8	6167.17	6166.842	SM/SC
"CPT-E04"	2102926.679	7128178.922	6252.8	6166.842	6155.359	Sand
"CPT-E04"	2102926.679	7128178.922	6252.8	6155.359	6154.375	SM/SC
"CPT-E04"	2102926.679	7128178.922	6252.8	6154.375	6152.078	Sand
"CPT-E05"	2103657.912	7127754.832	6261.5	6261.5	6261	Sand
"CPT-E05"	2103657.912	7127754.832	6261.5	6261	6256.579	Sand
"CPT-E05"	2103657.912	7127754.832	6261.5	6256.579	6251.657	Sand
"CPT-E05"	2103657.912	7127754.832	6261.5	6251.657	6251.165	SM/SC
"CPT-E05"	2103657.912	7127754.832	6261.5	6251.165	6246.736	Sand
"CPT-E05"	2103657.912	7127754.832	6261.5	6246.736	6245.26	Sand
"CPT-E05"	2103657.912	7127754.832	6261.5	6245.26	6241.815	Sand
"CPT-E05"	2103657.912	7127754.832	6261.5	6241.815	6240.339	Sand
"CPT-E05"	2103657.912	7127754.832	6261.5	6240.339	6238.37	Sand
"CPT-E05"	2103657.912	7127754.832	6261.5	6238.37	6237.878	SM/SC
"CPT-E05"	2103657.912	7127754.832	6261.5	6237.878	6236.894	Sand
"CPT-E05"	2103657.912	7127754.832	6261.5	6236.894	6235.909	CL/ML
"CPT-E05"	2103657.912	7127754.832	6261.5	6235.909	6235.417	SM/SC
"CPT-E05"	2103657.912	7127754.832	6261.5	6235.417	6225.083	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-E05"	2103657.912	7127754.832	6261.5	6225.083	6223.606	SM/SC
"CPT-E05"	2103657.912	7127754.832	6261.5	6223.606	6223.114	CL/ML
"CPT-E05"	2103657.912	7127754.832	6261.5	6223.114	6222.622	SM/SC
"CPT-E05"	2103657.912	7127754.832	6261.5	6222.622	6219.177	Sand
"CPT-E05"	2103657.912	7127754.832	6261.5	6219.177	6213.272	SM/SC
"CPT-E05"	2103657.912	7127754.832	6261.5	6213.272	6212.78	CL/ML
"CPT-E05"	2103657.912	7127754.832	6261.5	6212.78	6211.795	SM/SC
"CPT-E05"	2103657.912	7127754.832	6261.5	6211.795	6211.303	CL/ML
"CPT-E05"	2103657.912	7127754.832	6261.5	6211.303	6210.811	CL/ML
"CPT-E05"	2103657.912	7127754.832	6261.5	6210.811	6210.319	SM/SC
"CPT-E05"	2103657.912	7127754.832	6261.5	6210.319	6208.35	Sand
"CPT-E05"	2103657.912	7127754.832	6261.5	6208.35	6207.858	SM/SC
"CPT-E05"	2103657.912	7127754.832	6261.5	6207.858	6207.366	Sand
"CPT-E05"	2103657.912	7127754.832	6261.5	6207.366	6206.874	SM/SC
"CPT-E05"	2103657.912	7127754.832	6261.5	6206.874	6191.946	Sand
"CPT-E05"	2103657.912	7127754.832	6261.5	6191.946	6190.47	SM/SC
"CPT-E05"	2103657.912	7127754.832	6261.5	6190.47	6189.486	Sand
"CPT-E05"	2103657.912	7127754.832	6261.5	6189.486	6188.993	SM/SC
"CPT-E05"	2103657.912	7127754.832	6261.5	6188.993	6182.596	Sand
"CPT-E05"	2103657.912	7127754.832	6261.5	6182.596	6182.104	SM/SC
"CPT-E05"	2103657.912	7127754.832	6261.5	6182.104	6179.643	Sand
"CPT-E05"	2103657.912	7127754.832	6261.5	6179.643	6179.151	SM/SC
"CPT-E05"	2103657.912	7127754.832	6261.5	6179.151	6178.659	CL/ML
"CPT-E05"	2103657.912	7127754.832	6261.5	6178.659	6177.182	SM/SC
"CPT-E05"	2103657.912	7127754.832	6261.5	6177.182	6174.722	Sand
"CPT-E05"	2103657.912	7127754.832	6261.5	6174.722	6173.245	SM/SC
"CPT-E05"	2103657.912	7127754.832	6261.5	6173.245	6170.293	Sand
"CPT-E05"	2103657.912	7127754.832	6261.5	6170.293	6167.34	SM/SC
"CPT-E05"	2103657.912	7127754.832	6261.5	6167.34	6164.879	Sand
"CPT-E05"	2103657.912	7127754.832	6261.5	6164.879	6163.895	Sand
"CPT-E05"	2103657.912	7127754.832	6261.5	6163.895	6162.911	Sand
"CPT-E05"	2103657.912	7127754.832	6261.5	6162.911	6161.927	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6251.8	6251.3	SM/SC
"CPT-E06"	2104431.579	7127840.826	6251.8	6251.3	6246.879	SM/SC
"CPT-E06"	2104431.579	7127840.826	6251.8	6246.879	6246.387	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6246.387	6245.402	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6245.402	6244.91	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6244.91	6243.434	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6243.434	6239.005	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6239.005	6237.528	SM/SC
"CPT-E06"	2104431.579	7127840.826	6251.8	6237.528	6237.036	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6237.036	6236.052	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6236.052	6234.576	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6234.576	6234.083	CL/ML
"CPT-E06"	2104431.579	7127840.826	6251.8	6234.083	6233.591	SM/SC
"CPT-E06"	2104431.579	7127840.826	6251.8	6233.591	6233.099	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6233.099	6231.131	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6231.131	6230.639	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6230.639	6230.146	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6230.146	6229.162	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6229.162	6228.178	SM/SC
"CPT-E06"	2104431.579	7127840.826	6251.8	6228.178	6224.241	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6224.241	6223.257	SM/SC
"CPT-E06"	2104431.579	7127840.826	6251.8	6223.257	6222.272	CL/ML

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-E06"	2104431.579	7127840.826	6251.8	6222.272	6218.828	SM/SC
"CPT-E06"	2104431.579	7127840.826	6251.8	6218.828	6218.335	CL/ML
"CPT-E06"	2104431.579	7127840.826	6251.8	6218.335	6217.843	SM/SC
"CPT-E06"	2104431.579	7127840.826	6251.8	6217.843	6217.351	CL/ML
"CPT-E06"	2104431.579	7127840.826	6251.8	6217.351	6215.383	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6215.383	6214.398	SM/SC
"CPT-E06"	2104431.579	7127840.826	6251.8	6214.398	6210.954	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6210.954	6208.493	SM/SC
"CPT-E06"	2104431.579	7127840.826	6251.8	6208.493	6207.017	CL/ML
"CPT-E06"	2104431.579	7127840.826	6251.8	6207.017	6206.524	CL/ML
"CPT-E06"	2104431.579	7127840.826	6251.8	6206.524	6205.54	CL/ML
"CPT-E06"	2104431.579	7127840.826	6251.8	6205.54	6204.556	SM/SC
"CPT-E06"	2104431.579	7127840.826	6251.8	6204.556	6203.572	CL/ML
"CPT-E06"	2104431.579	7127840.826	6251.8	6203.572	6203.08	SM/SC
"CPT-E06"	2104431.579	7127840.826	6251.8	6203.08	6202.095	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6202.095	6201.603	SM/SC
"CPT-E06"	2104431.579	7127840.826	6251.8	6201.603	6201.111	CL/ML
"CPT-E06"	2104431.579	7127840.826	6251.8	6201.111	6200.127	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6200.127	6197.666	SM/SC
"CPT-E06"	2104431.579	7127840.826	6251.8	6197.666	6190.776	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6190.776	6190.284	SM/SC
"CPT-E06"	2104431.579	7127840.826	6251.8	6190.284	6188.316	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6188.316	6187.824	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6187.824	6186.839	SM/SC
"CPT-E06"	2104431.579	7127840.826	6251.8	6186.839	6185.855	SM/SC
"CPT-E06"	2104431.579	7127840.826	6251.8	6185.855	6183.887	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6183.887	6182.902	SM/SC
"CPT-E06"	2104431.579	7127840.826	6251.8	6182.902	6181.918	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6181.918	6181.426	SM/SC
"CPT-E06"	2104431.579	7127840.826	6251.8	6181.426	6180.442	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6180.442	6179.95	SM/SC
"CPT-E06"	2104431.579	7127840.826	6251.8	6179.95	6179.457	CL/ML
"CPT-E06"	2104431.579	7127840.826	6251.8	6179.457	6178.965	CL/ML
"CPT-E06"	2104431.579	7127840.826	6251.8	6178.965	6178.473	SM/SC
"CPT-E06"	2104431.579	7127840.826	6251.8	6178.473	6173.552	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6173.552	6173.06	SM/SC
"CPT-E06"	2104431.579	7127840.826	6251.8	6173.06	6170.599	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6170.599	6169.615	SM/SC
"CPT-E06"	2104431.579	7127840.826	6251.8	6169.615	6169.123	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6169.123	6164.202	SM/SC
"CPT-E06"	2104431.579	7127840.826	6251.8	6164.202	6163.217	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6163.217	6162.233	SM/SC
"CPT-E06"	2104431.579	7127840.826	6251.8	6162.233	6161.741	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6161.741	6159.772	SM/SC
"CPT-E06"	2104431.579	7127840.826	6251.8	6159.772	6157.804	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6157.804	6156.82	SM/SC
"CPT-E06"	2104431.579	7127840.826	6251.8	6156.82	6156.328	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6156.328	6155.835	SM/SC
"CPT-E06"	2104431.579	7127840.826	6251.8	6155.835	6151.898	Sand
"CPT-E06"	2104431.579	7127840.826	6251.8	6151.898	6151.406	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6244.4	6243.9	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6243.9	6239.479	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6239.479	6239.151	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6239.151	6237.182	SM/SC

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-E07"	2104793.025	7128094.288	6244.4	6237.182	6235.542	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6235.542	6234.886	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6234.886	6233.901	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6233.901	6233.573	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6233.573	6233.245	CL/ML
"CPT-E07"	2104793.025	7128094.288	6244.4	6233.245	6232.261	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6232.261	6231.605	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6231.605	6228.652	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6228.652	6225.043	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6225.043	6224.715	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6224.715	6223.403	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6223.403	6221.434	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6221.434	6218.809	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6218.809	6218.481	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6218.481	6215.529	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6215.529	6215.201	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6215.201	6214.872	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6214.872	6214.544	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6214.544	6214.216	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6214.216	6213.232	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6213.232	6210.935	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6210.935	6209.295	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6209.295	6208.967	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6208.967	6207.655	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6207.655	6203.061	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6203.061	6201.749	CL/ML
"CPT-E07"	2104793.025	7128094.288	6244.4	6201.749	6200.765	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6200.765	6200.437	CL/ML
"CPT-E07"	2104793.025	7128094.288	6244.4	6200.437	6200.109	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6200.109	6199.452	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6199.452	6198.468	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6198.468	6197.812	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6197.812	6197.156	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6197.156	6196.172	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6196.172	6191.907	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6191.907	6191.578	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6191.578	6191.25	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6191.25	6190.922	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6190.922	6186.329	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6186.329	6186.001	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6186.001	6185.345	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6185.345	6185.017	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6185.017	6181.08	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6181.08	6180.752	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6180.752	6178.783	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6178.783	6177.471	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6177.471	6177.143	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6177.143	6176.815	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6176.815	6176.487	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6176.487	6175.83	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6175.83	6175.174	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6175.174	6174.846	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6174.846	6170.581	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6170.581	6170.253	SM/SC

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-E07"	2104793.025	7128094.288	6244.4	6170.253	6167.628	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6167.628	6166.972	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6166.972	6166.316	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6166.316	6164.019	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6164.019	6163.691	CL/ML
"CPT-E07"	2104793.025	7128094.288	6244.4	6163.691	6162.707	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6162.707	6161.723	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6161.723	6160.739	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6160.739	6160.41	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6160.41	6159.754	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6159.754	6154.833	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6154.833	6152.208	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6152.208	6151.224	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6151.224	6145.647	SM/SC
"CPT-E07"	2104793.025	7128094.288	6244.4	6145.647	6144.334	Sand
"CPT-E07"	2104793.025	7128094.288	6244.4	6144.334	6144.006	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6243.8	6243.3	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6243.3	6238.879	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6238.879	6237.238	Sand
"CPT-E08"	2104996.221	7127882.286	6243.8	6237.238	6236.91	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6236.91	6232.317	Sand
"CPT-E08"	2104996.221	7127882.286	6243.8	6232.317	6231.989	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6231.989	6231.661	Sand
"CPT-E08"	2104996.221	7127882.286	6243.8	6231.661	6228.38	Sand
"CPT-E08"	2104996.221	7127882.286	6243.8	6228.38	6223.131	Sand
"CPT-E08"	2104996.221	7127882.286	6243.8	6223.131	6222.475	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6222.475	6222.146	Sand
"CPT-E08"	2104996.221	7127882.286	6243.8	6222.146	6221.818	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6221.818	6220.834	Sand
"CPT-E08"	2104996.221	7127882.286	6243.8	6220.834	6220.506	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6220.506	6219.522	CL/ML
"CPT-E08"	2104996.221	7127882.286	6243.8	6219.522	6219.194	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6219.194	6218.866	Sand
"CPT-E08"	2104996.221	7127882.286	6243.8	6218.866	6217.225	Sand
"CPT-E08"	2104996.221	7127882.286	6243.8	6217.225	6216.569	Sand
"CPT-E08"	2104996.221	7127882.286	6243.8	6216.569	6216.241	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6216.241	6214.929	CL/ML
"CPT-E08"	2104996.221	7127882.286	6243.8	6214.929	6213.616	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6213.616	6213.288	Sand
"CPT-E08"	2104996.221	7127882.286	6243.8	6213.288	6211.32	Sand
"CPT-E08"	2104996.221	7127882.286	6243.8	6211.32	6210.335	Sand
"CPT-E08"	2104996.221	7127882.286	6243.8	6210.335	6209.351	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6209.351	6208.695	Sand
"CPT-E08"	2104996.221	7127882.286	6243.8	6208.695	6208.039	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6208.039	6204.43	Sand
"CPT-E08"	2104996.221	7127882.286	6243.8	6204.43	6204.102	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6204.102	6202.461	Sand
"CPT-E08"	2104996.221	7127882.286	6243.8	6202.461	6201.149	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6201.149	6200.821	Sand
"CPT-E08"	2104996.221	7127882.286	6243.8	6200.821	6198.852	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6198.852	6198.524	CL/ML
"CPT-E08"	2104996.221	7127882.286	6243.8	6198.524	6198.196	CL/ML
"CPT-E08"	2104996.221	7127882.286	6243.8	6198.196	6197.54	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6197.54	6197.212	CL/ML

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-E08"	2104996.221	7127882.286	6243.8	6197.212	6196.884	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6196.884	6195.572	Sand
"CPT-E08"	2104996.221	7127882.286	6243.8	6195.572	6194.259	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6194.259	6190.978	Sand
"CPT-E08"	2104996.221	7127882.286	6243.8	6190.978	6190.322	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6190.322	6183.433	Sand
"CPT-E08"	2104996.221	7127882.286	6243.8	6183.433	6183.104	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6183.104	6182.776	Sand
"CPT-E08"	2104996.221	7127882.286	6243.8	6182.776	6182.12	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6182.12	6180.48	Sand
"CPT-E08"	2104996.221	7127882.286	6243.8	6180.48	6180.152	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6180.152	6179.824	Sand
"CPT-E08"	2104996.221	7127882.286	6243.8	6179.824	6179.167	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6179.167	6178.183	Sand
"CPT-E08"	2104996.221	7127882.286	6243.8	6178.183	6177.855	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6177.855	6177.199	Sand
"CPT-E08"	2104996.221	7127882.286	6243.8	6177.199	6176.871	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6176.871	6173.59	Sand
"CPT-E08"	2104996.221	7127882.286	6243.8	6173.59	6173.262	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6173.262	6170.637	Sand
"CPT-E08"	2104996.221	7127882.286	6243.8	6170.637	6169.981	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6169.981	6166.7	Sand
"CPT-E08"	2104996.221	7127882.286	6243.8	6166.7	6166.044	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6166.044	6165.716	CL/ML
"CPT-E08"	2104996.221	7127882.286	6243.8	6165.716	6165.388	CL/ML
"CPT-E08"	2104996.221	7127882.286	6243.8	6165.388	6165.06	CL/ML
"CPT-E08"	2104996.221	7127882.286	6243.8	6165.06	6164.076	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6164.076	6163.748	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6163.748	6163.419	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6163.419	6161.451	Sand
"CPT-E08"	2104996.221	7127882.286	6243.8	6161.451	6157.186	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6157.186	6156.53	CL/ML
"CPT-E08"	2104996.221	7127882.286	6243.8	6156.53	6156.202	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6156.202	6148.984	Sand
"CPT-E08"	2104996.221	7127882.286	6243.8	6148.984	6147.015	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6147.015	6146.031	CL/ML
"CPT-E08"	2104996.221	7127882.286	6243.8	6146.031	6144.391	SM/SC
"CPT-E08"	2104996.221	7127882.286	6243.8	6144.391	6143.406	Sand
"CPT-E10"	2105256.553	7127364.939	6234.4	6234.4	6233.9	Sand
"CPT-E10"	2105256.553	7127364.939	6234.4	6233.9	6229.479	Sand
"CPT-E10"	2105256.553	7127364.939	6234.4	6229.479	6228.494	Sand
"CPT-E10"	2105256.553	7127364.939	6234.4	6228.494	6227.51	SM/SC
"CPT-E10"	2105256.553	7127364.939	6234.4	6227.51	6224.065	Sand
"CPT-E10"	2105256.553	7127364.939	6234.4	6224.065	6223.573	SM/SC
"CPT-E10"	2105256.553	7127364.939	6234.4	6223.573	6216.683	Sand
"CPT-E10"	2105256.553	7127364.939	6234.4	6216.683	6216.191	SM/SC
"CPT-E10"	2105256.553	7127364.939	6234.4	6216.191	6215.207	CL/ML
"CPT-E10"	2105256.553	7127364.939	6234.4	6215.207	6214.715	SM/SC
"CPT-E10"	2105256.553	7127364.939	6234.4	6214.715	6212.746	Sand
"CPT-E10"	2105256.553	7127364.939	6234.4	6212.746	6212.254	SM/SC
"CPT-E10"	2105256.553	7127364.939	6234.4	6212.254	6211.27	SM/SC
"CPT-E10"	2105256.553	7127364.939	6234.4	6211.27	6210.286	CL/ML
"CPT-E10"	2105256.553	7127364.939	6234.4	6210.286	6209.794	SM/SC
"CPT-E10"	2105256.553	7127364.939	6234.4	6209.794	6203.396	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-E10"	2105256.553	7127364.939	6234.4	6203.396	6202.904	SM/SC
"CPT-E10"	2105256.553	7127364.939	6234.4	6202.904	6201.92	Sand
"CPT-E10"	2105256.553	7127364.939	6234.4	6201.92	6200.443	SM/SC
"CPT-E10"	2105256.553	7127364.939	6234.4	6200.443	6199.951	SM/SC
"CPT-E10"	2105256.553	7127364.939	6234.4	6199.951	6199.459	SM/SC
"CPT-E10"	2105256.553	7127364.939	6234.4	6199.459	6192.077	Sand
"CPT-E10"	2105256.553	7127364.939	6234.4	6192.077	6191.093	SM/SC
"CPT-E10"	2105256.553	7127364.939	6234.4	6191.093	6184.695	Sand
"CPT-E10"	2105256.553	7127364.939	6234.4	6184.695	6184.203	SM/SC
"CPT-E10"	2105256.553	7127364.939	6234.4	6184.203	6181.743	Sand
"CPT-E10"	2105256.553	7127364.939	6234.4	6181.743	6181.25	SM/SC
"CPT-E10"	2105256.553	7127364.939	6234.4	6181.25	6179.282	Sand
"CPT-E10"	2105256.553	7127364.939	6234.4	6179.282	6178.79	SM/SC
"CPT-E10"	2105256.553	7127364.939	6234.4	6178.79	6178.298	SM/SC
"CPT-E10"	2105256.553	7127364.939	6234.4	6178.298	6172.392	Sand
"CPT-E10"	2105256.553	7127364.939	6234.4	6172.392	6171.408	SM/SC
"CPT-E10"	2105256.553	7127364.939	6234.4	6171.408	6170.424	Sand
"CPT-E10"	2105256.553	7127364.939	6234.4	6170.424	6169.931	SM/SC
"CPT-E10"	2105256.553	7127364.939	6234.4	6169.931	6169.439	Sand
"CPT-E10"	2105256.553	7127364.939	6234.4	6169.439	6167.963	SM/SC
"CPT-E10"	2105256.553	7127364.939	6234.4	6167.963	6166.979	Sand
"CPT-E10"	2105256.553	7127364.939	6234.4	6166.979	6165.994	SM/SC
"CPT-E10"	2105256.553	7127364.939	6234.4	6165.994	6164.518	Sand
"CPT-E10"	2105256.553	7127364.939	6234.4	6164.518	6162.057	SM/SC
"CPT-E10"	2105256.553	7127364.939	6234.4	6162.057	6156.644	Sand
"CPT-E10"	2105256.553	7127364.939	6234.4	6156.644	6155.168	SM/SC
"CPT-E10"	2105256.553	7127364.939	6234.4	6155.168	6154.183	Sand
"CPT-E10"	2105256.553	7127364.939	6234.4	6154.183	6151.231	SM/SC
"CPT-E10"	2105256.553	7127364.939	6234.4	6151.231	6150.739	Sand
"CPT-E10"	2105256.553	7127364.939	6234.4	6150.739	6150.246	SM/SC
"CPT-E10"	2105256.553	7127364.939	6234.4	6150.246	6149.262	Sand
"CPT-E10"	2105256.553	7127364.939	6234.4	6149.262	6137.451	SM/SC
"CPT-E10"	2105256.553	7127364.939	6234.4	6137.451	6133.022	Sand
"CPT-E10"	2105256.553	7127364.939	6234.4	6133.022	6132.038	SM/SC
"CPT-E10"	2105256.553	7127364.939	6234.4	6132.038	6125.64	Sand
"CPT-E10"	2105256.553	7127364.939	6234.4	6125.64	6125.148	SM/SC
"CPT-E10"	2105256.553	7127364.939	6234.4	6125.148	6124.164	CL/ML
"CPT-E10"	2105256.553	7127364.939	6234.4	6124.164	6123.672	CL/ML
"CPT-E10"	2105256.553	7127364.939	6234.4	6123.672	6121.211	Sand
"CPT-E10"	2105256.553	7127364.939	6234.4	6121.211	6119.735	SM/SC
"CPT-F01"	2101546.209	7129008.036	6261.3	6261.3	6260.8	Sand
"CPT-F01"	2101546.209	7129008.036	6261.3	6260.8	6256.379	Sand
"CPT-F01"	2101546.209	7129008.036	6261.3	6256.379	6255.723	Sand
"CPT-F01"	2101546.209	7129008.036	6261.3	6255.723	6255.394	SM/SC
"CPT-F01"	2101546.209	7129008.036	6261.3	6255.394	6253.426	Sand
"CPT-F01"	2101546.209	7129008.036	6261.3	6253.426	6253.098	SM/SC
"CPT-F01"	2101546.209	7129008.036	6261.3	6253.098	6239.646	Sand
"CPT-F01"	2101546.209	7129008.036	6261.3	6239.646	6238.99	SM/SC
"CPT-F01"	2101546.209	7129008.036	6261.3	6238.99	6238.662	Sand
"CPT-F01"	2101546.209	7129008.036	6261.3	6238.662	6238.334	SM/SC
"CPT-F01"	2101546.209	7129008.036	6261.3	6238.334	6238.006	Sand
"CPT-F01"	2101546.209	7129008.036	6261.3	6238.006	6237.678	SM/SC
"CPT-F01"	2101546.209	7129008.036	6261.3	6237.678	6237.35	Sand
"CPT-F01"	2101546.209	7129008.036	6261.3	6237.35	6237.022	SM/SC

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-F01"	2101546.209	7129008.036	6261.3	6237.022	6236.038	Sand
"CPT-F01"	2101546.209	7129008.036	6261.3	6236.038	6235.709	SM/SC
"CPT-F01"	2101546.209	7129008.036	6261.3	6235.709	6234.725	Sand
"CPT-F01"	2101546.209	7129008.036	6261.3	6234.725	6234.397	SM/SC
"CPT-F01"	2101546.209	7129008.036	6261.3	6234.397	6232.757	Sand
"CPT-F01"	2101546.209	7129008.036	6261.3	6232.757	6232.429	SM/SC
"CPT-F01"	2101546.209	7129008.036	6261.3	6232.429	6218.321	Sand
"CPT-F01"	2101546.209	7129008.036	6261.3	6218.321	6217.993	SM/SC
"CPT-F01"	2101546.209	7129008.036	6261.3	6217.993	6193.715	Sand
"CPT-F01"	2101546.209	7129008.036	6261.3	6193.715	6193.387	CL/ML
"CPT-F01"	2101546.209	7129008.036	6261.3	6193.387	6192.73	CL/ML
"CPT-F01"	2101546.209	7129008.036	6261.3	6192.73	6192.402	SM/SC
"CPT-F01"	2101546.209	7129008.036	6261.3	6192.402	6191.746	Sand
"CPT-F01"	2101546.209	7129008.036	6261.3	6191.746	6191.418	SM/SC
"CPT-F01"	2101546.209	7129008.036	6261.3	6191.418	6190.106	Sand
"CPT-F01"	2101546.209	7129008.036	6261.3	6190.106	6189.778	SM/SC
"CPT-F01"	2101546.209	7129008.036	6261.3	6189.778	6189.45	CL/ML
"CPT-F01"	2101546.209	7129008.036	6261.3	6189.45	6188.793	SM/SC
"CPT-F01"	2101546.209	7129008.036	6261.3	6188.793	6188.465	SM/SC
"CPT-F01"	2101546.209	7129008.036	6261.3	6188.465	6187.809	SM/SC
"CPT-F01"	2101546.209	7129008.036	6261.3	6187.809	6187.481	Sand
"CPT-F01"	2101546.209	7129008.036	6261.3	6187.481	6187.153	SM/SC
"CPT-F01"	2101546.209	7129008.036	6261.3	6187.153	6186.825	Sand
"CPT-F01"	2101546.209	7129008.036	6261.3	6186.825	6186.497	SM/SC
"CPT-F01"	2101546.209	7129008.036	6261.3	6186.497	6186.169	SM/SC
"CPT-F01"	2101546.209	7129008.036	6261.3	6186.169	6185.841	SM/SC
"CPT-F01"	2101546.209	7129008.036	6261.3	6185.841	6185.185	Sand
"CPT-F01"	2101546.209	7129008.036	6261.3	6185.185	6184.856	SM/SC
"CPT-F01"	2101546.209	7129008.036	6261.3	6184.856	6184.528	CL/ML
"CPT-F01"	2101546.209	7129008.036	6261.3	6184.528	6183.872	CL/ML
"CPT-F01"	2101546.209	7129008.036	6261.3	6183.872	6183.544	CL/ML
"CPT-F01"	2101546.209	7129008.036	6261.3	6183.544	6183.216	SM/SC
"CPT-F01"	2101546.209	7129008.036	6261.3	6183.216	6179.607	Sand
"CPT-F01"	2101546.209	7129008.036	6261.3	6179.607	6179.279	SM/SC
"CPT-F01"	2101546.209	7129008.036	6261.3	6179.279	6178.295	Sand
"CPT-F01"	2101546.209	7129008.036	6261.3	6178.295	6177.967	SM/SC
"CPT-F01"	2101546.209	7129008.036	6261.3	6177.967	6177.31	Sand
"CPT-F01"	2101546.209	7129008.036	6261.3	6177.31	6176.982	SM/SC
"CPT-F01"	2101546.209	7129008.036	6261.3	6176.982	6176.654	CL/ML
"CPT-F01"	2101546.209	7129008.036	6261.3	6176.654	6175.342	CL/ML
"CPT-F01"	2101546.209	7129008.036	6261.3	6175.342	6171.405	Sand
"CPT-F03"	2102519.934	7128783.896	6266.1	6266.1	6265.6	Sand
"CPT-F03"	2102519.934	7128783.896	6266.1	6265.6	6261.179	Sand
"CPT-F03"	2102519.934	7128783.896	6266.1	6261.179	6254.289	Sand
"CPT-F03"	2102519.934	7128783.896	6266.1	6254.289	6250.844	SM/SC
"CPT-F03"	2102519.934	7128783.896	6266.1	6250.844	6236.08	Sand
"CPT-F03"	2102519.934	7128783.896	6266.1	6236.08	6235.588	Sand
"CPT-F03"	2102519.934	7128783.896	6266.1	6235.588	6230.667	Sand
"CPT-F03"	2102519.934	7128783.896	6266.1	6230.667	6229.191	SM/SC
"CPT-F03"	2102519.934	7128783.896	6266.1	6229.191	6228.206	Sand
"CPT-F03"	2102519.934	7128783.896	6266.1	6228.206	6226.238	SM/SC
"CPT-F03"	2102519.934	7128783.896	6266.1	6226.238	6212.95	Sand
"CPT-F03"	2102519.934	7128783.896	6266.1	6212.95	6210.49	SM/SC
"CPT-F03"	2102519.934	7128783.896	6266.1	6210.49	6209.998	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-F03"	2102519.934	7128783.896	6266.1	6209.998	6209.013	SM/SC
"CPT-F03"	2102519.934	7128783.896	6266.1	6209.013	6208.521	Sand
"CPT-F03"	2102519.934	7128783.896	6266.1	6208.521	6207.045	SM/SC
"CPT-F03"	2102519.934	7128783.896	6266.1	6207.045	6206.553	Sand
"CPT-F03"	2102519.934	7128783.896	6266.1	6206.553	6205.076	SM/SC
"CPT-F03"	2102519.934	7128783.896	6266.1	6205.076	6197.202	Sand
"CPT-F03"	2102519.934	7128783.896	6266.1	6197.202	6196.71	SM/SC
"CPT-F03"	2102519.934	7128783.896	6266.1	6196.71	6194.742	Sand
"CPT-F03"	2102519.934	7128783.896	6266.1	6194.742	6194.25	SM/SC
"CPT-F03"	2102519.934	7128783.896	6266.1	6194.25	6190.805	Sand
"CPT-F03"	2102519.934	7128783.896	6266.1	6190.805	6189.328	Sand
"CPT-F03"	2102519.934	7128783.896	6266.1	6189.328	6174.072	Sand
"CPT-F03"	2102519.934	7128783.896	6266.1	6174.072	6172.596	SM/SC
"CPT-F03"	2102519.934	7128783.896	6266.1	6172.596	6171.12	Sand
"CPT-F03"	2102519.934	7128783.896	6266.1	6171.12	6170.135	SM/SC
"CPT-F03"	2102519.934	7128783.896	6266.1	6170.135	6168.659	CL/ML
"CPT-F03"	2102519.934	7128783.896	6266.1	6168.659	6168.167	SM/SC
"CPT-F03"	2102519.934	7128783.896	6266.1	6168.167	6166.691	Sand
"CPT-F03"	2102519.934	7128783.896	6266.1	6166.691	6165.706	SM/SC
"CPT-F04"	2103091.819	7128772.123	6261.4	6261.4	6260.9	Sand
"CPT-F04"	2103091.819	7128772.123	6261.4	6260.9	6256.479	Sand
"CPT-F04"	2103091.819	7128772.123	6261.4	6256.479	6232.365	Sand
"CPT-F04"	2103091.819	7128772.123	6261.4	6232.365	6231.38	SM/SC
"CPT-F04"	2103091.819	7128772.123	6261.4	6231.38	6229.412	Sand
"CPT-F04"	2103091.819	7128772.123	6261.4	6229.412	6226.951	SM/SC
"CPT-F04"	2103091.819	7128772.123	6261.4	6226.951	6225.475	Sand
"CPT-F04"	2103091.819	7128772.123	6261.4	6225.475	6223.998	SM/SC
"CPT-F04"	2103091.819	7128772.123	6261.4	6223.998	6223.506	Sand
"CPT-F04"	2103091.819	7128772.123	6261.4	6223.506	6222.522	SM/SC
"CPT-F04"	2103091.819	7128772.123	6261.4	6222.522	6207.266	Sand
"CPT-F04"	2103091.819	7128772.123	6261.4	6207.266	6205.79	SM/SC
"CPT-F04"	2103091.819	7128772.123	6261.4	6205.79	6204.313	Sand
"CPT-F04"	2103091.819	7128772.123	6261.4	6204.313	6203.821	SM/SC
"CPT-F04"	2103091.819	7128772.123	6261.4	6203.821	6202.837	CL/ML
"CPT-F04"	2103091.819	7128772.123	6261.4	6202.837	6202.345	SM/SC
"CPT-F04"	2103091.819	7128772.123	6261.4	6202.345	6199.392	Sand
"CPT-F04"	2103091.819	7128772.123	6261.4	6199.392	6198.9	SM/SC
"CPT-F04"	2103091.819	7128772.123	6261.4	6198.9	6197.916	SM/SC
"CPT-F04"	2103091.819	7128772.123	6261.4	6197.916	6197.424	SM/SC
"CPT-F04"	2103091.819	7128772.123	6261.4	6197.424	6192.502	Sand
"CPT-F04"	2103091.819	7128772.123	6261.4	6192.502	6190.534	SM/SC
"CPT-F04"	2103091.819	7128772.123	6261.4	6190.534	6190.042	Sand
"CPT-F04"	2103091.819	7128772.123	6261.4	6190.042	6187.581	SM/SC
"CPT-F04"	2103091.819	7128772.123	6261.4	6187.581	6166.912	Sand
"CPT-F04"	2103091.819	7128772.123	6261.4	6166.912	6165.928	SM/SC
"CPT-F04"	2103091.819	7128772.123	6261.4	6165.928	6164.943	Sand
"CPT-F04"	2103091.819	7128772.123	6261.4	6164.943	6164.451	SM/SC
"CPT-F04"	2103091.819	7128772.123	6261.4	6164.451	6162.483	Sand
"CPT-F04"	2103091.819	7128772.123	6261.4	6162.483	6161.006	SM/SC
"CPT-F05"	2103528.138	7128904.044	6256.5	6256.5	6256	Sand
"CPT-F05"	2103528.138	7128904.044	6256.5	6256	6251.579	Sand
"CPT-F05"	2103528.138	7128904.044	6256.5	6251.579	6250.923	Sand
"CPT-F05"	2103528.138	7128904.044	6256.5	6250.923	6250.594	SM/SC
"CPT-F05"	2103528.138	7128904.044	6256.5	6250.594	6244.033	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-F05"	2103528.138	7128904.044	6256.5	6244.033	6242.72	SM/SC
"CPT-F05"	2103528.138	7128904.044	6256.5	6242.72	6229.925	Sand
"CPT-F05"	2103528.138	7128904.044	6256.5	6229.925	6229.269	SM/SC
"CPT-F05"	2103528.138	7128904.044	6256.5	6229.269	6228.941	CL/ML
"CPT-F05"	2103528.138	7128904.044	6256.5	6228.941	6227.629	SM/SC
"CPT-F05"	2103528.138	7128904.044	6256.5	6227.629	6226.644	Sand
"CPT-F05"	2103528.138	7128904.044	6256.5	6226.644	6226.316	SM/SC
"CPT-F05"	2103528.138	7128904.044	6256.5	6226.316	6225.332	CL/ML
"CPT-F05"	2103528.138	7128904.044	6256.5	6225.332	6225.004	SM/SC
"CPT-F05"	2103528.138	7128904.044	6256.5	6225.004	6222.379	Sand
"CPT-F05"	2103528.138	7128904.044	6256.5	6222.379	6222.051	SM/SC
"CPT-F05"	2103528.138	7128904.044	6256.5	6222.051	6218.114	Sand
"CPT-F05"	2103528.138	7128904.044	6256.5	6218.114	6217.458	Sand
"CPT-F05"	2103528.138	7128904.044	6256.5	6217.458	6211.881	Sand
"CPT-F05"	2103528.138	7128904.044	6256.5	6211.881	6211.552	Sand
"CPT-F05"	2103528.138	7128904.044	6256.5	6211.552	6204.335	Sand
"CPT-F05"	2103528.138	7128904.044	6256.5	6204.335	6204.007	SM/SC
"CPT-F05"	2103528.138	7128904.044	6256.5	6204.007	6200.726	Sand
"CPT-F05"	2103528.138	7128904.044	6256.5	6200.726	6199.741	SM/SC
"CPT-F05"	2103528.138	7128904.044	6256.5	6199.741	6195.148	Sand
"CPT-F05"	2103528.138	7128904.044	6256.5	6195.148	6194.492	SM/SC
"CPT-F05"	2103528.138	7128904.044	6256.5	6194.492	6180.713	Sand
"CPT-F05"	2103528.138	7128904.044	6256.5	6180.713	6179.728	Sand
"CPT-F05"	2103528.138	7128904.044	6256.5	6179.728	6169.558	Sand
"CPT-F05"	2103528.138	7128904.044	6256.5	6169.558	6168.902	Sand
"CPT-F05"	2103528.138	7128904.044	6256.5	6168.902	6161.356	Sand
"CPT-F05"	2103528.138	7128904.044	6256.5	6161.356	6158.403	SM/SC
"CPT-F05"	2103528.138	7128904.044	6256.5	6158.403	6156.762	Sand
"CPT-F05"	2103528.138	7128904.044	6256.5	6156.762	6156.106	SM/SC
"CPT-F07"	2104604.607	7128511.314	6241.5	6241.5	6241	SM/SC
"CPT-F07"	2104604.607	7128511.314	6241.5	6241	6236.579	SM/SC
"CPT-F07"	2104604.607	7128511.314	6241.5	6236.579	6235.594	SM/SC
"CPT-F07"	2104604.607	7128511.314	6241.5	6235.594	6235.102	CL/ML
"CPT-F07"	2104604.607	7128511.314	6241.5	6235.102	6234.61	SM/SC
"CPT-F07"	2104604.607	7128511.314	6241.5	6234.61	6234.118	CL/ML
"CPT-F07"	2104604.607	7128511.314	6241.5	6234.118	6233.626	SM/SC
"CPT-F07"	2104604.607	7128511.314	6241.5	6233.626	6232.642	SM/SC
"CPT-F07"	2104604.607	7128511.314	6241.5	6232.642	6231.657	Sand
"CPT-F07"	2104604.607	7128511.314	6241.5	6231.657	6229.689	Sand
"CPT-F07"	2104604.607	7128511.314	6241.5	6229.689	6224.276	Sand
"CPT-F07"	2104604.607	7128511.314	6241.5	6224.276	6222.799	SM/SC
"CPT-F07"	2104604.607	7128511.314	6241.5	6222.799	6222.307	Sand
"CPT-F07"	2104604.607	7128511.314	6241.5	6222.307	6219.354	SM/SC
"CPT-F07"	2104604.607	7128511.314	6241.5	6219.354	6217.878	Sand
"CPT-F07"	2104604.607	7128511.314	6241.5	6217.878	6217.386	SM/SC
"CPT-F07"	2104604.607	7128511.314	6241.5	6217.386	6216.894	CL/ML
"CPT-F07"	2104604.607	7128511.314	6241.5	6216.894	6216.402	SM/SC
"CPT-F07"	2104604.607	7128511.314	6241.5	6216.402	6214.433	Sand
"CPT-F07"	2104604.607	7128511.314	6241.5	6214.433	6213.941	SM/SC
"CPT-F07"	2104604.607	7128511.314	6241.5	6213.941	6211.972	Sand
"CPT-F07"	2104604.607	7128511.314	6241.5	6211.972	6208.528	SM/SC
"CPT-F07"	2104604.607	7128511.314	6241.5	6208.528	6207.543	SM/SC
"CPT-F07"	2104604.607	7128511.314	6241.5	6207.543	6206.559	SM/SC
"CPT-F07"	2104604.607	7128511.314	6241.5	6206.559	6206.067	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-F07"	2104604.607	7128511.314	6241.5	6206.067	6205.083	SM/SC
"CPT-F07"	2104604.607	7128511.314	6241.5	6205.083	6204.591	CL/ML
"CPT-F07"	2104604.607	7128511.314	6241.5	6204.591	6204.098	SM/SC
"CPT-F07"	2104604.607	7128511.314	6241.5	6204.098	6202.622	Sand
"CPT-F07"	2104604.607	7128511.314	6241.5	6202.622	6202.13	SM/SC
"CPT-F07"	2104604.607	7128511.314	6241.5	6202.13	6187.858	Sand
"CPT-F07"	2104604.607	7128511.314	6241.5	6187.858	6187.366	SM/SC
"CPT-F07"	2104604.607	7128511.314	6241.5	6187.366	6185.398	Sand
"CPT-F07"	2104604.607	7128511.314	6241.5	6185.398	6184.906	SM/SC
"CPT-F07"	2104604.607	7128511.314	6241.5	6184.906	6177.031	Sand
"CPT-F07"	2104604.607	7128511.314	6241.5	6177.031	6174.571	SM/SC
"CPT-F07"	2104604.607	7128511.314	6241.5	6174.571	6166.205	Sand
"CPT-F07"	2104604.607	7128511.314	6241.5	6166.205	6165.22	SM/SC
"CPT-F07"	2104604.607	7128511.314	6241.5	6165.22	6164.236	Sand
"CPT-F07"	2104604.607	7128511.314	6241.5	6164.236	6163.744	Sand
"CPT-F07"	2104604.607	7128511.314	6241.5	6163.744	6150.949	Sand
"CPT-F07"	2104604.607	7128511.314	6241.5	6150.949	6150.457	SM/SC
"CPT-F07"	2104604.607	7128511.314	6241.5	6150.457	6148.488	Sand
"CPT-F07"	2104604.607	7128511.314	6241.5	6148.488	6147.996	SM/SC
"CPT-F07"	2104604.607	7128511.314	6241.5	6147.996	6143.567	Sand
"CPT-F07"	2104604.607	7128511.314	6241.5	6143.567	6143.075	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6236.3	6235.8	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6235.8	6231.379	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6231.379	6226.786	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6226.786	6226.457	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6226.457	6224.817	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6224.817	6224.161	SM/SC
"CPT-F08"	2105055.628	7128546.459	6236.3	6224.161	6222.52	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6222.52	6222.192	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6222.192	6220.88	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6220.88	6219.24	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6219.24	6216.287	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6216.287	6212.678	SM/SC
"CPT-F08"	2105055.628	7128546.459	6236.3	6212.678	6212.022	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6212.022	6210.709	SM/SC
"CPT-F08"	2105055.628	7128546.459	6236.3	6210.709	6208.413	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6208.413	6207.757	SM/SC
"CPT-F08"	2105055.628	7128546.459	6236.3	6207.757	6204.804	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6204.804	6202.835	SM/SC
"CPT-F08"	2105055.628	7128546.459	6236.3	6202.835	6202.507	CL/ML
"CPT-F08"	2105055.628	7128546.459	6236.3	6202.507	6201.851	SM/SC
"CPT-F08"	2105055.628	7128546.459	6236.3	6201.851	6201.523	SM/SC
"CPT-F08"	2105055.628	7128546.459	6236.3	6201.523	6199.883	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6199.883	6199.555	CL/ML
"CPT-F08"	2105055.628	7128546.459	6236.3	6199.555	6198.57	SM/SC
"CPT-F08"	2105055.628	7128546.459	6236.3	6198.57	6197.914	CL/ML
"CPT-F08"	2105055.628	7128546.459	6236.3	6197.914	6196.93	SM/SC
"CPT-F08"	2105055.628	7128546.459	6236.3	6196.93	6193.977	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6193.977	6192.993	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6192.993	6192.665	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6192.665	6192.009	SM/SC
"CPT-F08"	2105055.628	7128546.459	6236.3	6192.009	6179.213	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6179.213	6178.885	SM/SC
"CPT-F08"	2105055.628	7128546.459	6236.3	6178.885	6167.73	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-F08"	2105055.628	7128546.459	6236.3	6167.73	6167.402	SM/SC
"CPT-F08"	2105055.628	7128546.459	6236.3	6167.402	6167.074	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6167.074	6165.762	SM/SC
"CPT-F08"	2105055.628	7128546.459	6236.3	6165.762	6164.45	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6164.45	6163.793	SM/SC
"CPT-F08"	2105055.628	7128546.459	6236.3	6163.793	6161.169	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6161.169	6160.513	SM/SC
"CPT-F08"	2105055.628	7128546.459	6236.3	6160.513	6158.216	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6158.216	6156.904	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6156.904	6153.951	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6153.951	6153.295	SM/SC
"CPT-F08"	2105055.628	7128546.459	6236.3	6153.295	6152.967	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6152.967	6151.654	SM/SC
"CPT-F08"	2105055.628	7128546.459	6236.3	6151.654	6146.405	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6146.405	6146.077	SM/SC
"CPT-F08"	2105055.628	7128546.459	6236.3	6146.077	6141.812	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6141.812	6141.156	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6141.156	6139.843	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6139.843	6137.875	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6137.875	6131.641	Sand
"CPT-F08"	2105055.628	7128546.459	6236.3	6131.641	6130.985	Sand
"CPT-F09"	2104824.973	7129282.563	6235.8	6235.8	6234.8	Sand
"CPT-F09"	2104824.973	7129282.563	6235.8	6234.8	6233.3	Sand
"CPT-F09"	2104824.973	7129282.563	6235.8	6233.3	6232.8	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6232.8	6231.8	Sand
"CPT-F09"	2104824.973	7129282.563	6235.8	6231.8	6230.879	Sand
"CPT-F09"	2104824.973	7129282.563	6235.8	6230.879	6229.894	CL/ML
"CPT-F09"	2104824.973	7129282.563	6235.8	6229.894	6229.566	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6229.566	6220.38	Sand
"CPT-F09"	2104824.973	7129282.563	6235.8	6220.38	6220.052	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6220.052	6219.724	CL/ML
"CPT-F09"	2104824.973	7129282.563	6235.8	6219.724	6219.068	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6219.068	6218.74	Sand
"CPT-F09"	2104824.973	7129282.563	6235.8	6218.74	6218.412	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6218.412	6217.755	CL/ML
"CPT-F09"	2104824.973	7129282.563	6235.8	6217.755	6217.099	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6217.099	6216.771	CL/ML
"CPT-F09"	2104824.973	7129282.563	6235.8	6216.771	6215.787	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6215.787	6215.459	Sand
"CPT-F09"	2104824.973	7129282.563	6235.8	6215.459	6215.131	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6215.131	6214.803	CL/ML
"CPT-F09"	2104824.973	7129282.563	6235.8	6214.803	6214.146	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6214.146	6212.834	CL/ML
"CPT-F09"	2104824.973	7129282.563	6235.8	6212.834	6212.506	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6212.506	6212.178	CL/ML
"CPT-F09"	2104824.973	7129282.563	6235.8	6212.178	6211.85	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6211.85	6209.881	Sand
"CPT-F09"	2104824.973	7129282.563	6235.8	6209.881	6208.897	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6208.897	6208.569	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6208.569	6192.165	Sand
"CPT-F09"	2104824.973	7129282.563	6235.8	6192.165	6191.509	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6191.509	6188.556	Sand
"CPT-F09"	2104824.973	7129282.563	6235.8	6188.556	6188.228	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6188.228	6187.572	CL/ML

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-F09"	2104824.973	7129282.563	6235.8	6187.572	6180.354	Sand
"CPT-F09"	2104824.973	7129282.563	6235.8	6180.354	6180.026	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6180.026	6178.713	Sand
"CPT-F09"	2104824.973	7129282.563	6235.8	6178.713	6178.385	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6178.385	6175.761	Sand
"CPT-F09"	2104824.973	7129282.563	6235.8	6175.761	6175.104	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6175.104	6174.776	Sand
"CPT-F09"	2104824.973	7129282.563	6235.8	6174.776	6174.12	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6174.12	6163.95	Sand
"CPT-F09"	2104824.973	7129282.563	6235.8	6163.95	6163.622	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6163.622	6162.965	Sand
"CPT-F09"	2104824.973	7129282.563	6235.8	6162.965	6162.637	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6162.637	6161.981	Sand
"CPT-F09"	2104824.973	7129282.563	6235.8	6161.981	6161.653	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6161.653	6160.669	Sand
"CPT-F09"	2104824.973	7129282.563	6235.8	6160.669	6160.341	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6160.341	6159.685	Sand
"CPT-F09"	2104824.973	7129282.563	6235.8	6159.685	6159.356	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6159.356	6159.028	Sand
"CPT-F09"	2104824.973	7129282.563	6235.8	6159.028	6158.7	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6158.7	6158.044	Sand
"CPT-F09"	2104824.973	7129282.563	6235.8	6158.044	6157.716	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6157.716	6157.388	CL/ML
"CPT-F09"	2104824.973	7129282.563	6235.8	6157.388	6157.06	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6157.06	6151.482	Sand
"CPT-F09"	2104824.973	7129282.563	6235.8	6151.482	6150.826	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6150.826	6148.858	Sand
"CPT-F09"	2104824.973	7129282.563	6235.8	6148.858	6148.53	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6148.53	6148.202	Sand
"CPT-F09"	2104824.973	7129282.563	6235.8	6148.202	6147.873	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6147.873	6143.608	Sand
"CPT-F09"	2104824.973	7129282.563	6235.8	6143.608	6142.296	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6142.296	6139.999	Sand
"CPT-F09"	2104824.973	7129282.563	6235.8	6139.999	6138.031	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6138.031	6136.062	Sand
"CPT-F09"	2104824.973	7129282.563	6235.8	6136.062	6135.406	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6135.406	6133.438	Sand
"CPT-F09"	2104824.973	7129282.563	6235.8	6133.438	6133.11	SM/SC
"CPT-F09"	2104824.973	7129282.563	6235.8	6133.11	6131.141	Sand
"CPT-F10"	2105744.512	7128704.101	6235.7	6235.7	6235.2	SM/SC
"CPT-F10"	2105744.512	7128704.101	6235.7	6235.2	6230.779	SM/SC
"CPT-F10"	2105744.512	7128704.101	6235.7	6230.779	6228.81	CL/ML
"CPT-F10"	2105744.512	7128704.101	6235.7	6228.81	6228.154	SM/SC
"CPT-F10"	2105744.512	7128704.101	6235.7	6228.154	6227.498	CL/ML
"CPT-F10"	2105744.512	7128704.101	6235.7	6227.498	6223.889	Sand
"CPT-F10"	2105744.512	7128704.101	6235.7	6223.889	6223.561	Sand
"CPT-F10"	2105744.512	7128704.101	6235.7	6223.561	6223.233	Sand
"CPT-F10"	2105744.512	7128704.101	6235.7	6223.233	6221.92	Sand
"CPT-F10"	2105744.512	7128704.101	6235.7	6221.92	6221.592	Sand
"CPT-F10"	2105744.512	7128704.101	6235.7	6221.592	6218.968	Sand
"CPT-F10"	2105744.512	7128704.101	6235.7	6218.968	6216.671	Sand
"CPT-F10"	2105744.512	7128704.101	6235.7	6216.671	6216.343	CL/ML
"CPT-F10"	2105744.512	7128704.101	6235.7	6216.343	6216.015	CL/ML
"CPT-F10"	2105744.512	7128704.101	6235.7	6216.015	6215.359	CL/ML

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-F10"	2105744.512	7128704.101	6235.7	6215.359	6215.031	SM/SC
"CPT-F10"	2105744.512	7128704.101	6235.7	6215.031	6214.046	Sand
"CPT-F10"	2105744.512	7128704.101	6235.7	6214.046	6212.734	Sand
"CPT-F10"	2105744.512	7128704.101	6235.7	6212.734	6211.422	Sand
"CPT-F10"	2105744.512	7128704.101	6235.7	6211.422	6210.766	SM/SC
"CPT-F10"	2105744.512	7128704.101	6235.7	6210.766	6210.438	Sand
"CPT-F10"	2105744.512	7128704.101	6235.7	6210.438	6209.781	SM/SC
"CPT-F10"	2105744.512	7128704.101	6235.7	6209.781	6208.797	Sand
"CPT-F10"	2105744.512	7128704.101	6235.7	6208.797	6207.485	SM/SC
"CPT-F10"	2105744.512	7128704.101	6235.7	6207.485	6207.157	Sand
"CPT-F10"	2105744.512	7128704.101	6235.7	6207.157	6206.501	SM/SC
"CPT-F10"	2105744.512	7128704.101	6235.7	6206.501	6206.172	Sand
"CPT-F10"	2105744.512	7128704.101	6235.7	6206.172	6205.844	CL/ML
"CPT-F10"	2105744.512	7128704.101	6235.7	6205.844	6204.86	SM/SC
"CPT-F10"	2105744.512	7128704.101	6235.7	6204.86	6202.235	Sand
"CPT-F10"	2105744.512	7128704.101	6235.7	6202.235	6199.611	SM/SC
"CPT-F10"	2105744.512	7128704.101	6235.7	6199.611	6199.283	CL/ML
"CPT-F10"	2105744.512	7128704.101	6235.7	6199.283	6198.955	SM/SC
"CPT-F10"	2105744.512	7128704.101	6235.7	6198.955	6198.627	SM/SC
"CPT-F10"	2105744.512	7128704.101	6235.7	6198.627	6197.97	Sand
"CPT-F10"	2105744.512	7128704.101	6235.7	6197.97	6196.986	SM/SC
"CPT-F10"	2105744.512	7128704.101	6235.7	6196.986	6188.128	Sand
"CPT-F10"	2105744.512	7128704.101	6235.7	6188.128	6185.503	Sand
"CPT-F10"	2105744.512	7128704.101	6235.7	6185.503	6184.847	Sand
"CPT-F10"	2105744.512	7128704.101	6235.7	6184.847	6184.191	Sand
"CPT-F10"	2105744.512	7128704.101	6235.7	6184.191	6175.989	Sand
"CPT-F10"	2105744.512	7128704.101	6235.7	6175.989	6175.661	SM/SC
"CPT-F10"	2105744.512	7128704.101	6235.7	6175.661	6173.036	Sand
"CPT-F10"	2105744.512	7128704.101	6235.7	6173.036	6172.708	SM/SC
"CPT-F10"	2105744.512	7128704.101	6235.7	6172.708	6163.193	Sand
"CPT-F10"	2105744.512	7128704.101	6235.7	6163.193	6161.881	SM/SC
"CPT-F10"	2105744.512	7128704.101	6235.7	6161.881	6161.225	Sand
"CPT-F10"	2105744.512	7128704.101	6235.7	6161.225	6160.897	SM/SC
"CPT-F10"	2105744.512	7128704.101	6235.7	6160.897	6159.585	SM/SC
"CPT-F10"	2105744.512	7128704.101	6235.7	6159.585	6159.256	CL/ML
"CPT-F10"	2105744.512	7128704.101	6235.7	6159.256	6158.928	SM/SC
"CPT-F10"	2105744.512	7128704.101	6235.7	6158.928	6158.6	SM/SC
"CPT-F10"	2105744.512	7128704.101	6235.7	6158.6	6148.102	Sand
"CPT-F10"	2105744.512	7128704.101	6235.7	6148.102	6146.789	SM/SC
"CPT-F10"	2105744.512	7128704.101	6235.7	6146.789	6145.805	Sand
"CPT-F10"	2105744.512	7128704.101	6235.7	6145.805	6133.666	SM/SC
"CPT-F10"	2105744.512	7128704.101	6235.7	6133.666	6129.729	Sand
"CPT-F10"	2105744.512	7128704.101	6235.7	6129.729	6129.401	SM/SC
"CPT-F10"	2105744.512	7128704.101	6235.7	6129.401	6117.59	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6230.42	6225.749	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6225.749	6225.42	SM/SC
"CPT-F11"	2105356.36	7128395.21	6230.67	6225.42	6224.44	CL/ML
"CPT-F11"	2105356.36	7128395.21	6230.67	6224.44	6224.11	SM/SC
"CPT-F11"	2105356.36	7128395.21	6230.67	6224.11	6220.5	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6220.5	6217.55	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6217.55	6215.58	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6215.58	6215.25	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6215.25	6213.28	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6213.28	6210.98	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-F11"	2105356.36	7128395.21	6230.67	6210.98	6210.66	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6210.66	6210	CL/ML
"CPT-F11"	2105356.36	7128395.21	6230.67	6210	6209.67	SM/SC
"CPT-F11"	2105356.36	7128395.21	6230.67	6209.67	6209.34	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6209.34	6206.06	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6206.06	6205.08	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6205.08	6204.09	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6204.09	6203.44	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6203.44	6199.17	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6199.17	6198.52	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6198.52	6198.19	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6198.19	6197.86	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6197.86	6196.55	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6196.55	6194.25	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6194.25	6192.94	SM/SC
"CPT-F11"	2105356.36	7128395.21	6230.67	6192.94	6192.61	SM/SC
"CPT-F11"	2105356.36	7128395.21	6230.67	6192.61	6192.28	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6192.28	6191.3	SM/SC
"CPT-F11"	2105356.36	7128395.21	6230.67	6191.3	6189.99	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6189.99	6189.33	SM/SC
"CPT-F11"	2105356.36	7128395.21	6230.67	6189.33	6188.67	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6188.67	6188.35	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6188.35	6185.72	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6185.72	6185.39	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6185.39	6182.77	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6182.77	6181.78	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6181.78	6181.13	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6181.13	6180.14	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6180.14	6179.49	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6179.49	6178.5	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6178.5	6175.55	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6175.55	6175.22	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6175.22	6174.57	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6174.57	6174.24	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6174.24	6173.58	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6173.58	6173.25	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6173.25	6170.63	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6170.63	6169.97	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6169.97	6166.69	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6166.69	6166.37	SM/SC
"CPT-F11"	2105356.36	7128395.21	6230.67	6166.37	6166.04	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6166.04	6165.38	SM/SC
"CPT-F11"	2105356.36	7128395.21	6230.67	6165.38	6165.05	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6165.05	6164.07	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6164.07	6162.76	SM/SC
"CPT-F11"	2105356.36	7128395.21	6230.67	6162.76	6161.12	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6161.12	6160.79	SM/SC
"CPT-F11"	2105356.36	7128395.21	6230.67	6160.79	6152.59	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6152.59	6152.26	SM/SC
"CPT-F11"	2105356.36	7128395.21	6230.67	6152.26	6151.93	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6151.93	6151.27	SM/SC
"CPT-F11"	2105356.36	7128395.21	6230.67	6151.27	6150.95	SM/SC
"CPT-F11"	2105356.36	7128395.21	6230.67	6150.95	6150.62	CL/ML
"CPT-F11"	2105356.36	7128395.21	6230.67	6150.62	6149.96	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-F11"	2105356.36	7128395.21	6230.67	6149.96	6148.98	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6148.98	6147.66	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6147.66	6147.01	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6147.01	6130.93	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6130.93	6129.95	SM/SC
"CPT-F11"	2105356.36	7128395.21	6230.67	6129.95	6129.62	CL/ML
"CPT-F11"	2105356.36	7128395.21	6230.67	6129.62	6128.96	CL/ML
"CPT-F11"	2105356.36	7128395.21	6230.67	6128.96	6128.64	CL/ML
"CPT-F11"	2105356.36	7128395.21	6230.67	6128.64	6128.31	SM/SC
"CPT-F11"	2105356.36	7128395.21	6230.67	6128.31	6127.98	CL/ML
"CPT-F11"	2105356.36	7128395.21	6230.67	6127.98	6127.32	CL/ML
"CPT-F11"	2105356.36	7128395.21	6230.67	6127.32	6126.99	CL/ML
"CPT-F11"	2105356.36	7128395.21	6230.67	6126.99	6126.34	SM/SC
"CPT-F11"	2105356.36	7128395.21	6230.67	6126.34	6125.68	CL/ML
"CPT-F11"	2105356.36	7128395.21	6230.67	6125.68	6125.35	SM/SC
"CPT-F11"	2105356.36	7128395.21	6230.67	6125.35	6124.37	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6124.37	6123.71	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6123.71	6122.4	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6122.4	6121.75	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6121.75	6118.79	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6118.79	6118.46	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6118.46	6118.14	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6118.14	6117.81	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6117.81	6117.48	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6117.48	6117.15	CL/ML
"CPT-F11"	2105356.36	7128395.21	6230.67	6117.15	6116.17	CL/ML
"CPT-F11"	2105356.36	7128395.21	6230.67	6116.17	6115.18	SM/SC
"CPT-F11"	2105356.36	7128395.21	6230.67	6115.18	6114.86	Sand
"CPT-F11"	2105356.36	7128395.21	6230.67	6114.86	6114.2	SM/SC
"CPT-F11"	2105356.36	7128395.21	6230.67	6114.2	6113.87	CL/ML
"CPT-F11"	2105356.36	7128395.21	6230.67	6113.87	6113.54	SM/SC
"CPT-F11"	2105356.36	7128395.21	6230.67	6113.54	6111.58	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6231.99	6228.069	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6228.069	6227.41	SM/SC
"CPT-F12"	2105260.26	7129207.31	6232.99	6227.41	6223.8	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6223.8	6222.82	SM/SC
"CPT-F12"	2105260.26	7129207.31	6232.99	6222.82	6222.16	CL/ML
"CPT-F12"	2105260.26	7129207.31	6232.99	6222.16	6220.19	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6220.19	6219.54	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6219.54	6218.88	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6218.88	6217.9	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6217.9	6214.62	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6214.62	6214.29	SM/SC
"CPT-F12"	2105260.26	7129207.31	6232.99	6214.29	6212.65	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6212.65	6211.99	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6211.99	6211.34	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6211.34	6211.01	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6211.01	6210.02	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6210.02	6209.7	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6209.7	6208.38	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6208.38	6207.4	SM/SC
"CPT-F12"	2105260.26	7129207.31	6232.99	6207.4	6206.74	CL/ML
"CPT-F12"	2105260.26	7129207.31	6232.99	6206.74	6205.43	SM/SC
"CPT-F12"	2105260.26	7129207.31	6232.99	6205.43	6205.1	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-F12"	2105260.26	7129207.31	6232.99	6205.1	6204.12	SM/SC
"CPT-F12"	2105260.26	7129207.31	6232.99	6204.12	6202.81	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6202.81	6202.48	CL/ML
"CPT-F12"	2105260.26	7129207.31	6232.99	6202.48	6202.15	SM/SC
"CPT-F12"	2105260.26	7129207.31	6232.99	6202.15	6201.49	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6201.49	6197.88	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6197.88	6193.29	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6193.29	6192.96	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6192.96	6192.64	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6192.64	6192.31	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6192.31	6191.65	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6191.65	6190.99	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6190.99	6188.04	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6188.04	6186.73	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6186.73	6186.4	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6186.4	6186.07	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6186.07	6185.75	SM/SC
"CPT-F12"	2105260.26	7129207.31	6232.99	6185.75	6184.76	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6184.76	6184.43	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6184.43	6178.2	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6178.2	6177.87	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6177.87	6177.22	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6177.22	6174.92	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6174.92	6174.26	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6174.26	6173.61	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6173.61	6171.97	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6171.97	6170.98	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6170.98	6169.34	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6169.34	6167.7	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6167.7	6167.04	SM/SC
"CPT-F12"	2105260.26	7129207.31	6232.99	6167.04	6164.42	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6164.42	6163.76	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6163.76	6162.78	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6162.78	6160.81	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6160.81	6157.86	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6157.86	6157.2	SM/SC
"CPT-F12"	2105260.26	7129207.31	6232.99	6157.2	6149.98	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6149.98	6146.05	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6146.05	6138.5	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6138.5	6137.85	SM/SC
"CPT-F12"	2105260.26	7129207.31	6232.99	6137.85	6137.19	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6137.19	6135.88	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6135.88	6129.97	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6129.97	6129.64	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6129.64	6129.31	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6129.31	6128.66	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6128.66	6128	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6128	6127.67	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6127.67	6126.69	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6126.69	6125.38	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6125.38	6125.05	Sand
"CPT-F12"	2105260.26	7129207.31	6232.99	6125.05	6124.39	SM/SC
"CPT-F12"	2105260.26	7129207.31	6232.99	6124.39	6120.13	Sand
"CPT-G01"	2102344.913	7129500.509	6254.6	6254.6	6254.1	Sand

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-G01"	2102344.913	7129500.509	6254.6	6254.1	6249.679	Sand
"CPT-G01"	2102344.913	7129500.509	6254.6	6249.679	6249.351	Sand
"CPT-G01"	2102344.913	7129500.509	6254.6	6249.351	6248.694	SM/SC
"CPT-G01"	2102344.913	7129500.509	6254.6	6248.694	6248.366	CL/ML
"CPT-G01"	2102344.913	7129500.509	6254.6	6248.366	6248.038	SM/SC
"CPT-G01"	2102344.913	7129500.509	6254.6	6248.038	6239.18	Sand
"CPT-G01"	2102344.913	7129500.509	6254.6	6239.18	6235.571	Sand
"CPT-G01"	2102344.913	7129500.509	6254.6	6235.571	6227.369	Sand
"CPT-G01"	2102344.913	7129500.509	6254.6	6227.369	6226.713	SM/SC
"CPT-G01"	2102344.913	7129500.509	6254.6	6226.713	6226.385	Sand
"CPT-G01"	2102344.913	7129500.509	6254.6	6226.385	6224.416	Sand
"CPT-G01"	2102344.913	7129500.509	6254.6	6224.416	6222.776	SM/SC
"CPT-G01"	2102344.913	7129500.509	6254.6	6222.776	6220.479	Sand
"CPT-G01"	2102344.913	7129500.509	6254.6	6220.479	6214.902	Sand
"CPT-G01"	2102344.913	7129500.509	6254.6	6214.902	6211.293	Sand
"CPT-G01"	2102344.913	7129500.509	6254.6	6211.293	6210.965	SM/SC
"CPT-G01"	2102344.913	7129500.509	6254.6	6210.965	6210.637	Sand
"CPT-G01"	2102344.913	7129500.509	6254.6	6210.637	6210.309	SM/SC
"CPT-G01"	2102344.913	7129500.509	6254.6	6210.309	6209.981	SM/SC
"CPT-G01"	2102344.913	7129500.509	6254.6	6209.981	6208.996	Sand
"CPT-G01"	2102344.913	7129500.509	6254.6	6208.996	6205.059	Sand
"CPT-G01"	2102344.913	7129500.509	6254.6	6205.059	6194.889	Sand
"CPT-G01"	2102344.913	7129500.509	6254.6	6194.889	6193.248	Sand
"CPT-G01"	2102344.913	7129500.509	6254.6	6193.248	6192.92	Sand
"CPT-G01"	2102344.913	7129500.509	6254.6	6192.92	6191.608	Sand
"CPT-G01"	2102344.913	7129500.509	6254.6	6191.608	6185.702	Sand
"CPT-G01"	2102344.913	7129500.509	6254.6	6185.702	6184.39	SM/SC
"CPT-G01"	2102344.913	7129500.509	6254.6	6184.39	6181.437	Sand
"CPT-G01"	2102344.913	7129500.509	6254.6	6181.437	6180.453	SM/SC
"CPT-G01"	2102344.913	7129500.509	6254.6	6180.453	6180.125	CL/ML
"CPT-G01"	2102344.913	7129500.509	6254.6	6180.125	6179.469	Sand
"CPT-G01"	2102344.913	7129500.509	6254.6	6179.469	6178.813	SM/SC
"CPT-G01"	2102344.913	7129500.509	6254.6	6178.813	6178.156	Sand
"CPT-G01"	2102344.913	7129500.509	6254.6	6178.156	6177.5	Sand
"CPT-G01"	2102344.913	7129500.509	6254.6	6177.5	6177.172	Sand
"CPT-G01"	2102344.913	7129500.509	6254.6	6177.172	6176.516	Sand
"CPT-G01"	2102344.913	7129500.509	6254.6	6176.516	6174.876	Sand
"CPT-G01"	2102344.913	7129500.509	6254.6	6174.876	6174.548	SM/SC
"CPT-G01"	2102344.913	7129500.509	6254.6	6174.548	6172.579	Sand
"CPT-G01"	2102344.913	7129500.509	6254.6	6172.579	6170.61	Sand
"CPT-G01"	2102344.913	7129500.509	6254.6	6170.61	6165.033	Sand
"CPT-G01"	2102344.913	7129500.509	6254.6	6165.033	6164.377	SM/SC
"CPT-G01"	2102344.913	7129500.509	6254.6	6164.377	6164.049	SM/SC
"CPT-G01"	2102344.913	7129500.509	6254.6	6164.049	6163.721	CL/ML
"CPT-G01"	2102344.913	7129500.509	6254.6	6163.721	6163.065	CL/ML
"CPT-G05"	2104397.121	7129922.984	6240.3	6240.3	6239.8	Sand
"CPT-G05"	2104397.121	7129922.984	6240.3	6239.8	6235.379	Sand
"CPT-G05"	2104397.121	7129922.984	6240.3	6235.379	6232.426	Sand
"CPT-G05"	2104397.121	7129922.984	6240.3	6232.426	6232.098	SM/SC
"CPT-G05"	2104397.121	7129922.984	6240.3	6232.098	6231.77	CL/ML
"CPT-G05"	2104397.121	7129922.984	6240.3	6231.77	6231.442	CL/ML
"CPT-G05"	2104397.121	7129922.984	6240.3	6231.442	6231.114	SM/SC
"CPT-G05"	2104397.121	7129922.984	6240.3	6231.114	6226.52	Sand
"CPT-G05"	2104397.121	7129922.984	6240.3	6226.52	6226.192	SM/SC

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-G05"	2104397.121	7129922.984	6240.3	6226.192	6225.536	CL/ML
"CPT-G05"	2104397.121	7129922.984	6240.3	6225.536	6225.208	CL/ML
"CPT-G05"	2104397.121	7129922.984	6240.3	6225.208	6223.896	Sand
"CPT-G05"	2104397.121	7129922.984	6240.3	6223.896	6223.24	SM/SC
"CPT-G05"	2104397.121	7129922.984	6240.3	6223.24	6222.912	CL/ML
"CPT-G05"	2104397.121	7129922.984	6240.3	6222.912	6221.927	CL/ML
"CPT-G05"	2104397.121	7129922.984	6240.3	6221.927	6207.164	Sand
"CPT-G05"	2104397.121	7129922.984	6240.3	6207.164	6205.851	SM/SC
"CPT-G05"	2104397.121	7129922.984	6240.3	6205.851	6204.211	Sand
"CPT-G05"	2104397.121	7129922.984	6240.3	6204.211	6202.898	SM/SC
"CPT-G05"	2104397.121	7129922.984	6240.3	6202.898	6202.57	Sand
"CPT-G05"	2104397.121	7129922.984	6240.3	6202.57	6199.946	Sand
"CPT-G05"	2104397.121	7129922.984	6240.3	6199.946	6199.618	SM/SC
"CPT-G05"	2104397.121	7129922.984	6240.3	6199.618	6187.478	Sand
"CPT-G05"	2104397.121	7129922.984	6240.3	6187.478	6186.494	SM/SC
"CPT-G05"	2104397.121	7129922.984	6240.3	6186.494	6174.027	Sand
"CPT-G05"	2104397.121	7129922.984	6240.3	6174.027	6173.371	SM/SC
"CPT-G05"	2104397.121	7129922.984	6240.3	6173.371	6173.043	Sand
"CPT-G05"	2104397.121	7129922.984	6240.3	6173.043	6172.715	SM/SC
"CPT-G05"	2104397.121	7129922.984	6240.3	6172.715	6165.825	Sand
"CPT-G05"	2104397.121	7129922.984	6240.3	6165.825	6165.497	SM/SC
"CPT-G05"	2104397.121	7129922.984	6240.3	6165.497	6163.2	Sand
"CPT-G05"	2104397.121	7129922.984	6240.3	6163.2	6162.216	SM/SC
"CPT-G05"	2104397.121	7129922.984	6240.3	6162.216	6161.56	CL/ML
"CPT-G05"	2104397.121	7129922.984	6240.3	6161.56	6160.576	SM/SC
"CPT-G05"	2104397.121	7129922.984	6240.3	6160.576	6160.248	CL/ML
"CPT-G05"	2104397.121	7129922.984	6240.3	6160.248	6158.935	SM/SC
"CPT-G05"	2104397.121	7129922.984	6240.3	6158.935	6157.951	Sand
"CPT-G05"	2104397.121	7129922.984	6240.3	6157.951	6157.295	SM/SC
"CPT-G05"	2104397.121	7129922.984	6240.3	6157.295	6156.967	CL/ML
"CPT-G05"	2104397.121	7129922.984	6240.3	6156.967	6156.639	SM/SC
"CPT-G05"	2104397.121	7129922.984	6240.3	6156.639	6156.31	SM/SC
"CPT-G05"	2104397.121	7129922.984	6240.3	6156.31	6150.433	Sand
"CPT-G05"	2104397.121	7129922.984	6240.3	6150.733	6149.749	SM/SC
"CPT-G05"	2104397.121	7129922.984	6240.3	6149.749	6148.436	Sand
"CPT-G05"	2104397.121	7129922.984	6240.3	6148.436	6147.452	SM/SC
"CPT-G05"	2104397.121	7129922.984	6240.3	6147.452	6145.156	Sand
"CPT-G06"	2105483.747	7130185.107	6239.5	6239.5	6239	SM/SC
"CPT-G06"	2105483.747	7130185.107	6239.5	6239	6234.579	SM/SC
"CPT-G06"	2105483.747	7130185.107	6239.5	6234.579	6229.001	Sand
"CPT-G06"	2105483.747	7130185.107	6239.5	6229.001	6228.017	CL/ML
"CPT-G06"	2105483.747	7130185.107	6239.5	6228.017	6227.689	SM/SC
"CPT-G06"	2105483.747	7130185.107	6239.5	6227.689	6218.503	Sand
"CPT-G06"	2105483.747	7130185.107	6239.5	6218.503	6218.175	SM/SC
"CPT-G06"	2105483.747	7130185.107	6239.5	6218.175	6217.846	SM/SC
"CPT-G06"	2105483.747	7130185.107	6239.5	6217.846	6217.518	CL/ML
"CPT-G06"	2105483.747	7130185.107	6239.5	6217.518	6217.19	SM/SC
"CPT-G06"	2105483.747	7130185.107	6239.5	6217.19	6216.862	SM/SC
"CPT-G06"	2105483.747	7130185.107	6239.5	6216.862	6216.534	SM/SC
"CPT-G06"	2105483.747	7130185.107	6239.5	6216.534	6216.206	Sand
"CPT-G06"	2105483.747	7130185.107	6239.5	6216.206	6215.878	SM/SC
"CPT-G06"	2105483.747	7130185.107	6239.5	6215.878	6215.222	SM/SC
"CPT-G06"	2105483.747	7130185.107	6239.5	6215.222	6212.269	Sand
"CPT-G06"	2105483.747	7130185.107	6239.5	6212.269	6211.941	SM/SC

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-G06"	2105483.747	7130185.107	6239.5	6211.941	6210.629	Sand
"CPT-G06"	2105483.747	7130185.107	6239.5	6210.629	6210.301	SM/SC
"CPT-G06"	2105483.747	7130185.107	6239.5	6210.301	6208.66	Sand
"CPT-G06"	2105483.747	7130185.107	6239.5	6208.66	6208.332	SM/SC
"CPT-G06"	2105483.747	7130185.107	6239.5	6208.332	6196.521	Sand
"CPT-G06"	2105483.747	7130185.107	6239.5	6196.521	6195.865	SM/SC
"CPT-G06"	2105483.747	7130185.107	6239.5	6195.865	6195.537	Sand
"CPT-G06"	2105483.747	7130185.107	6239.5	6195.537	6194.881	SM/SC
"CPT-G06"	2105483.747	7130185.107	6239.5	6194.881	6194.552	Sand
"CPT-G06"	2105483.747	7130185.107	6239.5	6194.552	6194.224	SM/SC
"CPT-G06"	2105483.747	7130185.107	6239.5	6194.224	6189.303	Sand
"CPT-G06"	2105483.747	7130185.107	6239.5	6189.303	6187.991	SM/SC
"CPT-G06"	2105483.747	7130185.107	6239.5	6187.991	6183.398	Sand
"CPT-G06"	2105483.747	7130185.107	6239.5	6183.398	6182.413	SM/SC
"CPT-G06"	2105483.747	7130185.107	6239.5	6182.413	6179.133	Sand
"CPT-G06"	2105483.747	7130185.107	6239.5	6179.133	6178.148	SM/SC
"CPT-G06"	2105483.747	7130185.107	6239.5	6178.148	6176.18	Sand
"CPT-G06"	2105483.747	7130185.107	6239.5	6176.18	6175.524	SM/SC
"CPT-G06"	2105483.747	7130185.107	6239.5	6175.524	6175.196	Sand
"CPT-G06"	2105483.747	7130185.107	6239.5	6175.196	6174.867	SM/SC
"CPT-G06"	2105483.747	7130185.107	6239.5	6174.867	6161.744	Sand
"CPT-G06"	2105483.747	7130185.107	6239.5	6161.744	6161.088	Sand
"CPT-G06"	2105483.747	7130185.107	6239.5	6161.088	6149.277	Sand
"CPT-G06"	2105483.747	7130185.107	6239.5	6149.277	6148.949	Sand
"CPT-G06"	2105483.747	7130185.107	6239.5	6148.949	6147.965	Sand
"CPT-G06"	2105483.747	7130185.107	6239.5	6147.965	6147.636	Sand
"CPT-G06"	2105483.747	7130185.107	6239.5	6147.636	6146.652	Sand
"CPT-G06"	2105483.747	7130185.107	6239.5	6146.652	6145.996	SM/SC
"CPT-G06"	2105483.747	7130185.107	6239.5	6145.996	6140.419	Sand
"CPT-G06"	2105483.747	7130185.107	6239.5	6140.419	6140.091	SM/SC
"CPT-G06"	2105483.747	7130185.107	6239.5	6140.091	6139.762	SM/SC
"CPT-G06"	2105483.747	7130185.107	6239.5	6139.762	6138.778	Sand
"CPT-G07"	2106277.599	7129232.831	6233.7	6233.7	6233.2	Sand
"CPT-G07"	2106277.599	7129232.831	6233.7	6233.2	6228.779	Sand
"CPT-G07"	2106277.599	7129232.831	6233.7	6228.779	6218.936	Sand
"CPT-G07"	2106277.599	7129232.831	6233.7	6218.936	6218.608	Sand
"CPT-G07"	2106277.599	7129232.831	6233.7	6218.608	6217.624	Sand
"CPT-G07"	2106277.599	7129232.831	6233.7	6217.624	6217.296	SM/SC
"CPT-G07"	2106277.599	7129232.831	6233.7	6217.296	6216.968	CL/ML
"CPT-G07"	2106277.599	7129232.831	6233.7	6216.968	6216.64	SM/SC
"CPT-G07"	2106277.599	7129232.831	6233.7	6216.64	6214.999	Sand
"CPT-G07"	2106277.599	7129232.831	6233.7	6214.999	6214.671	SM/SC
"CPT-G07"	2106277.599	7129232.831	6233.7	6214.671	6212.046	Sand
"CPT-G07"	2106277.599	7129232.831	6233.7	6212.046	6211.718	SM/SC
"CPT-G07"	2106277.599	7129232.831	6233.7	6211.718	6211.39	Sand
"CPT-G07"	2106277.599	7129232.831	6233.7	6211.39	6210.078	SM/SC
"CPT-G07"	2106277.599	7129232.831	6233.7	6210.078	6206.141	Sand
"CPT-G07"	2106277.599	7129232.831	6233.7	6206.141	6205.485	SM/SC
"CPT-G07"	2106277.599	7129232.831	6233.7	6205.485	6200.892	Sand
"CPT-G07"	2106277.599	7129232.831	6233.7	6200.892	6200.564	SM/SC
"CPT-G07"	2106277.599	7129232.831	6233.7	6200.564	6197.611	Sand
"CPT-G07"	2106277.599	7129232.831	6233.7	6197.611	6197.283	SM/SC
"CPT-G07"	2106277.599	7129232.831	6233.7	6197.283	6196.955	Sand
"CPT-G07"	2106277.599	7129232.831	6233.7	6196.955	6196.627	SM/SC

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-G07"	2106277.599	7129232.831	6233.7	6196.627	6195.642	Sand
"CPT-G07"	2106277.599	7129232.831	6233.7	6195.642	6195.314	SM/SC
"CPT-G07"	2106277.599	7129232.831	6233.7	6195.314	6194.986	Sand
"CPT-G07"	2106277.599	7129232.831	6233.7	6194.986	6194.658	SM/SC
"CPT-G07"	2106277.599	7129232.831	6233.7	6194.658	6193.346	SM/SC
"CPT-G07"	2106277.599	7129232.831	6233.7	6193.346	6193.018	Sand
"CPT-G07"	2106277.599	7129232.831	6233.7	6193.018	6192.033	SM/SC
"CPT-G07"	2106277.599	7129232.831	6233.7	6192.033	6191.377	Sand
"CPT-G07"	2106277.599	7129232.831	6233.7	6191.377	6191.049	SM/SC
"CPT-G07"	2106277.599	7129232.831	6233.7	6191.049	6190.393	CL/ML
"CPT-G07"	2106277.599	7129232.831	6233.7	6190.393	6189.737	SM/SC
"CPT-G07"	2106277.599	7129232.831	6233.7	6189.737	6183.175	Sand
"CPT-G07"	2106277.599	7129232.831	6233.7	6183.175	6181.207	Sand
"CPT-G07"	2106277.599	7129232.831	6233.7	6181.207	6179.566	Sand
"CPT-G07"	2106277.599	7129232.831	6233.7	6179.566	6178.582	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6234.85	6230.179	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6230.179	6222.63	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6222.63	6221.98	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6221.98	6218.7	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6218.7	6216.07	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6216.07	6215.09	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6215.09	6214.76	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6214.76	6213.45	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6213.45	6212.79	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6212.79	6210.49	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6210.49	6210.17	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6210.17	6208.85	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6208.85	6207.54	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6207.54	6207.21	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6207.21	6206.56	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6206.56	6204.59	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6204.59	6204.26	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6204.26	6201.96	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6201.96	6201.31	SM/SC
"CPT-G08"	2105885.05	7130482.95	6235.1	6201.31	6200.65	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6200.65	6200.32	SM/SC
"CPT-G08"	2105885.05	7130482.95	6235.1	6200.32	6199.01	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6199.01	6197.37	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6197.37	6197.04	SM/SC
"CPT-G08"	2105885.05	7130482.95	6235.1	6197.04	6195.07	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6195.07	6194.42	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6194.42	6190.48	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6190.48	6190.15	SM/SC
"CPT-G08"	2105885.05	7130482.95	6235.1	6190.15	6189.17	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6189.17	6188.84	SM/SC
"CPT-G08"	2105885.05	7130482.95	6235.1	6188.84	6188.18	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6188.18	6187.86	SM/SC
"CPT-G08"	2105885.05	7130482.95	6235.1	6187.86	6185.89	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6185.89	6184.9	SM/SC
"CPT-G08"	2105885.05	7130482.95	6235.1	6184.9	6183.92	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6183.92	6183.59	SM/SC
"CPT-G08"	2105885.05	7130482.95	6235.1	6183.59	6182.28	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6182.28	6181.62	SM/SC
"CPT-G08"	2105885.05	7130482.95	6235.1	6181.62	6180.64	Sand

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-G08"	2105885.05	7130482.95	6235.1	6180.64	6180.31	SM/SC
"CPT-G08"	2105885.05	7130482.95	6235.1	6180.31	6177.36	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6177.36	6177.03	SM/SC
"CPT-G08"	2105885.05	7130482.95	6235.1	6177.03	6176.04	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6176.04	6175.06	SM/SC
"CPT-G08"	2105885.05	7130482.95	6235.1	6175.06	6174.4	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6174.4	6173.42	SM/SC
"CPT-G08"	2105885.05	7130482.95	6235.1	6173.42	6170.47	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6170.47	6169.48	SM/SC
"CPT-G08"	2105885.05	7130482.95	6235.1	6169.48	6169.15	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6169.15	6168.5	SM/SC
"CPT-G08"	2105885.05	7130482.95	6235.1	6168.5	6164.56	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6164.56	6164.23	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6164.23	6151.11	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6151.11	6150.45	SM/SC
"CPT-G08"	2105885.05	7130482.95	6235.1	6150.45	6146.52	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6146.52	6146.19	CL/ML
"CPT-G08"	2105885.05	7130482.95	6235.1	6146.19	6145.86	SM/SC
"CPT-G08"	2105885.05	7130482.95	6235.1	6145.86	6144.22	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6144.22	6141.27	SM/SC
"CPT-G08"	2105885.05	7130482.95	6235.1	6141.27	6140.28	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6140.28	6139.3	SM/SC
"CPT-G08"	2105885.05	7130482.95	6235.1	6139.3	6138.97	Sand
"CPT-G08"	2105885.05	7130482.95	6235.1	6138.97	6138.64	SM/SC
"CPT-G08"	2105885.05	7130482.95	6235.1	6138.64	6136.35	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6233.96	6233.21	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6233.21	6229.29	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6229.29	6228.63	SM/SC
"CPT-G09"	2105023.03	7130484.75	6234.21	6228.63	6225.68	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6225.68	6224.7	SM/SC
"CPT-G09"	2105023.03	7130484.75	6234.21	6224.7	6224.37	CL/ML
"CPT-G09"	2105023.03	7130484.75	6234.21	6224.37	6223.71	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6223.71	6219.12	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6219.12	6218.13	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6218.13	6217.81	SM/SC
"CPT-G09"	2105023.03	7130484.75	6234.21	6217.81	6217.48	CL/ML
"CPT-G09"	2105023.03	7130484.75	6234.21	6217.48	6216.82	SM/SC
"CPT-G09"	2105023.03	7130484.75	6234.21	6216.82	6216.16	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6216.16	6214.2	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6214.2	6213.54	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6213.54	6213.21	SM/SC
"CPT-G09"	2105023.03	7130484.75	6234.21	6213.21	6210.92	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6210.92	6209.6	SM/SC
"CPT-G09"	2105023.03	7130484.75	6234.21	6209.6	6208.29	CL/ML
"CPT-G09"	2105023.03	7130484.75	6234.21	6208.29	6207.31	SM/SC
"CPT-G09"	2105023.03	7130484.75	6234.21	6207.31	6206.32	CL/ML
"CPT-G09"	2105023.03	7130484.75	6234.21	6206.32	6205.99	SM/SC
"CPT-G09"	2105023.03	7130484.75	6234.21	6205.99	6202.71	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6202.71	6201.73	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6201.73	6198.78	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6198.78	6198.45	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6198.45	6195.17	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6195.17	6194.51	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6194.51	6194.18	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-G09"	2105023.03	7130484.75	6234.21	6194.18	6193.2	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6193.2	6185.49	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6185.49	6184.83	SM/SC
"CPT-G09"	2105023.03	7130484.75	6234.21	6184.83	6184.5	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6184.5	6183.52	SM/SC
"CPT-G09"	2105023.03	7130484.75	6234.21	6183.52	6182.54	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6182.54	6182.21	SM/SC
"CPT-G09"	2105023.03	7130484.75	6234.21	6182.21	6181.88	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6181.88	6180.57	SM/SC
"CPT-G09"	2105023.03	7130484.75	6234.21	6180.57	6179.58	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6179.58	6178.93	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6178.93	6177.94	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6177.94	6177.62	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6177.62	6175.97	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6175.97	6175.65	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6175.65	6154.65	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6154.65	6152.68	SM/SC
"CPT-G09"	2105023.03	7130484.75	6234.21	6152.68	6151.7	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6151.7	6151.04	SM/SC
"CPT-G09"	2105023.03	7130484.75	6234.21	6151.04	6148.42	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6148.42	6148.09	SM/SC
"CPT-G09"	2105023.03	7130484.75	6234.21	6148.09	6145.46	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6145.46	6144.81	CL/ML
"CPT-G09"	2105023.03	7130484.75	6234.21	6144.81	6141.85	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6141.85	6141.53	SM/SC
"CPT-G09"	2105023.03	7130484.75	6234.21	6141.53	6140.87	CL/ML
"CPT-G09"	2105023.03	7130484.75	6234.21	6140.87	6139.23	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6139.23	6138.9	SM/SC
"CPT-G09"	2105023.03	7130484.75	6234.21	6138.9	6137.59	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6137.59	6135.62	SM/SC
"CPT-G09"	2105023.03	7130484.75	6234.21	6135.62	6134.64	Sand
"CPT-G09"	2105023.03	7130484.75	6234.21	6134.64	6131.36	SM/SC
"CPT-G10"	2104334.32	7130916.87	6245.27	6245.02	6240.27	Sand
"CPT-G10"	2104334.32	7130916.87	6245.27	6240.35	6234.77	Sand
"CPT-G10"	2104334.32	7130916.87	6245.27	6234.77	6233.79	SM/SC
"CPT-G10"	2104334.32	7130916.87	6245.27	6233.79	6232.47	CL/ML
"CPT-G10"	2104334.32	7130916.87	6245.27	6232.47	6231.82	Sand
"CPT-G10"	2104334.32	7130916.87	6245.27	6231.82	6231.49	SM/SC
"CPT-G10"	2104334.32	7130916.87	6245.27	6231.49	6224.27	Sand
"CPT-G10"	2104334.32	7130916.87	6245.27	6224.27	6223.94	Sand
"CPT-G10"	2104334.32	7130916.87	6245.27	6223.94	6223.62	SM/SC
"CPT-G10"	2104334.32	7130916.87	6245.27	6223.62	6222.96	Sand
"CPT-G10"	2104334.32	7130916.87	6245.27	6222.96	6214.1	Sand
"CPT-G10"	2104334.32	7130916.87	6245.27	6214.1	6213.77	SM/SC
"CPT-G10"	2104334.32	7130916.87	6245.27	6213.77	6213.45	SM/SC
"CPT-G10"	2104334.32	7130916.87	6245.27	6213.45	6213.12	SM/SC
"CPT-G10"	2104334.32	7130916.87	6245.27	6213.12	6206.56	Sand
"CPT-G10"	2104334.32	7130916.87	6245.27	6206.56	6205.9	SM/SC
"CPT-G10"	2104334.32	7130916.87	6245.27	6205.9	6203.93	Sand
"CPT-G10"	2104334.32	7130916.87	6245.27	6203.93	6203.6	SM/SC
"CPT-G10"	2104334.32	7130916.87	6245.27	6203.6	6202.95	SM/SC
"CPT-G10"	2104334.32	7130916.87	6245.27	6202.95	6201.31	SM/SC
"CPT-G10"	2104334.32	7130916.87	6245.27	6201.31	6200.32	Sand
"CPT-G10"	2104334.32	7130916.87	6245.27	6200.32	6199.99	SM/SC

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-G10"	2104334.32	7130916.87	6245.27	6199.99	6198.68	Sand
"CPT-G10"	2104334.32	7130916.87	6245.27	6198.68	6198.03	Sand
"CPT-G10"	2104334.32	7130916.87	6245.27	6198.03	6197.37	Sand
"CPT-G10"	2104334.32	7130916.87	6245.27	6197.37	6196.71	Sand
"CPT-G10"	2104334.32	7130916.87	6245.27	6196.71	6193.76	Sand
"CPT-G10"	2104334.32	7130916.87	6245.27	6193.76	6193.43	Sand
"CPT-G10"	2104334.32	7130916.87	6245.27	6193.43	6192.45	Sand
"CPT-G10"	2104334.32	7130916.87	6245.27	6192.45	6191.46	Sand
"CPT-G10"	2104334.32	7130916.87	6245.27	6191.46	6189.82	Sand
"CPT-G10"	2104334.32	7130916.87	6245.27	6189.82	6189.5	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6249.26	6244.59	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6244.59	6231.79	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6231.79	6231.46	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6231.46	6228.84	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6228.84	6227.2	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6227.2	6226.87	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6226.87	6226.54	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6226.54	6224.25	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6224.25	6223.59	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6223.59	6222.93	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6222.93	6219.98	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6219.98	6219.65	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6219.65	6218.67	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6218.67	6218.34	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6218.34	6217.03	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6217.03	6215.72	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6215.72	6215.06	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6215.06	6214.08	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6214.08	6213.42	SM/SC
"CPT-G11"	2103616.35	7131956.55	6249.51	6213.42	6211.78	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6211.78	6209.81	SM/SC
"CPT-G11"	2103616.35	7131956.55	6249.51	6209.81	6209.16	CL/ML
"CPT-G11"	2103616.35	7131956.55	6249.51	6209.16	6208.83	SM/SC
"CPT-G11"	2103616.35	7131956.55	6249.51	6208.83	6208.17	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6208.17	6206.2	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6206.2	6203.58	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6203.58	6201.61	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6201.61	6199.31	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6199.31	6198.98	SM/SC
"CPT-G11"	2103616.35	7131956.55	6249.51	6198.98	6198	CL/ML
"CPT-G11"	2103616.35	7131956.55	6249.51	6198	6195.7	CL/ML
"CPT-G11"	2103616.35	7131956.55	6249.51	6195.7	6195.38	CL/ML
"CPT-G11"	2103616.35	7131956.55	6249.51	6195.38	6195.05	SM/SC
"CPT-G11"	2103616.35	7131956.55	6249.51	6195.05	6194.72	CL/ML
"CPT-G11"	2103616.35	7131956.55	6249.51	6194.72	6194.06	SM/SC
"CPT-G11"	2103616.35	7131956.55	6249.51	6194.06	6192.75	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6192.75	6192.42	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6192.42	6192.09	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6192.09	6190.78	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6190.78	6189.8	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6189.8	6188.81	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6188.81	6185.53	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6185.53	6184.22	Sand
"CPT-G11"	2103616.35	7131956.55	6249.51	6184.22	6174.71	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-G11"	2103616.35	7131956.55	6249.51	6174.71	6174.38	SM/SC
"CPT-G11"	2103616.35	7131956.55	6249.51	6174.38	6165.85	Sand
"CPT-H01"	2101604.297	7129800.126	6268.7	6268.7	6268.2	SM/SC
"CPT-H01"	2101604.297	7129800.126	6268.7	6268.2	6263.779	SM/SC
"CPT-H01"	2101604.297	7129800.126	6268.7	6263.779	6259.514	Sand
"CPT-H01"	2101604.297	7129800.126	6268.7	6259.514	6257.873	SM/SC
"CPT-H01"	2101604.297	7129800.126	6268.7	6257.873	6247.046	Sand
"CPT-H01"	2101604.297	7129800.126	6268.7	6247.046	6243.438	SM/SC
"CPT-H01"	2101604.297	7129800.126	6268.7	6243.438	6241.141	Sand
"CPT-H01"	2101604.297	7129800.126	6268.7	6241.141	6238.844	SM/SC
"CPT-H01"	2101604.297	7129800.126	6268.7	6238.844	6238.516	CL/ML
"CPT-H01"	2101604.297	7129800.126	6268.7	6238.516	6237.86	CL/ML
"CPT-H01"	2101604.297	7129800.126	6268.7	6237.86	6237.532	CL/ML
"CPT-H01"	2101604.297	7129800.126	6268.7	6237.532	6236.548	SM/SC
"CPT-H01"	2101604.297	7129800.126	6268.7	6236.548	6235.892	Sand
"CPT-H01"	2101604.297	7129800.126	6268.7	6235.892	6234.907	SM/SC
"CPT-H01"	2101604.297	7129800.126	6268.7	6234.907	6234.579	SM/SC
"CPT-H01"	2101604.297	7129800.126	6268.7	6234.579	6232.939	Sand
"CPT-H01"	2101604.297	7129800.126	6268.7	6232.939	6232.611	SM/SC
"CPT-H01"	2101604.297	7129800.126	6268.7	6232.611	6231.627	SM/SC
"CPT-H01"	2101604.297	7129800.126	6268.7	6231.627	6223.424	Sand
"CPT-H01"	2101604.297	7129800.126	6268.7	6223.424	6223.096	SM/SC
"CPT-H01"	2101604.297	7129800.126	6268.7	6223.096	6221.128	Sand
"CPT-H01"	2101604.297	7129800.126	6268.7	6221.128	6220.8	SM/SC
"CPT-H01"	2101604.297	7129800.126	6268.7	6220.8	6217.519	Sand
"CPT-H01"	2101604.297	7129800.126	6268.7	6217.519	6216.863	SM/SC
"CPT-H01"	2101604.297	7129800.126	6268.7	6216.863	6212.926	Sand
"CPT-H01"	2101604.297	7129800.126	6268.7	6212.926	6212.27	SM/SC
"CPT-H01"	2101604.297	7129800.126	6268.7	6212.27	6209.317	Sand
"CPT-H01"	2101604.297	7129800.126	6268.7	6209.317	6208.989	SM/SC
"CPT-H01"	2101604.297	7129800.126	6268.7	6208.989	6208.333	Sand
"CPT-H01"	2101604.297	7129800.126	6268.7	6208.333	6208.004	SM/SC
"CPT-H01"	2101604.297	7129800.126	6268.7	6208.004	6207.676	Sand
"CPT-H01"	2101604.297	7129800.126	6268.7	6207.676	6206.692	SM/SC
"CPT-H01"	2101604.297	7129800.126	6268.7	6206.692	6206.364	Sand
"CPT-H01"	2101604.297	7129800.126	6268.7	6206.364	6205.38	SM/SC
"CPT-H01"	2101604.297	7129800.126	6268.7	6205.38	6205.052	SM/SC
"CPT-H01"	2101604.297	7129800.126	6268.7	6205.052	6204.724	SM/SC
"CPT-H01"	2101604.297	7129800.126	6268.7	6204.724	6203.739	Sand
"CPT-H01"	2101604.297	7129800.126	6268.7	6203.739	6203.411	SM/SC
"CPT-H01"	2101604.297	7129800.126	6268.7	6203.411	6203.083	CL/ML
"CPT-H01"	2101604.297	7129800.126	6268.7	6203.083	6202.427	SM/SC
"CPT-H01"	2101604.297	7129800.126	6268.7	6202.427	6202.099	CL/ML
"CPT-H01"	2101604.297	7129800.126	6268.7	6202.099	6201.771	CL/ML
"CPT-H01"	2101604.297	7129800.126	6268.7	6201.771	6200.459	SM/SC
"CPT-H01"	2101604.297	7129800.126	6268.7	6200.459	6200.13	CL/ML
"CPT-H01"	2101604.297	7129800.126	6268.7	6200.13	6199.474	SM/SC
"CPT-H01"	2101604.297	7129800.126	6268.7	6199.474	6199.146	SM/SC
"CPT-H01"	2101604.297	7129800.126	6268.7	6199.146	6193.569	Sand
"CPT-H01"	2101604.297	7129800.126	6268.7	6193.569	6192.913	SM/SC
"CPT-H01"	2101604.297	7129800.126	6268.7	6192.913	6192.585	Sand
"CPT-H01"	2101604.297	7129800.126	6268.7	6192.585	6191.928	SM/SC
"CPT-H01"	2101604.297	7129800.126	6268.7	6191.928	6191.272	Sand
"CPT-H01"	2101604.297	7129800.126	6268.7	6191.272	6190.944	SM/SC

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-H01"	2101604.297	7129800.126	6268.7	6190.944	6190.616	Sand
"CPT-H01"	2101604.297	7129800.126	6268.7	6190.616	6190.288	SM/SC
"CPT-H01"	2101604.297	7129800.126	6268.7	6190.288	6187.663	CL/ML
"CPT-H01"	2101604.297	7129800.126	6268.7	6187.663	6187.335	SM/SC
"CPT-H01"	2101604.297	7129800.126	6268.7	6187.335	6186.679	Sand
"CPT-H02"	2101871.684	7129536.239	6262	6262	6261.5	Sand
"CPT-H02"	2101871.684	7129536.239	6262	6261.5	6257.079	Sand
"CPT-H02"	2101871.684	7129536.239	6262	6257.079	6239.69	Sand
"CPT-H02"	2101871.684	7129536.239	6262	6239.69	6239.362	SM/SC
"CPT-H02"	2101871.684	7129536.239	6262	6239.362	6239.034	Sand
"CPT-H02"	2101871.684	7129536.239	6262	6239.034	6238.706	SM/SC
"CPT-H02"	2101871.684	7129536.239	6262	6238.706	6235.097	Sand
"CPT-H02"	2101871.684	7129536.239	6262	6235.097	6234.113	SM/SC
"CPT-H02"	2101871.684	7129536.239	6262	6234.113	6233.457	Sand
"CPT-H02"	2101871.684	7129536.239	6262	6233.457	6233.129	SM/SC
"CPT-H02"	2101871.684	7129536.239	6262	6233.129	6231.488	Sand
"CPT-H02"	2101871.684	7129536.239	6262	6231.488	6231.16	SM/SC
"CPT-H02"	2101871.684	7129536.239	6262	6231.16	6230.832	CL/ML
"CPT-H02"	2101871.684	7129536.239	6262	6230.832	6229.192	SM/SC
"CPT-H02"	2101871.684	7129536.239	6262	6229.192	6222.302	Sand
"CPT-H02"	2101871.684	7129536.239	6262	6222.302	6221.974	SM/SC
"CPT-H02"	2101871.684	7129536.239	6262	6221.974	6218.037	Sand
"CPT-H02"	2101871.684	7129536.239	6262	6218.037	6217.709	SM/SC
"CPT-H02"	2101871.684	7129536.239	6262	6217.709	6217.381	Sand
"CPT-H02"	2101871.684	7129536.239	6262	6217.381	6217.052	SM/SC
"CPT-H02"	2101871.684	7129536.239	6262	6217.052	6214.756	Sand
"CPT-H02"	2101871.684	7129536.239	6262	6214.756	6214.1	SM/SC
"CPT-H02"	2101871.684	7129536.239	6262	6214.1	6200.32	Sand
"CPT-H02"	2101871.684	7129536.239	6262	6200.32	6199.336	SM/SC
"CPT-H02"	2101871.684	7129536.239	6262	6199.336	6197.367	Sand
"CPT-H02"	2101871.684	7129536.239	6262	6197.367	6197.039	SM/SC
"CPT-H02"	2101871.684	7129536.239	6262	6197.039	6196.383	Sand
"CPT-H02"	2101871.684	7129536.239	6262	6196.383	6194.415	SM/SC
"CPT-H02"	2101871.684	7129536.239	6262	6194.415	6194.087	Sand
"CPT-H02"	2101871.684	7129536.239	6262	6194.087	6193.759	SM/SC
"CPT-H02"	2101871.684	7129536.239	6262	6193.759	6193.43	Sand
"CPT-H02"	2101871.684	7129536.239	6262	6193.43	6192.774	SM/SC
"CPT-H02"	2101871.684	7129536.239	6262	6192.774	6192.118	Sand
"CPT-H02"	2101871.684	7129536.239	6262	6192.118	6191.79	SM/SC
"CPT-H02"	2101871.684	7129536.239	6262	6191.79	6191.462	Sand
"CPT-H02"	2101871.684	7129536.239	6262	6191.462	6189.822	SM/SC
"CPT-H02"	2101871.684	7129536.239	6262	6189.822	6188.837	Sand
"CPT-H02"	2101871.684	7129536.239	6262	6188.837	6188.509	SM/SC
"CPT-H02"	2101871.684	7129536.239	6262	6188.509	6188.181	CL/ML
"CPT-H02"	2101871.684	7129536.239	6262	6188.181	6187.853	CL/ML
"CPT-H02"	2101871.684	7129536.239	6262	6187.853	6187.525	CL/ML
"CPT-H02"	2101871.684	7129536.239	6262	6187.525	6187.197	SM/SC
"CPT-H02"	2101871.684	7129536.239	6262	6187.197	6186.869	Sand
"CPT-H02"	2101871.684	7129536.239	6262	6186.869	6186.213	SM/SC
"CPT-H02"	2101871.684	7129536.239	6262	6186.213	6184.572	Sand
"CPT-H02"	2101871.684	7129536.239	6262	6184.572	6183.26	SM/SC
"CPT-H02"	2101871.684	7129536.239	6262	6183.26	6175.058	Sand
"CPT-H02"	2101871.684	7129536.239	6262	6175.058	6174.73	SM/SC
"CPT-H02"	2101871.684	7129536.239	6262	6174.73	6174.402	CL/ML

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-H02"	2101871.684	7129536.239	6262	6174.402	6171.449	CL/ML
"CPT-H02"	2101871.684	7129536.239	6262	6171.449	6171.121	CL/ML
"CPT-H02"	2101871.684	7129536.239	6262	6171.121	6170.465	Sand
"CPT-H02"	2101871.684	7129536.239	6262	6170.465	6169.808	SM/SC
"CPT-H02"	2101871.684	7129536.239	6262	6169.808	6169.48	Sand
"CPT-H03"	2102240.228	7129712.006	6263	6263	6262.5	Sand
"CPT-H03"	2102240.228	7129712.006	6263	6262.5	6238.066	Sand
"CPT-H03"	2102240.228	7129712.006	6263	6238.066	6237.738	Sand
"CPT-H03"	2102240.228	7129712.006	6263	6237.738	6236.753	Sand
"CPT-H03"	2102240.228	7129712.006	6263	6236.753	6236.425	SM/SC
"CPT-H03"	2102240.228	7129712.006	6263	6236.425	6228.879	Sand
"CPT-H03"	2102240.228	7129712.006	6263	6228.879	6228.551	SM/SC
"CPT-H03"	2102240.228	7129712.006	6263	6228.551	6228.223	Sand
"CPT-H03"	2102240.228	7129712.006	6263	6228.223	6227.567	SM/SC
"CPT-H03"	2102240.228	7129712.006	6263	6227.567	6226.911	Sand
"CPT-H03"	2102240.228	7129712.006	6263	6226.911	6226.255	SM/SC
"CPT-H03"	2102240.228	7129712.006	6263	6226.255	6198.367	Sand
"CPT-H03"	2102240.228	7129712.006	6263	6198.367	6198.039	Sand
"CPT-H03"	2102240.228	7129712.006	6263	6198.039	6189.509	Sand
"CPT-H03"	2102240.228	7129712.006	6263	6189.509	6189.181	SM/SC
"CPT-H03"	2102240.228	7129712.006	6263	6189.181	6185.9	Sand
"CPT-H03"	2102240.228	7129712.006	6263	6185.9	6184.916	SM/SC
"CPT-H03"	2102240.228	7129712.006	6263	6184.916	6183.276	Sand
"CPT-H03"	2102240.228	7129712.006	6263	6183.276	6182.619	SM/SC
"CPT-H03"	2102240.228	7129712.006	6263	6182.619	6179.339	Sand
"CPT-H03"	2102240.228	7129712.006	6263	6179.339	6179.01	SM/SC
"CPT-H03"	2102240.228	7129712.006	6263	6179.01	6178.682	SM/SC
"CPT-H03"	2102240.228	7129712.006	6263	6178.682	6178.026	CL/ML
"CPT-H03"	2102240.228	7129712.006	6263	6178.026	6177.698	CL/ML
"CPT-H03"	2102240.228	7129712.006	6263	6177.698	6177.37	SM/SC
"CPT-H03"	2102240.228	7129712.006	6263	6177.37	6177.042	CL/ML
"CPT-H03"	2102240.228	7129712.006	6263	6177.042	6176.058	SM/SC
"CPT-H03"	2102240.228	7129712.006	6263	6176.058	6172.449	Sand
"CPT-H03"	2102240.228	7129712.006	6263	6172.449	6172.121	SM/SC
"CPT-H04"	2102956.71	7129771.555	6250.5	6250.5	6250	Sand
"CPT-H04"	2102956.71	7129771.555	6250.5	6250	6245.579	Sand
"CPT-H04"	2102956.71	7129771.555	6250.5	6245.579	6245.087	Sand
"CPT-H04"	2102956.71	7129771.555	6250.5	6245.087	6244.594	SM/SC
"CPT-H04"	2102956.71	7129771.555	6250.5	6244.594	6232.783	Sand
"CPT-H04"	2102956.71	7129771.555	6250.5	6232.783	6231.799	SM/SC
"CPT-H04"	2102956.71	7129771.555	6250.5	6231.799	6224.417	Sand
"CPT-H04"	2102956.71	7129771.555	6250.5	6224.417	6223.925	SM/SC
"CPT-H04"	2102956.71	7129771.555	6250.5	6223.925	6205.224	Sand
"CPT-H04"	2102956.71	7129771.555	6250.5	6205.224	6204.732	SM/SC
"CPT-H04"	2102956.71	7129771.555	6250.5	6204.732	6202.764	Sand
"CPT-H04"	2102956.71	7129771.555	6250.5	6202.764	6201.287	Sand
"CPT-H04"	2102956.71	7129771.555	6250.5	6201.287	6200.795	Sand
"CPT-H04"	2102956.71	7129771.555	6250.5	6200.795	6199.319	Sand
"CPT-H04"	2102956.71	7129771.555	6250.5	6199.319	6190.953	Sand
"CPT-H04"	2102956.71	7129771.555	6250.5	6190.953	6190.461	Sand
"CPT-H04"	2102956.71	7129771.555	6250.5	6190.461	6186.031	Sand
"CPT-H04"	2102956.71	7129771.555	6250.5	6186.031	6185.047	SM/SC
"CPT-H04"	2102956.71	7129771.555	6250.5	6185.047	6184.555	CL/ML
"CPT-H04"	2102956.71	7129771.555	6250.5	6184.555	6180.126	SM/SC

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-H04"	2102956.71	7129771.555	6250.5	6180.126	6179.634	CL/ML
"CPT-H04"	2102956.71	7129771.555	6250.5	6179.634	6177.173	SM/SC
"CPT-H04"	2102956.71	7129771.555	6250.5	6177.173	6160.933	Sand
"CPT-H04"	2102956.71	7129771.555	6250.5	6160.933	6160.441	SM/SC
"CPT-H04"	2102956.71	7129771.555	6250.5	6160.441	6159.457	Sand
"CPT-H05"	2103360.878	7130240.867	6249.6	6249.6	6249.1	Sand
"CPT-H05"	2103360.878	7130240.867	6249.6	6249.1	6244.679	Sand
"CPT-H05"	2103360.878	7130240.867	6249.6	6244.679	6221.713	Sand
"CPT-H05"	2103360.878	7130240.867	6249.6	6221.713	6221.385	SM/SC
"CPT-H05"	2103360.878	7130240.867	6249.6	6221.385	6218.76	Sand
"CPT-H05"	2103360.878	7130240.867	6249.6	6218.76	6218.104	SM/SC
"CPT-H05"	2103360.878	7130240.867	6249.6	6218.104	6210.886	Sand
"CPT-H05"	2103360.878	7130240.867	6249.6	6210.886	6210.23	SM/SC
"CPT-H05"	2103360.878	7130240.867	6249.6	6210.23	6206.949	Sand
"CPT-H05"	2103360.878	7130240.867	6249.6	6206.949	6206.621	SM/SC
"CPT-H05"	2103360.878	7130240.867	6249.6	6206.621	6205.965	Sand
"CPT-H05"	2103360.878	7130240.867	6249.6	6205.965	6205.309	SM/SC
"CPT-H05"	2103360.878	7130240.867	6249.6	6205.309	6202.684	Sand
"CPT-H05"	2103360.878	7130240.867	6249.6	6202.684	6202.356	Sand
"CPT-H05"	2103360.878	7130240.867	6249.6	6202.356	6201.7	Sand
"CPT-H05"	2103360.878	7130240.867	6249.6	6201.7	6201.372	Sand
"CPT-H05"	2103360.878	7130240.867	6249.6	6201.372	6199.731	Sand
"CPT-H05"	2103360.878	7130240.867	6249.6	6199.731	6198.747	Sand
"CPT-H05"	2103360.878	7130240.867	6249.6	6198.747	6188.904	Sand
"CPT-H05"	2103360.878	7130240.867	6249.6	6188.904	6188.576	Sand
"CPT-H05"	2103360.878	7130240.867	6249.6	6188.576	6185.624	Sand
"CPT-H05"	2103360.878	7130240.867	6249.6	6185.624	6184.967	SM/SC
"CPT-H05"	2103360.878	7130240.867	6249.6	6184.967	6184.639	CL/ML
"CPT-H05"	2103360.878	7130240.867	6249.6	6184.639	6183.983	SM/SC
"CPT-H05"	2103360.878	7130240.867	6249.6	6183.983	6182.343	Sand
"CPT-H05"	2103360.878	7130240.867	6249.6	6182.343	6181.03	SM/SC
"CPT-H05"	2103360.878	7130240.867	6249.6	6181.03	6180.702	Sand
"CPT-H05"	2103360.878	7130240.867	6249.6	6180.702	6180.374	SM/SC
"CPT-H05"	2103360.878	7130240.867	6249.6	6180.374	6179.39	CL/ML
"CPT-H05"	2103360.878	7130240.867	6249.6	6179.39	6178.734	SM/SC
"CPT-H05"	2103360.878	7130240.867	6249.6	6178.734	6177.093	CL/ML
"CPT-H05"	2103360.878	7130240.867	6249.6	6177.093	6176.765	CL/ML
"CPT-H05"	2103360.878	7130240.867	6249.6	6176.765	6176.437	CL/ML
"CPT-H05"	2103360.878	7130240.867	6249.6	6176.437	6176.109	SM/SC
"CPT-H05"	2103360.878	7130240.867	6249.6	6176.109	6173.485	Sand
"CPT-H05"	2103360.878	7130240.867	6249.6	6173.485	6172.828	Sand
"CPT-H05"	2103360.878	7130240.867	6249.6	6172.828	6171.188	Sand
"CPT-H05"	2103360.878	7130240.867	6249.6	6171.188	6170.86	SM/SC
"CPT-H05"	2103360.878	7130240.867	6249.6	6170.86	6169.876	CL/ML
"CPT-H05"	2103360.878	7130240.867	6249.6	6169.876	6169.548	CL/ML
"CPT-H05"	2103360.878	7130240.867	6249.6	6169.548	6169.219	CL/ML
"CPT-H05"	2103360.878	7130240.867	6249.6	6169.219	6168.891	CL/ML
"CPT-H05"	2103360.878	7130240.867	6249.6	6168.891	6168.563	SM/SC
"CPT-H05"	2103360.878	7130240.867	6249.6	6168.563	6167.907	Sand
"CPT-H05"	2103360.878	7130240.867	6249.6	6167.907	6166.267	SM/SC
"CPT-H05"	2103360.878	7130240.867	6249.6	6166.267	6157.736	Sand
"CPT-H05"	2103360.878	7130240.867	6249.6	6157.736	6157.08	SM/SC
"CPT-I01"	2102255.017	7130450.999	6261.4	6260.9	6256.479	Sand
"CPT-I01"	2102255.017	7130450.999	6261.4	6256.479	6241.387	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-I01"	2102255.017	7130450.999	6261.4	6241.387	6241.059	SM/SC
"CPT-I01"	2102255.017	7130450.999	6261.4	6241.059	6240.403	CL/ML
"CPT-I01"	2102255.017	7130450.999	6261.4	6240.403	6239.746	SM/SC
"CPT-I01"	2102255.017	7130450.999	6261.4	6239.746	6239.09	Sand
"CPT-I01"	2102255.017	7130450.999	6261.4	6239.09	6238.106	SM/SC
"CPT-I01"	2102255.017	7130450.999	6261.4	6238.106	6232.201	Sand
"CPT-I01"	2102255.017	7130450.999	6261.4	6232.201	6230.888	SM/SC
"CPT-I01"	2102255.017	7130450.999	6261.4	6230.888	6229.248	SM/SC
"CPT-I01"	2102255.017	7130450.999	6261.4	6229.248	6228.92	Sand
"CPT-I01"	2102255.017	7130450.999	6261.4	6228.92	6228.592	SM/SC
"CPT-I01"	2102255.017	7130450.999	6261.4	6228.592	6228.264	CL/ML
"CPT-I01"	2102255.017	7130450.999	6261.4	6228.264	6227.935	SM/SC
"CPT-I01"	2102255.017	7130450.999	6261.4	6227.935	6218.749	Sand
"CPT-I01"	2102255.017	7130450.999	6261.4	6218.749	6218.093	SM/SC
"CPT-I01"	2102255.017	7130450.999	6261.4	6218.093	6215.468	Sand
"CPT-I01"	2102255.017	7130450.999	6261.4	6215.468	6215.14	SM/SC
"CPT-I01"	2102255.017	7130450.999	6261.4	6215.14	6213.172	Sand
"CPT-I01"	2102255.017	7130450.999	6261.4	6213.172	6212.515	SM/SC
"CPT-I01"	2102255.017	7130450.999	6261.4	6212.515	6210.875	Sand
"CPT-I01"	2102255.017	7130450.999	6261.4	6210.875	6210.547	SM/SC
"CPT-I01"	2102255.017	7130450.999	6261.4	6210.547	6210.219	Sand
"CPT-I01"	2102255.017	7130450.999	6261.4	6210.219	6209.563	SM/SC
"CPT-I01"	2102255.017	7130450.999	6261.4	6209.563	6203.985	Sand
"CPT-I01"	2102255.017	7130450.999	6261.4	6203.985	6203.329	SM/SC
"CPT-I01"	2102255.017	7130450.999	6261.4	6203.329	6203.001	Sand
"CPT-I01"	2102255.017	7130450.999	6261.4	6203.001	6202.673	SM/SC
"CPT-I01"	2102255.017	7130450.999	6261.4	6202.673	6202.345	Sand
"CPT-I01"	2102255.017	7130450.999	6261.4	6202.345	6202.017	SM/SC
"CPT-I01"	2102255.017	7130450.999	6261.4	6202.017	6198.08	Sand
"CPT-I01"	2102255.017	7130450.999	6261.4	6198.08	6197.752	CL/ML
"CPT-I01"	2102255.017	7130450.999	6261.4	6197.752	6196.767	CL/ML
"CPT-I01"	2102255.017	7130450.999	6261.4	6196.767	6196.111	CL/ML
"CPT-I01"	2102255.017	7130450.999	6261.4	6196.111	6195.783	CL/ML
"CPT-I01"	2102255.017	7130450.999	6261.4	6195.783	6194.799	CL/ML
"CPT-I01"	2102255.017	7130450.999	6261.4	6194.799	6194.143	SM/SC
"CPT-I01"	2102255.017	7130450.999	6261.4	6194.143	6193.815	CL/ML
"CPT-I01"	2102255.017	7130450.999	6261.4	6193.815	6191.19	SM/SC
"CPT-I01"	2102255.017	7130450.999	6261.4	6191.19	6190.862	Sand
"CPT-I01"	2102255.017	7130450.999	6261.4	6190.862	6189.55	SM/SC
"CPT-I01"	2102255.017	7130450.999	6261.4	6189.55	6189.222	Sand
"CPT-I01"	2102255.017	7130450.999	6261.4	6189.222	6188.237	SM/SC
"CPT-I01"	2102255.017	7130450.999	6261.4	6188.237	6187.253	Sand
"CPT-I01"	2102255.017	7130450.999	6261.4	6187.253	6186.597	SM/SC
"CPT-I01"	2102255.017	7130450.999	6261.4	6186.597	6185.613	Sand
"CPT-I01"	2102255.017	7130450.999	6261.4	6185.613	6184.956	SM/SC
"CPT-I01"	2102255.017	7130450.999	6261.4	6184.956	6176.426	CL/ML
"CPT-I01"	2102255.017	7130450.999	6261.4	6176.426	6175.114	CL/ML
"CPT-I01"	2102255.017	7130450.999	6261.4	6175.114	6174.458	SM/SC
"CPT-I01"	2102255.017	7130450.999	6261.4	6174.458	6172.161	CL/ML
"CPT-I01"	2102255.017	7130450.999	6261.4	6172.161	6171.833	CL/ML
"CPT-I01"	2102255.017	7130450.999	6261.4	6171.833	6171.177	Sand
"CPT-I02"	2103039.858	7130643.449	6252.8	6252.8	6252.3	Sand
"CPT-I02"	2103039.858	7130643.449	6252.8	6252.3	6247.879	Sand
"CPT-I02"	2103039.858	7130643.449	6252.8	6247.879	6241.973	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"CPT-I02"	2103039.858	7130643.449	6252.8	6241.973	6241.317	Sand
"CPT-I02"	2103039.858	7130643.449	6252.8	6241.317	6240.989	Sand
"CPT-I02"	2103039.858	7130643.449	6252.8	6240.989	6240.661	SM/SC
"CPT-I02"	2103039.858	7130643.449	6252.8	6240.661	6240.333	CL/ML
"CPT-I02"	2103039.858	7130643.449	6252.8	6240.333	6234.755	Sand
"CPT-I02"	2103039.858	7130643.449	6252.8	6234.755	6233.443	SM/SC
"CPT-I02"	2103039.858	7130643.449	6252.8	6233.443	6233.115	Sand
"CPT-I02"	2103039.858	7130643.449	6252.8	6233.115	6232.787	SM/SC
"CPT-I02"	2103039.858	7130643.449	6252.8	6232.787	6222.288	Sand
"CPT-I02"	2103039.858	7130643.449	6252.8	6222.288	6221.96	SM/SC
"CPT-I02"	2103039.858	7130643.449	6252.8	6221.96	6219.664	SM/SC
"CPT-I02"	2103039.858	7130643.449	6252.8	6219.664	6219.007	Sand
"CPT-I02"	2103039.858	7130643.449	6252.8	6219.007	6218.351	SM/SC
"CPT-I02"	2103039.858	7130643.449	6252.8	6218.351	6218.023	Sand
"CPT-I02"	2103039.858	7130643.449	6252.8	6218.023	6217.695	SM/SC
"CPT-I02"	2103039.858	7130643.449	6252.8	6217.695	6217.367	Sand
"CPT-I02"	2103039.858	7130643.449	6252.8	6217.367	6217.039	SM/SC
"CPT-I02"	2103039.858	7130643.449	6252.8	6217.039	6216.711	Sand
"CPT-I02"	2103039.858	7130643.449	6252.8	6216.711	6213.758	Sand
"CPT-I02"	2103039.858	7130643.449	6252.8	6213.758	6213.43	Sand
"CPT-I02"	2103039.858	7130643.449	6252.8	6213.43	6212.446	Sand
"CPT-I02"	2103039.858	7130643.449	6252.8	6212.446	6202.603	Sand
"CPT-I02"	2103039.858	7130643.449	6252.8	6202.603	6201.619	Sand
"GW14"	2100495.149	7128755.221	6271.183	6266.262	6265.934	Sand
"GW14"	2100495.149	7128755.221	6271.183	6265.934	6265.442	Sand
"GW14"	2100495.149	7128755.221	6271.183	6265.442	6265.113	Sand
"GW14"	2100495.149	7128755.221	6271.183	6265.113	6264.621	Sand
"GW14"	2100495.149	7128755.221	6271.183	6264.621	6262.981	Sand
"GW14"	2100495.149	7128755.221	6271.183	6262.981	6262.817	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6262.817	6262.653	Sand
"GW14"	2100495.149	7128755.221	6271.183	6262.653	6262.325	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6262.325	6262.161	CL/ML
"GW14"	2100495.149	7128755.221	6271.183	6262.161	6261.34	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6261.34	6260.684	Sand
"GW14"	2100495.149	7128755.221	6271.183	6260.684	6260.52	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6260.52	6260.356	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6260.356	6260.192	Sand
"GW14"	2100495.149	7128755.221	6271.183	6260.192	6259.208	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6259.208	6259.044	CL/ML
"GW14"	2100495.149	7128755.221	6271.183	6259.044	6258.88	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6258.88	6258.716	CL/ML
"GW14"	2100495.149	7128755.221	6271.183	6258.716	6258.552	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6258.552	6258.388	Sand
"GW14"	2100495.149	7128755.221	6271.183	6258.388	6258.06	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6258.06	6257.896	Sand
"GW14"	2100495.149	7128755.221	6271.183	6257.896	6257.568	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6257.568	6250.842	Sand
"GW14"	2100495.149	7128755.221	6271.183	6250.842	6250.35	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6250.35	6248.873	Sand
"GW14"	2100495.149	7128755.221	6271.183	6248.873	6248.709	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6248.709	6247.069	Sand
"GW14"	2100495.149	7128755.221	6271.183	6247.069	6246.577	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6246.577	6241.819	Sand
"GW14"	2100495.149	7128755.221	6271.183	6241.819	6241.491	SM/SC

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"GW14"	2100495.149	7128755.221	6271.183	6241.491	6241.163	Sand
"GW14"	2100495.149	7128755.221	6271.183	6241.163	6240.999	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6240.999	6240.835	Sand
"GW14"	2100495.149	7128755.221	6271.183	6240.835	6240.507	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6240.507	6239.359	Sand
"GW14"	2100495.149	7128755.221	6271.183	6239.359	6237.718	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6237.718	6237.554	Sand
"GW14"	2100495.149	7128755.221	6271.183	6237.554	6237.39	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6237.39	6237.062	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6237.062	6236.734	Sand
"GW14"	2100495.149	7128755.221	6271.183	6236.734	6236.57	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6236.57	6235.258	Sand
"GW14"	2100495.149	7128755.221	6271.183	6235.258	6235.094	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6235.094	6234.93	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6234.93	6234.274	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6234.274	6233.945	CL/ML
"GW14"	2100495.149	7128755.221	6271.183	6233.945	6233.781	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6233.781	6233.617	CL/ML
"GW14"	2100495.149	7128755.221	6271.183	6233.617	6233.125	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6233.125	6232.797	CL/ML
"GW14"	2100495.149	7128755.221	6271.183	6232.797	6232.633	CL/ML
"GW14"	2100495.149	7128755.221	6271.183	6232.633	6232.469	CL/ML
"GW14"	2100495.149	7128755.221	6271.183	6232.469	6232.141	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6232.141	6231.977	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6231.977	6231.649	CL/ML
"GW14"	2100495.149	7128755.221	6271.183	6231.649	6231.321	CL/ML
"GW14"	2100495.149	7128755.221	6271.183	6231.321	6231.157	CL/ML
"GW14"	2100495.149	7128755.221	6271.183	6231.157	6230.665	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6230.665	6230.501	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6230.501	6230.337	CL/ML
"GW14"	2100495.149	7128755.221	6271.183	6230.337	6230.172	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6230.172	6223.447	Sand
"GW14"	2100495.149	7128755.221	6271.183	6223.447	6223.283	CL/ML
"GW14"	2100495.149	7128755.221	6271.183	6223.283	6223.119	CL/ML
"GW14"	2100495.149	7128755.221	6271.183	6223.119	6222.955	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6222.955	6222.791	Sand
"GW14"	2100495.149	7128755.221	6271.183	6222.791	6221.15	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6221.15	6214.096	Sand
"GW14"	2100495.149	7128755.221	6271.183	6214.096	6213.276	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6213.276	6208.027	Sand
"GW14"	2100495.149	7128755.221	6271.183	6208.027	6207.535	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6207.535	6204.746	Sand
"GW14"	2100495.149	7128755.221	6271.183	6204.746	6204.254	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6204.254	6197.856	Sand
"GW14"	2100495.149	7128755.221	6271.183	6197.856	6196.544	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6196.544	6194.903	Sand
"GW14"	2100495.149	7128755.221	6271.183	6194.903	6194.739	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6194.739	6194.575	CL/ML
"GW14"	2100495.149	7128755.221	6271.183	6194.575	6194.411	CL/ML
"GW14"	2100495.149	7128755.221	6271.183	6194.411	6194.247	CL/ML
"GW14"	2100495.149	7128755.221	6271.183	6194.247	6194.083	SM/SC
"GW14"	2100495.149	7128755.221	6271.183	6194.083	6193.427	CL/ML
"GW14"	2100495.149	7128755.221	6271.183	6193.427	6190.966	CL/ML
"GW14"	2100495.149	7128755.221	6271.183	6190.966	6190.802	CL/ML

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"GW-17"	2099614.145	7128715.937	6280.922	6276.001	6275.345	Sand
"GW-17"	2099614.145	7128715.937	6280.922	6275.345	6273.704	Sand
"GW-17"	2099614.145	7128715.937	6280.922	6273.704	6270.423	Sand
"GW-17"	2099614.145	7128715.937	6280.922	6270.423	6270.095	SM/SC
"GW-17"	2099614.145	7128715.937	6280.922	6270.095	6251.394	Sand
"GW-17"	2099614.145	7128715.937	6280.922	6251.394	6250.41	SM/SC
"GW-17"	2099614.145	7128715.937	6280.922	6250.41	6248.77	Sand
"GW-17"	2099614.145	7128715.937	6280.922	6248.77	6248.114	SM/SC
"GW-17"	2099614.145	7128715.937	6280.922	6248.114	6247.129	Sand
"GW-17"	2099614.145	7128715.937	6280.922	6247.129	6246.473	SM/SC
"GW-17"	2099614.145	7128715.937	6280.922	6246.473	6246.145	CL/ML
"GW-17"	2099614.145	7128715.937	6280.922	6246.145	6245.489	SM/SC
"GW-17"	2099614.145	7128715.937	6280.922	6245.489	6243.192	Sand
"GW-17"	2099614.145	7128715.937	6280.922	6243.192	6241.88	SM/SC
"GW-17"	2099614.145	7128715.937	6280.922	6241.88	6241.552	CL/ML
"GW-17"	2099614.145	7128715.937	6280.922	6241.552	6241.224	SM/SC
"GW-17"	2099614.145	7128715.937	6280.922	6241.224	6240.896	SM/SC
"GW-17"	2099614.145	7128715.937	6280.922	6240.896	6240.24	Sand
"GW-17"	2099614.145	7128715.937	6280.922	6240.24	6239.911	SM/SC
"GW-17"	2099614.145	7128715.937	6280.922	6239.911	6238.599	Sand
"GW-17"	2099614.145	7128715.937	6280.922	6238.599	6236.959	SM/SC
"GW-17"	2099614.145	7128715.937	6280.922	6236.959	6236.303	CL/ML
"GW-17"	2099614.145	7128715.937	6280.922	6236.303	6235.974	SM/SC
"GW-17"	2099614.145	7128715.937	6280.922	6235.974	6235.318	CL/ML
"GW-17"	2099614.145	7128715.937	6280.922	6235.318	6234.334	SM/SC
"GW-17"	2099614.145	7128715.937	6280.922	6234.334	6233.022	SM/SC
"GW-17"	2099614.145	7128715.937	6280.922	6233.022	6232.694	SM/SC
"GW-17"	2099614.145	7128715.937	6280.922	6232.694	6227.116	Sand
"GW-17"	2099614.145	7128715.937	6280.922	6227.116	6226.788	SM/SC
"GW-17"	2099614.145	7128715.937	6280.922	6226.788	6225.148	Sand
"GW-17"	2099614.145	7128715.937	6280.922	6225.148	6224.163	SM/SC
"GW-17"	2099614.145	7128715.937	6280.922	6224.163	6220.555	Sand
"GW-17"	2099614.145	7128715.937	6280.922	6220.555	6220.226	SM/SC
"GW-17"	2099614.145	7128715.937	6280.922	6220.226	6213.009	Sand
"GW-17"	2099614.145	7128715.937	6280.922	6213.009	6212.352	SM/SC
"GW-17"	2099614.145	7128715.937	6280.922	6212.352	6211.696	CL/ML
"GW-17"	2099614.145	7128715.937	6280.922	6211.696	6211.368	SM/SC
"GW-17"	2099614.145	7128715.937	6280.922	6211.368	6208.415	Sand
"GW-17"	2099614.145	7128715.937	6280.922	6208.415	6208.087	SM/SC
"GW-17"	2099614.145	7128715.937	6280.922	6208.087	6205.463	Sand
"GW-17"	2099614.145	7128715.937	6280.922	6205.463	6205.135	CL/ML
"GW-17"	2099614.145	7128715.937	6280.922	6205.135	6204.807	SM/SC
"GW-17"	2099614.145	7128715.937	6280.922	6204.807	6200.541	Sand
"GW-19"	2100536.454	7129115.242	6270.3	6265.379	6264.394	SM/SC
"GW-19"	2100536.454	7129115.242	6270.3	6264.394	6261.442	Sand
"GW-19"	2100536.454	7129115.242	6270.3	6261.442	6260.786	SM/SC
"GW-19"	2100536.454	7129115.242	6270.3	6260.786	6260.457	CL/ML
"GW-19"	2100536.454	7129115.242	6270.3	6260.457	6259.801	SM/SC
"GW-19"	2100536.454	7129115.242	6270.3	6259.801	6258.817	Sand
"GW-19"	2100536.454	7129115.242	6270.3	6258.817	6257.833	SM/SC
"GW-19"	2100536.454	7129115.242	6270.3	6257.833	6239.132	Sand
"GW-19"	2100536.454	7129115.242	6270.3	6239.132	6238.804	SM/SC
"GW-19"	2100536.454	7129115.242	6270.3	6238.804	6238.476	Sand
"GW-19"	2100536.454	7129115.242	6270.3	6238.476	6238.148	SM/SC

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"GW-19"	2100536.454	7129115.242	6270.3	6238.148	6237.164	Sand
"GW-19"	2100536.454	7129115.242	6270.3	6237.164	6234.211	SM/SC
"GW-19"	2100536.454	7129115.242	6270.3	6234.211	6233.883	CL/ML
"GW-19"	2100536.454	7129115.242	6270.3	6233.883	6232.242	SM/SC
"GW-19"	2100536.454	7129115.242	6270.3	6232.242	6230.602	Sand
"GW-19"	2100536.454	7129115.242	6270.3	6230.602	6229.289	SM/SC
"GW-19"	2100536.454	7129115.242	6270.3	6229.289	6227.977	Sand
"GW-19"	2100536.454	7129115.242	6270.3	6227.977	6227.321	SM/SC
"GW-19"	2100536.454	7129115.242	6270.3	6227.321	6226.993	CL/ML
"GW-19"	2100536.454	7129115.242	6270.3	6226.993	6226.009	SM/SC
"GW-19"	2100536.454	7129115.242	6270.3	6226.009	6221.744	Sand
"GW-19"	2100536.454	7129115.242	6270.3	6221.744	6219.447	SM/SC
"GW-19"	2100536.454	7129115.242	6270.3	6219.447	6219.119	CL/ML
"GW-19"	2100536.454	7129115.242	6270.3	6219.119	6217.478	SM/SC
"GW-19"	2100536.454	7129115.242	6270.3	6217.478	6216.166	Sand
"GW-19"	2100536.454	7129115.242	6270.3	6216.166	6215.51	SM/SC
"GW-19"	2100536.454	7129115.242	6270.3	6215.51	6203.043	Sand
"GW-19"	2100536.454	7129115.242	6270.3	6203.043	6202.715	SM/SC
"GW-19"	2100536.454	7129115.242	6270.3	6202.715	6197.137	Sand
"GW-19"	2100536.454	7129115.242	6270.3	6197.137	6196.809	SM/SC
"GW-19"	2100536.454	7129115.242	6270.3	6196.809	6196.153	Sand
"GW-19"	2100536.454	7129115.242	6270.3	6196.153	6195.825	SM/SC
"GW-19"	2100536.454	7129115.242	6270.3	6195.825	6193.528	Sand
"GW-19"	2100536.454	7129115.242	6270.3	6193.528	6193.2	SM/SC
"GW-19"	2100536.454	7129115.242	6270.3	6193.2	6190.904	CL/ML
"GW-19"	2100536.454	7129115.242	6270.3	6190.904	6190.576	SM/SC
"GW-19"	2100536.454	7129115.242	6270.3	6190.576	6189.919	Sand
"GW-21"	2100029.574	7129689.423	6275.1	6270.179	6249.838	Sand
"GW-21"	2100029.574	7129689.423	6275.1	6249.838	6249.509	SM/SC
"GW-21"	2100029.574	7129689.423	6275.1	6249.509	6240.651	Sand
"GW-21"	2100029.574	7129689.423	6275.1	6240.651	6239.995	SM/SC
"GW-21"	2100029.574	7129689.423	6275.1	6239.995	6239.339	Sand
"GW-21"	2100029.574	7129689.423	6275.1	6239.339	6239.011	SM/SC
"GW-21"	2100029.574	7129689.423	6275.1	6239.011	6228.84	Sand
"GW-21"	2100029.574	7129689.423	6275.1	6228.84	6228.512	SM/SC
"GW-21"	2100029.574	7129689.423	6275.1	6228.512	6218.341	Sand
"GW-21"	2100029.574	7129689.423	6275.1	6218.341	6216.701	SM/SC
"GW-21"	2100029.574	7129689.423	6275.1	6216.701	6213.42	Sand
"GW-21"	2100029.574	7129689.423	6275.1	6213.42	6213.092	SM/SC
"GW-21"	2100029.574	7129689.423	6275.1	6213.092	6211.78	CL/ML
"GW-21"	2100029.574	7129689.423	6275.1	6211.78	6211.452	SM/SC
"GW-21"	2100029.574	7129689.423	6275.1	6211.452	6211.124	Sand
"GW-21"	2100029.574	7129689.423	6275.1	6211.124	6210.467	SM/SC
"GW-21"	2100029.574	7129689.423	6275.1	6210.467	6210.139	Sand
"GW-21"	2100029.574	7129689.423	6275.1	6210.139	6209.811	SM/SC
"GW-21"	2100029.574	7129689.423	6275.1	6209.811	6209.483	Sand
"GW-21"	2100029.574	7129689.423	6275.1	6209.483	6209.155	SM/SC
"GW-21"	2100029.574	7129689.423	6275.1	6209.155	6208.827	Sand
"GW-21"	2100029.574	7129689.423	6275.1	6208.827	6207.843	SM/SC
"GW-21"	2100029.574	7129689.423	6275.1	6207.843	6207.515	CL/ML
"GW-21"	2100029.574	7129689.423	6275.1	6207.515	6202.265	Sand
"GW-21"	2100029.574	7129689.423	6275.1	6202.265	6201.937	SM/SC
"GW-21"	2100029.574	7129689.423	6275.1	6201.937	6201.609	CL/ML
"GW-21"	2100029.574	7129689.423	6275.1	6201.609	6199.969	CL/ML

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"GW-21"	2100029.574	7129689.423	6275.1	6199.969	6195.704	CL/ML
"GW-21"	2100029.574	7129689.423	6275.1	6195.704	6195.048	Sand
"JCPT1"	2101365.116	7129479.082	6268.182	6263.261	6259.98	Sand
"JCPT1"	2101365.116	7129479.082	6268.182	6259.98	6259.816	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6259.816	6258.996	Sand
"JCPT1"	2101365.116	7129479.082	6268.182	6258.996	6258.668	Sand
"JCPT1"	2101365.116	7129479.082	6268.182	6258.668	6244.068	Sand
"JCPT1"	2101365.116	7129479.082	6268.182	6244.068	6243.74	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6243.74	6243.576	Sand
"JCPT1"	2101365.116	7129479.082	6268.182	6243.576	6243.412	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6243.412	6242.92	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6242.92	6242.591	Sand
"JCPT1"	2101365.116	7129479.082	6268.182	6242.591	6241.935	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6241.935	6241.771	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6241.771	6239.967	Sand
"JCPT1"	2101365.116	7129479.082	6268.182	6239.967	6239.639	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6239.639	6238.983	Sand
"JCPT1"	2101365.116	7129479.082	6268.182	6238.983	6237.834	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6237.834	6237.67	Sand
"JCPT1"	2101365.116	7129479.082	6268.182	6237.67	6237.506	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6237.506	6237.342	Sand
"JCPT1"	2101365.116	7129479.082	6268.182	6237.342	6237.014	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6237.014	6236.522	CL/ML
"JCPT1"	2101365.116	7129479.082	6268.182	6236.522	6236.194	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6236.194	6236.03	Sand
"JCPT1"	2101365.116	7129479.082	6268.182	6236.03	6235.866	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6235.866	6235.538	CL/ML
"JCPT1"	2101365.116	7129479.082	6268.182	6235.538	6235.21	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6235.21	6235.046	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6235.046	6212.9	Sand
"JCPT1"	2101365.116	7129479.082	6268.182	6212.9	6211.916	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6211.916	6211.095	Sand
"JCPT1"	2101365.116	7129479.082	6268.182	6211.095	6210.931	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6210.931	6210.767	CL/ML
"JCPT1"	2101365.116	7129479.082	6268.182	6210.767	6210.439	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6210.439	6209.619	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6209.619	6209.455	CL/ML
"JCPT1"	2101365.116	7129479.082	6268.182	6209.455	6207.815	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6207.815	6207.651	CL/ML
"JCPT1"	2101365.116	7129479.082	6268.182	6207.651	6207.322	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6207.322	6206.666	Sand
"JCPT1"	2101365.116	7129479.082	6268.182	6206.666	6206.502	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6206.502	6206.338	CL/ML
"JCPT1"	2101365.116	7129479.082	6268.182	6206.338	6206.01	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6206.01	6204.698	Sand
"JCPT1"	2101365.116	7129479.082	6268.182	6204.698	6204.042	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6204.042	6203.878	CL/ML
"JCPT1"	2101365.116	7129479.082	6268.182	6203.878	6203.713	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6203.713	6203.221	Sand
"JCPT1"	2101365.116	7129479.082	6268.182	6203.221	6203.057	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6203.057	6202.893	CL/ML
"JCPT1"	2101365.116	7129479.082	6268.182	6202.893	6202.565	CL/ML
"JCPT1"	2101365.116	7129479.082	6268.182	6202.565	6202.401	CL/ML
"JCPT1"	2101365.116	7129479.082	6268.182	6202.401	6201.909	CL/ML

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"JCPT1"	2101365.116	7129479.082	6268.182	6201.909	6201.745	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6201.745	6199.612	Sand
"JCPT1"	2101365.116	7129479.082	6268.182	6199.612	6199.448	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6199.448	6199.284	Sand
"JCPT1"	2101365.116	7129479.082	6268.182	6199.284	6198.956	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6198.956	6198.3	Sand
"JCPT1"	2101365.116	7129479.082	6268.182	6198.3	6198.136	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6198.136	6197.808	Sand
"JCPT1"	2101365.116	7129479.082	6268.182	6197.808	6197.644	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6197.644	6197.316	Sand
"JCPT1"	2101365.116	7129479.082	6268.182	6197.316	6196.988	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6196.988	6196.66	Sand
"JCPT1"	2101365.116	7129479.082	6268.182	6196.66	6196.004	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6196.004	6195.347	Sand
"JCPT1"	2101365.116	7129479.082	6268.182	6195.347	6195.183	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6195.183	6193.543	CL/ML
"JCPT1"	2101365.116	7129479.082	6268.182	6193.543	6193.379	CL/ML
"JCPT1"	2101365.116	7129479.082	6268.182	6193.379	6193.051	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6193.051	6192.723	CL/ML
"JCPT1"	2101365.116	7129479.082	6268.182	6192.723	6189.278	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6189.278	6189.114	CL/ML
"JCPT1"	2101365.116	7129479.082	6268.182	6189.114	6188.95	CL/ML
"JCPT1"	2101365.116	7129479.082	6268.182	6188.95	6188.458	CL/ML
"JCPT1"	2101365.116	7129479.082	6268.182	6188.458	6188.13	CL/ML
"JCPT1"	2101365.116	7129479.082	6268.182	6188.13	6187.965	SM/SC
"JCPT1"	2101365.116	7129479.082	6268.182	6187.965	6185.177	Sand
"JCPT3"	2101474.577	7129118.55	6262.686	6257.765	6257.601	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6257.601	6255.96	Sand
"JCPT3"	2101474.577	7129118.55	6262.686	6255.96	6255.796	Sand
"JCPT3"	2101474.577	7129118.55	6262.686	6255.796	6254.976	Sand
"JCPT3"	2101474.577	7129118.55	6262.686	6254.976	6254.812	Sand
"JCPT3"	2101474.577	7129118.55	6262.686	6254.812	6240.048	Sand
"JCPT3"	2101474.577	7129118.55	6262.686	6240.048	6239.884	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6239.884	6239.556	Sand
"JCPT3"	2101474.577	7129118.55	6262.686	6239.556	6239.228	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6239.228	6238.572	CL/ML
"JCPT3"	2101474.577	7129118.55	6262.686	6238.572	6238.244	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6238.244	6237.916	CL/ML
"JCPT3"	2101474.577	7129118.55	6262.686	6237.916	6237.752	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6237.752	6237.424	Sand
"JCPT3"	2101474.577	7129118.55	6262.686	6237.424	6237.259	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6237.259	6237.095	Sand
"JCPT3"	2101474.577	7129118.55	6262.686	6237.095	6236.767	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6236.767	6235.947	Sand
"JCPT3"	2101474.577	7129118.55	6262.686	6235.947	6235.619	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6235.619	6234.963	Sand
"JCPT3"	2101474.577	7129118.55	6262.686	6234.963	6233.815	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6233.815	6233.158	Sand
"JCPT3"	2101474.577	7129118.55	6262.686	6233.158	6232.994	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6232.994	6232.83	CL/ML
"JCPT3"	2101474.577	7129118.55	6262.686	6232.83	6232.666	CL/ML
"JCPT3"	2101474.577	7129118.55	6262.686	6232.666	6232.338	CL/ML
"JCPT3"	2101474.577	7129118.55	6262.686	6232.338	6231.518	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6231.518	6231.354	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"JCPT3"	2101474.577	7129118.55	6262.686	6231.354	6231.19	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6231.19	6231.026	CL/ML
"JCPT3"	2101474.577	7129118.55	6262.686	6231.026	6230.698	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6230.698	6228.729	Sand
"JCPT3"	2101474.577	7129118.55	6262.686	6228.729	6228.565	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6228.565	6228.237	CL/ML
"JCPT3"	2101474.577	7129118.55	6262.686	6228.237	6228.073	CL/ML
"JCPT3"	2101474.577	7129118.55	6262.686	6228.073	6227.909	CL/ML
"JCPT3"	2101474.577	7129118.55	6262.686	6227.909	6227.417	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6227.417	6226.925	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6226.925	6226.105	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6226.105	6225.284	Sand
"JCPT3"	2101474.577	7129118.55	6262.686	6225.284	6225.12	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6225.12	6224.792	CL/ML
"JCPT3"	2101474.577	7129118.55	6262.686	6224.792	6224.628	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6224.628	6224.464	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6224.464	6220.035	Sand
"JCPT3"	2101474.577	7129118.55	6262.686	6220.035	6219.871	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6219.871	6219.215	Sand
"JCPT3"	2101474.577	7129118.55	6262.686	6219.215	6218.887	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6218.887	6218.723	Sand
"JCPT3"	2101474.577	7129118.55	6262.686	6218.723	6218.559	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6218.559	6218.395	CL/ML
"JCPT3"	2101474.577	7129118.55	6262.686	6218.395	6217.082	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6217.082	6199.202	Sand
"JCPT3"	2101474.577	7129118.55	6262.686	6199.202	6196.741	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6196.741	6196.413	Sand
"JCPT3"	2101474.577	7129118.55	6262.686	6196.413	6195.757	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6195.757	6195.101	CL/ML
"JCPT3"	2101474.577	7129118.55	6262.686	6195.101	6194.445	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6194.445	6194.28	CL/ML
"JCPT3"	2101474.577	7129118.55	6262.686	6194.28	6192.968	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6192.968	6192.476	CL/ML
"JCPT3"	2101474.577	7129118.55	6262.686	6192.476	6192.312	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6192.312	6192.148	Sand
"JCPT3"	2101474.577	7129118.55	6262.686	6192.148	6191.984	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6191.984	6191.164	CL/ML
"JCPT3"	2101474.577	7129118.55	6262.686	6191.164	6191	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6191	6189.687	Sand
"JCPT3"	2101474.577	7129118.55	6262.686	6189.687	6188.211	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6188.211	6188.047	CL/ML
"JCPT3"	2101474.577	7129118.55	6262.686	6188.047	6187.227	CL/ML
"JCPT3"	2101474.577	7129118.55	6262.686	6187.227	6185.914	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6185.914	6184.93	Sand
"JCPT3"	2101474.577	7129118.55	6262.686	6184.93	6184.274	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6184.274	6183.618	Sand
"JCPT3"	2101474.577	7129118.55	6262.686	6183.618	6183.454	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6183.454	6182.962	Sand
"JCPT3"	2101474.577	7129118.55	6262.686	6182.962	6182.305	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6182.305	6182.141	Sand
"JCPT3"	2101474.577	7129118.55	6262.686	6182.141	6180.993	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6180.993	6180.173	CL/ML
"JCPT3"	2101474.577	7129118.55	6262.686	6180.173	6180.009	SM/SC
"JCPT3"	2101474.577	7129118.55	6262.686	6180.009	6179.189	CL/ML

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"KMCPT1"	2099730.936	7129341.052	6276.55	6271.629	6271.137	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6271.137	6270.973	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6270.973	6270.809	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6270.809	6270.644	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6270.644	6270.316	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6270.316	6268.512	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6268.512	6268.348	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6268.348	6263.263	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6263.263	6263.099	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6263.099	6258.998	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6258.998	6258.833	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6258.833	6256.865	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6256.865	6256.701	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6256.701	6254.732	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6254.732	6254.568	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6254.568	6253.912	CL/ML
"KMCPT1"	2099730.936	7129341.052	6276.55	6253.912	6253.584	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6253.584	6253.42	CL/ML
"KMCPT1"	2099730.936	7129341.052	6276.55	6253.42	6253.256	CL/ML
"KMCPT1"	2099730.936	7129341.052	6276.55	6253.256	6253.092	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6253.092	6252.928	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6252.928	6252.6	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6252.6	6252.108	CL/ML
"KMCPT1"	2099730.936	7129341.052	6276.55	6252.108	6251.944	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6251.944	6251.78	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6251.78	6251.616	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6251.616	6251.452	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6251.452	6251.123	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6251.123	6250.959	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6250.959	6249.975	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6249.975	6249.647	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6249.647	6249.483	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6249.483	6248.991	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6248.991	6245.218	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6245.218	6244.726	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6244.726	6243.578	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6243.578	6243.249	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6243.249	6243.085	CL/ML
"KMCPT1"	2099730.936	7129341.052	6276.55	6243.085	6242.757	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6242.757	6237.672	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6237.672	6237.016	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6237.016	6234.883	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6234.883	6234.555	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6234.555	6234.227	CL/ML
"KMCPT1"	2099730.936	7129341.052	6276.55	6234.227	6234.063	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6234.063	6233.571	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6233.571	6233.243	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6233.243	6232.751	CL/ML
"KMCPT1"	2099730.936	7129341.052	6276.55	6232.751	6221.76	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6221.76	6221.596	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6221.596	6221.432	CL/ML
"KMCPT1"	2099730.936	7129341.052	6276.55	6221.432	6221.104	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6221.104	6220.94	CL/ML
"KMCPT1"	2099730.936	7129341.052	6276.55	6220.94	6220.284	CL/ML

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"KMCPT1"	2099730.936	7129341.052	6276.55	6220.284	6220.12	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6220.12	6216.675	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6216.675	6216.511	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6216.511	6216.347	CL/ML
"KMCPT1"	2099730.936	7129341.052	6276.55	6216.347	6215.854	CL/ML
"KMCPT1"	2099730.936	7129341.052	6276.55	6215.854	6215.362	CL/ML
"KMCPT1"	2099730.936	7129341.052	6276.55	6215.362	6215.198	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6215.198	6215.034	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6215.034	6214.214	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6214.214	6214.05	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6214.05	6213.886	CL/ML
"KMCPT1"	2099730.936	7129341.052	6276.55	6213.886	6213.722	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6213.722	6213.558	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6213.558	6212.902	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6212.902	6211.097	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6211.097	6210.933	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6210.933	6210.769	CL/ML
"KMCPT1"	2099730.936	7129341.052	6276.55	6210.769	6210.441	CL/ML
"KMCPT1"	2099730.936	7129341.052	6276.55	6210.441	6210.277	CL/ML
"KMCPT1"	2099730.936	7129341.052	6276.55	6210.277	6210.113	CL/ML
"KMCPT1"	2099730.936	7129341.052	6276.55	6210.113	6209.949	CL/ML
"KMCPT1"	2099730.936	7129341.052	6276.55	6209.949	6209.785	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6209.785	6207.488	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6207.488	6206.996	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6206.996	6206.668	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6206.668	6206.504	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6206.504	6206.176	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6206.176	6206.012	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6206.012	6205.52	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6205.52	6205.356	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6205.356	6204.536	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6204.536	6204.372	Sand
"KMCPT1"	2099730.936	7129341.052	6276.55	6204.372	6204.043	SM/SC
"KMCPT1"	2099730.936	7129341.052	6276.55	6204.043	6203.551	Sand
"LTB4"	2101040.707	7129819.81	6271.947	6267.026	6266.534	Sand
"LTB4"	2101040.707	7129819.81	6271.947	6266.534	6266.37	Sand
"LTB4"	2101040.707	7129819.81	6271.947	6266.37	6261.448	Sand
"LTB4"	2101040.707	7129819.81	6271.947	6261.448	6261.284	SM/SC
"LTB4"	2101040.707	7129819.81	6271.947	6261.284	6251.606	Sand
"LTB4"	2101040.707	7129819.81	6271.947	6251.606	6251.278	Sand
"LTB4"	2101040.707	7129819.81	6271.947	6251.278	6250.129	Sand
"LTB4"	2101040.707	7129819.81	6271.947	6250.129	6249.965	Sand
"LTB4"	2101040.707	7129819.81	6271.947	6249.965	6249.309	Sand
"LTB4"	2101040.707	7129819.81	6271.947	6249.309	6248.981	SM/SC
"LTB4"	2101040.707	7129819.81	6271.947	6248.981	6248.817	CL/ML
"LTB4"	2101040.707	7129819.81	6271.947	6248.817	6248.653	SM/SC
"LTB4"	2101040.707	7129819.81	6271.947	6248.653	6247.669	Sand
"LTB4"	2101040.707	7129819.81	6271.947	6247.669	6247.177	SM/SC
"LTB4"	2101040.707	7129819.81	6271.947	6247.177	6245.044	Sand
"LTB4"	2101040.707	7129819.81	6271.947	6245.044	6244.716	SM/SC
"LTB4"	2101040.707	7129819.81	6271.947	6244.716	6243.568	Sand
"LTB4"	2101040.707	7129819.81	6271.947	6243.568	6242.255	Sand
"LTB4"	2101040.707	7129819.81	6271.947	6242.255	6240.287	Sand
"LTB4"	2101040.707	7129819.81	6271.947	6240.287	6240.123	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"LTB4"	2101040.707	7129819.81	6271.947	6240.123	6235.038	Sand
"LTB4"	2101040.707	7129819.81	6271.947	6235.038	6234.709	Sand
"LTB4"	2101040.707	7129819.81	6271.947	6234.709	6232.741	Sand
"LTB4"	2101040.707	7129819.81	6271.947	6232.741	6232.249	SM/SC
"LTB4"	2101040.707	7129819.81	6271.947	6232.249	6230.772	Sand
"LTB4"	2101040.707	7129819.81	6271.947	6230.772	6230.116	Sand
"LTB4"	2101040.707	7129819.81	6271.947	6230.116	6229.952	Sand
"LTB4"	2101040.707	7129819.81	6271.947	6229.952	6229.46	Sand
"LTB4"	2101040.707	7129819.81	6271.947	6229.46	6225.359	Sand
"LTB4"	2101040.707	7129819.81	6271.947	6225.359	6225.195	SM/SC
"LTB4"	2101040.707	7129819.81	6271.947	6225.195	6225.031	CL/ML
"LTB4"	2101040.707	7129819.81	6271.947	6225.031	6224.703	SM/SC
"LTB4"	2101040.707	7129819.81	6271.947	6224.703	6224.375	Sand
"LTB4"	2101040.707	7129819.81	6271.947	6224.375	6224.211	SM/SC
"LTB4"	2101040.707	7129819.81	6271.947	6224.211	6224.047	CL/ML
"LTB4"	2101040.707	7129819.81	6271.947	6224.047	6223.883	SM/SC
"LTB4"	2101040.707	7129819.81	6271.947	6223.883	6219.29	Sand
"LTB4"	2101040.707	7129819.81	6271.947	6219.29	6219.125	SM/SC
"LTB4"	2101040.707	7129819.81	6271.947	6219.125	6217.813	Sand
"LTB4"	2101040.707	7129819.81	6271.947	6217.813	6217.485	SM/SC
"LTB4"	2101040.707	7129819.81	6271.947	6217.485	6217.321	CL/ML
"LTB4"	2101040.707	7129819.81	6271.947	6217.321	6217.157	SM/SC
"LTB4"	2101040.707	7129819.81	6271.947	6217.157	6216.829	CL/ML
"LTB4"	2101040.707	7129819.81	6271.947	6216.829	6216.337	SM/SC
"LTB4"	2101040.707	7129819.81	6271.947	6216.337	6215.681	CL/ML
"LTB4"	2101040.707	7129819.81	6271.947	6215.681	6215.353	CL/ML
"LTB4"	2101040.707	7129819.81	6271.947	6215.353	6215.188	CL/ML
"LTB4"	2101040.707	7129819.81	6271.947	6215.188	6214.368	SM/SC
"LTB4"	2101040.707	7129819.81	6271.947	6214.368	6212.4	Sand
"LTB4"	2101040.707	7129819.81	6271.947	6212.4	6211.908	SM/SC
"LTB4"	2101040.707	7129819.81	6271.947	6211.908	6211.744	Sand
"LTB4"	2101040.707	7129819.81	6271.947	6211.744	6211.58	SM/SC
"LTB4"	2101040.707	7129819.81	6271.947	6211.58	6210.923	Sand
"LTB4"	2101040.707	7129819.81	6271.947	6210.923	6210.759	SM/SC
"LTB4"	2101040.707	7129819.81	6271.947	6210.759	6208.791	Sand
"LTB4"	2101040.707	7129819.81	6271.947	6208.791	6208.627	SM/SC
"LTB4"	2101040.707	7129819.81	6271.947	6208.627	6208.463	CL/ML
"LTB4"	2101040.707	7129819.81	6271.947	6208.463	6205.018	CL/ML
"LTB4"	2101040.707	7129819.81	6271.947	6205.018	6204.854	SM/SC
"LTB4"	2101040.707	7129819.81	6271.947	6204.854	6191.895	Sand
"LTB4"	2101040.707	7129819.81	6271.947	6191.895	6191.566	Sand
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6268.922	6268.594	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6268.594	6265.969	Sand
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6265.969	6265.641	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6265.641	6264.985	CL/ML
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6264.985	6258.751	Sand
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6258.751	6258.423	Sand
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6258.423	6253.83	Sand
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6253.83	6252.518	Sand
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6252.518	6252.19	Sand
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6252.19	6249.893	Sand
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6249.893	6246.94	Sand
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6246.94	6246.284	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6246.284	6245.628	Sand

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6245.628	6244.972	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6244.972	6244.644	Sand
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6244.644	6244.316	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6244.316	6243.659	Sand
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6243.659	6243.331	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6243.331	6243.003	CL/ML
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6243.003	6242.675	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6242.675	6241.363	Sand
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6241.363	6240.707	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6240.707	6239.722	CL/ML
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6239.722	6238.41	Sand
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6238.41	6238.082	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6238.082	6237.754	CL/ML
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6237.754	6237.426	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6237.426	6234.801	Sand
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6234.801	6233.817	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6233.817	6233.489	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6233.489	6233.161	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6233.161	6231.848	Sand
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6231.848	6231.52	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6231.52	6230.864	Sand
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6230.864	6230.208	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6230.208	6229.552	Sand
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6229.552	6228.567	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6228.567	6225.615	Sand
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6225.615	6224.959	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6224.959	6223.318	CL/ML
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6223.318	6222.99	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6222.99	6204.289	Sand
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6204.289	6203.961	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6203.961	6203.633	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6203.633	6202.977	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6202.977	6202.649	CL/ML
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6202.649	6202.321	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6202.321	6201.008	Sand
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6201.008	6200.68	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6200.68	6200.352	CL/ML
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6200.352	6200.024	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6200.024	6199.696	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6199.696	6199.04	Sand
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6199.04	6198.712	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6198.712	6198.056	Sand
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6198.056	6196.743	Sand
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6196.743	6196.415	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6196.415	6195.759	Sand
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6195.759	6195.431	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6195.431	6194.775	CL/ML
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6194.775	6194.447	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6194.447	6192.806	Sand
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6192.806	6192.478	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6192.478	6192.15	CL/ML
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6192.15	6191.822	CL/ML
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6191.822	6191.494	SM/SC
"LTLW-GW-1"	2100379.683	7128861.121	6273.515	6191.494	6188.541	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6263.027	6259.91	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6259.91	6259.746	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6259.746	6258.598	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6258.598	6258.434	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6258.434	6245.966	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6245.966	6245.802	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6245.802	6244.654	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6244.654	6244.326	CL/ML
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6244.326	6244.162	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6244.162	6242.85	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6242.85	6242.686	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6242.686	6242.193	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6242.193	6242.029	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6242.029	6237.764	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6237.764	6237.436	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6237.436	6236.124	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6236.124	6235.96	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6235.96	6235.304	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6235.304	6234.812	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6234.812	6233.335	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6233.335	6233.171	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6233.171	6233.007	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6233.007	6232.843	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6232.843	6232.679	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6232.679	6232.515	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6232.515	6232.187	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6232.187	6232.023	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6232.023	6231.859	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6231.859	6231.367	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6231.367	6230.875	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6230.875	6230.054	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6230.054	6229.726	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6229.726	6229.398	CL/ML
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6229.398	6229.234	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6229.234	6228.742	CL/ML
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6228.742	6228.414	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6228.414	6228.25	CL/ML
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6228.25	6227.43	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6227.43	6227.266	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6227.266	6227.102	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6227.102	6226.937	CL/ML
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6226.937	6226.773	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6226.773	6226.281	CL/ML
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6226.281	6225.789	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6225.789	6221.852	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6221.852	6221.688	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6221.688	6221.524	CL/ML
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6221.524	6221.196	CL/ML
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6221.196	6220.704	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6220.704	6220.54	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6220.54	6220.376	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6220.376	6220.212	CL/ML
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6220.212	6220.048	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6220.048	6219.884	SM/SC

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6219.884	6219.72	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6219.72	6219.556	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6219.556	6219.063	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6219.063	6218.899	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6218.899	6218.571	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6218.571	6218.407	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6218.407	6217.915	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6217.915	6217.751	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6217.751	6217.095	CL/ML
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6217.095	6216.931	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6216.931	6216.767	CL/ML
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6216.767	6216.439	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6216.439	6216.275	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6216.275	6216.111	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6216.111	6215.947	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6215.947	6215.455	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6215.455	6215.291	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6215.291	6215.126	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6215.126	6212.502	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6212.502	6212.174	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6212.174	6211.846	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6211.846	6211.518	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6211.518	6211.354	CL/ML
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6211.354	6211.189	CL/ML
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6211.189	6208.237	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6208.237	6207.745	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6207.745	6206.924	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6206.924	6206.76	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6206.76	6205.612	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6205.612	6205.448	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6205.448	6204.628	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6204.628	6203.151	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6203.151	6201.675	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6201.675	6200.527	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6200.527	6198.394	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6198.394	6198.066	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6198.066	6197.574	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6197.574	6197.246	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6197.246	6196.918	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6196.918	6195.934	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6195.934	6195.113	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6195.113	6194.949	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6194.949	6194.621	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6194.621	6194.129	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6194.129	6193.965	CL/ML
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6193.965	6193.801	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6193.801	6193.473	Sand
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6193.473	6192.817	SM/SC
"LTLW-GW-11"	2100844.09	7128980.323	6267.948	6192.817	6192.489	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6267.026	6266.698	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6266.698	6266.042	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6266.042	6265.713	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6265.713	6265.385	SM/SC
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6265.385	6265.057	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6265.057	6264.073	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6264.073	6263.417	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6263.417	6261.776	SM/SC
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6261.776	6261.12	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6261.12	6260.792	CL/ML
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6260.792	6260.464	SM/SC
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6260.464	6253.902	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6253.902	6253.574	CL/ML
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6253.574	6252.918	SM/SC
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6252.918	6252.262	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6252.262	6251.606	SM/SC
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6251.606	6250.95	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6250.95	6250.622	SM/SC
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6250.622	6250.294	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6250.294	6249.965	SM/SC
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6249.965	6242.42	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6242.42	6242.091	SM/SC
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6242.091	6238.483	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6238.483	6237.826	SM/SC
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6237.826	6237.498	CL/ML
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6237.498	6236.186	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6236.186	6235.858	SM/SC
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6235.858	6234.546	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6234.546	6234.217	SM/SC
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6234.217	6233.889	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6233.889	6232.905	CL/ML
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6232.905	6232.577	SM/SC
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6232.577	6230.937	CL/ML
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6230.937	6230.608	CL/ML
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6230.608	6230.28	SM/SC
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6230.28	6229.952	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6229.952	6229.624	SM/SC
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6229.624	6228.968	CL/ML
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6228.968	6227.984	SM/SC
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6227.984	6227.656	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6227.656	6227.328	SM/SC
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6227.328	6226.015	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6226.015	6225.687	SM/SC
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6225.687	6224.047	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6224.047	6223.719	SM/SC
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6223.719	6221.75	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6221.75	6221.422	SM/SC
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6221.422	6221.094	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6221.094	6220.438	SM/SC
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6220.438	6209.611	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6209.611	6209.283	SM/SC
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6209.283	6207.643	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6207.643	6206.986	SM/SC
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6206.986	6205.018	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6205.018	6204.362	SM/SC
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6204.362	6202.393	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6202.393	6200.753	SM/SC
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6200.753	6196.816	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6196.816	6196.488	SM/SC

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6196.488	6196.16	CL/ML
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6196.16	6195.832	SM/SC
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6195.832	6195.175	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6195.175	6194.847	SM/SC
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6194.847	6193.863	CL/ML
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6193.863	6193.207	SM/SC
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6193.207	6192.551	SM/SC
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6192.551	6191.567	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6191.567	6190.91	CL/ML
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6190.91	6190.582	SM/SC
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6190.582	6189.598	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6189.598	6189.27	SM/SC
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6189.27	6187.958	Sand
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6187.958	6186.973	CL/ML
"LTLW-GW-2"	2100267.821	7128642.019	6271.619	6186.973	6186.645	SM/SC
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6265.959	6265.631	SM/SC
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6265.631	6248.898	Sand
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6248.898	6247.914	Sand
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6247.914	6245.946	Sand
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6245.946	6245.29	Sand
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6245.29	6244.305	Sand
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6244.305	6243.977	SM/SC
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6243.977	6242.993	Sand
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6242.993	6242.009	SM/SC
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6242.009	6241.681	Sand
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6241.681	6241.024	SM/SC
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6241.024	6240.696	SM/SC
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6240.696	6240.04	Sand
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6240.04	6238.728	SM/SC
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6238.728	6238.4	SM/SC
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6238.4	6236.759	Sand
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6236.759	6236.431	SM/SC
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6236.431	6229.213	Sand
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6229.213	6228.885	SM/SC
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6228.885	6227.901	SM/SC
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6227.901	6226.917	Sand
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6226.917	6226.589	SM/SC
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6226.589	6221.052	Sand
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6226.261	6221.011	Sand
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6221.011	6220.355	SM/SC
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6220.355	6215.434	Sand
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6215.434	6215.106	SM/SC
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6215.106	6208.216	Sand
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6208.216	6207.888	SM/SC
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6207.888	6204.279	Sand
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6204.279	6203.623	SM/SC
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6203.623	6202.967	Sand
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6202.967	6202.639	SM/SC
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6202.639	6202.311	SM/SC
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6202.311	6201.982	Sand
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6201.982	6201.654	SM/SC
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6201.654	6198.045	Sand
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6198.045	6197.717	SM/SC
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6197.717	6197.389	CL/ML

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6197.389	6196.733	Sand
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6196.733	6196.077	Sand
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6196.077	6194.765	SM/SC
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6194.765	6194.437	CL/ML
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6194.437	6193.78	SM/SC
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6193.78	6193.452	Sand
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6193.452	6193.124	SM/SC
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6193.124	6192.796	CL/ML
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6192.796	6192.468	SM/SC
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6192.468	6187.875	Sand
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6187.875	6186.234	SM/SC
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6186.234	6185.906	Sand
"LTLW-GW-6"	2100510.392	7128952.828	6270.552	6185.906	6185.578	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6264.978	6263.829	Sand
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6263.829	6262.025	Sand
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6262.025	6261.697	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6261.697	6250.378	Sand
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6250.378	6250.214	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6250.214	6249.558	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6249.558	6249.394	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6249.394	6249.23	Sand
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6249.23	6248.574	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6248.574	6248.409	Sand
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6248.409	6248.245	CL/ML
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6248.245	6248.081	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6248.081	6247.425	Sand
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6247.425	6247.261	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6247.261	6240.371	Sand
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6240.371	6240.207	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6240.207	6240.043	Sand
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6240.043	6239.715	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6239.715	6239.551	CL/ML
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6239.551	6239.387	CL/ML
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6239.387	6239.059	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6239.059	6235.614	Sand
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6235.614	6235.45	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6235.45	6235.122	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6235.122	6234.466	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6234.466	6234.302	Sand
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6234.302	6234.138	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6234.138	6233.974	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6233.974	6233.81	Sand
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6233.81	6233.318	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6233.318	6232.826	Sand
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6232.826	6232.661	Sand
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6232.661	6231.513	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6231.513	6231.349	CL/ML
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6231.349	6231.185	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6231.185	6230.857	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6230.857	6230.037	Sand
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6230.037	6229.873	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6229.873	6229.709	CL/ML
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6229.709	6229.381	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6229.381	6229.053	CL/ML

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6229.053	6228.724	CL/ML
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6228.724	6228.232	CL/ML
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6228.232	6228.068	CL/ML
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6228.068	6227.904	CL/ML
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6227.904	6227.248	Sand
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6227.248	6226.428	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6226.428	6225.444	Sand
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6225.444	6225.28	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6225.28	6224.787	CL/ML
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6224.787	6224.295	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6224.295	6223.639	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6223.639	6221.671	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6221.671	6221.507	CL/ML
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6221.507	6221.179	CL/ML
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6221.179	6220.686	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6220.686	6220.358	CL/ML
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6220.358	6219.702	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6219.702	6219.374	Sand
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6219.374	6217.734	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6217.734	6217.57	Sand
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6217.57	6217.242	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6217.242	6216.913	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6216.913	6216.257	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6216.257	6215.601	Sand
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6215.601	6215.109	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6215.109	6209.039	Sand
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6209.039	6208.875	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6208.875	6208.547	Sand
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6208.547	6207.891	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6207.891	6207.399	Sand
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6207.399	6207.071	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6207.071	6206.907	Sand
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6206.907	6206.579	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6206.579	6205.102	Sand
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6205.102	6204.938	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6204.938	6203.79	Sand
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6203.79	6203.626	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6203.626	6198.869	Sand
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6198.869	6198.705	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6198.705	6193.619	Sand
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6193.619	6191.323	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6191.323	6190.667	Sand
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6190.667	6190.339	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6190.339	6190.175	CL/ML
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6190.175	6189.847	CL/ML
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6189.847	6188.862	SM/SC
"LTLW-GW-9"	2100738.838	7128819.733	6269.899	6188.862	6186.238	Sand
"OS-3"	2101271.738	7128473.535	6270.852	6265.931	6265.603	Sand
"OS-3"	2101271.738	7128473.535	6270.852	6265.603	6262.814	Sand
"OS-3"	2101271.738	7128473.535	6270.852	6262.814	6262.158	Sand
"OS-3"	2101271.738	7128473.535	6270.852	6262.158	6261.666	Sand
"OS-3"	2101271.738	7128473.535	6270.852	6261.666	6261.174	Sand
"OS-3"	2101271.738	7128473.535	6270.852	6261.174	6260.517	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6260.517	6259.861	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"OS-3"	2101271.738	7128473.535	6270.852	6259.861	6259.533	Sand
"OS-3"	2101271.738	7128473.535	6270.852	6259.533	6259.041	Sand
"OS-3"	2101271.738	7128473.535	6270.852	6259.041	6257.401	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6257.401	6256.908	CL/ML
"OS-3"	2101271.738	7128473.535	6270.852	6256.908	6256.088	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6256.088	6253.464	Sand
"OS-3"	2101271.738	7128473.535	6270.852	6253.464	6252.479	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6252.479	6251.823	Sand
"OS-3"	2101271.738	7128473.535	6270.852	6251.823	6251.495	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6251.495	6251.331	Sand
"OS-3"	2101271.738	7128473.535	6270.852	6251.331	6251.003	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6251.003	6248.706	Sand
"OS-3"	2101271.738	7128473.535	6270.852	6248.706	6248.542	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6248.542	6248.214	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6248.214	6248.05	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6248.05	6244.441	Sand
"OS-3"	2101271.738	7128473.535	6270.852	6244.441	6244.277	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6244.277	6243.949	CL/ML
"OS-3"	2101271.738	7128473.535	6270.852	6243.949	6243.621	CL/ML
"OS-3"	2101271.738	7128473.535	6270.852	6243.621	6241.324	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6241.324	6240.996	Sand
"OS-3"	2101271.738	7128473.535	6270.852	6240.996	6240.832	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6240.832	6240.34	CL/ML
"OS-3"	2101271.738	7128473.535	6270.852	6240.34	6240.176	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6240.176	6238.864	Sand
"OS-3"	2101271.738	7128473.535	6270.852	6238.864	6238.372	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6238.372	6237.059	Sand
"OS-3"	2101271.738	7128473.535	6270.852	6237.059	6236.731	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6236.731	6235.091	CL/ML
"OS-3"	2101271.738	7128473.535	6270.852	6235.091	6234.927	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6234.927	6234.599	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6234.599	6234.271	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6234.271	6228.693	Sand
"OS-3"	2101271.738	7128473.535	6270.852	6228.693	6228.529	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6228.529	6228.201	Sand
"OS-3"	2101271.738	7128473.535	6270.852	6228.201	6226.889	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6226.889	6226.725	CL/ML
"OS-3"	2101271.738	7128473.535	6270.852	6226.725	6226.561	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6226.561	6223.772	Sand
"OS-3"	2101271.738	7128473.535	6270.852	6223.772	6223.444	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6223.444	6222.952	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6222.952	6222.132	Sand
"OS-3"	2101271.738	7128473.535	6270.852	6222.132	6221.475	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6221.475	6220.819	Sand
"OS-3"	2101271.738	7128473.535	6270.852	6220.819	6219.999	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6219.999	6219.507	Sand
"OS-3"	2101271.738	7128473.535	6270.852	6219.507	6218.851	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6218.851	6218.687	CL/ML
"OS-3"	2101271.738	7128473.535	6270.852	6218.687	6218.523	CL/ML
"OS-3"	2101271.738	7128473.535	6270.852	6218.523	6218.03	CL/ML
"OS-3"	2101271.738	7128473.535	6270.852	6218.03	6217.538	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6217.538	6216.226	CL/ML
"OS-3"	2101271.738	7128473.535	6270.852	6216.226	6216.062	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6216.062	6215.898	CL/ML

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"OS-3"	2101271.738	7128473.535	6270.852	6215.898	6215.078	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6215.078	6212.945	Sand
"OS-3"	2101271.738	7128473.535	6270.852	6212.945	6212.125	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6212.125	6211.797	Sand
"OS-3"	2101271.738	7128473.535	6270.852	6211.797	6210.977	SM/SC
"OS-3"	2101271.738	7128473.535	6270.852	6210.977	6210.321	Sand
"SONIC 14"	2107293.73	7129763.24	6231.09	6229.09	6228.09	Sand
"SONIC 14"	2107293.73	7129763.24	6231.09	6228.09	6227.09	Sand
"SONIC 14"	2107293.73	7129763.24	6231.09	6227.09	6226.09	Sand
"SONIC 14"	2107293.73	7129763.24	6231.09	6226.09	6221.09	Sand
"SONIC 14"	2107293.73	7129763.24	6231.09	6221.09	6220.09	Sand
"SONIC 14"	2107293.73	7129763.24	6231.09	6220.09	6212.09	Sand
"SONIC 14"	2107293.73	7129763.24	6231.09	6212.09	6199.59	Sand
"SONIC 14"	2107293.73	7129763.24	6231.09	6199.59	6189.09	SM/SC
"SONIC 14"	2107293.73	7129763.24	6231.09	6189.09	6181.59	Sand
"SONIC 14"	2107293.73	7129763.24	6231.09	6181.59	6171.09	Sand
"SONIC 14"	2107293.73	7129763.24	6231.09	6171.09	6166.09	Sand
"SONIC 14"	2107293.73	7129763.24	6231.09	6166.09	6148.09	Sand
"SONIC 14"	2107293.73	7129763.24	6231.09	6148.09	6144.09	Sand
"SONIC 14"	2107293.73	7129763.24	6231.09	6144.09	6128.59	Sand
"SONIC 14"	2107293.73	7129763.24	6231.09	6128.59	6121.09	Sand
"SONIC 14"	2107293.73	7129763.24	6231.09	6121.09	6103.09	Sand
"SONIC 14"	2107293.73	7129763.24	6231.09	6103.09	6099.09	SM/SC
"SONIC 14"	2107293.73	7129763.24	6231.09	6099.09	6077.09	Sand
"SONIC 14"	2107293.73	7129763.24	6231.09	6077.09	6061.09	Sand
"SONIC 14"	2107293.73	7129763.24	6231.09	6061.09	6060.09	Sand
"SONIC 14"	2107293.73	7129763.24	6231.09	6060.09	6058.59	Interbedded
"SONIC 14"	2107293.73	7129763.24	6231.09	6058.59	6056.59	Sand
"SONIC 14"	2107293.73	7129763.24	6231.09	6056.59	6056.09	CL/ML
"SONIC 14"	2107293.73	7129763.24	6231.09	6056.09	6034.09	Sand
"SONIC 14"	2107293.73	7129763.24	6231.09	6034.09	6009.09	Interbedded
"SONIC 14"	2107293.73	7129763.24	6231.09	6009.09	5998.09	Sand
"SONIC 14"	2107293.73	7129763.24	6231.09	5998.09	5993.09	Interbedded
"SONIC 14"	2107293.73	7129763.24	6231.09	5993.09	5971.09	Sand
"SONIC 14"	2107293.73	7129763.24	6231.09	5971.09	5961.09	Interbedded
"SONIC 14"	2107293.73	7129763.24	6231.09	5961.09	5926.59	Sand
"SONIC 14"	2107293.73	7129763.24	6231.09	5926.59	5924.09	Interbedded
"SONIC 14"	2107293.73	7129763.24	6231.09	5924.09	5916.09	Interbedded
"SONIC 15"	2106019.3	7130302.49	6239.45	6237.95	6236.95	SM/SC
"SONIC 15"	2106019.3	7130302.49	6239.45	6236.95	6236.45	SM/SC
"SONIC 15"	2106019.3	7130302.49	6239.45	6236.45	6235.45	Sand
"SONIC 15"	2106019.3	7130302.49	6239.45	6235.45	6231.45	Sand
"SONIC 15"	2106019.3	7130302.49	6239.45	6231.45	6225.45	Sand
"SONIC 15"	2106019.3	7130302.49	6239.45	6225.45	6224.45	Sand
"SONIC 15"	2106019.3	7130302.49	6239.45	6224.45	6212.45	Sand
"SONIC 15"	2106019.3	7130302.49	6239.45	6212.45	6210.95	Interbedded
"SONIC 15"	2106019.3	7130302.49	6239.45	6210.95	6204.45	Sand
"SONIC 15"	2106019.3	7130302.49	6239.45	6204.45	6198.95	Interbedded
"SONIC 15"	2106019.3	7130302.49	6239.45	6198.95	6188.45	Sand
"SONIC 15"	2106019.3	7130302.49	6239.45	6188.45	6178.95	Sand
"SONIC 15"	2106019.3	7130302.49	6239.45	6178.95	6178.45	CL/ML
"SONIC 15"	2106019.3	7130302.49	6239.45	6178.45	6177.45	Sand
"SONIC 15"	2106019.3	7130302.49	6239.45	6177.45	6174.45	Sand
"SONIC 15"	2106019.3	7130302.49	6239.45	6174.45	6169.45	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"SONIC 15"	2106019.3	7130302.49	6239.45	6169.45	6154.95	Sand
"SONIC 15"	2106019.3	7130302.49	6239.45	6154.95	6150.95	Sand
"SONIC 15"	2106019.3	7130302.49	6239.45	6150.95	6149.45	Interbedded
"SONIC 15"	2106019.3	7130302.49	6239.45	6149.45	6145.45	Sand
"SONIC 15"	2106019.3	7130302.49	6239.45	6145.45	6138.95	Sand
"SONIC 15"	2106019.3	7130302.49	6239.45	6138.95	6134.45	CL/ML
"SONIC 15"	2106019.3	7130302.49	6239.45	6134.45	6128.45	Sand
"SONIC 15"	2106019.3	7130302.49	6239.45	6128.45	6127.95	SM/SC
"SONIC 15"	2106019.3	7130302.49	6239.45	6127.95	6125.95	Sand
"SONIC 15"	2106019.3	7130302.49	6239.45	6125.95	6124.45	CL/ML
"SONIC 15"	2106019.3	7130302.49	6239.45	6124.45	6108.45	Sand
"SONIC 15"	2106019.3	7130302.49	6239.45	6108.45	6106.95	Interbedded
"SONIC 15"	2106019.3	7130302.49	6239.45	6106.95	6103.95	Sand
"SONIC 15"	2106019.3	7130302.49	6239.45	6103.95	6097.95	Sand
"SONIC 15"	2106019.3	7130302.49	6239.45	6097.95	6089.95	Sand
"SONIC 15"	2106019.3	7130302.49	6239.45	6089.95	6085.45	CL/ML
"SONIC 15"	2106019.3	7130302.49	6239.45	6085.45	6074.45	CL/ML
"SONIC 15"	2106019.3	7130302.49	6239.45	6074.45	6072.45	Sand
"SONIC 15"	2106019.3	7130302.49	6239.45	6072.45	6070.95	Sand
"SONIC 15"	2106019.3	7130302.49	6239.45	6070.95	6067.95	Sand
"SONIC 15"	2106019.3	7130302.49	6239.45	6067.95	6063.45	Sand
"SONIC 15"	2106019.3	7130302.49	6239.45	6063.45	6057.45	Interbedded
"SONIC 15"	2106019.3	7130302.49	6239.45	6057.45	6029.45	Sand
"SONIC 15"	2106019.3	7130302.49	6239.45	6029.45	6012.45	Sand
"SONIC 15"	2106019.3	7130302.49	6239.45	6012.45	6008.45	Sand
"SONIC 15"	2106019.3	7130302.49	6239.45	6008.45	5994.45	Sand
"SONIC 16"	2104856.15	7130694.51	6239.95	6239.95	6229.45	Sand
"SONIC 16"	2104856.15	7130694.51	6239.95	6229.45	6224.95	Sand
"SONIC 16"	2104856.15	7130694.51	6239.95	6224.95	6222.95	SM/SC
"SONIC 16"	2104856.15	7130694.51	6239.95	6222.95	6216.45	SM/SC
"SONIC 16"	2104856.15	7130694.51	6239.95	6216.45	6214.95	SM/SC
"SONIC 16"	2104856.15	7130694.51	6239.95	6214.95	6210.45	SM/SC
"SONIC 16"	2104856.15	7130694.51	6239.95	6210.45	6198.95	Sand
"SONIC 16"	2104856.15	7130694.51	6239.95	6198.95	6195.45	SM/SC
"SONIC 16"	2104856.15	7130694.51	6239.95	6195.45	6189.95	SM/SC
"SONIC 16"	2104856.15	7130694.51	6239.95	6189.95	6178.95	Sand
"SONIC 16"	2104856.15	7130694.51	6239.95	6178.95	6171.45	Sand
"SONIC 16"	2104856.15	7130694.51	6239.95	6171.45	6170.95	SM/SC
"SONIC 16"	2104856.15	7130694.51	6239.95	6170.95	6160.95	Sand
"SONIC 16"	2104856.15	7130694.51	6239.95	6160.95	6155.95	SM/SC
"SONIC 16"	2104856.15	7130694.51	6239.95	6155.95	6153.95	Sand
"SONIC 16"	2104856.15	7130694.51	6239.95	6153.95	6149.95	SM/SC
"SONIC 16"	2104856.15	7130694.51	6239.95	6149.95	6144.95	CL/ML
"SONIC 16"	2104856.15	7130694.51	6239.95	6144.95	6139.95	SM/SC
"SONIC 16"	2104856.15	7130694.51	6239.95	6139.95	6128.95	Sand
"SONIC 16"	2104856.15	7130694.51	6239.95	6128.95	6112.65	SM/SC
"SONIC 16"	2104856.15	7130694.51	6239.95	6112.65	6098.45	SM/SC
"SONIC 16"	2104856.15	7130694.51	6239.95	6098.45	6089.95	CL/ML
"SONIC 16"	2104856.15	7130694.51	6239.95	6089.95	6080.45	CL/ML
"SONIC 16"	2104856.15	7130694.51	6239.95	6080.45	6075.45	SM/SC
"SONIC 16"	2104856.15	7130694.51	6239.95	6075.7	6074.95	Sand
"SONIC 16"	2104856.15	7130694.51	6239.95	6074.95	6053.45	SM/SC
"SONIC 16"	2104856.15	7130694.51	6239.95	6053.45	6039.95	SM/SC
"SONIC 16"	2104856.15	7130694.51	6239.95	6039.95	6034.95	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"SONIC 16"	2104856.15	7130694.51	6239.95	6034.95	6025.95	SM/SC
"SONIC 16"	2104856.15	7130694.51	6239.95	6025.95	6019.95	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6230.28	6220.28	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6220.28	6219.28	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6219.28	6218.78	SM/SC
"SONIC 17"	2105252.99	7128902.05	6230.28	6218.78	6208.78	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6208.78	6205.28	CL/ML
"SONIC 17"	2105252.99	7128902.05	6230.28	6205.28	6203.78	SM/SC
"SONIC 17"	2105252.99	7128902.05	6230.28	6203.78	6201.28	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6201.28	6200.28	Gravel
"SONIC 17"	2105252.99	7128902.05	6230.28	6200.28	6199.78	SM/SC
"SONIC 17"	2105252.99	7128902.05	6230.28	6199.78	6196.78	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6196.78	6195.28	SM/SC
"SONIC 17"	2105252.99	7128902.05	6230.28	6195.28	6190.78	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6190.78	6190.28	SM/SC
"SONIC 17"	2105252.99	7128902.05	6230.28	6190.28	6185.78	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6185.78	6185.28	SM/SC
"SONIC 17"	2105252.99	7128902.05	6230.28	6185.28	6184.78	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6184.78	6180.28	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6180.28	6178.28	SM/SC
"SONIC 17"	2105252.99	7128902.05	6230.28	6178.28	6162.28	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6162.28	6160.28	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6160.28	6158.28	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6158.28	6157.28	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6157.28	6156.28	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6156.28	6154.78	SM/SC
"SONIC 17"	2105252.99	7128902.05	6230.28	6154.78	6150.28	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6150.28	6147.28	SM/SC
"SONIC 17"	2105252.99	7128902.05	6230.28	6147.28	6137.78	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6137.78	6134.28	SM/SC
"SONIC 17"	2105252.99	7128902.05	6230.28	6134.28	6132.11	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6132.11	6125.28	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6125.28	6115.78	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6115.78	6115.28	CL/ML
"SONIC 17"	2105252.99	7128902.05	6230.28	6115.28	6110.28	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6110.28	6108.28	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6108.28	6105.28	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6105.28	6095.28	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6095.28	6092.28	SM/SC
"SONIC 17"	2105252.99	7128902.05	6230.28	6092.28	6089.28	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6089.28	6077.78	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6077.78	6075.28	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6075.28	6071.78	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6071.78	6065.28	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6065.28	6064.28	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6064.28	6060.28	SM/SC
"SONIC 17"	2105252.99	7128902.05	6230.28	6060.28	6045.78	CL/ML
"SONIC 17"	2105252.99	7128902.05	6230.28	6045.78	6043.78	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6043.78	6043.28	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6043.28	6038.78	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6038.78	6035.78	SM/SC
"SONIC 17"	2105252.99	7128902.05	6230.28	6035.78	6035.28	CL/ML
"SONIC 17"	2105252.99	7128902.05	6230.28	6035.28	6032.28	Sand
"SONIC 17"	2105252.99	7128902.05	6230.28	6032.28	6010.28	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"SONIC 18"	2103112.79	7125458.39	6289.37	6289.37	6279.37	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6279.37	6278.87	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6278.87	6276.37	SM/SC
"SONIC 18"	2103112.79	7125458.39	6289.37	6276.37	6275.37	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6275.37	6274.37	CL/ML
"SONIC 18"	2103112.79	7125458.39	6289.37	6274.37	6269.37	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6269.37	6268.87	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6268.87	6267.37	SM/SC
"SONIC 18"	2103112.79	7125458.39	6289.37	6267.37	6260.37	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6260.37	6256.62	SM/SC
"SONIC 18"	2103112.79	7125458.39	6289.37	6256.62	6254.87	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6254.87	6251.37	SM/SC
"SONIC 18"	2103112.79	7125458.39	6289.37	6251.37	6249.37	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6249.37	6245.37	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6245.37	6244.37	SM/SC
"SONIC 18"	2103112.79	7125458.39	6289.37	6244.37	6239.37	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6239.37	6234.37	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6234.37	6227.87	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6227.87	6219.37	SM/SC
"SONIC 18"	2103112.79	7125458.39	6289.37	6219.37	6213.87	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6213.87	6209.37	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6209.37	6208.62	SM/SC
"SONIC 18"	2103112.79	7125458.39	6289.37	6208.62	6207.87	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6207.87	6207.37	SM/SC
"SONIC 18"	2103112.79	7125458.39	6289.37	6207.37	6204.37	SM/SC
"SONIC 18"	2103112.79	7125458.39	6289.37	6204.37	6201.87	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6201.87	6196.37	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6196.37	6192.37	SM/SC
"SONIC 18"	2103112.79	7125458.39	6289.37	6192.37	6189.87	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6189.87	6188.62	SM/SC
"SONIC 18"	2103112.79	7125458.39	6289.37	6188.62	6185.87	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6185.87	6174.37	SM/SC
"SONIC 18"	2103112.79	7125458.39	6289.37	6174.37	6160.37	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6160.37	6158.87	SM/SC
"SONIC 18"	2103112.79	7125458.39	6289.37	6158.87	6156.87	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6156.87	6154.37	SM/SC
"SONIC 18"	2103112.79	7125458.39	6289.37	6154.37	6151.37	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6151.37	6150.37	SM/SC
"SONIC 18"	2103112.79	7125458.39	6289.37	6150.37	6143.37	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6143.37	6138.37	SM/SC
"SONIC 18"	2103112.79	7125458.39	6289.37	6138.37	6137.62	CL/ML
"SONIC 18"	2103112.79	7125458.39	6289.37	6137.62	6136.62	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6136.62	6135.87	CL/ML
"SONIC 18"	2103112.79	7125458.39	6289.37	6135.87	6131.37	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6131.37	6129.37	CL/ML
"SONIC 18"	2103112.79	7125458.39	6289.37	6129.37	6127.87	SM/SC
"SONIC 18"	2103112.79	7125458.39	6289.37	6127.87	6127.37	CL/ML
"SONIC 18"	2103112.79	7125458.39	6289.37	6127.37	6126.37	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6126.37	6125.37	SM/SC
"SONIC 18"	2103112.79	7125458.39	6289.37	6125.37	6123.37	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6123.37	6118.87	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6118.87	6114.37	SM/SC
"SONIC 18"	2103112.79	7125458.39	6289.37	6114.37	6104.37	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6104.37	6101.87	SM/SC

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"SONIC 18"	2103112.79	7125458.39	6289.37	6101.87	6099.87	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6099.87	6087.37	SM/SC
"SONIC 18"	2103112.79	7125458.39	6289.37	6087.37	6084.37	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6084.37	6079.37	SM/SC
"SONIC 18"	2103112.79	7125458.39	6289.37	6079.37	6076.37	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6076.37	6074.37	SM/SC
"SONIC 18"	2103112.79	7125458.39	6289.37	6074.37	6073.87	SM/SC
"SONIC 18"	2103112.79	7125458.39	6289.37	6073.87	6068.87	SM/SC
"SONIC 18"	2103112.79	7125458.39	6289.37	6068.87	6066.87	SM/SC
"SONIC 18"	2103112.79	7125458.39	6289.37	6066.87	6060.87	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6060.87	6059.62	SM/SC
"SONIC 18"	2103112.79	7125458.39	6289.37	6059.62	6058.12	SM/SC
"SONIC 18"	2103112.79	7125458.39	6289.37	6058.12	6054.37	CL/ML
"SONIC 18"	2103112.79	7125458.39	6289.37	6054.37	6049.37	SM/SC
"SONIC 18"	2103112.79	7125458.39	6289.37	6049.37	6045.87	SM/SC
"SONIC 18"	2103112.79	7125458.39	6289.37	6045.87	6045.37	Sand
"SONIC 18"	2103112.79	7125458.39	6289.37	6045.37	6039.37	SM/SC
"SONIC 19"	2104289.12	7127469.74	6253.3	6243.8	6234.8	Sand
"SONIC 19"	2104289.12	7127469.74	6253.3	6234.8	6223.3	Sand
"SONIC 19A"	2104287	7127476.32	6243.22	6243.22	6233.22	Sand
"SONIC 19A"	2104287	7127476.32	6243.22	6233.22	6226.22	SM/SC
"SONIC 19A"	2104287	7127476.32	6243.22	6226.22	6216.22	SM/SC
"SONIC 19A"	2104287	7127476.32	6243.22	6216.22	6208.22	SM/SC
"SONIC 19A"	2104287	7127476.32	6243.22	6208.22	6203.22	SM/SC
"SONIC 19A"	2104287	7127476.32	6243.22	6203.22	6198.72	SM/SC
"SONIC 19A"	2104287	7127476.32	6243.22	6198.72	6198.22	CL/ML
"SONIC 19A"	2104287	7127476.32	6243.22	6198.22	6194.72	Interbedded
"SONIC 19A"	2104287	7127476.32	6243.22	6194.72	6189.22	Sand
"SONIC 19A"	2104287	7127476.32	6243.22	6189.22	6183.22	Sand
"SONIC 19A"	2104287	7127476.32	6243.22	6183.22	6173.22	SM/SC
"SONIC 19A"	2104287	7127476.32	6243.22	6173.22	6171.72	Sand
"SONIC 19A"	2104287	7127476.32	6243.22	6171.72	6156.22	SM/SC
"SONIC 19A"	2104287	7127476.32	6243.22	6156.22	6150.22	Sand
"SONIC 19A"	2104287	7127476.32	6243.22	6150.22	6143.22	Interbedded
"SONIC 19A"	2104287	7127476.32	6243.22	6143.22	6134.22	Sand
"SONIC 19A"	2104287	7127476.32	6243.22	6134.22	6121.72	Interbedded
"SONIC 19A"	2104287	7127476.32	6243.22	6121.72	6118.22	SM/SC
"SONIC 19A"	2104287	7127476.32	6243.22	6118.22	6114.72	SM/SC
"SONIC 19A"	2104287	7127476.32	6243.22	6114.72	6103.22	SM/SC
"SONIC 19A"	2104287	7127476.32	6243.22	6103.22	6082.72	Sand
"SONIC 19A"	2104287	7127476.32	6243.22	6082.72	6066.72	Interbedded
"SONIC 19A"	2104287	7127476.32	6243.22	6066.72	6062.82	CL/ML
"SONIC 19A"	2104287	7127476.32	6243.22	6062.82	6052.22	SM/SC
"SONIC 19A"	2104287	7127476.32	6243.22	6052.22	6048.72	SM/SC
"SONIC 19A"	2104287	7127476.32	6243.22	6048.72	6048.22	Interbedded
"SONIC 19A"	2104287	7127476.32	6243.22	6048.22	6031.72	SM/SC
"SONIC 19A"	2104287	7127476.32	6243.22	6031.72	6028.22	Sand
"SONIC 19A"	2104287	7127476.32	6243.22	6028.22	6017.22	Interbedded
"SONIC 19A"	2104287	7127476.32	6243.22	6017.22	6006.72	SM/SC
"SONIC 19A"	2104287	7127476.32	6243.22	6006.72	5998.22	Interbedded
"SONIC 20"	2102615.73	7127945.81	6255.79	6252.79	6250.79	Sand
"SONIC 20"	2102615.73	7127945.81	6255.79	6250.79	6245.79	Interbedded
"SONIC 20"	2102615.73	7127945.81	6255.79	6245.79	6240.79	SM/SC
"SONIC 20"	2102615.73	7127945.81	6255.79	6240.79	6235.29	SM/SC

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"SONIC 20"	2102615.73	7127945.81	6255.79	6235.29	6226.29	Interbedded
"SONIC 20"	2102615.73	7127945.81	6255.79	6226.29	6211.79	Sand
"SONIC 20"	2102615.73	7127945.81	6255.79	6211.79	6205.29	Interbedded
"SONIC 20"	2102615.73	7127945.81	6255.79	6205.29	6203.79	Sand
"SONIC 20"	2102615.73	7127945.81	6255.79	6203.79	6195.79	Sand
"SONIC 20"	2102615.73	7127945.81	6255.79	6195.79	6190.29	Sand
"SONIC 20"	2102615.73	7127945.81	6255.79	6190.29	6186.79	CL/ML
"SONIC 20"	2102615.73	7127945.81	6255.79	6186.79	6181.29	Sand
"SONIC 20"	2102615.73	7127945.81	6255.79	6181.29	6172.79	Sand
"SONIC 20"	2102615.73	7127945.81	6255.79	6172.79	6171.79	Sand
"SONIC 20"	2102615.73	7127945.81	6255.79	6171.79	6167.79	Sand
"SONIC 20"	2102615.73	7127945.81	6255.79	6167.79	6161.29	Sand
"SONIC 20"	2102615.73	7127945.81	6255.79	6161.29	6155.79	Sand
"SONIC 20"	2102615.73	7127945.81	6255.79	6155.79	6150.29	SM/SC
"SONIC 20"	2102615.73	7127945.81	6255.79	6150.29	6137.79	Sand
"SONIC 20"	2102615.73	7127945.81	6255.79	6137.79	6122.29	Sand
"SONIC 20"	2102615.73	7127945.81	6255.79	6122.29	6117.79	Sand
"SONIC 20"	2102615.73	7127945.81	6255.79	6117.79	6098.79	Sand
"SONIC 20"	2102615.73	7127945.81	6255.79	6098.79	6092.79	Sand
"SONIC 20"	2102615.73	7127945.81	6255.79	6092.79	6085.79	Sand
"SONIC 20"	2102615.73	7127945.81	6255.79	6085.79	6077.79	SM/SC
"SONIC 20"	2102615.73	7127945.81	6255.79	6077.79	6075.79	Interbedded
"SONIC 20"	2102615.73	7127945.81	6255.79	6075.79	6069.79	Interbedded
"SONIC 20"	2102615.73	7127945.81	6255.79	6069.79	6065.29	SM/SC
"SONIC 20"	2102615.73	7127945.81	6255.79	6065.29	6063.29	CL/ML
"SONIC 20"	2102615.73	7127945.81	6255.79	6063.79	6062.29	Interbedded
"SONIC 20"	2102615.73	7127945.81	6255.79	6062.29	6054.29	Sand
"SONIC 20"	2102615.73	7127945.81	6255.79	6054.29	6034.29	Sand
"SONIC 20"	2102615.73	7127945.81	6255.79	6034.29	6020.79	Sand
"SONIC 20"	2102615.73	7127945.81	6255.79	6020.79	6010.79	Sand
"SONIC 21"	2102039.41	7126928.23	6283.79	6273.79	6255.79	Sand
"SONIC 21"	2102039.41	7126928.23	6283.79	6255.79	6243.79	SM/SC
"SONIC 21"	2102039.41	7126928.23	6283.79	6243.79	6242.79	CL/ML
"SONIC 21"	2102039.41	7126928.23	6283.79	6242.79	6238.79	Sand
"SONIC 21"	2102039.41	7126928.23	6283.79	6238.79	6233.79	SM/SC
"SONIC 21"	2102039.41	7126928.23	6283.79	6233.79	6216.79	Interbedded
"SONIC 21"	2102039.41	7126928.23	6283.79	6216.79	6208.79	SM/SC
"SONIC 21"	2102039.41	7126928.23	6283.79	6208.79	6200.79	Sand
"SONIC 21"	2102039.41	7126928.23	6283.79	6200.79	6149.79	SM/SC
"SONIC 21"	2102039.41	7126928.23	6283.79	6149.79	6143.79	CL/ML
"SONIC 21"	2102039.41	7126928.23	6283.79	6143.79	6103.79	SM/SC
"SONIC 21"	2102039.41	7126928.23	6283.79	6103.79	6102.29	CL/ML
"SONIC 21"	2102039.41	7126928.23	6283.79	6102.29	6098.29	SM/SC
"SONIC 21"	2102039.41	7126928.23	6283.79	6098.29	6083.79	SM/SC
"SONIC 21"	2102039.41	7126928.23	6283.79	6083.79	6075.79	SM/SC
"SONIC 21"	2102039.41	7126928.23	6283.79	6075.79	6063.79	Sand
"SONIC 21"	2102039.41	7126928.23	6283.79	6063.79	6055.29	SM/SC
"SONIC 21"	2102039.41	7126928.23	6283.79	6055.29	6043.79	Sand
"SONIC 21"	2102039.41	7126928.23	6283.79	6043.79	6039.79	SM/SC
"SONIC 21"	2102039.41	7126928.23	6283.79	6039.79	6038.79	Sand
"SONIC 21"	2102039.41	7126928.23	6283.79	6038.79	6033.79	Sand
"SONIC 22"	2101860.64	7128626.48	6269.62	6267.62	6264.62	SM/SC
"SONIC 22"	2101860.64	7128626.48	6269.62	6264.62	6259.62	Sand
"SONIC 22"	2101860.64	7128626.48	6269.62	6259.62	6255.12	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"SONIC 22"	2101860.64	7128626.48	6269.62	6255.12	6242.62	Sand
"SONIC 22"	2101860.64	7128626.48	6269.62	6242.62	6240.62	Sand
"SONIC 22"	2101860.64	7128626.48	6269.62	6240.62	6234.62	Sand
"SONIC 22"	2101860.64	7128626.48	6269.62	6234.62	6229.62	Sand
"SONIC 22"	2101860.64	7128626.48	6269.62	6229.62	6225.12	Sand
"SONIC 22"	2101860.64	7128626.48	6269.62	6225.12	6215.12	Sand
"SONIC 22"	2101860.64	7128626.48	6269.62	6215.12	6212.62	Sand
"SONIC 22"	2101860.64	7128626.48	6269.62	6212.62	6206.62	Sand
"SONIC 22"	2101860.64	7128626.48	6269.62	6206.62	6189.12	Sand
"SONIC 22"	2101860.64	7128626.48	6269.62	6189.12	6186.62	Sand
"SONIC 22"	2101860.64	7128626.48	6269.62	6186.62	6186.12	CL/ML
"SONIC 22"	2101860.64	7128626.48	6269.62	6186.12	6184.62	Sand
"SONIC 22"	2101860.64	7128626.48	6269.62	6184.62	6182.62	SM/SC
"SONIC 22"	2101860.64	7128626.48	6269.62	6182.62	6179.62	CL/ML
"SONIC 22"	2101860.64	7128626.48	6269.62	6179.62	6174.12	Sand
"SONIC 22"	2101860.64	7128626.48	6269.62	6174.12	6172.62	Interbedded
"SONIC 22"	2101860.64	7128626.48	6269.62	6172.62	6170.62	CL/ML
"SONIC 22"	2101860.64	7128626.48	6269.62	6170.62	6165.12	Sand
"SONIC 22"	2101860.64	7128626.48	6269.62	6165.12	6162.12	Sand
"SONIC 22"	2101860.64	7128626.48	6269.62	6162.12	6155.12	Sand
"SONIC 22"	2101860.64	7128626.48	6269.62	6155.12	6144.62	Sand
"SONIC 22"	2101860.64	7128626.48	6269.62	6144.62	6101.62	Sand
"SONIC 22"	2101860.64	7128626.48	6269.62	6101.62	6097.12	Sand
"SONIC 22"	2101860.64	7128626.48	6269.62	6097.12	6086.62	Sand
"SONIC 22"	2101860.64	7128626.48	6269.62	6086.62	6036.62	Sand
"SONIC 22"	2101860.64	7128626.48	6269.62	6036.62	6033.62	Sand
"SONIC 22"	2101860.64	7128626.48	6269.62	6033.62	6030.12	Sand
"SONIC 22"	2101860.64	7128626.48	6269.62	6030.12	6027.62	Sand
"SONIC 22"	2101860.64	7128626.48	6269.62	6027.62	6019.62	Sand
"SONIC01"	2101353.7	7128561.138	6268.5	6268.5	6256.5	SM/SC
"SONIC01"	2101353.7	7128561.138	6268.5	6256.5	6244.5	SM/SC
"SONIC01"	2101353.7	7128561.138	6268.5	6244.5	6242.5	Sand
"SONIC01"	2101353.7	7128561.138	6268.5	6242.5	6238.5	Sand
"SONIC01"	2101353.7	7128561.138	6268.5	6238.5	6226.5	Sand
"SONIC01"	2101353.7	7128561.138	6268.5	6226.5	6224.5	Sand
"SONIC01"	2101353.7	7128561.138	6268.5	6224.5	6218.5	SM/SC
"SONIC01"	2101353.7	7128561.138	6268.5	6218.5	6210.5	Sand
"SONIC01"	2101353.7	7128561.138	6268.5	6210.5	6200.5	Sand
"SONIC01"	2101353.7	7128561.138	6268.5	6200.5	6197.5	SM/SC
"SONIC01"	2101353.7	7128561.138	6268.5	6197.5	6186.5	Sand
"SONIC01"	2101353.7	7128561.138	6268.5	6186.5	6173.5	Sand
"SONIC01"	2101353.7	7128561.138	6268.5	6173.5	6171.5	SM/SC
"SONIC01"	2101353.7	7128561.138	6268.5	6171.5	6166.5	CL/ML
"SONIC01"	2101353.7	7128561.138	6268.5	6166.5	6162.5	SM/SC
"SONIC01"	2101353.7	7128561.138	6268.5	6162.5	6150.5	Sand
"SONIC01"	2101353.7	7128561.138	6268.5	6150.5	6148.5	Sand
"SONIC01"	2101353.7	7128561.138	6268.5	6148.5	6146.5	Sand
"SONIC01"	2101353.7	7128561.138	6268.5	6146.5	6140.5	Sand
"SONIC01"	2101353.7	7128561.138	6268.5	6140.5	6135.5	Sand
"SONIC01"	2101353.7	7128561.138	6268.5	6135.5	6123.5	Sand
"SONIC01"	2101353.7	7128561.138	6268.5	6123.5	6117.5	Sand
"SONIC01"	2101353.7	7128561.138	6268.5	6117.5	6115.5	Sand
"SONIC01"	2101353.7	7128561.138	6268.5	6115.5	6114.5	Gravel
"SONIC01"	2101353.7	7128561.138	6268.5	6114.5	6108.5	CL/ML

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"SONIC01"	2101353.7	7128561.138	6268.5	6108.5	6106.5	Sand
"SONIC01"	2101353.7	7128561.138	6268.5	6106.5	6100.5	Sand
"SONIC01"	2101353.7	7128561.138	6268.5	6100.5	6088.5	SM/SC
"SONIC01"	2101353.7	7128561.138	6268.5	6088.5	6078.5	Sand
"SONIC01"	2101353.7	7128561.138	6268.5	6078.5	6074.5	Sand
"SONIC01"	2101353.7	7128561.138	6268.5	6074.5	6058.5	SM/SC
"SONIC01"	2101353.7	7128561.138	6268.5	6058.5	6034.5	Sand
"SONIC01"	2101353.7	7128561.138	6268.5	6034.5	6025.5	SM/SC
"SONIC01"	2101353.7	7128561.138	6268.5	6025.5	6021.5	Sand
"SONIC01"	2101353.7	7128561.138	6268.5	6021.5	6018.5	Sand
"SONIC01"	2101353.7	7128561.138	6268.5	6018.5	6004.5	Sand
"SONIC01"	2101353.7	7128561.138	6268.5	6004.5	6000	SM/SC
"SONIC01"	2101353.7	7128561.138	6268.5	6000	5998.5	Sand
"SONIC01"	2101353.7	7128561.138	6268.5	5998.5	5968.5	SM/SC
"SONIC02"	2102639.254	7127371.25	6272	6272	6270	SM/SC
"SONIC02"	2102639.254	7127371.25	6272	6270	6258	Sand
"SONIC02"	2102639.254	7127371.25	6272	6258	6247.5	SM/SC
"SONIC02"	2102639.254	7127371.25	6272	6247.5	6246.5	CL/ML
"SONIC02"	2102639.254	7127371.25	6272	6246.5	6244.5	Sand
"SONIC02"	2102639.254	7127371.25	6272	6244.5	6240.5	CL/ML
"SONIC02"	2102639.254	7127371.25	6272	6240.5	6238	Sand
"SONIC02"	2102639.254	7127371.25	6272	6238	6234.5	CL/ML
"SONIC02"	2102639.254	7127371.25	6272	6234.5	6232	SM/SC
"SONIC02"	2102639.254	7127371.25	6272	6232	6229	Sand
"SONIC02"	2102639.254	7127371.25	6272	6229	6215	SM/SC
"SONIC02"	2102639.254	7127371.25	6272	6215	6206	Sand
"SONIC02"	2102639.254	7127371.25	6272	6206	6201	SM/SC
"SONIC02"	2102639.254	7127371.25	6272	6201	6199	Sand
"SONIC02"	2102639.254	7127371.25	6272	6199	6182	Sand
"SONIC02"	2102639.254	7127371.25	6272	6182	6177	Sand
"SONIC02"	2102639.254	7127371.25	6272	6177	6172	SM/SC
"SONIC02"	2102639.254	7127371.25	6272	6172	6157	Sand
"SONIC02"	2102639.254	7127371.25	6272	6157	6155	SM/SC
"SONIC02"	2102639.254	7127371.25	6272	6155	6152	Sand
"SONIC02"	2102639.254	7127371.25	6272	6152	6141	SM/SC
"SONIC02"	2102639.254	7127371.25	6272	6141	6131	Sand
"SONIC02"	2102639.254	7127371.25	6272	6131	6121	CL/ML
"SONIC02"	2102639.254	7127371.25	6272	6121	6114	SM/SC
"SONIC02"	2102639.254	7127371.25	6272	6114	6112	Sand
"SONIC02"	2102639.254	7127371.25	6272	6112	6106	SM/SC
"SONIC02"	2102639.254	7127371.25	6272	6106	6101	Sand
"SONIC02"	2102639.254	7127371.25	6272	6101	6098	SM/SC
"SONIC02"	2102639.254	7127371.25	6272	6098	6084.5	Sand
"SONIC02"	2102639.254	7127371.25	6272	6084.5	6080.5	SM/SC
"SONIC02"	2102639.254	7127371.25	6272	6080.5	6057	Sand
"SONIC02"	2102639.254	7127371.25	6272	6057	6045	SM/SC
"SONIC02"	2102639.254	7127371.25	6272	6045	6042	Sand
"SONIC02"	2102639.254	7127371.25	6272	6042	6035	SM/SC
"SONIC02"	2102639.254	7127371.25	6272	6035	6020	Sand
"SONIC02"	2102639.254	7127371.25	6272	6020	6015	SM/SC
"SONIC02"	2102639.254	7127371.25	6272	6015	6009	Sand
"SONIC02"	2102639.254	7127371.25	6272	6009	5996	SM/SC
"SONIC02"	2102639.254	7127371.25	6272	5996	5989	Sand
"SONIC02"	2102639.254	7127371.25	6272	5989	5984	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"SONIC02"	2102639.254	7127371.25	6272	5984	5972	SM/SC
"SONIC03"	2103279.939	7128195.214	6250.1	6250.1	6247.1	Sand
"SONIC03"	2103279.939	7128195.214	6250.1	6247.1	6236.1	Sand
"SONIC03"	2103279.939	7128195.214	6250.1	6236.1	6235.1	Sand
"SONIC03"	2103279.939	7128195.214	6250.1	6235.1	6230.1	Sand
"SONIC03"	2103279.939	7128195.214	6250.1	6230.1	6228.1	SM/SC
"SONIC03"	2103279.939	7128195.214	6250.1	6228.1	6209.1	Sand
"SONIC03"	2103279.939	7128195.214	6250.1	6209.1	6185.1	Sand
"SONIC03"	2103279.939	7128195.214	6250.1	6185.1	6158.1	Sand
"SONIC03"	2103279.939	7128195.214	6250.1	6158.1	6145.1	SM/SC
"SONIC03"	2103279.939	7128195.214	6250.1	6145.1	6140.1	Sand
"SONIC03"	2103279.939	7128195.214	6250.1	6140.1	6125.1	SM/SC
"SONIC03"	2103279.939	7128195.214	6250.1	6125.1	6110.1	Sand
"SONIC03"	2103279.939	7128195.214	6250.1	6110.1	6098.1	Sand
"SONIC03"	2103279.939	7128195.214	6250.1	6098.1	6090.1	CL/ML
"SONIC03"	2103279.939	7128195.214	6250.1	6090.1	6070.1	Sand
"SONIC03"	2103279.939	7128195.214	6250.1	6070.1	6062.6	SM/SC
"SONIC03"	2103279.939	7128195.214	6250.1	6062.6	6060.1	Sand
"SONIC03"	2103279.939	7128195.214	6250.1	6060.1	6053.1	SM/SC
"SONIC03"	2103279.939	7128195.214	6250.1	6053.1	6045.1	SM/SC
"SONIC03"	2103279.939	7128195.214	6250.1	6045.1	6031.1	SM/SC
"SONIC03"	2103279.939	7128195.214	6250.1	6031.1	5965.1	Sand
"SONIC03"	2103279.939	7128195.214	6250.1	5965.1	5950.1	SM/SC
"SONIC04"	2104799.304	7126669.329	6247.4	6247.4	6232.4	Sand
"SONIC04"	2104799.304	7126669.329	6247.4	6232.4	6227.4	SM/SC
"SONIC04"	2104799.304	7126669.329	6247.4	6227.4	6210.4	Sand
"SONIC04"	2104799.304	7126669.329	6247.4	6210.4	6193.4	SM/SC
"SONIC04"	2104799.304	7126669.329	6247.4	6193.4	6182.4	Sand
"SONIC04"	2104799.304	7126669.329	6247.4	6182.4	6172.4	CL/ML
"SONIC04"	2104799.304	7126669.329	6247.4	6172.4	6162.4	Sand
"SONIC04"	2104799.304	7126669.329	6247.4	6162.4	6127.4	SM/SC
"SONIC04"	2104799.304	7126669.329	6247.4	6127.4	6108.4	CL/ML
"SONIC04"	2104799.304	7126669.329	6247.4	6108.4	6097.4	Sand
"SONIC04"	2104799.304	7126669.329	6247.4	6097.4	6072.4	Sand
"SONIC04"	2104799.304	7126669.329	6247.4	6072.4	6042.4	CL/ML
"SONIC04"	2104799.304	7126669.329	6247.4	6042.4	6032.4	SM/SC
"SONIC04"	2104799.304	7126669.329	6247.4	6032.4	6019.4	CL/ML
"SONIC04"	2104799.304	7126669.329	6247.4	6019.4	5947.4	SM/SC
"SONIC05"	2105256.553	7127364.939	6234.4	6234.4	6214.4	Sand
"SONIC05"	2105256.553	7127364.939	6234.4	6214.4	6183.4	Sand
"SONIC05"	2105256.553	7127364.939	6234.4	6183.4	6179.4	SM/SC
"SONIC05"	2105256.553	7127364.939	6234.4	6179.4	6146.4	Sand
"SONIC05"	2105256.553	7127364.939	6234.4	6146.4	6142.4	SM/SC
"SONIC05"	2105256.553	7127364.939	6234.4	6142.4	6117.4	Sand
"SONIC05"	2105256.553	7127364.939	6234.4	6117.4	6114.4	SM/SC
"SONIC05"	2105256.553	7127364.939	6234.4	6114.4	6107.4	Sand
"SONIC05"	2105256.553	7127364.939	6234.4	6107.4	6103.4	SM/SC
"SONIC05"	2105256.553	7127364.939	6234.4	6103.4	6080.9	Sand
"SONIC05"	2105256.553	7127364.939	6234.4	6080.9	6072.9	CL/ML
"SONIC05"	2105256.553	7127364.939	6234.4	6072.9	6069.4	SM/SC
"SONIC05"	2105256.553	7127364.939	6234.4	6069.4	6059.4	Sand
"SONIC05"	2105256.553	7127364.939	6234.4	6059.4	6052.4	SM/SC
"SONIC05"	2105256.553	7127364.939	6234.4	6052.4	6037.4	SM/SC
"SONIC05"	2105256.553	7127364.939	6234.4	6037.4	6034.4	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"SONIC05"	2105256.553	7127364.939	6234.4	6034.4	5984.4	SM/SC
"SONIC05"	2105256.553	7127364.939	6234.4	5984.4	5974.4	Sand
"SONIC05"	2105256.553	7127364.939	6234.4	5974.4	5934.4	SM/SC
"SONIC05A"	2105272.59	7127369.632	6234	6234	6219	SM/SC
"SONIC05A"	2105272.59	7127369.632	6234	6219	6189	Sand
"SONIC05A"	2105272.59	7127369.632	6234	6189	6159	Sand
"SONIC05A"	2105272.59	7127369.632	6234	6159	6149	SM/SC
"SONIC05A"	2105272.59	7127369.632	6234	6149	6124	SM/SC
"SONIC05A"	2105272.59	7127369.632	6234	6124	6079	Sand
"SONIC05A"	2105272.59	7127369.632	6234	6079	6069	CL/ML
"SONIC06"	2105714.074	7124747.209	6235.1	6235.1	6227.6	SM/SC
"SONIC06"	2105714.074	7124747.209	6235.1	6227.6	6226.1	CL/ML
"SONIC06"	2105714.074	7124747.209	6235.1	6226.1	6205.1	Sand
"SONIC06"	2105714.074	7124747.209	6235.1	6205.1	6190.1	SM/SC
"SONIC06"	2105714.074	7124747.209	6235.1	6190.1	6180.1	CL/ML
"SONIC06"	2105714.074	7124747.209	6235.1	6180.1	6148.1	Sand
"SONIC06"	2105714.074	7124747.209	6235.1	6148.1	6145.1	CL/ML
"SONIC06"	2105714.074	7124747.209	6235.1	6145.1	6135.1	SM/SC
"SONIC06"	2105714.074	7124747.209	6235.1	6135.1	6110.1	Sand
"SONIC06"	2105714.074	7124747.209	6235.1	6110.1	6107.1	SM/SC
"SONIC06"	2105714.074	7124747.209	6235.1	6107.1	6104.1	CL/ML
"SONIC06"	2105714.074	7124747.209	6235.1	6104.1	6075.1	SM/SC
"SONIC06"	2105714.074	7124747.209	6235.1	6075.1	6060.1	Sand
"SONIC06"	2105714.074	7124747.209	6235.1	6060.1	6050.1	SM/SC
"SONIC06"	2105714.074	7124747.209	6235.1	6050.1	6017.1	Sand
"SONIC06"	2105714.074	7124747.209	6235.1	6017.1	6016.1	SM/SC
"SONIC06"	2105714.074	7124747.209	6235.1	6016.1	6011.1	Sand
"SONIC06"	2105714.074	7124747.209	6235.1	6011.1	6009.1	Sand
"SONIC06"	2105714.074	7124747.209	6235.1	6009.1	5975.1	Sand
"SONIC06"	2105714.074	7124747.209	6235.1	5975.1	5945.1	Sand
"SONIC06"	2105714.074	7124747.209	6235.1	5945.1	5935.1	SM/SC
"SONIC07"	2103906.96	7125489.788	6250.5	6250.5	6230.5	SM/SC
"SONIC07"	2103906.96	7125489.788	6250.5	6230.5	6215.5	Sand
"SONIC07"	2103906.96	7125489.788	6250.5	6215.5	6210.5	SM/SC
"SONIC07"	2103906.96	7125489.788	6250.5	6210.5	6204.5	Sand
"SONIC07"	2103906.96	7125489.788	6250.5	6204.5	6203.5	SM/SC
"SONIC07"	2103906.96	7125489.788	6250.5	6203.5	6175.5	Sand
"SONIC07"	2103906.96	7125489.788	6250.5	6175.5	6170.5	SM/SC
"SONIC07"	2103906.96	7125489.788	6250.5	6170.5	6125.5	Sand
"SONIC07"	2103906.96	7125489.788	6250.5	6125.5	6120.5	SM/SC
"SONIC07"	2103906.96	7125489.788	6250.5	6120.5	6103	Sand
"SONIC07"	2103906.96	7125489.788	6250.5	6103	6090.5	SM/SC
"SONIC07"	2103906.96	7125489.788	6250.5	6090.5	6087	Sand
"SONIC07"	2103906.96	7125489.788	6250.5	6087	6086.5	CL/ML
"SONIC07"	2103906.96	7125489.788	6250.5	6086.5	6067.5	Sand
"SONIC07"	2103906.96	7125489.788	6250.5	6067.5	6067	SM/SC
"SONIC07"	2103906.96	7125489.788	6250.5	6067	6010.5	Sand
"SONIC07"	2103906.96	7125489.788	6250.5	6010.5	5993.5	Sand
"SONIC07"	2103906.96	7125489.788	6250.5	5993.5	5980.5	SM/SC
"SONIC07"	2103906.96	7125489.788	6250.5	5980.5	5962	Sand
"SONIC07"	2103906.96	7125489.788	6250.5	5962	5950.5	SM/SC
"SONIC08"	2103882.687	7130284.299	6241.2	6241.2	6233.2	SM/SC
"SONIC08"	2103882.687	7130284.299	6241.2	6233.2	6231.2	CL/ML
"SONIC08"	2103882.687	7130284.299	6241.2	6231.2	6226.2	SM/SC

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"SONIC08"	2103882.687	7130284.299	6241.2	6226.2	6215.2	Sand
"SONIC08"	2103882.687	7130284.299	6241.2	6215.2	6214.2	CL/ML
"SONIC08"	2103882.687	7130284.299	6241.2	6214.2	6201.2	Sand
"SONIC08"	2103882.687	7130284.299	6241.2	6201.2	6191.2	SM/SC
"SONIC08"	2103882.687	7130284.299	6241.2	6191.2	6181.2	Sand
"SONIC08"	2103882.687	7130284.299	6241.2	6181.2	6176.2	CL/ML
"SONIC08"	2103882.687	7130284.299	6241.2	6176.2	6171.2	Sand
"SONIC08"	2103882.687	7130284.299	6241.2	6171.2	6148.7	SM/SC
"SONIC08"	2103882.687	7130284.299	6241.2	6148.7	6146.2	SM/SC
"SONIC08"	2103882.687	7130284.299	6241.2	6146.2	6143.2	Sand
"SONIC08"	2103882.687	7130284.299	6241.2	6143.2	6142.7	CL/ML
"SONIC08"	2103882.687	7130284.299	6241.2	6142.7	6131.2	Sand
"SONIC08"	2103882.687	7130284.299	6241.2	6131.2	6121.2	SM/SC
"SONIC08"	2103882.687	7130284.299	6241.2	6121.2	6111.2	Sand
"SONIC08"	2103882.687	7130284.299	6241.2	6111.2	6103.7	SM/SC
"SONIC08"	2103882.687	7130284.299	6241.2	6103.7	6100.2	CL/ML
"SONIC08"	2103882.687	7130284.299	6241.2	6100.2	6061.2	Sand
"SONIC08"	2103882.687	7130284.299	6241.2	6061.2	6051.2	SM/SC
"SONIC08"	2103882.687	7130284.299	6241.2	6051.2	6031.2	Sand
"SONIC08"	2103882.687	7130284.299	6241.2	5986.2	5956.2	SM/SC
"SONIC08"	2103882.687	7130284.299	6241.2	5956.2	5946.2	CL/ML
"SONIC08"	2103882.687	7130284.299	6241.2	5946.2	5941.2	SM/SC
"SONIC09"	2102354.488	7128280.167	6264.3	6264.3	6254.3	SM/SC
"SONIC09"	2102354.488	7128280.167	6264.3	6254.3	6223.3	SM/SC
"SONIC09"	2102354.488	7128280.167	6264.3	6223.3	6214.3	Sand
"SONIC09"	2102354.488	7128280.167	6264.3	6214.3	6201.3	Sand
"SONIC09"	2102354.488	7128280.167	6264.3	6201.3	6184.3	SM/SC
"SONIC09"	2102354.488	7128280.167	6264.3	6184.3	6174.3	Sand
"SONIC09"	2102354.488	7128280.167	6264.3	6174.3	6167.3	SM/SC
"SONIC09"	2102354.488	7128280.167	6264.3	6167.3	6152.3	SM/SC
"SONIC09"	2102354.488	7128280.167	6264.3	6152.3	6146.3	CL/ML
"SONIC09"	2102354.488	7128280.167	6264.3	6146.3	6124.3	SM/SC
"SONIC09"	2102354.488	7128280.167	6264.3	6124.3	6104.3	Sand
"SONIC09"	2102354.488	7128280.167	6264.3	6104.3	6094.3	Sand
"SONIC09"	2102354.488	7128280.167	6264.3	6094.3	6089.3	SM/SC
"SONIC09"	2102354.488	7128280.167	6264.3	6089.3	6084.3	Sand
"SONIC09"	2102354.488	7128280.167	6264.3	6084.3	6004.3	Sand
"SONIC09"	2102354.488	7128280.167	6264.3	6004.3	5999.3	SM/SC
"SONIC09"	2102354.488	7128280.167	6264.3	5999.3	5994.3	Sand
"SONIC09"	2102354.488	7128280.167	6264.3	5994.3	5964.3	SM/SC
"SONIC10"	2103273.157	7127072.662	6267.3	6267.3	6257.3	SM/SC
"SONIC10"	2103273.157	7127072.662	6267.3	6257.3	6250.3	Sand
"SONIC10"	2103273.157	7127072.662	6267.3	6250.3	6247.8	CL/ML
"SONIC10"	2103273.157	7127072.662	6267.3	6247.8	6247.3	Sand
"SONIC10"	2103273.157	7127072.662	6267.3	6247.3	6227.3	SM/SC
"SONIC10"	2103273.157	7127072.662	6267.3	6227.3	6221.3	SM/SC
"SONIC10"	2103273.157	7127072.662	6267.3	6221.3	6217.8	SM/SC
"SONIC10"	2103273.157	7127072.662	6267.3	6217.8	6202.3	SM/SC
"SONIC10"	2103273.157	7127072.662	6267.3	6202.3	6137.3	SM/SC
"SONIC10"	2103273.157	7127072.662	6267.3	6137.3	6107.3	SM/SC
"SONIC10"	2103273.157	7127072.662	6267.3	6107.3	6097.3	Sand
"SONIC10"	2103273.157	7127072.662	6267.3	6097.3	6077.3	SM/SC
"SONIC10"	2103273.157	7127072.662	6267.3	6077.3	6057.3	Sand
"SONIC10"	2103273.157	7127072.662	6267.3	6057.3	6047.3	SM/SC

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"SONIC10"	2103273.157	7127072.662	6267.3	6047.3	6039.3	Sand
"SONIC10"	2103273.157	7127072.662	6267.3	6039.3	6032.3	SM/SC
"SONIC10"	2103273.157	7127072.662	6267.3	6032.3	6012.3	SM/SC
"SONIC10"	2103273.157	7127072.662	6267.3	6012.3	6005.3	CL/ML
"SONIC10"	2103273.157	7127072.662	6267.3	6005.3	5967.3	Sand
"SONIC11"	2104604.607	7128511.314	6241.5	6241.5	6233.5	SM/SC
"SONIC11"	2104604.607	7128511.314	6241.5	6233.5	6229.5	Sand
"SONIC11"	2104604.607	7128511.314	6241.5	6229.5	6201.5	SM/SC
"SONIC11"	2104604.607	7128511.314	6241.5	6201.5	6189.5	SM/SC
"SONIC11"	2104604.607	7128511.314	6241.5	6189.5	6127.5	Sand
"SONIC11"	2104604.607	7128511.314	6241.5	6127.5	6121.5	SM/SC
"SONIC11"	2104604.607	7128511.314	6241.5	6121.5	6106.5	SM/SC
"SONIC11"	2104604.607	7128511.314	6241.5	6106.5	6091.5	Sand
"SONIC11"	2104604.607	7128511.314	6241.5	6091.5	6081.5	Sand
"SONIC11"	2104604.607	7128511.314	6241.5	6081.5	6071.5	CL/ML
"SONIC11"	2104604.607	7128511.314	6241.5	6071.5	6062	CL/ML
"SONIC11"	2104604.607	7128511.314	6241.5	6062	6051.5	SM/SC
"SONIC11"	2104604.607	7128511.314	6241.5	6051.5	6031.5	Sand
"SONIC12"	2106277.599	7129232.831	6233.7	6233.7	6228.7	SM/SC
"SONIC12"	2106277.599	7129232.831	6233.7	6228.7	6223.7	Sand
"SONIC12"	2106277.599	7129232.831	6233.7	6223.7	6217.2	SM/SC
"SONIC12"	2106277.599	7129232.831	6233.7	6217.2	6198.7	SM/SC
"SONIC12"	2106277.599	7129232.831	6233.7	6198.7	6169.7	SM/SC
"SONIC12"	2106277.599	7129232.831	6233.7	6169.7	6143.7	Sand
"SONIC12"	2106277.599	7129232.831	6233.7	6143.7	6133.7	SM/SC
"SONIC12"	2106277.599	7129232.831	6233.7	6133.7	6111.2	Sand
"SONIC12"	2106277.599	7129232.831	6233.7	6111.2	6106.2	CL/ML
"SONIC12"	2106277.599	7129232.831	6233.7	6106.2	6088.7	SM/SC
"SONIC12"	2106277.599	7129232.831	6233.7	6088.7	6078.7	Sand
"SONIC12"	2106277.599	7129232.831	6233.7	6078.7	6043.7	Sand
"SONIC12"	2106277.599	7129232.831	6233.7	6043.7	6036.7	CL/ML
"SONIC12"	2106277.599	7129232.831	6233.7	6036.7	6013.7	SM/SC
"SONIC12"	2106277.599	7129232.831	6233.7	6013.7	6003.7	Sand
"SONIC12"	2106277.599	7129232.831	6233.7	6003.7	5988.7	SM/SC
"SONIC12"	2106277.599	7129232.831	6233.7	5988.7	5950.7	Sand
"SONIC12"	2106277.599	7129232.831	6233.7	5950.7	5933.7	SM/SC
"SONIC13"	2102913.848	7126210.108	6316.1	6316.1	6298.1	SM/SC
"SONIC13"	2102913.848	7126210.108	6316.1	6298.1	6292.1	Sand
"SONIC13"	2102913.848	7126210.108	6316.1	6292.1	6290.1	SM/SC
"SONIC13"	2102913.848	7126210.108	6316.1	6290.1	6276.1	Sand
"SONIC13"	2102913.848	7126210.108	6316.1	6276.1	6246.1	SM/SC
"SONIC13"	2102913.848	7126210.108	6316.1	6246.1	6226.1	SM/SC
"SONIC13"	2102913.848	7126210.108	6316.1	6226.1	6206.1	Sand
"SONIC13"	2102913.848	7126210.108	6316.1	6206.1	6196.1	SM/SC
"SONIC13"	2102913.848	7126210.108	6316.1	6196.1	6181.1	Sand
"SONIC13"	2102913.848	7126210.108	6316.1	6181.1	6151.1	SM/SC
"SONIC13"	2102913.848	7126210.108	6316.1	6151.1	6148.1	CL/ML
"SONIC13"	2102913.848	7126210.108	6316.1	6148.1	6126.1	Sand
"SONIC13"	2102913.848	7126210.108	6316.1	6126.1	6116.1	SM/SC
"SONIC13"	2102913.848	7126210.108	6316.1	6116.1	6096.1	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6270.811	6268.022	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6268.022	6267.53	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6267.53	6266.218	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6266.218	6266.054	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"TATACPT"	2100226.276	7128350.656	6270.811	6266.054	6264.413	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6264.413	6263.921	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6263.921	6263.757	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6263.757	6263.593	CL/ML
"TATACPT"	2100226.276	7128350.656	6270.811	6263.593	6263.429	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6263.429	6262.445	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6262.445	6261.297	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6261.297	6261.133	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6261.133	6260.804	CL/ML
"TATACPT"	2100226.276	7128350.656	6270.811	6260.804	6260.64	CL/ML
"TATACPT"	2100226.276	7128350.656	6270.811	6260.64	6260.476	CL/ML
"TATACPT"	2100226.276	7128350.656	6270.811	6260.476	6260.312	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6260.312	6259.492	CL/ML
"TATACPT"	2100226.276	7128350.656	6270.811	6259.492	6259.328	CL/ML
"TATACPT"	2100226.276	7128350.656	6270.811	6259.328	6259	CL/ML
"TATACPT"	2100226.276	7128350.656	6270.811	6259	6257.688	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6257.688	6257.524	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6257.524	6256.867	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6256.867	6254.571	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6254.571	6254.079	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6254.079	6253.915	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6253.915	6253.094	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6253.094	6252.93	CL/ML
"TATACPT"	2100226.276	7128350.656	6270.811	6252.93	6252.602	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6252.602	6251.782	CL/ML
"TATACPT"	2100226.276	7128350.656	6270.811	6251.782	6250.142	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6250.142	6249.321	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6249.321	6248.829	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6248.829	6243.744	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6243.744	6243.58	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6243.58	6243.416	CL/ML
"TATACPT"	2100226.276	7128350.656	6270.811	6243.416	6243.088	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6243.088	6242.76	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6242.76	6242.596	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6242.596	6241.283	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6241.283	6240.791	CL/ML
"TATACPT"	2100226.276	7128350.656	6270.811	6240.791	6240.627	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6240.627	6240.463	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6240.463	6239.971	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6239.971	6239.643	CL/ML
"TATACPT"	2100226.276	7128350.656	6270.811	6239.643	6239.479	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6239.479	6237.018	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6237.018	6236.69	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6236.69	6236.198	CL/ML
"TATACPT"	2100226.276	7128350.656	6270.811	6236.198	6236.034	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6236.034	6235.87	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6235.87	6235.542	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6235.542	6234.886	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6234.886	6234.394	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6234.394	6232.917	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6232.917	6232.753	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6232.753	6226.684	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6226.684	6226.52	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6226.52	6226.356	Sand

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"TATACPT"	2100226.276	7128350.656	6270.811	6226.356	6226.028	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6226.028	6223.403	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6223.403	6223.075	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6223.075	6222.911	CL/ML
"TATACPT"	2100226.276	7128350.656	6270.811	6222.911	6222.747	CL/ML
"TATACPT"	2100226.276	7128350.656	6270.811	6222.747	6222.583	CL/ML
"TATACPT"	2100226.276	7128350.656	6270.811	6222.583	6221.598	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6221.598	6221.106	CL/ML
"TATACPT"	2100226.276	7128350.656	6270.811	6221.106	6220.778	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6220.778	6219.958	CL/ML
"TATACPT"	2100226.276	7128350.656	6270.811	6219.958	6219.794	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6219.794	6219.302	CL/ML
"TATACPT"	2100226.276	7128350.656	6270.811	6219.302	6219.138	CL/ML
"TATACPT"	2100226.276	7128350.656	6270.811	6219.138	6218.646	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6218.646	6217.497	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6217.497	6217.005	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6217.005	6216.841	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6216.841	6216.677	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6216.677	6207.327	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6207.327	6206.999	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6206.999	6206.835	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6206.835	6206.671	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6206.671	6202.405	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6202.405	6202.241	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6202.241	6197.812	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6197.812	6197.484	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6197.484	6196.664	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6196.664	6195.68	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6195.68	6193.219	Sand
"TATACPT"	2100226.276	7128350.656	6270.811	6193.219	6193.055	SM/SC
"TATACPT"	2100226.276	7128350.656	6270.811	6193.055	6190.43	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6268.821	6264.884	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6264.884	6262.259	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6262.259	6261.275	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6261.275	6261.111	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6261.111	6260.455	CL/ML
"TENCPT"	2102235.52	7127318.491	6273.742	6260.455	6259.962	CL/ML
"TENCPT"	2102235.52	7127318.491	6273.742	6259.962	6259.798	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6259.798	6257.994	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6257.994	6257.83	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6257.83	6257.01	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6257.01	6256.846	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6256.846	6256.682	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6256.682	6254.877	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6254.877	6254.549	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6254.549	6253.237	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6253.237	6252.581	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6252.581	6252.252	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6252.252	6251.924	CL/ML
"TENCPT"	2102235.52	7127318.491	6273.742	6251.924	6251.268	CL/ML
"TENCPT"	2102235.52	7127318.491	6273.742	6251.268	6250.94	CL/ML
"TENCPT"	2102235.52	7127318.491	6273.742	6250.94	6250.612	CL/ML
"TENCPT"	2102235.52	7127318.491	6273.742	6250.612	6250.448	CL/ML
"TENCPT"	2102235.52	7127318.491	6273.742	6250.448	6250.12	CL/ML

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"TENCPT"	2102235.52	7127318.491	6273.742	6250.12	6248.808	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6248.808	6248.48	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6248.48	6248.315	CL/ML
"TENCPT"	2102235.52	7127318.491	6273.742	6248.315	6247.987	CL/ML
"TENCPT"	2102235.52	7127318.491	6273.742	6247.987	6247.823	CL/ML
"TENCPT"	2102235.52	7127318.491	6273.742	6247.823	6247.659	CL/ML
"TENCPT"	2102235.52	7127318.491	6273.742	6247.659	6247.003	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6247.003	6246.511	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6246.511	6246.347	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6246.347	6246.019	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6246.019	6245.855	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6245.855	6245.527	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6245.527	6245.035	CL/ML
"TENCPT"	2102235.52	7127318.491	6273.742	6245.035	6243.394	CL/ML
"TENCPT"	2102235.52	7127318.491	6273.742	6243.394	6242.902	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6242.902	6238.965	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6238.965	6238.309	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6238.309	6237.981	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6237.981	6237.161	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6237.161	6236.997	CL/ML
"TENCPT"	2102235.52	7127318.491	6273.742	6236.997	6236.833	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6236.833	6236.669	CL/ML
"TENCPT"	2102235.52	7127318.491	6273.742	6236.669	6236.504	CL/ML
"TENCPT"	2102235.52	7127318.491	6273.742	6236.504	6235.52	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6235.52	6234.864	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6234.864	6234.536	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6234.536	6234.208	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6234.208	6233.388	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6233.388	6233.224	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6233.224	6232.731	CL/ML
"TENCPT"	2102235.52	7127318.491	6273.742	6232.731	6232.239	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6232.239	6231.911	CL/ML
"TENCPT"	2102235.52	7127318.491	6273.742	6231.911	6231.747	CL/ML
"TENCPT"	2102235.52	7127318.491	6273.742	6231.747	6231.583	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6231.583	6231.419	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6231.419	6231.255	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6231.255	6231.091	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6231.091	6229.779	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6229.779	6229.615	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6229.615	6228.794	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6228.794	6228.63	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6228.63	6228.466	CL/ML
"TENCPT"	2102235.52	7127318.491	6273.742	6228.466	6228.302	CL/ML
"TENCPT"	2102235.52	7127318.491	6273.742	6228.302	6227.974	CL/ML
"TENCPT"	2102235.52	7127318.491	6273.742	6227.974	6227.318	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6227.318	6222.069	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6222.069	6221.905	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6221.905	6221.741	CL/ML
"TENCPT"	2102235.52	7127318.491	6273.742	6221.741	6221.413	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6221.413	6221.249	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6221.249	6220.592	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6220.592	6220.428	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6220.428	6220.1	CL/ML
"TENCPT"	2102235.52	7127318.491	6273.742	6220.1	6219.936	SM/SC

Table I-2 Lithology Input Data

Point_ID_EVS	North	East	Elevation	Z_TOP	Z_Bottom	AECOM EVS Grouped Lithology
"TENCPT"	2102235.52	7127318.491	6273.742	6219.936	6219.772	CL/ML
"TENCPT"	2102235.52	7127318.491	6273.742	6219.772	6219.608	CL/ML
"TENCPT"	2102235.52	7127318.491	6273.742	6219.608	6219.444	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6219.444	6215.507	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6215.507	6215.343	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6215.343	6215.015	CL/ML
"TENCPT"	2102235.52	7127318.491	6273.742	6215.015	6214.687	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6214.687	6211.078	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6211.078	6210.75	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6210.75	6208.125	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6208.125	6207.469	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6207.469	6207.305	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6207.305	6207.141	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6207.141	6205.993	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6205.993	6205.008	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6205.008	6201.071	Sand
"TENCPT"	2102235.52	7127318.491	6273.742	6201.071	6200.907	SM/SC
"TENCPT"	2102235.52	7127318.491	6273.742	6200.907	6200.415	CL/ML
"TENCPT"	2102235.52	7127318.491	6273.742	6200.415	6200.087	CL/ML
"TENCPT"	2102235.52	7127318.491	6273.742	6200.087	6199.267	CL/ML
"TENCPT"	2102235.52	7127318.491	6273.742	6199.267	6190.081	Sand

TABLE 6: SUMMARY OF WELL CONSTRUCTION DETAILS, THIRD QUARTER 2021 MONITORING REPORT (PES, 2021)

PES. 15 December 2021. Third Quarter 2021 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

Table 1
Summary of Well Construction Details
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well Identification	Well Type	Date Installed	Well Depth (feet bgs)	Well Material	Approx. Well Screen Interval (feet bgs)	Well Top of Casing Elevation (ft NAVD88)	Ground Surface Elevation (ft NAVD88)	Approx. Well Screen Interval (ft NAVD88)
LW-MW-1S	Groundwater	Jul 2008	23.9	2" PVC	15 to 25	6271.94	6272.02	6222.0 to 6242.0
LW-MW-1D	Groundwater	Jul 2008	50.0	2" PVC	40 to 50	6271.81	6272.02	6172.0 to 6192.0
LW-MW-2S	Groundwater	Jul 2008	34.82	2" PVC	22.5 to 32.5	6272.84	6271.64	6206.6 to 6226.6
LW-MW-2D	Groundwater	7/23/008	49.5	2" PVC	39.5 to 49.5	6272.80	6271.64	6172.6 to 6192.6
LW-MW-5S	Groundwater	Jul 2008	29.7	2" PVC	19 to 29	6269.99	6270.27	6212.3 to 6232.3
LW-MW-5D	Groundwater	Jul 2008	50.0	2" PVC	40.5 to 50.5	6269.76	6270.27	6169.3 to 6189.3
LW-MW-9S	Groundwater	Nov 2009	24.4	2" PVC	10 to 25	6273.46	6274.10	6224.1 to 6254.1
LW-MW-10SR	Groundwater	Jun 2013	24.7	2" PVC	10 to 25	6272.33	6272.71	6222.7 to 6252.7
LW-MW-11S	Groundwater	Nov 2009	24.3	2" PVC	10 to 25	6272.08	6272.58	6222.6 to 6252.6
LW-MW-12S	Groundwater	Nov 2009	24.2	2" PVC	10 to 25	6271.11	6272.01	6222.0 to 6252.0
LW-MW-13S	Groundwater	Nov 2009	25.0	2" PVC	10 to 25	6271.28	6271.58	6221.6 to 6251.6
OS-1	Groundwater	Mar 2010	25.0	2" PVC	10 to 25	6268.58	6268.96	6219.0 to 6249.0
OS-2S	Groundwater	Oct 2018	23.5	2" PVC	8.5 to 23.5	6267.57	6268.06	6221.1 to 6251.1
OS-2M	Groundwater	Oct 2018	48.0	2" PVC	42 to 48.0	6267.62	6267.99	6172.0 to 6184.0
OS-3S	Groundwater	Oct 2018	23.5	2" PVC	8.5 to 23.5	6270.12	6270.63	6223.6 to 6253.6
OS-3M	Groundwater	Oct 2018	48.0	2" PVC	38 to 48	6270.52	6270.77	6174.8 to 6194.8
OS-4S	Groundwater	Oct 2018	24.0	2" PVC	9 to 24	6262.47	6262.77	6214.8 to 6244.8
OS-4M	Groundwater	Oct 2018	43.0	2" PVC	33 to 43	6262.37	6262.67	6176.7 to 6196.7
AS-1	Air Sparge	Nov 2009	25.0	2" PVC	23.5 to 25	na	na	na
AS-2	Air Sparge	Nov 2009	25.0	2" PVC	23.5 to 25	na	na	na
AS-3	Air Sparge	Nov 2009	28.0	2" PVC	26.5 to 28	na	na	na
AS-4	Air Sparge	Nov 2009	26.0	2" PVC	24.5 to 26	na	na	na
AS-5	Air Sparge	Nov 2009	26.0	2" PVC	24.5 to 26	na	na	na
AS-6	Air Sparge	Nov 2009	30.0	2" PVC	28.5 to 30	na	na	na
AS-7	Air Sparge	Nov 2009	28.5	2" PVC	27 to 28.5	na	na	na
AS-8	Air Sparge	Nov 2009	27.0	2" PVC	25.5 to 27	na	na	na
AS-9	Air Sparge	Nov 2009	28.5	2" PVC	27 to 28.5	na	na	na
AS-10	Air Sparge	Nov 2009	27.0	2" PVC	25.5 to 27	na	na	na

Table 1
Summary of Well Construction Details
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well Identification	Well Type	Date Installed	Well Depth (feet bgs)	Well Material	Approx. Well Screen Interval (feet bgs)	Well Top of Casing Elevation (ft NAVD88)	Ground Surface Elevation (ft NAVD88)	Approx. Well Screen Interval (ft NAVD88)
AS-11	Air Sparge	Nov 2009	30.0	2" PVC	28.5 to 30	na	na	na
AS-12	Air Sparge	Nov 2009	27.5	2" PVC	26 to 27.5	na	na	na
AS-13	Air Sparge	Nov 2009	29.0	2" PVC	27.5 to 29	na	na	na
AS-14	Air Sparge	Nov 2009	30.0	2" PVC	28.5 to 30	na	na	na
AS-15	Air Sparge	Nov 2009	30.0	2" PVC	28.5 to 30	na	na	na
AS-16	Air Sparge	Nov 2009	30.0	2" PVC	28.5 to 30	na	na	na
AS-17	Air Sparge	Nov 2009	30.0	2" PVC	28.5 to 30	na	na	na
AS-18	Air Sparge	Nov 2009	30.0	2" PVC	28.5 to 30	na	na	na
AS-19	Air Sparge	Nov 2009	30.0	2" PVC	28.5 to 30	na	na	na
AS-20	Air Sparge	Nov 2009	30.0	2" PVC	28.5 to 30	na	na	na
AS-21	Air Sparge	Nov 2009	30.0	2" PVC	28.5 to 30	na	na	na
AS-22	Air Sparge	Nov 2009	30.0	2" PVC	28.5 to 30	na	na	na
AS-23	Air Sparge	Nov 2009	30.0	2" PVC	28.5 to 30	na	na	na
AS-24	Air Sparge	Nov 2009	30.0	2" PVC	28.5 to 30	na	na	na
AS-25	Air Sparge	Nov 2009	30.0	2" PVC	28.5 to 30	na	na	na
AS-26	Air Sparge	Nov 2009	27.0	2" PVC	25.5 to 27	na	na	na
AS-27	Air Sparge	Nov 2009	26.0	2" PVC	24.5 to 26	na	na	na
VED-1	Deep Vapor Extraction	Nov 2009	13.0	2" PVC	11 to 13	na	na	na
VED-2	Deep Vapor Extraction	Nov 2009	14.0	2" PVC	12 to 14	na	na	na
VED-3	Deep Vapor Extraction	Nov 2009	14.0	2" PVC	12 to 14	na	na	na
VED-4	Deep Vapor Extraction	Nov 2009	13.0	2" PVC	11 to 13	na	na	na
VED-5	Deep Vapor Extraction	Nov 2009	13.4	2" PVC	11.4 to 13.4	na	na	na
VED-6	Deep Vapor Extraction	Nov 2009	12.5	2" PVC	10.5 to 12.5	na	na	na
VED-7	Deep Vapor Extraction	Nov 2009	12.0	2" PVC	10 to 12	na	na	na
VED-8	Deep Vapor Extraction	Nov 2009	12.0	2" PVC	10 to 12	na	na	na
VED-9	Deep Vapor Extraction	Nov 2009	12.0	2" PVC	10 to 12	na	na	na
VED-10	Deep Vapor Extraction	Nov 2009	12.0	2" PVC	10 to 12	na	na	na
VED-11	Deep Vapor Extraction	Nov 2009	12.0	2" PVC	10 to 12	na	na	na

Table 1
Summary of Well Construction Details
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well Identification	Well Type	Date Installed	Well Depth (feet bgs)	Well Material	Approx. Well Screen Interval (feet bgs)	Well Top of Casing Elevation (ft NAVD88)	Ground Surface Elevation (ft NAVD88)	Approx. Well Screen Interval (ft NAVD88)
VED-12	Deep Vapor Extraction	Nov 2009	11.5	2" PVC	9.5 to 11.5	na	na	na
VED-13	Deep Vapor Extraction	Nov 2009	13.5	2" PVC	11.5 to 13.5	na	na	na
VED-14	Deep Vapor Extraction	Nov 2009	12.5	2" PVC	10.5 to 12.5	na	na	na
VED-15	Deep Vapor Extraction	Nov 2009	12.0	2" PVC	10 to 12	na	na	na
VED-16	Deep Vapor Extraction	Nov 2009	12.0	2" PVC	10 to 12	na	na	na
VED-17	Deep Vapor Extraction	Nov 2009	15.0	2" PVC	13 to 15	na	na	na
VED-18	Deep Vapor Extraction	Nov 2009	13.0	2" PVC	11 to 13	na	na	na
VED-19	Deep Vapor Extraction	Nov 2009	12.0	2" PVC	10 to 12	na	na	na
VED-20	Deep Vapor Extraction	Nov 2009	12.0	2" PVC	10 to 12	na	na	na
VES-1	Shallow Vapor Extraction	Nov 2009	9.0	2" PVC	4 to 9	na	na	na
VES-2	Shallow Vapor Extraction	Nov 2009	10.0	2" PVC	5 to 10	na	na	na
VES-3	Shallow Vapor Extraction	Nov 2009	10.0	2" PVC	5 to 10	na	na	na
VES-4	Shallow Vapor Extraction	Nov 2009	9.0	2" PVC	4 to 9	na	na	na
VES-5	Shallow Vapor Extraction	Nov 2009	9.4	2" PVC	4.4 to 9.4	na	na	na
VES-6	Shallow Vapor Extraction	Nov 2009	8.5	2" PVC	3.5 to 8.5	na	na	na
VES-7	Shallow Vapor Extraction	Nov 2009	8.0	2" PVC	3 to 8	na	na	na
VES-8	Shallow Vapor Extraction	Nov 2009	8.0	2" PVC	3 to 8	na	na	na
VES-9	Shallow Vapor Extraction	Nov 2009	8.0	2" PVC	3 to 8	na	na	na
VES-10	Shallow Vapor Extraction	Nov 2009	8.0	2" PVC	3 to 8	na	na	na
VES-11	Shallow Vapor Extraction	Nov 2009	8.0	2" PVC	3 to 8	na	na	na
VES-12	Shallow Vapor Extraction	Nov 2009	7.5	2" PVC	3.5 to 7.5	na	na	na
VES-13	Shallow Vapor Extraction	Nov 2009	9.5	2" PVC	4.5 to 9.5	na	na	na
VES-14	Shallow Vapor Extraction	Nov 2009	8.5	2" PVC	3.5 to 8.5	na	na	na
VES-15	Shallow Vapor Extraction	Nov 2009	8.0	2" PVC	3 to 8	na	na	na
VES-16	Shallow Vapor Extraction	Nov 2009	8.0	2" PVC	3 to 8	na	na	na
VES-17	Shallow Vapor Extraction	Nov 2009	9.0	2" PVC	4 to 9	na	na	na
VES-18	Shallow Vapor Extraction	Nov 2009	9.0	2" PVC	4 to 9	na	na	na
VES-19	Shallow Vapor Extraction	Nov 2009	7.0	2" PVC	2 to 7	na	na	na
VES-20	Shallow Vapor Extraction	Nov 2009	7.0	2" PVC	2 to 7	na	na	na

Table 1
Summary of Well Construction Details
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well Identification	Well Type	Date Installed	Well Depth (feet bgs)	Well Material	Approx. Well Screen Interval (feet bgs)	Well Top of Casing Elevation (ft NAVD88)	Ground Surface Elevation (ft NAVD88)	Approx. Well Screen Interval (ft NAVD88)
VP-1	Shallow Soil Vapor	Nov 2009	5.0	1/8-inch Teflon Tubing	4.875 to 5	na	na	na
VP-2	Shallow Soil Vapor	Nov 2009	5.0	1/8-inch Teflon Tubing	4.875 to 5	na	na	na
VP-3	Shallow Soil Vapor	Nov 2010	5.0	1/8-inch Teflon Tubing	4.875 to 5	na	na	na
VP-4	Shallow Soil Vapor	Nov 2009	5.0	1/8-inch Teflon Tubing	4.875 to 5	na	na	na
VP-5	Shallow Soil Vapor	Nov 2009	5.0	1/8-inch Teflon Tubing	4.875 to 5	na	na	na
VP-6	Shallow Soil Vapor	Nov 2009	5.0	1/8-inch Teflon Tubing	4.875 to 5	na	na	na
VP-7	Shallow Soil Vapor	Nov 2010	5.0	1/8-inch Teflon Tubing	4.875 to 5	na	na	na
VP-8	Shallow Soil Vapor	Nov 2010	5.0	1/8-inch Teflon Tubing	4.875 to 5	na	na	na
VP-9	Shallow Soil Vapor	Nov 2009	5.0	1/8-inch Teflon Tubing	4.875 to 5	na	na	na
VP-10	Shallow Soil Vapor	Nov 2009	5.0	1/8-inch Teflon Tubing	4.875 to 5	na	na	na

Notes:
ft NAVD88 = Feet North America Vertical Datum of 1988 (Survey Report Dates of December 18 and 26, 2018)
feet bgs = feet below ground surface
na = not applicable/available
Data prior to fourth quarter 2018 was compiled and reported by E2C Remediation, Inc.; well screen intervals updated 3rd Quarter 2020 to reflect field completion data

TABLE 7: POTENTIAL SOURCE AREA INVENTORY, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH “Y” PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)

AECOM. Regional Plume Characterization Summary Report: South “Y” PCE Plume 2019-2020 Field Season (June 10, 2022).

Appendix B
Table B-1 Potential Source Area Inventory

					Criteria High Priority (3)				Criteria Medium Priority (2)	Criteria Low Priority (1)		
Site ID	**Business Name**	**Site Address**	**APN**	**Business Type**	**Site history records indicate PCE was used or stored onsite[1]**	**DTSC waste disposal records indicate PCE used/disposed[2]**	**Site is known or suspected to have conducted dry cleaning**	**Site is known or suspected to have a parts washer**	**Site conducted business practices that could have used PCE (automotive repair, printing shops, or carpet cleaning)**	**Site does not meet other listed criteria**	**Prioritization (3) High (2) Medium (1) Low**	**Prioritization Rationale**
1	Crow's Auto Care	931 3rd Street	023-311-052-000	Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
2	Emerald Bay Towing	948 3rd Street	023-211-001-000	Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
3	Tahoe Pool Service	971 3rd Street	023-211-028-000	Other	--	--	--	--	--	X	1	(1) Site history does not indicate that PCE was used at the site.
4	Tahoe Mobile Auto Dan's Auto Works Marine Performance German Performance	2048 Dunlap Drive 2050 Dunlap Drive	023-201-021-000	Automotive Repair	X	--	--	X	--	--	3	(3) Questionnaire indicates that engine parts were washed in solvent.
5	Avista Utilities	2071 Dunlap Drive	023-191-025-000	Plumbing Supplies	--	--	--	--	--	X	1	(1) Site history does not indicate that PCE was used at the site.
6	South Shore Auto Body Tahoe Offset Printing	2116 Dunlap Drive (A/B)	023-311-023-000	Printing Auto Body Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities and/or printing operations performed at the site may have used PCE.
7	Sierra Alternators & Starters	2108 Dunlap Drive Unit (A/B)	023-311-042-000	Automotive Repair Appliance Recycler General Construction Repair/resell Generators	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
8	Meyers Marine	2140 Dunlap Drive	023-311-040-000	Boat Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
9	South Tahoe Refuse South Side Auto Body	2132 Dunlap Drive	023-311-046-000	Maintenance Shop Auto Body Repair	--	X*	--	--	--	--	3	(3) EDR indicates that South Side Auto Body at 920 Eloise Avenue was a small quantity generator of PCE/TCE. Assume similar site operations/chemical use occurred at this site.
10	I Can Fix That!	2199 Dunlap Drive	023-773-017-000	Unknown	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
11	McGee Plumbing	807 Eloise Avenue	023-281-022-000	Plumbing	--	--	--	--	--	X	1	(1) Site history does not indicate that PCE was used at the site.
12	Residential Property	821 Eloise Avenue	023-281-023-000	Residential Property Vehicle Storage/Maintenance	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
13	Gary Jones Paving	831 Eloise Avenue	023-281-005-000	Residential Property Vehicle Storage/Maintenance	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
14	Sierra Tahoe T Shirt Co KC Automotive Welcome's Auto Body Bill's Garage Precision Auto Body	867 Eloise Avenue	023-291-016-000	T-Shirt Printing Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities and/or printing operations performed at the site may have used PCE.
15	All in One Auto Repair & Towing	903 Eloise Avenue	023-291-009-000	Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
16	Coordinated Transit Systems/Sunshine/Yellow Taxi-Yellow Cab Bill's Garage	912 Eloise Avenue	023-181-047-000	Automotive Repair	--	X	--	--	--	--	3	(3) DTSC hazardous waste generator records indicate that Sunshine Taxi disposed of 250 to 500 pounds of spent PCE annually between 2010 and 2012.[2]
17	South Side Auto Body March's Auto Body Different Drummer Auto Body Del's Auto Body	920 Eloise Avenue	023-181-041-000	Automotive Repair Autobody Repair	X	X	--	--	--	--	3	(3) EDR indicates that South Side Auto Body was a small quantity generator of PCE/TCE.
18	Struve Automotive Bill's Automotive	927 Eloise Avenue	023-291-006-000	Auto Body Repair Automotive Repair	--	X	--	--	--	--	3	(3) DTSC hazardous waste generator records indicate that Struve Automotive generated approximately 117 to 325 pounds of spent PCE annually between 2011 through 2018.[2]

Appendix B
Table B-1 Potential Source Area Inventory
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Site ID	Business Name	Site Address	APN	Business Type	Criteria High Priority (3): Site history records indicate PCE was used or stored onsite[1]	Criteria High Priority (3): DTSC waste disposal records indicate PCE used/disposed[2]	Criteria High Priority (3): Site is known or suspected to have conducted dry cleaning	Criteria High Priority (3): Site is known or suspected to have a parts washer	Criteria Medium Priority (2): Site conducted business practices that could have used PCE (automotive repair, printing shops, or carpet cleaning)	Criteria Low Priority (1): Site does not meet other listed criteria	Prioritization (3) High (2) Medium (1) Low	Prioritization Rationale
19	Sierra Pacific Power CALPECO Main Office (Liberty Utilities)	933 Eloise Avenue	023-301-011-000	Automotive Repair	X	X	--	--	--	--	3	(3) Uniform Hazardous Waste Manifests included with questionnaire indicate that Liberty Utilities disposes of PCE. DTSC hazardous waste generator records indicate that Sierra Pacific Power Company disposed of approximately 67 to 375 pounds of spent PCE annually between 2007 and 2013.[2]
20	South Side Auto Body Two Guys Automotive Tahoe Test and Tune	934 Eloise Avenue	023-181-010-000	Auto Body Repair Automotive Repair	--	X*	--	--	--	--	3	(3) EDR indicates that South Side Auto Body at 920 Eloise Avenue was a small quantity generator of PCE/TCE. Assume similar site operations/chemical use occurred at this site.
21	Redwood Oil Sierra Key-Lock	2060 Eloise Avenue	023-201-020-000	Welding (current) Bulk Fueling	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
22	Berry-Hinckley Industries Bulk Fuel Chevron 1001382 Sierra Carpet Service	2070 James Avenue	023-201-004-000	Bulk Fueling	X	--	--	--	--	--	3	(3) Questionnaire indicates that Flyers Energy stores a maximum of 100 gallons of PCE at the site.
23	Pacific Bell / AT&T	2075 Eloise Avenue Dunlap & Eloise	023-201-026-000	Pacific Bell	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
24	Sierra Carpet Service	2086 Eloise Avenue	023-201-055-000	Carpet Cleaning	--	--	--	--	X	--	2	(2) Carpet cleaning activities performed at the site may have used PCE.
25	Ron Fuller Construction	2092 Eloise Avenue	023-201-063-000	Construction	--	--	--	--	--	X	1	(1) Site history does not indicate that PCE was used at the site.
26	Trinity Landscaping Walker Marine Apollo Plumbing Terry's Apollo Plumbing	2118 Eloise Avenue	023-201-061-000	Construction/Boat Repair/Plumbing	X	--	--	--	--	--	3	(3) Questionnaire indicates that chlorinated solvents have been used or stored at the site.
27	Tahoe Tours Tahoe Motors	2133 Eloise Avenue	023-201-038-000	Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
28	Creative Fabrication	2140 Eloise Avenue #1	023-201-030-000	Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
29	Eloise Automotive Alignment Sierra Automotive and Marine Specialties Engine Dynamics Co Tahoe Test Tune	2143 Eloise Avenue	023-201-060-000	Automotive Repair	--	X	--	--	--	--	3	(3) DTSC hazardous waste generator records indicate that Eloise Automotive & Alignment disposed of 117 to 292 pounds of spent PCE annually between 2013 and 2018.[2]
30	George's Performance	2176 Eloise Avenue	023-211-031-000	Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
31	Alpine Smith	2193 Eloise Avenue	023-211-003-000	Welding	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
32	Struve Automotive South Shore Transmission High Sierra Tune Up	2226 Eloise Avenue	023-211-047-000	Automotive Repair	--	X*	--	--	X	--	3	(3) DTSC hazardous waste generator records indicate that Struve Automotive at 927 Eloise Avenue generated approximately 117 to 325 pounds of spent PCE annually between 2011 through 2018 at 927 Eloise Avenue.[2] Assume similar site operations/chemical use occurred at this site.
33	Little Truckee Mobile Home Park	2333 Eloise Street	023-221-039-000	Mobile Home Park	--	--	--	--	X	--	2	(2) Printing activities performed at the site may have used PCE.
34	7-Eleven Rudy's Plumbing Ted's Fix-it Shop	800 Emerald Bay Road 807 Roger Avenue	023-172-001-000	Plumbing/Automotive Repair	X	X	--	--	--	--	3	(3) Questionnaire indicates that Ted's Fix It used chlorinated solvents. DTSC hazardous waste generator records indicate that Ted's Fix-It Shop generated 720 pounds of an unspecified solvent mixture.2
35	Fast Print	812 Emerald Bay Road	023-172-034-000	Printing Shop	--	--	--	--	X	--	2	(2) Printing activities performed at the site may have used PCE.

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Table B-1 Potential Source Area Inventory
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					Criteria High Priority (3)				Criteria Medium Priority (2)	Criteria Low Priority (1)		
Site ID	**Business Name**	**Site Address**	**APN**	**Business Type**	**Site history records indicate PCE was used or stored onsite[1]**	**DTSC waste disposal records indicate PCE used/disposed[2]**	**Site is known or suspected to have conducted dry cleaning**	**Site is known or suspected to have a parts washer**	**Site conducted business practices that could have used PCE (automotive repair, printing shops, or carpet cleaning)**	**Site does not meet other listed criteria**	**Prioritization (3) High (2) Medium (1) Low**	**Prioritization Rationale**
36	Redwood Printing Anchor Printing / BelPac South Tahoe Valley Laundromat	854 Emerald Bay Road Ste E 868 Emerald Bay Road	023-182-001-000	Printing Shop/Laundromat	--	--	--	--	X	--	2	(2) Printing activities performed at the site may have used PCE.
37	Old Stage Mobile Home Park	861 Emerald Bay	023-181-046-000	Mobile Home Park	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
38	Postal Instant Press	870 Emerald Bay Road	023-182-030-000	Printing Shop	--	--	--	--	X	--	2	(2) Printing activities performed at the site may have used PCE.
39	Former Beacon/Swiss Mart Gasoline Service Station	913 Emerald Bay Road	023-181-019-000	Gasoline Service Station (only)	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
40	Custom Carpet Clean Chem-Dry Carpet Cleaning	941 Emerald Bay Road	023-191-007-000	Carpet Cleaning	--	--	--	--	X	--	2	(2) Carpet cleaning activities performed at the site may have used PCE.
41	TCI Cable Site/Former Honda Motor Company Dealership Coldwell Banker	924 Emerald Bay Road	023-192-008-000	Cable TV Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
42	Runnels Automotive	986 Emerald Bay Road	023-523-013-000	Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
43	Former South Y Exxon Service Station Chief Auto	1000 Emerald Bay Road	023-411-025-000	Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
44	Equilon Enterprises LLC South Tahoe Shell Gasoline Service Station (South Y Shell) Shell Oil Company	1020 Emerald Bay Road	023-411-024-000	Gasoline Service Station with Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
45	Raley's South Y Center Kmart	1040/1045/1056 Emerald Bay Road	023-430-032-000	Supermarket Other	X	X	--	--	--	--	3	(3) DTSC hazardous waste generator records indicates that Kmart generated 4 to 238 pounds of PCE per year between 2007 and 2011.[2]
46	CVS Pharmacy	1043 Emerald Bay Road	023-430-036-000	Other	--	--	--	--	--	X	1	(1) Site history does not indicate that PCE was used at the site.
47	Emerald Bay Chevron (Former Chevron 9-0672)	1069 Emerald Bay Road	023-430-030-000	Gasoline Service Station with Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
48	National Car Rental	1101 Emerald Bay Road	032-191-011-000	Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
49	U-Haul	1105 Emerald Bay Road	032-191-021-000	Automotive Repair	X	--	--	--	--	--	3	(3) Suspect PCE was used at the site because PCE was detected in a soil sample from UST excavation.
50	Southside Machine Shop L&L Auto Body & Paint Shop	1119 Emerald Bay Road	032-191-020-000	Auto Body Repair Machine Shop	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
51	Former USA Gas #7 (Oasis Service Station) American #1 Lake Tahoe Body Shop Lovett's Body Shop Mathisen Automotive Expert Auto Service Christensen Automotive	1140 Emerald Bay Road 1144 Emerald Bay Road	032-141-035-000	Gasoline Service Station with Automotive Repair Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
52	DC Turbo Parts	2028 Fifth Street	023-191-022-000	Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.

Appendix B
Table B-1 Potential Source Area Inventory

Site ID	Business Name	Site Address	APN	Business Type	Criteria High Priority (3)				Criteria Medium Priority (2)	Criteria Low Priority (1)	Prioritization (3) High (2) Medium (1) Low	Prioritization Rationale
					Site history records indicate PCE was used or stored onsite[1]	DTSC waste disposal records indicate PCE used/disposed[2]	Site is known or suspected to have conducted dry cleaning	Site is known or suspected to have a parts washer	Site conducted business practices that could have used PCE (automotive repair, printing shops, or carpet cleaning)	Site does not meet other listed criteria		
53	Summit Carpets - 2032 Fifth Street Vanek's Engine Specialist - 2035 Fifth Street Crows Auto Care - 2042 Fifth Street Expert Auto Service - 2042 Fifth Street Paradise Garage - 2042 Fifth Street Performance Mobile Auto Repair - 2042 Fifth Street American Motorcycle Service - 2042 Fifth Street Performance Sleds- Polaris Parts - 2042 Fifth Street #8 Abbey Motors - 2042 Fifth Street - 2042 Fifth Street #11 Higher Grounds Autoworx - 2042 Fifth Street Unit 10	2032/2042 Fifth Street	023-191-023-000	Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
54	MTR Marine & Truck Repair	617 Glorene Avenue	023-132-016-000	Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
55	Lees Automotive Repair	2240 Idaho Avenue	023-762-004-000	Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
56	Anchor Printing	901 James Avenue	023-181-044-000	Printing Shop	--	--	--	--	X	--	2	(2) Printing activities performed at the site may have used PCE.
57	South Side Auto Body	927 James Avenue	023-181-023-000	Auto Body Repair	--	X*	--	--	--	--	3	(3) EDR indicates that South Side Auto Body at 920 Eloise Avenue was a small quantity generator of PCE/TCE. Assume similar site operations/chemical use occurred at this site.
58	Carpet Plus	2089 James Avenue	023-201-036-000	Other	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
59	Tahoe Film Works	2095 James Avenue	023-201-045-000	Printing Shop	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
60	House of Carpets Tahoe Import Supply	2227 James Avenue	023-211-048-000	Other	X	--	--	--	--	--	3	(3) Questionnaire indicates that chlorinated solvents may have been stored at the site.
61	Tahoe Diesel Service	2291 James Avenue	023-221-045-000	Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
62	South Tahoe High School	1735 Lake Tahoe Boulevard	032-040-004-000	Automotive Repair	X	--	--	--	--	--	3	(3) Case file indicates that chlorinated solvents may have been used and stored at the site.
63	Shehadi Motors Cardinale Way Toyota	1855 Lake Tahoe Boulevard	032-291-015-000	Automotive Repair	--	X	--	--	--	--	3	(3) DTSC hazardous waste generator records indicate that Shehadi Motors and Cardinale Way Toyota generated between 36 to 625 pounds of spent PCE annually between 1995 and 2018.[2]
64	South Shore Motors Subaru Sales & Service	1875 Lake Tahoe Boulevard	032-291-027-000	Automotive Repair	--	X	--	--	--	--	3	(3) DTSC hazardous waste generator records indicate that South Shore Motors generated between 68 to 220 pounds of spent PCE annually between 2000 and 2008.[2]
65	Pacific Bell	1900 Lake Tahoe Boulevard	032-291-021-000	Pacific Bell	--	--	--	--	--	X	1	(1) Site history does not indicate that PCE was used at the site.
66	AMC/Jeep.Renault Dealership Les Schwab Tire Center Baker Automotive Bill Winks Motor Sales Inc. Terry Libbon Motors - Chevrolet DBA Lake Tahoe Auto Village	1901 Lake Tahoe Boulevard	032-291-025-000	Tire Retail Automotive Repair	--	X	--	--	--	--	3	(3) DTSC hazardous waste generator records indicate that Lake Tahoe Auto Village generated approximately 140 pounds of spent PCE in 2000[2]

Appendix B
Table B-1 Potential Source Area Inventory
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					Criteria High Priority (3)				Criteria Medium Priority (2)	Criteria Low Priority (1)		
Site ID	**Business Name**	**Site Address**	**APN**	**Business Type**	**Site history records indicate PCE was used or stored onsite[1]**	**DTSC waste disposal records indicate PCE used/disposed[2]**	**Site is known or suspected to have conducted dry cleaning**	**Site is known or suspected to have a parts washer**	**Site conducted business practices that could have used PCE (automotive repair, printing shops, or carpet cleaning)**	**Site does not meet other listed criteria**	**Prioritization (3) High (2) Medium (1) Low**	**Prioritization Rationale**
67	South Lake Tahoe Kragen Auto #1654 Montgomery Ward	1920 Lake Tahoe Boulevard	032-291-030-000	Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
68	Napa/Former Lakeside Auto Scotty's Hardware	1931/1935 Lake Tahoe Boulevard	023-351-018-000	Automotive Repair Hardware Store	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
69	TJ Maxx	2015 Lake Tahoe Boulevard	023-421-001-000	Other	--	--	--	--	--	X	1	(1) Site history does not indicate that PCE was used at the site.
70	Former Lampson One Hour Cleaners Sierra Dry Cleaners S&S One Hour Dry Cleaning	2022 Lake Tahoe Boulevard	023-231-025-000	Dry Cleaner	--	--	X	--	--	--	3	(3) Dry cleaning business likely used PCE in their dry cleaning operations.
71	Former Five Star Texaco	2037 Lake Tahoe Boulevard	023-201-067-000	Gasoline Service Station with Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
72	Caltrans Corp Yard	2061 Lake Tahoe Boulevard	023-201-011-000	Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
73	Ross Groelz DDS	2074 Lake Tahoe Boulevard	023-231-004-000	Other	--	--	--	--	--	X	1	(1) Site history does not indicate that PCE was used at the site.
74	Ken's Tire Center	2104 Lake Tahoe Boulevard	023-231-019-000	Tire Retail Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
75	Eastern Sierra Histology Sierra One Hour Photo	2176 Lake Tahoe Boulevard	023-241-015-000	Other Printing Shop	--	--	--	--	X	--	2	(2) Printing activities performed at the site may have used PCE.
76	Classic Dry Cleaners Hills Center Wash & Fold Laundromat Uncle Bobs Laundromat High Sierra Coin Laundry	2180 Lake Tahoe Boulevard	023-241-015-000	Dry Cleaner	--	--	X	--	--	--	3	(3) Dry cleaning business likely used PCE in their dry cleaning operations.
77	Instant Copy	2197 Lake Tahoe Boulevard	023-211-040-000	Printing Shop	--	--	--	--	X	--	2	(2) Printing activities performed at the site may have used PCE.
78	Alpine Carpets	2210 Lake Tahoe Boulevard	023-241-053-000	Carpet Installation	--	--	--	--	--	X	1	(1) Site history does not indicate that PCE was used at the site.
79	Road Rash Café	2218 Lake Tahoe Boulevard	023-241-011-000	Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
80	House of Carpets	2280 Lake Tahoe Boulevard	023-251-008-000	Carpet Installation	--	--	--	--	--	X	1	(1) Site history does not indicate that PCE was used at the site.
81	Tahoe Auto Parts	2291 Lake Tahoe Boulevard	023-221-009-000	Part Sales	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
82	One Hour Martinizing Tahoe One Hour Cleaners	2301 Lake Tahoe Boulevard	023-221-033-000	Dry Cleaner	--	X	X	--	--	--	3	(3) Dry cleaning business likely used PCE in their dry cleaning operations. DTSC hazardous waste generator records indicate that Tahoe One Hour Cleaners generated 1,300 pounds of spent halogenated solvent in 1997.[2]
83	CSK Auto, Inc. Tires Plus O'Reilly Auto Wheel Works	2317 Lake Tahoe Boulevard	031-020-017-000	Automotive Repair Part Sales	--	X	--	--	--	--	3	(3) DTSC hazardous waste generator records indicate that Wheel Works generated 42 to 240 pounds of spent PCE annually between 2002 and 2004.[2]
84	Beacon Station No 688	2304 Lake Tahoe Boulevard	031-041-002-000	Gasoline Service Station Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
85	Billy's Auto Body Ed's Auto Body	2314 Lake Tahoe Boulevard	031-041-010-000	Auto Body Repair	X	--	--	--	--	--	3	(3) Case file indicates that PCE was detected below a floor drain at concentration of 1,200 milligrams per kilogram.
86	Fast Print	2331 Lake Tahoe Boulevard	031-020-027-000	Printing Shop	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
87	Union Oil SS #5170	2467 Lake Tahoe Boulevard	031-290-048-000	Gasoline Service Station with Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.

Appendix B
Table B-1 Potential Source Area Inventory
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Site ID	Business Name	Site Address	APN	Business Type	Criteria High Priority (3)				Criteria Medium Priority (2)	Criteria Low Priority (1)	Prioritization (3) High (2) Medium (1) Low	Prioritization Rationale
					Site history records indicate PCE was used or stored onsite[1]	DTSC waste disposal records indicate PCE used/disposed[2]	Site is known or suspected to have conducted dry cleaning	Site is known or suspected to have a parts washer	Site conducted business practices that could have used PCE (automotive repair, printing shops, or carpet cleaning)	Site does not meet other listed criteria		
88	SLT Automotive	1107 Margaret Avenue	032-278-004-000	Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
89	Kelly's Mobile Auto Repair	1150 Melba Drive	032-191-010-000	Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
90	Tahoe Transmission Art's Transmission	2105 Ruth Avenue	023-311-041-000	Automotive Repair	--	--	--	X	--	--	3	(3) Business plan site map shows two "solvent sinks" and a "cleaning machine.
91	Five Star Auto Mikes Garage Bijou Shell Service Station Bills Automotive	2119 Ruth Avenue	023-311-044-000	Automotive Repair	--	X	--	--	--	--	3	(3) DTSC hazardous waste generator records indicate that Five Star Automotive disposed of hydrocarbon solvents which contained 150 pounds of PCE in 2007.[2]
92	South Tahoe Refuse	2140 Ruth Avenue	023-311-048-000	Automotive Repair	X	--	--	--	--	--	3	(3) Questionnaire indicates that chlorinated solvents have been used and stored onsite.
93	Alpine Metals	2152 Ruth Avenue	023-311-013-000	Metal Fabrication Welding and Powder Coating	--	--	--	--	--	X	1	(1) Site history does not indicate that PCE was used at the site.
94	Axelson Iron Shop	2184 Ruth Avenue	023-311-055-000	Metal Fabrication Welding	--	--	--	--	--	X	1	(1) Site history does not indicate that PCE was used at the site.
95	Norm's Auto Repair	2186 Ruth Avenue	023-311-054-000	Automotive Repair Metal Fabrication Welding	X	--	--	X	--	--	3	(3) Questionnaire indicates that chlorinated solvents have been used and stored onsite.
96	Dunn's Auto Repair Diamond Jim's LTD Scott's Custom Machine Diamond Woodcraft	2197 Ruth Avenue	023-684-013-000	Cabinet Maker	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
97	Welcome's Auto Body Ben's Place Precision Body Work & Painting	1612 Shop Street	032-313-020-000	Auto Body Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
98	Alpine Carpets	1655 Shop Street	032-312-015-000	Carpet	--	--	--	--	--	X	1	(1) Site history does not indicate that PCE was used at the site.
99	City of SLT Bus Depot Stage Bus Property	1663/1669/1679 Shop Street	032-312-014-000, 032-312-008-000, & 032-312-009-000	Automotive Repair	X	X	--	X	--	--	3	(3) Questionnaire indicates that chlorinated solvents have been used and stored onsite. DTSC hazardous waste generator records indicate that the City of South Lake Tahoe generated 67 to 130 pounds annually of PCE from 1998 to 2006.[2]
100	City of South Lake Tahoe Cabinet/Paint Shops	1678 Shop Street	032-313-014-000	Carpenter Facility, Paint Stripping Storage	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
101	Tectrans Area Transit Management Inc El Dorado Motors Old El Dorado Motors	1669 Shop Street	032-312-008-000	Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
102	Sam's Auto Care & Mobile Repair	1670 Shop Street	032-313-015-000	Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
103	Cella's Paint & Body Shop	1679 Shop Street	032-312-009-000	Auto Body Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
104	Delta Tahoe Ind. Prop. Radiator Doctor Tahoe Diesel Service Giuespie Diesel Delta	1012 Industrial Avenue	032-314-037-000	Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
105	Sierra Shirts Inc.	1030 Industrial Avenue	032-314-002-000	Mini Storage	--	--	--	--	--	X	1	(1) Site history does not indicate that PCE was used at the site.
106	Owen Brothers Transfer	1031 Industrial Avenue	032-313-021-000	Moving and Storage	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
107	Barkley Meat Co	1069 Industrial Avenue	032-313-030-000	Other	--	--	--	--	--	X	1	(1) Site history does not indicate that PCE was used at the site.

Appendix B
Table B-1 Potential Source Area Inventory
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Site ID	Business Name	Site Address	APN	Business Type	Criteria High Priority (3)				Criteria Medium Priority (2)	Criteria Low Priority (1)	Prioritization (3) High (2) Medium (1) Low	Prioritization Rationale
					Site history records indicate PCE was used or stored onsite[1]	DTSC waste disposal records indicate PCE used/disposed[2]	Site is known or suspected to have conducted dry cleaning	Site is known or suspected to have a parts washer	Site conducted business practices that could have used PCE (automotive repair, printing shops, or carpet cleaning)	Site does not meet other listed criteria		
108	Tahoe Asphalt	1104 Industrial Avenue	032-314-016-000	Automotive Repair	X	--	--	--	--	--	3	(3) Questionnaire indicates that chlorinated solvents have been used and stored onsite. Case file indicates that PCE was detected in soil at the site.
109	City of South Lake Tahoe Corporation Yard Public Works Equipment Maintenance	1700 D Street	032-312-001-000	Automotive Repair	X	X	--	--	--	--	3	(3) Questionnaire indicates that chlorinated solvents have been used and stored onsite. DTSC hazardous waste generator records indicate that the City of South Lake Tahoe generated 29 to 277 pounds of PCE annually between 1995 and 2011 [2]
110	UPS - 1746 D Street Rodney's Import Auto - 1748 D Street Sierra Fleet - 1748 D Street Tahoe Test & Tune - 1748 D Street #2 Rubicon Moon Automotive	1746/1748 D Street	032-313-032-000	Automotive Repair	--	X	--	--	--	--	3	(3) DTSC hazardous waste generator records indicate that Tahoe Import Auto disposed of 58 to 233 pounds of PCE annually between 2010 and 2018 and Rubicon Moon Automotive disposed of 58 to 292 pounds of PCE annually between 2014 and 2018.[2]
111	Perry's Auto Body	1796 D Street	032-313-019-000	Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
112	Euro-Asian Imports Inc.	1800 D Street	032-314-012-000	Unknown	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
113	Outpatient Medical Imaging	2169 South Avenue	023-392-019-000	Medical Waste	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
114	Barton Memorial Hospital	2170 South Avenue	023-081-003-000	Medical Waste	--	X	--	--	--	--	3	(3) DTSC hazardous waste generator records indicate that Barton Memorial Hospital disposed of 33 to 100 pounds of PCE annually between 2011 and 2018.[2]
115	Newport Pacific Tahoe Verde LPD / Tahoe Verde Mobile Home Park	1080 Julie Lane	032-301-011-000	Mobile Home Park	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
116	Kmart	1030 Tata Lane	032-291-023-000	Automotive Repair	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
117	Tahoe Valley Townhomes USA Gasoline Corp	1055 Tata Lane	032-430-022-000	Other	--	--	--	--	--	X	1	(1) Site history does not indicate that PCE was used at the site.
118	Tahoe Keys POA	2100 Texas Avenue	022-200-005-000	Water Treatment	--	--	--	--	--	X	1	(1) Site history does not indicate that PCE was used at the site.
119	Lake Tahoe Orthopedic Institute	599 Tahoe Keys Boulevard, Aspen	022-210-030-000	Other	--	--	--	--	--	X	1	(1) Site history does not indicate that PCE was used at the site.
120	Lukins Brothers Water Company	2031 West Way	023-111-032-000	Water Utilities	--	--	--	--	X	--	2	(2) Vehicle maintenance activities performed at the site may have used PCE.
121	Alpine Smith, Inc.	2120 Barton Avenue	023-231-011-000	Personal Garage Snow Removal	--	--	--	--	--	X	1	(1) Site history does not indicate that PCE was used at the site.
122	Hurzel / Former Norma's Cleaners	945, 949, and 961 Emerald Bay Road	023-191-021-000	Dry Cleaner	X	--	X	--	--	--	3	(3) Dry cleaning business used PCE in their dry cleaning operations. PCE was detected in soil onsite.
123	Big O Tires	1961 Lake Tahoe Boulevard	023-523-008-000	Automotive Repair	X	--	--	X	--	--	3	(3) Case file indicates that chlorinated solvents have been used and stored onsite. PCE was detected in soil onsite.
124	Liberty Utilities	2129 Dunlap Drive	023-301-007-000	Automotive Repair	X*	--	--	--	--	--	3	(3) Liberty Utilities at 933 Eloise has used and stored PCE and this is property where maintenance activities are performed.
125	Lake Tahoe Laundry Works	1024 Lake Tahoe Boulevard	023-430-032-000	Dry Cleaner	X	--	X	--	--	--	3	(3) Dry cleaning business used PCE in their dry cleaning operations. PCE was detected in soil onsite.

Table B-1 Potential Source Area Inventory

					Criteria High Priority (3)				Criteria Medium Priority (2)	Criteria Low Priority (1)		
Site ID	Business Name	Site Address	APN	Business Type	Site history records indicate PCE was used or stored onsite[1]	DTSC waste disposal records indicate PCE used/disposed[2]	Site is known or suspected to have conducted dry cleaning	Site is known or suspected to have a parts washer	Site conducted business practices that could have used PCE (automotive repair, printing shops, or carpet cleaning)	Site does not meet other listed criteria	Prioritization (3) High (2) Medium (1) Low	Prioritization Rationale

Notes

1) Site history records reviewed included questionnaire responses, information from previous site investigations, and available hazardous chemical use and disposal records.
2). Information obtained from EKI's *Investigation Summary Report,* Former LTLW, 1024 Lake Tahoe Boulevard, dated April 3, 2020.

Abbreviations

-- = unknown or not applicable
* = Assume site used chlorinated solvents because business operated at another site address and known to have used chlorinated solvents.
APN = Assessor's Parcel Number
DTSC = Department of Toxic Substances Control
EDR = Environmental Data Resources Inc Radius Map Report
LTLW = Lake Tahoe Laundry Works
PCE = tetrachloroethene
TCE = trichloroethene

TABLE 8: POTENTIAL RECEPTOR INVENTORY, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH “Y” PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)

AECOM. Regional Plume Characterization Summary Report: South “Y” PCE Plume 2019-2020 Field Season (June 10, 2022).

Appendix B
Table B-2 Potential Receptor Inventory
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Well ID	Well Name	Well Type	Status	Total Depth (feet bgs)	Filter Pack Interval (feet bgs)	Screened Interval (feet bgs)	Easting[1] (feet)	Northing[1] (feet)	Elevation[2] (feet)	Coordinate Source[3]	DWR Well Log Number	Date Installed	Destruction Date	Access Granted[4]	Impaired[5]	Impacted[6]	Threatened[7]	Well has not been sampled for PCE[8]	Well located within lateral extent of 0.5 µg/L plume[9]	Well located 3,000 feet downgradient/ cross gradient of 0.5 µg/L plume[9]	Receptor Evaluation[10]
M02	LBWC #1	WSW-M	Active	182.0	--	132-182	7124239.48	2104069.62	6261.44	Surveyed	Well Log Pump #1	--	--	--	--	--	<0.5 µg/L (2020)	--	--	X	Threatened
M07	TKWC #1	WSW-M	Active	318.0	78-341	125-312	7129225.45	2107866.41	6238.18	Surveyed	66839	8/18/1961	--	--	--	4 µg/L (2016)	--	--	X	--	Impacted
M09	TKWC #3	WSW-M	Active	320.0	117-364	175-300	7124155.08	2106708.39	6238.79	Surveyed	225563	11/13/1983	--	--	--	--	<0.5 µg/L[11] (2020)	--	--	X	Threatened
M10	Bayview Well	WSW-M	Active	550.0	170-380 406-435 502-550	180-300 340-370 410-430 510-540	7133335.16	2110423.49	6255.49	Surveyed	804391	9/3/2004	--	--	--	--	<0.5 µg/L (2021)	--	--	--	Threatened[12]
M06	LBWC #5	WSW-M	Active	255.0	--	141-180	7126619.89	2104838.30	6250.77	Surveyed	Well Log Pump #5	--	--	--	67 µg/L (2017)	--	--	--	X	--	Impaired with wellhead treatment
M08	TKWC #2	WSW-M	Active	501.0	75-510	138-188 348-414 426-491	7127263.75	2105977.30	6237.87	Surveyed	79128 - revised	5/8/1972	--	--	31 µg/L (2020)	--	--	--	X	--	Impaired with wellhead treatment
P01	788 Glorene	WSW-P	Active	140.0	25-140	100-140	7126802.76	2102032.92	6292.79	Estimated	497012	9/4/1992	--	No	--	--	--	X	X	--	Threatened/Potential Receptor (no access)
P02	702 Emerald Bay	WSW-P	Active	200.0	33-200	160-200	7126505.14	2103007.40	6290.61	Estimated	474551	12/20/1996	--	No	--	1.8 µg/L (2005)	--	--	X	--	Impacted (no access)
P03	748 Roger	WSW-P	Active	67.0	--	56-65	7126805.55	2102439.14	6298.91	Estimated	12N/18E-5F	8/20/1953	--	Yes	--	--	--	X	X	--	Threatened/Potential Receptor
P04	1995 12th St	WSW-P	Active	--	--	--	7126285.78	2103071.72	6291.82	Estimated	--	--	--	Yes	--	--	<0.5 µg/L (2019)	--	X	--	Threatened
P07	609 Eloise Ave	WSW-P	Active	138.0	--	58-78 98-118	7125611.42	2103945.06	6253.57	Estimated	789960	5/15/2002	--	Yes	--	--	<0.5 µg/L (2019)	--	X	--	Threatened
P08	575 Eloise Ave	WSW-P	Active	--	--	--	7125325.19	2104107.70	6246.44	Estimated	--	--	--	Yes	--	--	<0.5 µg/L (2019)	--	--	X	Threatened
P09	621 Eloise Ave	WSW-P	Active	180.0	--	85-165	7125701.77	2103925.32	6255.36	Estimated	316941 (Deepen)	8/3/2016	--	Yes	--	--	<0.5 µg/L (2019)	--	X	--	Threatened
P10	608 Emerald Bay	WSW-P	Active	--	--	--	7125383.10	2103241.18	6277.41	Estimated	--	--	--	Yes	--	--	<0.5 µg/L (2019)	--	X	--	Threatened
P12	2181 Jean	WSW-P	Active	58.0	--	34-58	7131701.51	2101468.75	6266.98	Estimated	51526	6/14/1958	--	No	--	--	--	X	--	X	Threatened/Potential Future Receptor (no access)
P17	762 Glorene	WSW-P	Active	--	--	--	7126618.30	2102243.81	6298.33	Estimated	--	--	--	No	--	--	--	X	X	--	Threatened/Potential Receptor (no access)
P58	2363 Washington	WSW-P	Active	--	--	--	7131292.18	2105066.73	6238.67	Estimated	--	--	--	No	--	--	--	X	X	--	Threatened/Potential Receptor (no access)
P05	675 Emerald Bay	WSW-S	Active	--	--	--	7126255.07	2103303.93	6273.25	Estimated	--	--	--	Yes	--	--	<0.5 µg/L (2019)	--	X	--	Threatened
P06	661 Emerald Bay	WSW-S	Active	--	--	--	7126026.36	2103365.23	6269.88	Estimated	--	--	--	No	--	--	<0.5 µg/L (2019)	--	X	--	Threatened (no access)
P13	2241 Lake Tahoe	WSW-S	Active	80.0	--	52-78	7131566.65	2102745.12	6256.40	Estimated	64004	8/27/1960	--	Yes	--	--	--	X	--	X	Threatened/Potential Future Receptor
P14	2218 Lake Tahoe	WSW-S	Active	--	--	--	7131520.32	2102342.30	6258.86	Estimated	--	--	--	No	--	--	--	X	--	X	Threatened/Potential Future Receptor (no access)
P18	2205 Lake Tahoe	WSW-P	Active*	--	--	--	7131205.51	2102422.42	6259.02	Estimated	--	--	--	No	--	--	--	X	--	X	Threatened/Potential Future Receptor (no access)
P59	1963 15th	WSW-P	Active*	--	--	--	7124324.35	2103127.44	6279.43	Estimated	--	--	--	No	--	--	--	X	--	X	Threatened/Potential Future Receptor (no access)
P60	733 Eloise	WSW-P	Active*	--	--	--	7127017.70	2103580.73	6263.35	Estimated	--	--	--	No	--	--	--	X	X	--	Threatened/Potential Receptor (no access)
P61	942 S Shore	WSW-P	Active*	--	--	--	7129685.24	2102969.19	6251.26	Estimated	--	--	--	No	--	--	--	X	X	--	Threatened/Potential Receptor (no access)
M11	Clement	WSW-M	Inactive	140.0	--	40-70 71-120	7127472.52	2100455.93	6282.58	Surveyed	--	--	--	--	200 µg/L[13] (1996)	--	--	--	--	X	Impaired (historical)
M12	Industrial #2	WSW-M	Inactive	210.0	--	40-92 97-102 110-190	7128379.60	2096686.15	6306.82	Surveyed	--	--	--	--	--	1.6 µg/L (1995)	--	--	--	--	Impacted from unknown source
M13	Tata #1	WSW-M	Inactive	223.0	--	36-105 167-223	7129151.79	2098568.51	6284.79	Surveyed	--	--	--	--	--	--	<0.5 µg/L (2006)	--	--	--	Not a receptor

Appendix B
Table B-2 Potential Receptor Inventory
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Well ID	Well Name	Well Type	Status	Total Depth (feet bgs)	Filter Pack Interval (feet bgs)	Screened Interval (feet bgs)	Easting[1] (feet)	Northing[1] (feet)	Elevation[2] (feet)	Coordinate Source[3]	DWR Well Log Number	Date Installed	Destruction Date	Access Granted[4]	Impaired[5]	Impacted[6]	Threatened[7]	Well has not been sampled for PCE[8]	Well located within lateral extent of 0.5 µg/L plume[9]	Well located 3,000 feet downgradient/ cross gradient of 0.5 µg/L plume[9]	Receptor Evaluation[10]
M14	Tata #2	WSW-M	Inactive	193.0	--	73-193	7129166.11	2098536.37	6284.11	Surveyed	--	--	--	--	--	--	<0.5 µg/L (2006)	--	--	--	Not a receptor
M15	Tata #3	WSW-M	Inactive	225.0	--	55-75 200-220	7129060.99	2098558.09	6288.34	Surveyed	--	--	--	--	--	--	<0.5 µg/L (2006)	--	--	--	Not a receptor
P36	903 Eloise	WSW-P	Inactive	76.0	--	56-76	7128645.02	2102214.68	6264.86	Estimated	49374	5/28/1958	--	Yes	8.4 µg/L (2015)	--	--	--	X	--	Impaired
P37	788 Roger	WSW-P	Inactive	95.0	--	64-92	7127116.62	2102112.63	6279.71	Estimated	16729	6/18/1954	--	No	--	--	--	X	X	--	Threatened/Potential Receptor (no access)
P38	883 Eloise	WSW-P	Inactive	64.0	--	44-64	7128554.40	2102279.96	6265.42	Estimated	49369	5/21/1958	--	Yes	52 µg/L (2014)	--	--	--	X	--	Impaired
P39	705 Eloise	WSW-P	Inactive	60.0	--	36-60	7126780.36	2103695.71	6261.16	Estimated	44736	7/2/1957	--	Yes	--	--	<0.5 µg/L (2014)	--	X	--	Threatened
P41	2013 7th St	WSW-P	Inactive	--	--	--	7127984.39	2102083.18	6269.36	Estimated	--	--	--	No	--	--	0.24 µg/L (2014)	--	X	--	Threatened (no access)
P43	536 Emerald Bay	WSW-P	Inactive	--	--	--	7124581.53	2103434.26	6269.81	Estimated	--	--	--	No	--	--	--	X	--	X	Threatened/Potential Future Receptor (no access)
P40	868 Emerald Bay	WSW-S	Inactive	72.0	--	--	7127970.05	2101789.63	6273.24	Estimated	--	--	--	Yes	>MCL[14]	--	--	--	X	--	Impaired
P42	Rockwater	WSW-S	Inactive	101.0	--	70-99	7127354.76	2102570.28	6274.12	Estimated	--	--	--	Yes	280 µg/L (2014)	--	--	--	X	--	Impaired
P44	2333 Eloise	WSW-S	Inactive	--	--	--	7131304.82	2102874.86	6250.38	Estimated	--	--	--	No	--	--	--	X	--	X	Threatened/Potential Future Receptor (no access)
P45	Tahoe Valley Elem	WSW-S	Inactive	150.0	--	86-146	7129563.60	2103867.34	6248.82	Estimated	56756	6/20/1959	--	Yes	--	1.8 µg/L (2005)	--	--	X	--	Impacted
P47	2187 Lake Tahoe	WSW-S	Inactive	--	--	--	7131014.08	2102366.48	6255.53	Estimated	--	--	--	Yes	--	--	--	X	--	X	Threatened/Potential Future Receptor (no access)
P15	Lapham and Dunlap	WSW-P	Inactive/ Unknown	64.0	--	24-48	7129409.53	2102448.48	6255.34	Estimated	44749	8/24/1957	--	--	--	--	--	X	X	--	Unknown[15]
P19	2173 Ruth	WSW-P	Inactive/ Unknown	64.0	--	44-64	7130322.59	2102830.65	6259.94	Estimated	55738	9/10/1959	--	Yes	--	--	--	X	X	--	Unknown[15]
P20	924 Emerald Bay	WSW-P	Inactive/ Unknown	116.0	--	94-114	7128623.03	2101277.20	6267.76	Estimated	83911	3/15/1961	--	Yes	--	--	--	X	X	--	Unknown[15]
P21	888 Emerald Bay	WSW-P	Inactive/ Unknown	84.0	--	64-84	7128394.50	2101497.67	6272.36	Estimated	55749	12/19/1959	--	No	--	--	--	X	X	--	Unknown[15]
P22	858 Glorene	WSW-P	Inactive/ Unknown	80.0	--	54-78	7127546.04	2101489.28	6273.39	Estimated	16735	7/30/1954	--	Yes	--	--	--	X	X	--	Unknown[15]
P23	933 Eloise	WSW-P	Inactive/ Unknown	60.0	--	40-60	7129049.35	2102016.19	6263.49	Estimated	57803	5/18/1960	--	Yes	--	--	--	X	X	--	Unknown[15]
P24	953 Eloise	WSW-P	Inactive/ Unknown	44.0	--	20-44	7129228.47	2101868.22	6255.26	Estimated	44723	5/7/1957	--	Yes	--	--	--	X	X	--	Unknown[15]
P25	Eloise and 5th St	WSW-P	Inactive/ Unknown	24.0	--	12-24	7129025.77	2101832.45	6261.44	Estimated	37170	8/31/1956	--	--	--	--	--	X	X	--	Unknown[15]
P26	961 Eloise	WSW-P	Inactive/ Unknown	44.0	--	24-44	7129275.82	2101759.25	6259.89	Estimated	44733	6/18/1957	--	Yes	--	--	--	X	X	--	Unknown[15]
P27	2074 Lake Tahoe	WSW-P	Inactive/ Unknown	60.0	--	36-56	7130313.83	2101119.81	6265.32	Estimated	64066	1/18/1962	--	Yes	--	--	--	X	--	X	Unknown
P28	989 Tahoe Keys	WSW-P	Inactive/ Unknown	68.0	--	40-68	7131763.94	2102844.54	6254.72	Estimated	49357	4/24/1958	--	Yes	--	--	--	X	--	X	Unknown
P29	2155 South	WSW-P	Inactive/ Unknown	85.0	--	71-82	7131294.74	2100439.44	6278.62	Estimated	09-043	5/24/1950	--	Yes	--	--	--	X	--	X	Unknown
P31	2318 Lake Tahoe	WSW-P	Inactive/ Unknown	72.0	--	47-71	7132460.18	2103146.60	6246.55	Estimated	09-039	4/26/1954	--	No	--	--	--	X	--	X	Unknown
P32	2309 Eloise	WSW-P	Inactive/ Unknown	68.0	--	56-66	7131858.92	2103609.07	6250.16	Estimated	09-040	8/4/1953	--	No	--	--	--	X	--	X	Unknown
P33	2220 Helen	WSW-P	Inactive/ Unknown	64.0	--	45-63	7131849.71	2101962.34	6258.26	Estimated	09-041	9/5/1953	--	Yes	--	--	--	X	--	X	Unknown
P34	2197 Lake Tahoe	WSW-P	Inactive/ Unknown	79.0	--	48-76	7131118.09	2102334.53	6259.03	Estimated	27476	5/16/1955	--	No	--	--	--	X	--	X	Unknown
P35	2131 South	WSW-P	Inactive/ Unknown	76.0	--	40-74	7130808.19	2100433.83	6277.61	Estimated	27483	7/18/1955	--	No	--	--	--	X	--	X	Unknown

Appendix B
Table B-2 Potential Receptor Inventory
(Page 3 of 4)

Well ID	Well Name	Well Type	Status	Total Depth (feet bgs)	Filter Pack Interval (feet bgs)	Screened Interval (feet bgs)	Easting[1] (feet)	Northing[1] (feet)	Elevation[2] (feet)	Coordinate Source[3]	DWR Well Log Number	Date Installed	Destruction Date	Access Granted[4]	Impaired[5]	Impacted[6]	Threatened[7]	Well has not been sampled for PCE[8]	Well located within lateral extent of 0.5 µg/L plume[9]	Well located 3,000 feet downgradient/ cross gradient of 0.5 µg/L plume[9]	Receptor Evaluation[10]
P46	629 Eloise	WSW-P	Inactive/ Unknown	68.0	--	56-66	7125760.63	2103910.21	6256.76	Estimated	09-056	8/11/1953	--	Yes	--	--	--	X	X	--	Unknown[15]
M03	LBWC #2	WSW-M	Destroyed	156.0	--	132-156	7126621.33	2104809.06	6251.45	Surveyed	Well Log Pump #2	Before 1950	5/12/2020	--	46 µg/L (2014)	--	--	--	X	--	Impaired/Destroyed
M04	LBWC #3	WSW-M	Destroyed	80.0	--	40-78	7128765.18	2101785.19	6269.07	Estimated	09-047	9/28/1963	10/14/2011	--	79 µg/L (1989)	--	--	--	X	--	Impaired/Destroyed
M05	LBWC #4	WSW-M	Destroyed	174.0	--	43-63 68-78 105-115	7128245.69	2103226.99	6249.78	Surveyed	Video Survey 2/17/2016	1966/1970	6/26/2020	--	55.1 µg/L (2016)	--	--	--	X	--	Impaired/Destroyed
M16	Julie	WSW-M	Destroyed	135.0	--	65-100 115-125	7127899.78	2099274.00	6280.11	Surveyed	--	--	6/28/1905	--	8.4 µg/L[12] (1993)	--	--	--	--	--	Impaired/Destroyed
M17	South Y	WSW-M	Destroyed	260.0	--	190-260	7129040.41	2099791.61	6280.81	Surveyed	--	--	9/8/2006	--	--	0.6 µg/L[13] (2001)	--	--	--	--	Impacted/Destroyed
M18	Tata #4	WSW-M	Destroyed	135.0	--	84-125	7128741.61	2099747.12	6281.91	Estimated	--	--	October 2006	--	--	2.6 µg/L[13] (1991)	--	--	--	--	Impacted/Destroyed
M19	Industrial #1	WSW-M	Destroyed	250.0	--	139-149 165-195	7127122.35	2096306.86	6320.29	Surveyed	--	--	January 2001	--	--	--	<0.5 µg/L (1999)	--	--	--	Not a receptor/Destroyed
P48	681 Emerald Bay	WSW-P	Destroyed	50.0	--	--	7125630.43	2103487.36	6267.60	Estimated	--	--	11/17/2005	--	--	--	--	X	X	--	Destroyed[15]
P50	609 Emerald Bay	WSW-P	Destroyed	92.0	--	68-92	7125443.53	2103536.47	6265.05	Estimated	51529	7/12/1958	8/20/2008	--	--	--	--	X	--	X	Destroyed
P52	921 Eloise	WSW-P	Destroyed	70.0	--	--	7128754.34	2102231.93	6265.43	Estimated	--	--	11/1/2000	--	--	--	--	X	X	--	Destroyed[15]
P53	848 Glorene	WSW-P	Destroyed	76.0	--	--	7127472.00	2101570.00	6275.34	Estimated	--	--	9/26/2003	--	17 µg/L (2003)	--	--	--	X	--	Impaired/Destroyed
P54	2111 Dunlap	WSW-P	Destroyed	52.0	--	32-52	7129472.91	2101884.67	6261.65	Estimated	44745	8/13/1957	12/13/1999	--	12 µg/L (1999)	--	--	--	X	--	Impaired/Destroyed
P55	822 Emerald Bay	WSW-P	Destroyed	46.0	--	--	7127679.92	2102029.52	6269.83	Estimated	--	--	10/23/1997	--	--	--	--	X	X	--	Destroyed[15]
P56	788 Glorene	WSW-P	Destroyed	64.0	--	--	7126802.76	2102032.92	6292.78	Estimated	--	--	7/28/2006	--	--	--	--	X	X	--	Destroyed[15]
P49	751 Emerald Bay	WSW-S	Destroyed	101.0	--	70-99	7127135.38	2102725.39	6276.73	Estimated	09-058	5/12/1953	8/30/2001	--	--	--	--	X	X	--	Destroyed[15]
P51	Crystal Range Motel	WSW-S	Destroyed	44.0	--	--	7128991.00	2101350.00	6265.69	Estimated	--	--	6/29/2006	--	--	2.9 µg/L (1999)	--	--	X	--	Impacted/Destroyed
P57	861 Emerald Bay / Old Stage	WSW-S	Destroyed	120.0	--	--	7128182.15	2102061.78	6268.55	Estimated	--	1983	9/27/2001	--	63 µg/L (1989)	--	--	--	X	--	Impaired/Destroyed

Appendix B
Table B-2 Potential Receptor Inventory

Well ID	Well Name	Well Type	Status	Total Depth (feet bgs)	Filter Pack Interval (feet bgs)	Screened Interval (feet bgs)	Easting[1] (feet)	Northing[1] (feet)	Elevation[2] (feet)	Coordinate Source[3]	DWR Well Log Number	Date Installed	Destruction Date	Access Granted[4]	Impaired[5]	Impacted[6]	Threatened[7]	Well has not been sampled for PCE[8]	Well located within lateral extent of 0.5 µg/L plume[9]	Well located 3,000 feet downgradient/ cross gradient of 0.5 µg/L plume[9]	Receptor Evaluation[10]

Notes:
1. North American Datum of 1983, State Plane Coordinate System, California, Zone 2.
2. North American Vertical Datum of 1988. Surveyed elevation refers to top of casing and Estimated elevation refers to ground surface.
3. Coordinate Source = Surveyed, if location was surveyed by a licensed land surveyor. Coordinate Source = Estimated, if estimated by AECOM. AECOM used Lidar information to estimate elevation from Northing and Easting.
4. Only applicable for well types: WSW-P and WSW-S and indicates if property owner will allow access to inspect/sample well.
5. Impaired indicates that PCE has been detected in the supply well at a concentration that exceeds the MCL. If PCE groundwater data for well is available, reported maximum concentration is provided with year when maximum concentration was detected.
6. Impacted indicates that PCE has been detected in the supply well at a concentration above the reporting limit and below the MCL. If PCE groundwater data for well is available, reported maximum concentration is provided with year when maximum concentration was detected.
7. Threatened indicates that PCE has not been detected in the supply well above the reporting limit and supply well is located within the estimated lateral extent of the 0.5 µg/L iso-contour of the South “Y” PCE Plume or 3,000 feet downgradient/cross gradient from the estimated lateral extent of the 0.5 µg/L iso-contour of the South “Y” PCE Plume. If PCE groundwater data for well is available, then year the well was last sampled is indicated.
8. PCE groundwater data are not available to evaluate the potential threat to the receptor identified.
9. See Figure 15 for the estimated lateral extent of 0.5 µg/L iso-contour of the South "Y" Plume.
10. The receptor evaluation displays the results of a screening evaluation utilizing currently available data (i.e., PCE groundwater data) and is subject to change as new groundwater data becomes available.
11. PCE was detected in TKWC # 3 at concentration of 1.1 µg/L on March 3, 2020. The TKWC suspects the sampling result may be an anomaly because PCE has not been detected in municipal supply well TKWC #3 during previous or subsequent monitoring events.
12. Although the Bayview Well is located over 3,000 feet from the estimated lateral extent of the 0.5 µg/L iso-contour of the South "Y" Plume, the well was classified as threatened as a "conservative" designation. This "conservative" designation was assigned because the well has been identified as a critical component of the community water supply and accounts for 40% of the community water supply.
13. Supply well is located upgradient from the regional PCE plume but was impacted or impaired from PCE contamination during historical pumping operations (i.e. the water supply well created a capture zone with localized groundwater flow directions and gradients and pumped contained contaminated groundwater likely originating from the South "Y" Area Plume).
14. The property owner reported the well was impaired by the regional PCE plume in 1996 and was impacted prior (no PCE sampling records were located).
15. Supply well may have been impaired or impacted in the past.

Abbreviations:
'-- = unknown or not applicable
Active = well is currently in use
Active* = assume property has an active well because the property has a sewer connection with the District and does not have a municipal water connection with LBWC or the District
bgs = below ground surface
Destroyed = El Dorado County well destruction records are available
District = the South Tahoe Public Utilities District
DWR = Department of Water Resources
Inactive = well has been identified and no longer in use
Inactive/Unknown = well has been identified or suspected based on interpretation of well location description on DWR Well Log and property owner cannot locate the well and El Dorado County well destruction records are not available.
LBWC = Lukins Brothers Water Company
MCL = maximum contaminant level for PCE is 5 µg/L
µg/L = micrograms per liter
Not a receptor = indicates that the supply well is located upgradient or more than 3,000 feet downgradient/cross gradient from the estimated lateral extent of the 0.5 µg/L iso-contour of the South “Y” PCE Plume
TD = total depth
TKWC = Tahoe Keys Water Company
Threatened/Potential Receptor = indicates that the supply well has not been sampled for PCE but well is located within the lateral extent of the 0.5 µg/L iso-contour of the South “Y” PCE Plume.
Threatened/Potential Future Receptor = indicates that the supply well has not been sampled for PCE and well is located 3,000 feet downgradient/cross gradient from the estimated lateral extent of the 0.5 µg/L iso-contour of the South “Y” PCE Plume.
WSW-M = water supply well municipal
WSW-P = water supply well private
WSW-S = water supply well small community system
Unknown = the presence or absence of the supply well has not been confirmed but could be present beneath a site surface feature such as a building, pavement, concrete, etc.

TABLE 9: POTENTIAL VERTICAL CONDUIT INVENTORY, REGIONAL PLUME CHARACTERIZATION SUMMARY REPORT: SOUTH “Y” PCE PLUME 2019-2020 FIELD SEASON (AECOM, 2022)

AECOM. Regional Plume Characterization Summary Report: South “Y” PCE Plume 2019-2020 Field Season (June 10, 2022).

Appendix B
Table B-3 Potential Vertical Conduit Inventory
(Page 1 of 9)

Well ID	Well Name	Well Type	Status	Total Depth (feet bgs)	Filter Pack Interval (feet bgs)	Screened Interval (feet bgs)	Easting[1] (feet)	Northing[1] (feet)	Elevation[2] (feet)	Coordinate Source[3]	DWR Well Log Number	Date Installed	Destruction Date	Drilling Method
M02	LBWC #1	WSW-M	Active	182.0	--	132-182	7124239.48	2104069.62	6261.44	Surveyed	Well Log Pump #1	--	--	Cable
M07	TKWC #1	WSW-M	Active	318.0	78-341	125-312	7129225.45	2107866.41	6238.18	Surveyed	66839	8/18/1961	--	Rotary
M09	TKWC #3	WSW-M	Active	320.0	117-364	175-300	7124155.08	2106708.39	6238.79	Surveyed	225563	11/13/1983	--	Reverse Rotary
M10	Bayview Well	WSW-M	Active	550.0	170-380 406-435 502-550	180-300 340-370 410-430 510-540	7133335.16	2110423.49	6255.49	Surveyed	804391	9/3/2004	--	Reverse Rotary
M06	LBWC #5	WSW-M	Active	255.0	--	141-180	7126619.89	2104838.30	6250.77	Surveyed	Well Log Pump #5	--	--	Cable
M08	TKWC #2	WSW-M	Active	501.0	75-510	138-188 348-414 426-491	7127263.75	2105977.30	6237.87	Surveyed	79128 - revised	5/8/1972	--	Reverse Rotary
P01	788 Glorene	WSW-P	Active	140.0	25-140	100-140	7126802.76	2102032.92	6292.79	Estimated	497012	9/4/1992	--	Rotary
P02	702 Emerald Bay	WSW-P	Active	200.0	33-200	160-200	7126505.14	2103007.40	6290.61	Estimated	474551	12/20/1996	--	Rotary
P03	748 Roger	WSW-P	Active	67.0	--	56-65	7126805.55	2102439.14	6298.91	Estimated	12N/18E-5F	8/20/1953	--	Cable
P04	1995 12th St	WSW-P	Active	--	--	--	7126285.78	2103071.72	6291.82	Estimated	--	--	--	--
P07	609 Eloise Ave	WSW-P	Active	138.0	--	58-78 98-118	7125611.42	2103945.06	6253.57	Estimated	789960	5/15/2002	--	Mud Rotary
P08	575 Eloise Ave	WSW-P	Active	--	--	--	7125325.19	2104107.70	6246.44	Estimated	--	--	--	--
P09	621 Eloise Ave	WSW-P	Active	180.0	--	85-165	7125701.77	2103925.32	6255.36	Estimated	316941 (Deepen)	8/3/2016	--	--
P10	608 Emerald Bay	WSW-P	Active	--	--	--	7125383.10	2103241.18	6277.41	Estimated	--	--	--	--
P12	2181 Jean	WSW-P	Active	58.0	--	34-58	7131701.51	2101468.75	6266.98	Estimated	51526	6/14/1958	--	Cable
P17	762 Glorene	WSW-P	Active	--	--	--	7126618.30	2102243.81	6298.33	Estimated	--	--	--	--
P58	2363 Washington	WSW-P	Active	--	--	--	7131292.18	2105066.73	6238.67	Estimated	--	--	--	--
P05	675 Emerald Bay	WSW-S	Active	--	--	--	7126255.07	2103303.93	6273.25	Estimated	--	--	--	--
P06	661 Emerald Bay	WSW-S	Active	--	--	--	7126026.36	2103365.23	6269.88	Estimated	--	--	--	--
P13	2241 Lake Tahoe	WSW-S	Active	80.0	--	52-78	7131566.65	2102745.12	6256.40	Estimated	64004	8/27/1960	--	Cable

Appendix B
Table B-3 Potential Vertical Conduit Inventory

Well ID	Well Name	Well Type	Status	Total Depth (feet bgs)	Filter Pack Interval (feet bgs)	Screened Interval (feet bgs)	Easting[1] (feet)	Northing[1] (feet)	Elevation[2] (feet)	Coordinate Source[3]	DWR Well Log Number	Date Installed	Destruction Date	Drilling Method
P14	2218 Lake Tahoe	WSW-S	Active	--	--	--	7131520.32	2102342.30	6258.86	Estimated	--	--	--	--
P18	2205 Lake Tahoe	WSW-P	Active*	--	--	--	7131205.51	2102422.42	6259.02	Estimated	--	--	--	--
P59	1963 15th	WSW-P	Active*	--	--	--	7124324.35	2103127.44	6279.43	Estimated	--	--	--	--
P60	733 Eloise	WSW-P	Active*	--	--	--	7127017.70	2103580.73	6263.35	Estimated	--	--	--	--
P61	942 S Shore	WSW-P	Active*	--	--	--	7129685.24	2102969.19	6251.26	Estimated	--	--	--	--
M11	Clement	WSW-M	Inactive	140.0	--	40-70 71-120	7127472.52	2100455.93	6282.58	Surveyed	--	--	--	--
M12	Industrial #2	WSW-M	Inactive	210.0	--	40-92 97-102 110-190	7128379.60	2096686.15	6306.82	Surveyed	--	--	--	--
M13	Tata #1	WSW-M	Inactive	223.0	--	36-105 167-223	7129151.79	2098568.51	6284.79	Surveyed	--	--	--	--
M14	Tata #2	WSW-M	Inactive	193.0	--	73-193	7129166.11	2098536.37	6284.11	Surveyed	--	--	--	--
M15	Tata #3	WSW-M	Inactive	225.0	--	55-75 200-220	7129060.99	2098558.09	6288.34	Surveyed	--	--	--	--
P36	903 Eloise	WSW-P	Inactive	76.0	--	56-76	7128645.02	2102214.68	6264.86	Estimated	49374	5/28/1958	--	Cable
P37	788 Roger	WSW-P	Inactive	95.0	--	64-92	7127116.62	2102112.63	6279.71	Estimated	16729	6/18/1954	--	Cable
P38	883 Eloise	WSW-P	Inactive	64.0	--	44-64	7128554.40	2102279.96	6265.42	Estimated	49369	5/21/1958	--	Cable
P39	705 Eloise	WSW-P	Inactive	60.0	--	36-60	7126780.36	2103695.71	6261.16	Estimated	44736	7/2/1957	--	Cable
P41	2013 7th St	WSW-P	Inactive	--	--	--	7127984.39	2102083.18	6269.36	Estimated	--	--	--	--
P43	536 Emerald Bay	WSW-P	Inactive	--	--	--	7124581.53	2103434.26	6269.81	Estimated	--	--	--	--
P40	868 Emerald Bay	WSW-S	Inactive	72.0	--	--	7127970.05	2101789.63	6273.24	Estimated	--	--	--	--
P42	Rockwater	WSW-S	Inactive	101.0	--	70-99	7127354.76	2102570.28	6274.12	Estimated	--	--	--	--
P44	2333 Eloise	WSW-S	Inactive	--	--	--	7131304.82	2102874.86	6250.38	Estimated	--	--	--	--
P45	Tahoe Valley Elem	WSW-S	Inactive	150.0	--	86-146	7129563.60	2103867.34	6248.82	Estimated	56756	6/20/1959	--	Cable
P47	2187 Lake Tahoe	WSW-S	Inactive	--	--	--	7131014.08	2102366.48	6255.53	Estimated	--	--	--	--

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Table B-3 Potential Vertical Conduit Inventory

Well ID	Well Name	Well Type	Status	Total Depth (feet bgs)	Filter Pack Interval (feet bgs)	Screened Interval (feet bgs)	Easting[1] (feet)	Northing[1] (feet)	Elevation[2] (feet)	Coordinate Source[3]	DWR Well Log Number	Date Installed	Destruction Date	Drilling Method
P15	Lapham and Dunlap	WSW-P	Inactive/ Unknown	64.0	--	24-48	7129409.53	2102448.48	6255.34	Estimated	44749	8/24/1957	--	Cable
P19	2173 Ruth	WSW-P	Inactive/ Unknown	64.0	--	44-64	7130322.59	2102830.65	6259.94	Estimated	55738	9/10/1959	--	Cable
P20	924 Emerald Bay	WSW-P	Inactive/ Unknown	116.0	--	94-114	7128623.03	2101277.20	6267.76	Estimated	83911	3/15/1961	--	Cable
P21	888 Emerald Bay	WSW-P	Inactive/ Unknown	84.0	--	64-84	7128394.50	2101497.67	6272.36	Estimated	55749	12/19/1959	--	Cable
P22	858 Glorene	WSW-P	Inactive/ Unknown	80.0	--	54-78	7127546.04	2101489.28	6273.39	Estimated	16735	7/30/1954	--	Cable
P23	933 Eloise	WSW-P	Inactive/ Unknown	60.0	--	40-60	7129049.35	2102016.19	6263.49	Estimated	57803	5/18/1960	--	Cable
P24	953 Eloise	WSW-P	Inactive/ Unknown	44.0	--	20-44	7129228.47	2101868.22	6255.26	Estimated	44723	5/7/1957	--	Cable
P25	Eloise and 5th St	WSW-P	Inactive/ Unknown	24.0	--	12-24	7129025.77	2101832.45	6261.44	Estimated	37170	8/31/1956	--	Cable
P26	961 Eloise	WSW-P	Inactive/ Unknown	44.0	--	24-44	7129275.82	2101759.25	6259.89	Estimated	44733	6/18/1957	--	Cable
P27	2074 Lake Tahoe	WSW-P	Inactive/ Unknown	60.0	--	36-56	7130313.83	2101119.81	6265.32	Estimated	64066	1/18/1962	--	Cable
P28	989 Tahoe Keys	WSW-P	Inactive/ Unknown	68.0	--	40-68	7131763.94	2102844.54	6254.72	Estimated	49357	4/24/1958	--	Cable
P29	2155 South	WSW-P	Inactive/ Unknown	85.0	--	71-82	7131294.74	2100439.44	6278.62	Estimated	09-043	5/24/1950	--	Cable
P31	2318 Lake Tahoe	WSW-P	Inactive/ Unknown	72.0	--	47-71	7132460.18	2103146.60	6246.55	Estimated	09-039	4/26/1954	--	Cable
P32	2309 Eloise	WSW-P	Inactive/ Unknown	68.0	--	56-66	7131858.92	2103609.07	6250.16	Estimated	09-040	8/4/1953	--	Cable
P33	2220 Helen	WSW-P	Inactive/ Unknown	64.0	--	45-63	7131849.71	2101962.34	6258.26	Estimated	09-041	9/5/1953	--	Cable
P34	2197 Lake Tahoe	WSW-P	Inactive/ Unknown	79.0	--	48-76	7131118.09	2102334.53	6259.03	Estimated	27476	5/16/1955	--	Cable
P35	2131 South	WSW-P	Inactive/ Unknown	76.0	--	40-74	7130808.19	2100433.83	6277.61	Estimated	27483	7/18/1955	--	Cable
P46	629 Eloise	WSW-P	Inactive/ Unknown	68.0	--	56-66	7125760.63	2103910.21	6256.76	Estimated	09-056	8/11/1953	--	Cable
M03	LBWC #2	WSW-M	Destroyed	156.0	--	132-156	7126621.33	2104809.06	6251.45	Surveyed	Well Log Pump #2	Before 1950	5/12/2020	Cable
M04	LBWC #3	WSW-M	Destroyed	80.0	--	40-78	7128765.18	2101785.19	6269.07	Estimated	09-047	9/28/1963	10/14/2011	Cable
M05	LBWC #4	WSW-M	Destroyed	174.0	--	43-63 68-78 105-115	7128245.69	2103226.99	6249.78	Surveyed	Video Survey 2/17/2016	1966/1970	6/26/2020	Cable

Appendix B
Table B-3 Potential Vertical Conduit Inventory
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Well ID	Well Name	Well Type	Status	Total Depth (feet bgs)	Filter Pack Interval (feet bgs)	Screened Interval (feet bgs)	Easting[1] (feet)	Northing[1] (feet)	Elevation[2] (feet)	Coordinate Source[3]	DWR Well Log Number	Date Installed	Destruction Date	Drilling Method
M16	Julie	WSW-M	Destroyed	135.0	--	65-100 115-125	7127899.78	2099274.00	6280.11	Surveyed	--	--	6/28/1905	--
M17	South Y	WSW-M	Destroyed	260.0	--	190-260	7129040.41	2099791.61	6280.81	Surveyed	--	--	9/8/2006	--
M18	Tata #4	WSW-M	Destroyed	135.0	--	84-125	7128741.61	2099747.12	6281.91	Estimated	--	--	October 2006	--
M19	Industrial #1	WSW-M	Destroyed	250.0	--	139-149 165-195	7127122.35	2096306.86	6320.29	Surveyed	--	--	January 2001	--
P48	681 Emerald Bay	WSW-P	Destroyed	50.0	--	--	7125630.43	2103487.36	6267.60	Estimated	--	--	11/17/2005	--
P50	609 Emerald Bay	WSW-P	Destroyed	92.0	--	68-92	7125443.53	2103536.47	6265.05	Estimated	51529	7/12/1958	8/20/2008	Cable
P52	921 Eloise	WSW-P	Destroyed	70.0	--	--	7128754.34	2102231.93	6265.43	Estimated	--	--	11/1/2000	--
P53	848 Glorene	WSW-P	Destroyed	76.0	--	--	7127472.00	2101570.00	6275.34	Estimated	--	--	9/26/2003	--
P54	2111 Dunlap	WSW-P	Destroyed	52.0	--	32-52	7129472.91	2101884.67	6261.65	Estimated	44745	8/13/1957	12/13/1999	Cable
P55	822 Emerald Bay	WSW-P	Destroyed	46.0	--	--	7127679.92	2102029.52	6269.83	Estimated	--	--	10/23/1997	--
P56	788 Glorene	WSW-P	Destroyed	64.0	--	--	7126802.76	2102032.92	6292.78	Estimated	--	--	7/28/2006	--
P49	751 Emerald Bay	WSW-S	Destroyed	101.0	--	70-99	7127135.38	2102725.39	6276.73	Estimated	09-058	5/12/1953	8/30/2001	Cable
P51	Crystal Range Motel	WSW-S	Destroyed	44.0	--	--	7128991.00	2101350.00	6265.69	Estimated	--	--	6/29/2006	--
P57	861 Emerald Bay/ Old Stage	WSW-S	Destroyed	120.0	--	--	7128182.15	2102061.78	6268.55	Estimated	--	1983	9/27/2001	--
Mon79	PDI-EW-1B	EW	Active	38.0	--	25.6-35.6	7129146.64	2101922.98	6262.24	Surveyed	--	6/28/2018	--	--
Mon80	PDI-EW-1C	EW	Active	65.0	--	44.6-59.6	7129152.82	2101925.09	6262.48	Surveyed	--	6/27/2018	--	--
Mon01	SM-EW-1AC	EW	Inactive	79.0	--	20-35 59-79	7128761.87	2101774.27	6269.30	Estimated	--	1/26/2000	--	--
Mon02	SM-EW-2AC	EW	Inactive	80.5	--	20-35 60-80	7128816.70	2101709.47	6267.89	Estimated	--	1/28/2000	--	--
Mon03	SM-EW-3AC	EW	Inactive	81.0	--	20-35 60-80	7128649.10	2101856.20	6269.06	Estimated	--	1/12/2000	--	--
Mon04	SM-EW-1B	EW	Inactive	50.0	--	35-50	7128651.91	2101861.75	6269.12	Estimated	--	6/25/2001	--	--
Mon05	SM-EW-2B	EW	Inactive	50.0	--	35-50	7128751.62	2101776.57	6269.10	Estimated	--	6/22/2001	--	--
Mon06	SM-EW-2D	EW	Inactive	135.0	--	115-135	7128751.62	2101776.57	6269.10	Estimated	--	12/8/2000	--	--

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Table B-3 Potential Vertical Conduit Inventory
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Well ID	Well Name	Well Type	Status	Total Depth (feet bgs)	Filter Pack Interval (feet bgs)	Screened Interval (feet bgs)	Easting[1] (feet)	Northing[1] (feet)	Elevation[2] (feet)	Coordinate Source[3]	DWR Well Log Number	Date Installed	Destruction Date	Drilling Method
Mon07	SM-EW-3B	EW	Inactive	50.0	--	35-50	7128815.75	2101715.27	6267.98	Estimated	--	6/21/2001	--	--
Mon08	SM-EW-4A	EW	Inactive	30.0	--	15-30	7128663.48	2102128.23	6265.36	Estimated	--	1/31/2000	--	--
Mon09	SM-EW-4B	EW	Inactive	50.0	--	35-50	7128663.48	2102128.23	6265.36	Estimated	--	6/26/2001	--	--
Mon10	SM-EW-4C	EW	Inactive	77.5	--	60-77.5	7128693.45	2102124.78	6265.04	Surveyed	--	2/2/2020	--	--
Mon11	SM-EW-4D	EW	Inactive	140.0	--	120-140	7128689.06	2102127.42	6264.99	Surveyed	--	12/7/2000	--	--
Mon12	SM-EW-5A	EW	Inactive	30.0	--	15-30	7128837.56	2102017.89	6265.98	Estimated	--	1/31/2000	--	--
Mon13	SM-EW-5B	EW	Inactive	50.0	--	35-50	7128837.56	2102017.89	6265.98	Estimated	--	6/27/2001	--	--
Mon14	SM-EW-5C	EW	Inactive	78.5	--	58.5-78.5	7128837.56	2102017.89	6265.98	Estimated	--	2/1/2000	--	--
Mon15	SM-EW-5D	EW	Inactive	115.0	--	105-115	7128837.56	2102017.89	6265.98	Estimated	--	12/7/2000	--	--
Mon53	SM-DVE-1	EW	Inactive	30.0	--	7-30	7128701.42	2101581.18	6269.38	Estimated	--	6/25/1999	--	--
Mon54	SM-DVE-2	EW	Inactive	30.0	--	7-30	7128717.51	2101562.67	6268.85	Estimated	--	6/25/1999	--	--
Mon55	SM-DVE-3	EW	Inactive	23.0	--	7-23	7128669.82	2101557.26	6269.18	Estimated	--	6/25/1999	--	--
Mon56	SM-DVE-4	EW	Inactive	25.0	--	7-25	7128704.75	2101528.22	6268.04	Estimated	--	6/25/1999	--	--
Mon61	LTLW-MW-10SR	MW	Active	25.0	--	10-25	7128880.41	2100287.05	6272.33	Surveyed	--	6/1/2013	--	--
Mon62	LTLW-MW-11S	MW	Active	25.0	--	10-25	7129049.08	2100416.32	6272.08	Surveyed	--	11/12/2009	--	--
Mon63	LTLW-MW-12S	MW	Active	25.0	--	10-25	7128815.51	2100345.91	6271.11	Surveyed	--	11/10/2009	--	--
Mon64	LTLW-MW-13S	MW	Active	25.0	--	10-25	7129130.96	2100485.10	6271.28	Surveyed	--	11/10/2009	--	--
Mon65	LTLW-MW-1D	MW	Active	50.0	--	40-50	7128852.53	2100363.37	6271.94	Surveyed	--	7/14/2008	--	--
Mon66	LTLW-MW-1S	MW	Active	25.0	--	15-25	7128852.53	2100363.37	6271.81	Surveyed	--	7/11/2008	--	--
Mon67	LTLW-MW-2D	MW	Active	49.5	--	39.5-49.5	7128858.48	2100392.97	6272.80	Surveyed	--	7/23/2008	--	--
Mon68	LTLW-MW-2S	MW	Active	34.8	--	22.5-32.5	7128858.48	2100392.97	6272.84	Surveyed	--	7/23/2008	--	--
Mon69	LTLW-MW-5D	MW	Active	50.0	--	40.5-50.5	7128958.33	2100462.52	6269.76	Surveyed	--	7/24/2008	--	--

Appendix B
Table B-3 Potential Vertical Conduit Inventory

Well ID	Well Name	Well Type	Status	Total Depth (feet bgs)	Filter Pack Interval (feet bgs)	Screened Interval (feet bgs)	Easting[1] (feet)	Northing[1] (feet)	Elevation[2] (feet)	Coordinate Source[3]	DWR Well Log Number	Date Installed	Destruction Date	Drilling Method
Mon70	LTLW-MW-5S	MW	Active	29.7	--	19-29	7128958.33	2100462.52	6269.99	Surveyed	--	7/24/2008	--	--
Mon71	LTLW-MW-9S	MW	Active	25.0	--	10-25	7128934.00	2100402.86	6273.46	Surveyed	--	11/10/2009	--	--
Mon72	LTLW-OS-1	MW	Active	25.0	--	10-25	7129225.71	2101009.88	6268.58	Surveyed	--	3/1/2010	--	--
Mon73	LTLW-OS-2M	MW	Active	48.0	--	42-48	7128996.24	2100823.04	6267.62	Surveyed	--	10/25/2018	--	--
Mon74	LTLW-OS-2S	MW	Active	24.0	--	8.5-23.5	7128991.27	2100820.12	6267.57	Surveyed	--	10/26/2018	--	--
Mon75	LTLW-OS-3M	MW	Active	48.0	--	38-48	7128477.27	2101269.91	6270.52	Surveyed	--	10/25/2018	--	--
Mon76	LTLW-OS-3S	MW	Active	24.0	--	8.5-23.5	7128482.37	2101265.58	6270.12	Surveyed	--	10/24/2018	--	--
Mon77	LTLW-OS-4M	MW	Active	43.0	--	33-43	7129104.67	2101480.20	6262.37	Surveyed	--	10/23/2018	--	--
Mon78	LTLW-OS-4S	MW	Active	24.0	--	9-24	7129109.66	2101475.90	6262.47	Surveyed	--	10/23/2018	--	--
Mon16	SM-MW-1	MW	Inactive	30.0	--	7-30	7129888.19	2101315.63	6264.24	Estimated	--	7/1/1999	--	--
Mon17	SM-MW-10A	MW	Inactive	25.0	--	15-25	7128519.31	2102240.53	6264.54	Surveyed	--	6/20/2001	--	--
Mon18	SM-MW-10B	MW	Inactive	50.0	--	35-50	7128519.04	2102240.78	6264.43	Surveyed	--	6/20/2001	--	--
Mon19	SM-MW-10C	MW	Inactive	80.0	--	65-80	7128513.73	2102244.29	6264.56	Surveyed	--	6/25/2001	--	--
Mon20	SM-MW-11B	MW	Inactive	50.0	--	35-50	7128437.93	2102001.94	6268.82	Estimated	--	6/26/2001	--	--
Mon21	SM-MW-11C	MW	Inactive	80.0	--	65-80	7128437.93	2102001.94	6268.82	Estimated	--	6/26/2001	--	--
Mon22	SM-MW-12A	MW	Inactive	25.0	--	15-25	7128813.58	2101588.31	6266.00	Estimated	--	6/21/2001	--	--
Mon23	SM-MW-12B	MW	Inactive	50.0	--	35-50	7128813.58	2101588.31	6266.00	Estimated	--	6/21/2001	--	--
Mon24	SM-MW-12C	MW	Inactive	80.0	--	65-80	7128813.58	2101588.31	6266.00	Estimated	--	6/22/2001	--	--
Mon25	SM-MW-13A	MW	Inactive	25.0	--	15-25	7128573.78	2101708.76	6270.81	Estimated	--	6/25/2001	--	--
Mon26	SM-MW-13B	MW	Inactive	50.0	--	35-50	7128573.78	2101708.76	6270.81	Estimated	--	6/25/2001	--	--
Mon27	SM-MW-13C	MW	Inactive	80.0	--	65-80	7128573.78	2101708.76	6270.81	Estimated	--	6/27/2001	--	--
Mon28	SM-MW-2A	MW	Inactive	25.0	--	15-25	7128685.54	2101662.10	6270.56	Estimated	--	10/27/1999	--	--

Appendix B
Table B-3 Potential Vertical Conduit Inventory

Well ID	Well Name	Well Type	Status	Total Depth (feet bgs)	Filter Pack Interval (feet bgs)	Screened Interval (feet bgs)	Easting[1] (feet)	Northing[1] (feet)	Elevation[2] (feet)	Coordinate Source[3]	DWR Well Log Number	Date Installed	Destruction Date	Drilling Method
Mon29	SM-MW-2B	MW	Inactive	50.0	--	34-49	7128685.54	2101662.10	6270.56	Estimated	--	10/27/1999	--	--
Mon30	SM-MW-2C	MW	Inactive	81.0	--	61-81	7128685.54	2101662.10	6270.56	Estimated	--	10/26/1999	--	--
Mon31	SM-MW-3A	MW	Inactive	25.0	--	15-25	7128619.35	2101483.06	6268.98	Estimated	--	11/9/1999	--	--
Mon32	SM-MW-3B	MW	Inactive	50.0	--	35-50	7128619.35	2101483.06	6268.98	Estimated	--	11/9/1999	--	--
Mon33	SM-MW-3C	MW	Inactive	78.0	--	58-78	7128619.35	2101483.06	6268.98	Estimated	--	11/2/1999	--	--
Mon34	SM-MW-4A	MW	Inactive	25.0	--	15-25	7129114.75	2101826.12	6259.11	Surveyed	--	10/28/1999	--	--
Mon35	SM-MW-4B	MW	Inactive	50.0	--	35-50	7129114.79	2101825.88	6259.27	Surveyed	--	10/28/1999	--	--
Mon36	SM-MW-4C	MW	Inactive	79.0	--	59-79	7129112.78	2101828.02	6259.56	Surveyed	--	10/28/1999	--	--
Mon37	SM-MW-5A	MW	Inactive	25.0	--	15-25	7128542.89	2101921.82	6269.09	Estimated	--	10/25/1999	--	--
Mon38	SM-MW-5B	MW	Inactive	50.0	--	35-50	7128542.89	2101921.82	6269.09	Estimated	--	10/25/1999	--	--
Mon39	SM-MW-5C	MW	Inactive	79.5	--	60-79.5	7128542.89	2101921.82	6269.09	Estimated	--	1/11/2000	--	--
Mon40	SM-MW-5D	MW	Inactive	140.0	--	120-140	7128542.89	2101921.82	6269.09	Estimated	--	12/7/2000	--	--
Mon41	SM-MW-6A	MW	Inactive	30.0	--	20-30	7128087.59	2102210.88	6268.21	Estimated	--	12/6/2000	--	--
Mon42	SM-MW-6C	MW	Inactive	79.5	--	69.5-79.5	7128087.59	2102210.88	6268.21	Estimated	--	12/6/2000	--	--
Mon43	SM-MW-6D	MW	Inactive	140.0	--	120-140	7128087.59	2102210.88	6268.21	Estimated	--	12/6/2000	--	--
Mon44	SM-MW-7A	MW	Inactive	25.0	--	15-25	7128365.47	2102799.87	6254.10	Estimated	--	12/5/2000	--	--
Mon45	SM-MW-7C	MW	Inactive	80.0	--	60-80	7128392.00	2102791.70	6254.53	Surveyed	--	12/5/2000	--	--
Mon46	SM-MW-7D	MW	Inactive	140.0	--	120-140	7128394.74	2102789.78	6254.65	Surveyed	--	12/5/2000	--	--
Mon47	SM-MW-8A	MW	Inactive	25.0	--	15-25	7128785.33	2102554.69	6266.38	Estimated	--	6/19/2001	--	--
Mon48	SM-MW-8B	MW	Inactive	50.0	--	35-50	7128785.33	2102554.69	6266.38	Estimated	--	6/19/2001	--	--
Mon49	SM-MW-8C	MW	Inactive	80.0	--	65-80	7128785.33	2102554.69	6266.38	Estimated	--	6/21/2001	--	--
Mon50	SM-MW-9A	MW	Inactive	25.0	--	15-25	7129159.31	2102102.28	6260.85	Estimated	--	6/18/2001	--	--

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Table B-3 Potential Vertical Conduit Inventory
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Well ID	Well Name	Well Type	Status	Total Depth (feet bgs)	Filter Pack Interval (feet bgs)	Screened Interval (feet bgs)	Easting[1] (feet)	Northing[1] (feet)	Elevation[2] (feet)	Coordinate Source[3]	DWR Well Log Number	Date Installed	Destruction Date	Drilling Method
Mon51	SM-MW-9B	MW	Inactive	50.0	--	35-50	7129159.31	2102102.28	6260.85	Estimated	--	6/18/2001	--	--
Mon52	SM-MW-9C	MW	Inactive	80.0	--	65-80	7129159.31	2102102.28	6260.85	Estimated	--	6/20/2001	--	--
Mon57	HZL-MW-1	MW	Inactive	24.0	--	9-24	7129169.52	2101418.79	6263.56	Surveyed	--	11/5/2007	--	--
Mon58	HZL-MW-3	MW	Inactive	24.0	--	9-24	7129122.02	2101330.34	6265.13	Surveyed	--	11/6/2007	--	--
Mon59	HZL-MW-4	MW	Inactive	24.0	--	9-24	7129120.45	2101124.47	6266.66	Surveyed	--	11/6/2007	--	--
Mon60	HZL-MW-5	MW	Inactive	24.0	--	9-24	7129186.76	2101391.37	6263.62	Surveyed	--	3/19/2008	--	--
Mon84	ED-MW-1	MW	Inactive	41.3	--	--	7132407.89	2103107.14	6246.90	Estimated	--	--	--	--
Mon85	ED-MW-2	MW	Inactive	19.9	--	--	7132421.47	2103118.70	6246.81	Estimated	--	--	--	--
Mon86	ED-MW-3	MW	Inactive	17.9	--	--	7132496.60	2103126.13	6246.38	Estimated	--	--	--	--
Mon87	ED-MW-4	MW	Inactive	46.3	--	--	7132491.75	2103119.24	6246.62	Estimated	--	--	--	--
Mon81	CL-1	OBS	Active	114.9	--	104.38-114.38	7127563.72	2100470.01	6278.37	Surveyed	--	10/16/1997	--	--
Mon82	CL-2	OBS	Active	81.5	--	69.5-79.4	7127549.42	2100485.34	6278.36	Surveyed	--	10/17/1997	--	--
Mon83	CL-3	OBS	Active	49.6	--	39.07-49.07	7127553.87	2100476.22	6278.49	Surveyed	--	10/18/1997	--	--

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Table B-3 Potential Vertical Conduit Inventory

Well ID	Well Name	Well Type	Status	Total Depth (feet bgs)	Filter Pack Interval (feet bgs)	Screened Interval (feet bgs)	Easting[1] (feet)	Northing[1] (feet)	Elevation[2] (feet)	Coordinate Source[3]	DWR Well Log Number	Date Installed	Destruction Date	Drilling Method

Notes:
1. North American Datum of 1983, State Plane Coordinate System, California, Zone 2.
2. North American Vertical Datum of 1988. Surveyed elevation refers to top of casing and Estimated elevation refers to ground surface.
3. Coordinate Source = Surveyed, if location was surveyed by a licensed land surveyor. Coordinate Source = Estimated, if estimated by AECOM. AECOM used Lidar information to estimate elevation from Northing and Easting.

Abbreviations:
'-- = unknown or not applicable
Active = well is currently in use
Active* = assume property has an active well because the property has a sewer connection with the District and does not have a municipal water connection with LBWC or South Tahoe Public Utilities District - Destroyed - El Dorado County wel
bgs = below ground surface
Destroyed = El Dorado County well destruction records are available
District = the South Tahoe Public Utilities District
DWR = Department of Water Resources
EW = extraction well
Inactive = well has been identified and no longer in use
Inactive/Unknown = well has been identified or suspected based on interpretation of well location description on DWR Well Log and property owner cannot locate the well and El Dorado County well destruction records are not available.
LBWC = Lukins Brothers Water Company
MCL = maximum contaminant level for PCE is 5 µg/L
µg/L = micrograms per liter
MW = monitoring well
OBS = observation well
TD = total depth
TKWC = Tahoe Keys Water Company
WSW-M = water supply well municipal
WSW-P = water supply well private
WSW-S = water supply well small community system

TABLE 10: HISTORY OF INVESTIGATIONS (EMBEDDED IN STAFF REPORT TEXT, LAHONTAN WATER BOARD, 2022)

TABLE 11: SUMMARY OF SITE-SPECIFIC AND REGIONAL INVESTIGATIONS (LAHONTAN WATER BOARD, 2022)

Table 2 Summary of Site-Specific and Regional Investigations

Year	Date	Site Name	Address	Lahontan Water Board Case #:	Facility Type	Document Title	Funding Source
Municipal and Private Supply Well PCE Data							
1989	11/7/1989	LBWC #3, LBWC #4, and Old Stage	NA	T6S013	Supply Well Data	Letter Groundwater Contamination in the Area Tahoe Valley of PCE, prepared by LBWC	LBWC and Old Stage Mobile Home Park
1999	4/16/1999	Private Well	941 Emerald Bay Road	T6S013	Supply Well Data	Letter Notice of Results from Drinking Water Well Sampling Results at Crystal Range Motel, 941 Emerald Bay Road, prepared by Lahontan Water Board	Lahontan Water Board Laboratory Contract
1999	4/16/1999	Tahoe Valley Elementary School	943 Tahoe Island Drive	T6S013	Supply Well Data	Letter Notice of Results from Drinking Water Well Sampling at Tahoe Valley Elementary School, 943 Tahoe Island Drive, prepared by Lahontan Water Board	Lahontan Water Board Laboratory Contract
1999	10/22/1999	Private Well	2111 Dunlap Drive	T6S013	Supply Well Data	NEL Laboratories, Analytical Laboratory Report for Private Well Sampling at 2111 Dunlap Drive on October 25, 1999 by Lahontan Water Board	Lahontan Water Board Laboratory Contract
2001	11/8/2001	Private Well	780 Roger Avenue	T6S013	Supply Well Data	Letter Water Analysis for Drinking Water Well at 780 Roger, Sampled on August 31, 2001, prepared by Lahontan Water Board	Lahontan Water Board Laboratory Contract
2003	7/16/2003	Tahoe Montessori School	848 Glorene Avenue	T6S013	Supply Well Data	Letter Public Water System at 848 Glorene Ave., Sampled on July 7, 2003, prepared by County of El Dorado Environmental Management Department	Lahontan Water Board Laboratory Contract
2003	9/11/2003	Tahoe Valley Elementary School	943 Tahoe Island Drive	T6S013	Supply Well Data	California Laboratory Services, Analytical Laboratory Report for Private Well Sampling at Tahoe Valley Elementary on August 29, 2003 by Lahontan Water Board	Lahontan Water Board Laboratory Contract
2005	9/30/2005	Private Well	1995 12th Street	T6S013	Supply Well Data	California Laboratory Services, Analytical Laboratory Report for Private Well Sampling at 1995 12th Street on September 21, 2005 by Lahontan Water Board	Lahontan Water Board Laboratory Contract
2005	11/16/2005	Private Well	702 Emerald Bay Road	T6S013	Supply Well Data	Letter Water Analysis for 702 Emerald Bay Road, Sampled on October 19, 2005, prepared by Lahontan Water Board	Lahontan Water Board Laboratory Contract
2006	2/27/2006	Tahoe Valley Elementary School	943 Tahoe Island Drive	T6S013	Supply Well Data	California Laboratory Services, Analytical Laboratory Report for Private Well Sampling at Tahoe Valley Elementary on February 17, 2006 by Lahontan Water Board	Lahontan Water Board Laboratory Contract
2007	6/28/2007	Tahoe Valley Elementary School	943 Tahoe Island Drive	T6S013	Supply Well Data	Letter Water Analysis for Tahoe Valley Elementary School, 943 Tahoe Island Drive, prepared by Lahontan Water Board	Lahontan Water Board Laboratory Contract
2014	7/7/2014	LBWC #5	2133 12th St	sdwis.waterboards.ca.gov	Supply Well Data	Safe Drinking Water Information System Data for LBWC #2 from 1989 - 2014	LBWC
2014	8/27/2014	Private Well	575 Eloise Avenue	T6S077	Supply Well Data	Babcock Laboratories, Inc. Analytical Laboratory Report for Sampling Private Wells at 575 Eloise Avenue, 609 Eloise Avenue, 621 Eloise Avenue, 675 Emerald Bay Road, 787 Emerald Bay Road, 2013 7th Street, 883 Eloise Avenue, 608 Emerald Bay Road on August 27, 2014 by Lahontan Water Board	Lahontan Water Board Laboratory Contract
2014	9/18/2014	Private Well	787 Emerald Bay Road	T6S077	Supply Well Data	Letter Water Analysis for Rockwater Apartments/Restaurant, 787 Emerald Bay Road Sampled on August 24, 2014, prepared by Lahontan Water Board	Lahontan Water Board Laboratory Contract
2015	1/30/2015	Private Well	883 Eloise Avenue	T6S077	Supply Well Data	Letter PCE in Domestic Well at 883 Eloise Avenue, Sampled on September 11, 2014 prepared by Lahontan Water Board	Lahontan Water Board Laboratory Contract
2015	2/12/2015	Private Well	903 Eloise Avenue	T6S077	Supply Well Data	Letter Water Analysis for Schneewis Property, 903 Eloise Avenue, Sampled on January 27, 2015, prepared by Lahontan Water Board	Lahontan Water Board Laboratory Contract
2017	3/16/2017	LBWC #2	2133 12th St	sdwis.waterboards.ca.gov	Supply Well Data	Safe Drinking Water Information System Data for LBWC #2 from 1989 - 2017	LBWC
2019	6/25/2019	TKWC #1, TKWC #2, and TKWC #3	NA	T6S077	Supply Well Data	Table Summarizing PCE Sampling Results in TKWC Supply Wells from 1989 - 2019, prepared by TKWC	TKWC
2019	8/27/2019	LBWC #1	2031 West Way	T6S077	Supply Well Data	Silver State Analytical Laboratories, Analytical Laboratory Report for Sampling at LBWC #1 on August 27, 2019 by LBWC	LBWC
2019	8/27/2019	Private Well	609 Eloise Avenue	T6S077	Supply Well Data	Silver State Analytical Laboratories, Analytical Laboratory Report for Sampling Private Well at 609 Eloise Avenue on August 27, 2019 by LBWC	Lahontan Water Board Laboratory Contract
2019	11/18/2019	Private Well	575 Eloise Avenue	T6S077	Supply Well Data	Letter Well Sampling Results for 575 Eloise Avenue, Sampled on October 23, 2019, prepared by Lahontan Water Board	Site Cleanup Subaccount Program

Table 2 Summary of Site-Specific and Regional Investigations

Year	Date	Site Name	Address	Lahontan Water Board Case #:	Facility Type	Document Title	Funding Source
2019	11/18/2019	Private Well	608 Emerald Bay Road	T6S077	Supply Well Data	Letter Well Sampling Results for 608 Emerald Bay Road, Sampled on October 23, 2019, prepared by Lahontan Water Board	Site Cleanup Subaccount Program
2019	11/18/2019	Private Well	609 Eloise Avenue	T6S077	Supply Well Data	Letter Well Sampling Results for 609 Eloise Avenue, Sampled on October 23, 2019, prepared by Lahontan Water Board	Site Cleanup Subaccount Program
2019	11/18/2019	Private Well	621 Eloise Avenue	T6S077	Supply Well Data	Letter Well Sampling Results for 621 Eloise Avenue, Sampled on October 23, 2019, prepared by Lahontan Water Board	Site Cleanup Subaccount Program
2019	11/18/2019	Private Well	661 Emerald Bay Road	T6S077	Supply Well Data	Letter Well Sampling Results for 661 Emerald Bay Road, Sampled on October 23, 2019, prepared by Lahontan Water Board	Site Cleanup Subaccount Program
2019	11/18/2019	Private Well	675 Emerald Bay Road	T6S077	Supply Well Data	Letter Well Sampling Results for 675 Emerald Bay Road, Sampled on October 23, 2019, prepared by Lahontan Water Board	Site Cleanup Subaccount Program
2019	11/18/2019	Tahoe Valley Elementary School	943 Tahoe Island Drive	T6S077	Supply Well Data	Letter Well Sampling Results for Tahoe Valley Elementary School, 943 Tahoe Island Drive, Sampled on October 23, 2019, prepared by Lahontan Water Board	Site Cleanup Subaccount Program
2019	11/18/2019	Private Well	1995 12th Street	T6S077	Supply Well Data	Letter Well Sampling Results for 1995 12th Street, Sampled on October 23, 2019, prepared by Lahontan Water Board	Site Cleanup Subaccount Program
2020	7/14/2020	LBWC #1	2031 West Way	sdwis.waterboards.ca.gov	Supply Well Data	Safe Drinking Water Information System Data for LBWC #1 from 1985 - 2020	LBWC
2020	7/27/2020	LBWC #5	2133 12th St	sdwis.waterboards.ca.gov	Supply Well Data	Email from LBWC Summarizing PCE Detections in LBWC #5	LBWC
2020	7/27/2020	District South Y Municipal Supply Wells[1]	NA	T6S077	Supply Well Data	Analytical Database for South Y Wells from 1989 to 2020 from District	District
2020	10/20/2020	TKWC #1, TKWC #2, and TKWC #3	NA	T6S077	Supply Well Data	Table Summarizing PCE Sampling Results in TKWC Supply Wells from 2020, prepared by TKWC	TKWC
2020	11/23/2020	LBWC #1	2031 West Way	T6S077	Supply Well Data	Silver State Analytical Laboratories, Analytical Laboratory Report for Sampling at LBWC #1 on November 23, 2020 by LBWC	LBWC
Regional PCE Investigations Conducted in South Y Area							
1996	1/5/1996	Regional PCE Investigation	NA	T6S013	Regional PCE	Memorandum Tahoe South Y PCE Investigation, prepared by Lahontan Water Board to State Water Board	Cleanup and Abatement Account
1998	1/28/1998	Regional PCE Investigation	NA	T6S013	Regional PCE	Memorandum Summarizing South Y Groundwater Study Sampling Results, prepared by AGRA Earth & Environmental on behalf of District and Lahontan Water Board	Cleanup and Abatement Account
1998	5/7/1998	Regional PCE Investigation	NA	T6S013	Regional PCE	Additional Results of the Tahoe South "Y" PCE Investigation, prepared by AGRA Earth & Environmental on behalf of District and Lahontan Water Board	Cleanup and Abatement Account
1999	2/25/1999	Regional PCE Investigation	NA	T6S013	Regional PCE	Memorandum Summary Results for the Tahoe South "Y" PCE Investigation - CAA #82, prepared by the Lahontan Water Board	Cleanup and Abatement Account
2002	10/24/2002	Regional PCE Investigation	NA	T6S017	Regional PCE	Regional PCE Data Compilation Report, 924 Emerald Bay Road, prepared by GHH Engineering, Inc.	Responsible Party (ies)
2015	10/8/2015	Regional PCE Investigation	NA	T6S077	Regional PCE	Lukins Service Area PCE Investigation Work Plan, South Lake Tahoe, prepared by URS on behalf of Lahontan Water Board	Cleanup and Abatement Account
2016	1/19/2016	Regional PCE Investigation	NA	T6S077	Regional PCE	Final PCE Investigation Report, South Lake Tahoe, prepared by URS on behalf of Lahontan Water Board	Cleanup and Abatement Account
2016	6/29/2016	Regional PCE Investigation	NA	T6S077	Regional PCE	South Y Extraction Well Suitability Investigation, prepared by GEI Consultants on behalf of District	District Proposition 1 Grant Program
2016	8/15/2016	Regional PCE Investigation	NA	T6S077	Regional PCE	Technical Memorandum Results of PCE Investigation for Tahoe Keys Property Owner Association (TKPOA), South Y Area, prepared by GEI Consultants	Tahoe Key Water Company
2018	3/23/2018	Regional PCE Investigation	NA	T6S077	Regional PCE	South Y Pre-Design Investigation Workplan (Agreement D1712508), prepared by Kennedy/Jenks Consultants on behalf of District	District Proposition 1 Grant Program
2019	7/31/2019	Regional PCE Investigation	NA	T6S077	Regional PCE	Pre-Design Investigation Report for Remedial Alternatives to Mitigate Tetrachloroethylene Contamination, prepared by Kennedy/Jenks Consultants on behalf of District	District Proposition 1 Grant Program

Table 2 Summary of Site-Specific and Regional Investigations

Year	Date	Site Name	Address	Lahontan Water Board Case #:	Facility Type	Document Title	Funding Source
2019	9/5/2019	Regional PCE Investigation	NA	T6S077	Regional PCE	Fate and Transport Modeling of the South Y PCE Groundwater Contamination Plume - Addendum, prepared by Desert Research Institute on behalf of District	District Proposition 1 Grant Program
2020	5/9/2020	Regional PCE Investigation	NA	T6S077	Regional PCE	Interim Remedial Action Plan for the South Y PCE Facilities Feasibility Study, prepared by Kennedy/Jenks Consultants on behalf of District	District Proposition 1 Grant Program
2020	5/10/2020	Regional PCE Investigation	NA	T6S077	Regional PCE	South Y PCE Facilities Feasibility Study, prepared by on behalf of District, prepared by Kennedy/Jenks Consultants on behalf of District	District Proposition 1 Grant Program
2020	8/18/2020	LBWC #4	843 Hazel Drive	T6S077	Regional PCE	Well Decommissioning Summary Report, LBWC Water Supply Well #4, prepared by AECOM on behalf of the Lahontan Water Board	Site Cleanup Subaccount Program
2019-2020	2019-2020	Regional PCE Investigation	NA	T6S077	Regional PCE	Regional PCE Plume Groundwater Investigation completed by AECOM in 2019 and 2020 on behalf of Lahontan Water Board, report has not been finalized	Site Cleanup Subaccount Program
Site Specific PCE Investigations Conducted in South Y Area							
1993	7/23/1993	Kmart	1030 Tata Lane	T6S013	SCP/UST	Report of Findings Additional Subsurface Investigation, Kmart Facility No. 9153, 1030 Tata Lane, prepared by Environmental Science & Engineering, Inc.	Responsible Party (ies) / UST Cleanup Fund
1995	4/20/1995	Kmart	1030 Tata Lane	T6S013	SCP/UST	Report of Subsurface Investigation, Kmart Facility No. 9153, 1030 Tata Lane, prepared by Environmental Science & Engineering, Inc.	Responsible Party (ies) / UST Cleanup Fund
1995	3/17/1995	Tahoe Asphalt	1104 Industrial Avenue	6T0153A	SCP/UST	Limited Subsurface Investigation Report, Tahoe Asphalt, 1104 Industrial Ave. prepared by Blymyer Engineers, Inc.	Responsible Party (ies) / UST Cleanup Fund
1996	10/1/1996	Tahoe Asphalt	1104 Industrial Avenue	6T0153A	SCP/UST	Results of Analytical Testing Soil and Groundwater, Tahoe Asphalt Property, 1104 Industrial Avenue, prepared by Advanced Scientific Solutions	Responsible Party (ies) / UST Cleanup Fund
2004	10/27/2004	Tahoe Asphalt	1104 Industrial Avenue	6T0153A	SCP/UST	Third Quarter 2004 Groundwater Monitoring Report, Tahoe Asphalt Property, 1104 Industrial Avenue, prepared by APEX Envriotech, Inc.	Responsible Party (ies) / UST Cleanup Fund
2004	12/7/2004	Tahoe Asphalt	1104 Industrial Avenue	6T0153A	SCP/UST	No Further Action Required for Tahoe Asphalt, 1104 Industrial Avenue, prepared by Lahontan Water Board	Responsible Party (ies) / UST Cleanup Fund
1998-2004	1998-2004	Tahoe Asphalt	1104 Industrial Avenue	6T0153A	SCP/UST	Quarterly Groundwater Monitoring with PCE Data from 1998 to 2004	Responsible Party (ies) / UST Cleanup Fund
1999	2/8/1999	Stage Bus Facility	1669/1679 Shop Street	T6S013	SCP	Groundwater Investigation, Stage Bus Facility - Shop Street, prepared by Phase Three Environmental Management	Responsible Party (ies)
1999	2/12/1999	Former Ed's Auto Body	2314 Lake Tahoe Boulevard	6T0302A	SCP/UST	Letter Report of Additional Soil Sampling, Former Ed's Auto Body, 2314 Lake Tahoe Boulevard, prepared by Ecology Control Industries	Responsible Party (ies)
1999	2/12/1999	Former Ed's Auto Body	2314 Lake Tahoe Boulevard	6T0302A	SCP/UST	Letter Report of Soil Removal From Floor Drains, Former Ed's Auto Body, 2314 Lake Tahoe Boulevard, prepared by Ecology Control Industries	Responsible Party (ies)
1999-2001	1999-2001	Former Ed's Auto Body	2314 Lake Tahoe Boulevard	6T0302A	SCP/UST	Routine Groundwater Monitoring with PCE Data from 1999 to 2001	Responsible Party (ies)
2001	11/30/2001	Former Ed's Auto Body	2314 Lake Tahoe Boulevard	6T0302A	SCP/UST	Third Quarter 2001 Water Quality Report, Former Ed's Auto Body, 2314 Lake Tahoe Boulevard, prepared by Ecology Control Industries	Responsible Party (ies)
2002	4/19/2002	Former Ed's Auto Body	2314 Lake Tahoe Boulevard	6T0302A	SCP/UST	Request for Closure at the Former Ed's Auto Body in South Lake Tahoe LUSTIS #6T0302A	Responsible Party (ies)
2003	7/5/2003	Former Ed's Auto Body	2314 Lake Tahoe Boulevard	6T0302A	SCP/UST	No Further Action Required for the Former Ed's Auto Body, prepared by Lahontan Water Board, 2314 Lake Tahoe Boulevard	Responsible Party (ies)
1999	5/26/1999	South Tahoe High School	1735 Lake Tahoe Boulevard	T6S013	SCP	Results Report for Limited Groundwater Investigation, South Tahoe High School, 1735 Lake Tahoe Boulevard, prepared by APEX Envirotech, Inc.	Responsible Party (ies)
1999	7/13/1999	South Tahoe High School	1735 Lake Tahoe Boulevard	T6S013	SCP	No Further Action at South Tahoe High School, 1735 Lake Tahoe Boulevard, prepared by Lahontan Water Board	Responsible Party (ies)
1999	6/25/1999	Shehadi Motors and South Shore Motors	1855 and 1875 Lake Tahoe Boulevard	T6S013	SCP	Groundwater Investigation Report of Findings, South Shore and Shehadi Motors, 1855 and 1875 Lake Tahoe Boulevard, prepared by Secor International Incorporated	Responsible Party (ies)
2000	2/9/2000	Shehadi Motors	1855 Lake Tahoe Boulevard	T6S013	SCP	Site Characterization Report, Shehadi Motors, 1855 Lake Tahoe Boulevard, prepared by Secor International Incorporated	Responsible Party (ies)
2000	3/21/2000	Shehadi Motors	1855 Lake Tahoe Boulevard	T6S013	SCP	No Further Action at Shehadi Motors, 1855 Lake Tahoe Boulevard, prepared by Lahontan Water Board	Responsible Party (ies)

Table 2 Summary of Site-Specific and Regional Investigations

Year	Date	Site Name	Address	Lahontan Water Board Case #:	Facility Type	Document Title	Funding Source
2000	9/6/2000	Anchor Printing	854-868 Emerald Bay Road	T6S013	SCP	Groundwater Investigation Results Report, Bel Pac South, 854-868 Emerald Bay Road, prepared by Apex Envirotech, Inc.	Responsible Party (ies)
2001	2/1/2001	TCI/Former Honda Dealership	924 Emerald Bay Road	T6S017	SCP	Additional Assessment Report, TCI Building, 924 Emerald Bay Road, prepared by GHH Engineering, Inc.	Responsible Party (ies)
2011	2/8/2011	TCI/Former Honda Dealership	924 Emerald Bay Road	T6S017	SCP	No Further Action Required for the Former TCI Building, 924 Emerald Bay Road, prepared by Lahontan Water Board	Responsible Party (ies)
2001	10/30/2001	Former Big O Tires	1961 Lake Tahoe Boulevard	T6S034	SCP	Groundwater Investigation, Big-O Tire Center, 1961 South Lake Tahoe BLVD., prepared by Harding ESE, Inc.	Responsible Party (ies)
2006	8/9/2006	Former Big O Tires	1961 Lake Tahoe Boulevard	T6S034	SCP	Results of Soil and Groundwater Investigation at the Big O Tire Store Site, 1961 South Lake Tahoe Boulevard, prepared by Levine-Fricke.	Responsible Party (ies)
2020	11/10/2020	Former Big O Tires	2314 Lake Tahoe Boulevard	T6S034	SCP	Passive Soil Gas Investigation Report, Former Big O Tires Site, 1961 Lake Tahoe Boulevard prepared by Welsh Hagen Associates	Responsible Party (ies)
2001	12/12/2001	Former Norma's Cleaners/Hurzel	949 Emerald Bay Road	T6S044	SCP	Groundwater Investigation, Hurzel Properties LLC, 949 Emerald Bay Road, prepared by Harding ESE, Inc.	Responsible Party (ies)
2008	5/30/2008	Former Norma's Cleaners/Hurzel	949 Emerald Bay Road	T6S044	SCP	Site Investigation Report, Former Dry Cleaning Business, 949 Emerald Bay Road, prepared by Secor International Incorporated	Responsible Party (ies)
2007-2008	12/10/2008	Former Norma's Cleaners/Hurzel	949 Emerald Bay Road	T6S044	SCP	Third Quarter 2008 Water Quality Report, , Former Dry Cleaning Business, 949 Emerald Bay Road, prepared by Secor International Incorporated	Responsible Party (ies)
2002	2/11/2002	Napa/Former Lakeside Auto	1935 Lake Tahoe Boulevard	T6S035	SCP	Groundwater Characterization Report, Lakeside Automotive, 1935 Lake Tahoe Boulevard, prepared by Secor International Incorporated	Responsible Party (ies)
2004	1/20/2004	Napa/Former Lakeside Auto	1935 Lake Tahoe Boulevard	T6S035	SCP	Soil and Groundwater Investigation Report, Lakeside Automotive, 1935 Lake Tahoe Boulevard, prepared by Secor International Incorporated	Responsible Party (ies)
2020	8/11/2020	Napa/Former Lakeside Auto	1935 Lake Tahoe Boulevard	T6S035	SCP	Board Order R6T-2020-0039, Rescission of Cleanup and Abatement Order No. RB6S-2003-030, No Further Action Required, Lakeside NAPA Automotive Store, 1935 Lake Tahoe Boulevard	Responsible Party (ies)
2002	11/1/2002	Kragen's/Montgomery Ward	1920 Lake Tahoe Boulevard	T6S013	SCP	Groundwater Investigation, 1920 Lake Tahoe Boulevard, prepared by Engineering/Remediation Resources Group, Inc.	Responsible Party (ies)
2003	1/24/2003	Kragen's/Montgomery Ward	1920 Lake Tahoe Boulevard	T6S013	SCP	No Further Action at 1020 Lake Tahoe Boulevard, prepared by Lahontan Water Board	Responsible Party (ies)
2003	11/17/2003	LTLW	1024 Lake Tahoe Boulevard	T6S043	SCP	Groundwater Investigation Results, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, prepared by PES Environmental, Inc.	Responsible Party (ies)
2004	10/13/2004	LTLW	1024 Lake Tahoe Boulevard	T6S043	SCP	Supplemental Site Investigation Results, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, prepared by PES Environmental, Inc.	Responsible Party (ies)
2005	5/27/2005	LTLW	1024 Lake Tahoe Boulevard	T6S043	SCP	Additional Site Investigation Results, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, prepared by PES Environmental, Inc.	Responsible Party (ies)
2006	1/31/2006	LTLW	1024 Lake Tahoe Boulevard	T6S043	SCP	Additional Soil Investigation Results, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, prepared by PES Environmental, Inc.	Responsible Party (ies)
2008	9/22/2008	LTLW	1024 Lake Tahoe Boulevard	T6S043	SCP	Site Investigation Report of Findings, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, prepared by E2C Remediation, Inc.	Responsible Party (ies)
2009	6/4/2009	LTLW	1024 Lake Tahoe Boulevard	T6S043	SCP	Interim Remedial Action Workplan for SZA Groundwater Investigation, SZA Groundwater Monitoring, Interim Remedial Action Vadose Zone Soil and Shallow Groundwater Cleanup, prepared by E2C Remediation	Responsible Party (ies)
2010	8/12/2010	LTLW	1024 Lake Tahoe Boulevard	T6S043	SCP	Interim Remedial System Installation/Pilot Testing Report of Findings and Draft Remedial Action Plan For Vadose Zone Soil and Shallow Groundwater Cleanup	Responsible Party (ies)
2016	1/14/2016	LTLW	1024 Lake Tahoe Boulevard	T6S043	SCP	Indoor Air Sampling Report, Former Lake Tahoe Laundry Works, 1022,2024, and 1026 Lake Tahoe Boulevard and 1032 Emerald Bay Road, prepared by PES Environmental, Inc.	Responsible Party (ies)
2017	8/30/2017	LTLW	1024 Lake Tahoe Boulevard	T6S043	SCP	Off-Site Groundwater Investigation Data Report, South Y Area, prepared by EKI Environment & Water, Inc.	Responsible Party (ies)
2019	4/1/2019	LTLW	1024 Lake Tahoe Boulevard	T6S043	SCP	Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, prepared by EKI Environment & Water, Inc.	Responsible Party (ies)

Table 2 Summary of Site-Specific and Regional Investigations

Year	Date	Site Name	Address	Lahontan Water Board Case #:	Facility Type	Document Title	Funding Source
2019	10/4/2019	LTLW	1024 Lake Tahoe Boulevard	T6S043	SCP	Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, prepared by EKI Environment & Water, Inc.	Responsible Party (ies)
2019	12/20/2019	LTLW	1024 Lake Tahoe Boulevard	T6S043	SCP	Response to the October 4, 2019 Investigation Summary Report, South Y Basin Aquifer PCE, prepared by Weiss Associates on behalf of LBWC	Responsible Party (ies)
2020	4/3/2020	LTLW	1024 Lake Tahoe Boulevard	T6S043	SCP	Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, prepared by EKI Environment & Water, Inc.	Responsible Party (ies)
2020	5/19/2020	LTLW	1024 Lake Tahoe Boulevard	T6S043	SCP	Limited In-Situ Chemical Oxidation Pilot Test Report of Findings, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, prepared by E2C Environmental Engineering, Consulting & Remediation, Inc.	Responsible Party (ies)
2020	10/1/2020	LTLW	1024 Lake Tahoe Boulevard	T6S043	SCP	Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, prepared by EKI Environment & Water, Inc.	Responsible Party (ies)
2020	10/21/2020	LTLW	1935 Lake Tahoe Boulevard	T6S043	SCP	Response to the April 3, 2020 Investigation Summary Report and February 20, 2020 PES & EKI Letter for the Former Lake Tahoe Laundry Works Site, South Y Basin Aquifer PCE, prepared by Weiss Associates on behalf of LBWC	Responsible Party (ies)
2009-Current	2009-Current	LTLW	1024 Lake Tahoe Boulevard	T6S043	SCP	Third Quarter 2020 Monitoring Report, Former Lake Tahoe Laundry Work, 1024 Lake Tahoe Boulevard, prepared by PES Environmental, Inc.	Responsible Party (ies)
UST Investigations in South Y Area that Include PCE Data							
1994	8/30/1994	U-Haul	1105 Emerald Bay Road	T6S013	UST	Soil Sample Location Map and Summary of Analytical Results for Soil Samples, U-Haul UST Excavation, 1105 Emerald Bay Road, prepared by Northwest Envirocon, Inc.	UST Cleanup Fund
1990	6/18/1990	South Y Shell	1020 Emerald Bay Road	6T0300A	UST	Quarterly Monitoring Report, Shell Service Station, 1020 Emerald Bay Road (Hwy 89 and Hwy 50), prepared by AEGIS Environmental Consultants	UST Cleanup Fund
1990	11/8/1990	South Y Shell	1020 Emerald Bay Road	6T0300A	UST	Problem Assessment Report, Shell Service Station, 1020 Emerald Bay Road (Hwy 89 and Hwy 50), prepared by AEGIS Environmental Consultants	UST Cleanup Fund
1991	3/5/1991	South Y Shell	1020 Emerald Bay Road	6T0300A	UST	Quarterly Groundwater Monitoring Results, Shell Service Station, 1020 Emerald Bay Road, prepared by AEGIS Environmental Consultants	UST Cleanup Fund
1991	10/8/1991	South Y Shell	1020 Emerald Bay Road	6T0300A	UST	Quarterly Groundwater Monitoring Report, Shell Service Station, 1020 Emerald Bay Road, prepared by AEGIS Environmental Consultants	UST Cleanup Fund
1990-1992	8/17/1992	South Y Shell	1020 Emerald Bay Road	6T0300A	UST	Quarterly Groundwater Monitoring Report, Shell Service Station, 1020 Emerald Bay Road, prepared by AEGIS Environmental Consultants	UST Cleanup Fund
2006	6/26/2006	South Y Shell	1020 Emerald Bay Road	6T0300A	UST	No Further Action Required for Former Shell Service Station, 1020 Emerald Bay Road, prepared by Lahontan Water Board	UST Cleanup Fund
2005-2013	12/11/2013	Redwood Oil	2060 Eloise Avenue	6T0242A	UST	Limited Groundwater Monitoring Event Results Report - 2013, Former Redwood Oil Company Bulk Plant, 2060 Eloise Avenue, prepared by RDM Environmental	UST Cleanup Fund
2014	8/28/2014	Redwood Oil	2060 Eloise Avenue	6T0242A	UST	No Further Action Required for Redwood Oil Company, 2060 Eloise Avenue, prepared by Lahontan Water Board	UST Cleanup Fund
1999-2004	1/7/2005	Swiss Mart Gas Station	913 Emerald Bay Road	6T0297A & 6T0346A	UST	4th Quarter 2004 Quarterly Monitoring Report, Swiss Mart Station, 913 Emerald Bay Road	UST Cleanup Fund
2010	9/21/2010	Swiss Mart Gas Station	913 Emerald Bay Road	6T0297A & 6T0346A	UST	No Further Action Required for the Swiss Mart Gas Station, 913 Emerald Bay Road, prepared by Lahontan Water Board	UST Cleanup Fund

Notes:

[1] District municipal supply wells in South Y Area include: Julie, South Y, Tata #1, Tata #2, Tata #3, Tata #4, Clement, Industrial #1, and Industrial #2.

\# = number
District = South Tahoe Public Utilities District
LTLW = Lake Tahoe Laundry Works
LBWC = Lukins Brothers Water Company
PCE = tetrachloroethene
SCP = Site Cleanup Program
TKWC = Tahoe Keys Water Company
UST = Underground Storage Tank

TABLE 12: VOLATILE ORGANIC COMPOUNDS (INDOOR AIR QUALITY) SAMPLE RESULTS, INDOOR AIR QUALITY ASSESSMENT (PES, 2015)

PES. 17 September 2015. Indoor Air Quality Assessment, South Y Shopping Center, 1026 Lake Tahoe Boulevard, South Lake Tahoe, California.

Table
Volatile Organic Compounds (Indoor Air Quality) Sample Results
1026 South Lake Tahoe Boulevard
South Lake Tahoe, California

Sample Identification	Sample Description / Location	PCE (µg/m^3)	TCE (µg/m^3)	cis-1,2-DCE (µg/m^3)	trans-1,2-DCE (µg/m^3)	VC (µg/m^3)
V01	**Indoor at northeastern vicinity of space**	**0.539**	ND (<0.0537)	ND (<0.0397)	ND (<0.0396)	ND (<0.0256)
V02	**Indoor at southern vicinity of space**	**0.501**	ND (<0.0537)	ND (<0.0397)	ND (<0.0396)	ND (<0.0256)
V03	Outdoor, on roof	ND (<0.0678)	ND (<0.0537)	ND (<0.0397)	ND (<0.0396)	ND (<0.0256)
V04	Outdoor, by north tenant space entrance	ND (<0.0678)	ND (<0.0537)	ND (<0.0397)	ND (<0.0396)	ND (<0.0256)

Agency-referenced VOC Exposure Threshold Values	PCE (µg/m^3)	TCE (µg/m^3)	cis-1,2-DCE (µg/m^3)	trans-1,2-DCE (µg/m^3)	VC (µg/m^3)
RWQCB ESL (Table E)[1]	2.1	3.0	31	260	0.16
DTSC Modified SL (Table 3)[2]	2.1	3.0	NL	NL	0.16
USEPA Region 9 RSL[3]	47	3.0	NL	NL	2.8

Notes:

µg/m^3 = Micrograms per cubic meter air
PCE = Tetrachloroethylene
TCE = Trichloroethylene
c-1,2-DCE = cis-1,2-Dichloroethylene
t-1,2-DCE = trans-1,2-Dichloroethylene
VC = Vinyl Chloride
NL = Not Listed
ND = Not detected at or above the specified laboratory reporting limit.
REL = Reference Exposure Level developed by OEHHA
ESL = Environmental Screening Level
RSL = Regional Screening Level
1 = California Regional Water Quality Control Board (RWQCB), San Francisco Bay Region, *Screening For Environmental Concerns At Sites With Contaminated Soil and Groundwater, Interim Final - December 2013. Table E, Commercial/Industrial Land Use.*
2 = *Department of Toxic Substances Control (DTSC), Modified Screening Levels (DTSC-SLs), Table 3, Screening Levels for Volatile Compounds in Ambient Air. May 2015.*
3 = U.S. Environmental Protection Agency (USEPA), Region 9, *Regional Screening Levels for Chemical Contaminants at Superfund Sites, Industrial Air Supporting Table, November 2013.*

TABLE 13: INDOOR AIR SAMPLE RESULTS, INDOOR AIR SAMPLING REPORT (PES, 2016A)

PES. 14 January 2016a. Indoor Air Sampling Report, Former Lake Tahoe Laundry Works, 1022,1024, and 1026 Lake Tahoe Boulevard and 1032 Emerald Bay Road, South Lake Tahoe, California, RWQCB SLIC Case No. T6S043.

Table
Indoor Air Sample Results
1022, 1024 and 1026 South Lake Tahoe Boulevard and 1032 Emerald Bay Road
South Lake Tahoe, California

Sample Identification	Sample Description / Location	PCE ($\mu g/m^3$)	TCE ($\mu g/m^3$)	cis-1,2-DCE ($\mu g/m^3$)	trans-1,2-DCE ($\mu g/m^3$)	VC ($\mu g/m^3$)
1032 Emerald Bay Road (Wells Fargo Space)						
1032-V01	Foundational opening (men's restroom floor drain), southeast portion of space	**0.514**	ND (<0.0537)	ND (<0.0397)	ND (<0.0396)	ND (<0.0256)
1032-V02	Indoor air (customer area), north-central portion of space	**0.300**	ND (<0.0537)	ND (<0.0397)	ND (<0.0396)	ND (<0.0256)
1032-V03	Indoor air (teller area), southern portion of space	**0.222**	ND (<0.0537)	ND (<0.0397)	ND (<0.0396)	ND (<0.0256)
1032-V10	Outdoor (RTU-2 Intake), eastern portion of roof	ND (<0.0678)	ND (<0.0537)	ND (<0.0397)	**0.121**	ND (<0.0256)
1026 South Lake Tahoe Boulevard (Large Vacant Space)						
1026-V04	Indoor air, north-central portion of space	**0.079**	ND (<0.0537)	ND (<0.0397)	ND (<0.0396)	ND (<0.0256)
122415-V13	Indoor air (V04/QAQC Duplicate), north-central portion of space	**0.087**	ND (<0.0537)	ND (<0.0397)	ND (<0.0396)	ND (<0.0256)
1026-V05	Indoor air, south-central portion of space	ND (<0.0678)	ND (<0.0537)	ND (<0.0397)	ND (<0.0396)	ND (<0.0256)
1026-V11	Outdoor (RTU supplying northwestern portion of space), west-central portion of roof	ND (<0.0678)	ND (<0.0537)	ND (<0.0397)	ND (<0.0396)	ND (<0.0256)
1024 South Lake Tahoe Boulevard (Tahoe Suds Space)						
1024-V07	Indoor air, north-central portion of space	**0.119**	ND (<0.0537)	ND (<0.0397)	ND (<0.0396)	ND (<0.0256)
1024-V08	Indoor air, south-central portion of space	**0.101**	ND (<0.0537)	ND (<0.0397)	ND (<0.0396)	ND (<0.0256)
1022 South Lake Tahoe Boulevard (Small Vacant Space and Common Corridor)						
1022-V06	Foundational opening (common corridor fire riser), southwest corner of structure	**0.122**	ND (<0.0537)	ND (<0.0397)	ND (<0.0396)	ND (<0.0256)
1022-V09	Indoor air, central portion of space	**0.110**	ND (<0.0537)	ND (<0.0397)	ND (<0.0396)	ND (<0.0256)
1032-V12	Outdoor (RTU supplying central portion of space), western portion of roof	ND (<0.0678)	ND (<0.0537)	ND (<0.0397)	ND (<0.0396)	ND (<0.0256)

Agency-referenced VOC Exposure Threshold Values	PCE ($\mu g/m^3$)	TCE ($\mu g/m^3$)	cis-1,2-DCE ($\mu g/m^3$)	trans-1,2-DCE ($\mu g/m^3$)	VC ($\mu g/m^3$)
RWQCB ESL (Table E)[1]	2.1	3.0	31	260	0.16
DTSC Modified SL (Table 3)[2]	2.1	3.0	NL	NL	0.16
USEPA Region 9 RSL[3]	47	3.0	NL	NL	2.8

Table
Indoor Air Sample Results
1022, 1024 and 1026 South Lake Tahoe Boulevard and 1032 Emerald Bay Road
South Lake Tahoe, California

Sample Identification	Sample Description / Location	PCE (µg/m³)	TCE (µg/m³)	cis-1,2-DCE (µg/m³)	trans-1,2-DCE (µg/m³)	VC (µg/m³)

Notes:
µg/m³ = Micrograms per cubic meter air
PCE = Tetrachloroethene
TCE = Trichloroethene
c-1,2-DCE = cis-1,2-Dichloroethene
t-1,2-DCE = trans-1,2-Dichloroethene
VC = Vinyl Chloride
RTU = Roof Top Unit
NL = Not Listed
ND = Not detected at or above the specified laboratory reporting limit.
SL = Screening Level
ESL = Environmental Screening Level
RSL = Regional Screening Level
1 = California Regional Water Quality Control Board (RWQCB), San Francisco Bay Region, *Screening For Environmental Concerns At Sites With Contaminated Soil and Groundwater, Interim Final - December 2013. Table E, Commercial/Industrial Land Use.*
2 = *Department of Toxic Substances Control (DTSC), Modified Screening Levels (DTSC-SLs), Table 3, Screening Levels for Volatile Compounds in Ambient Air. October 2015.*
3 = U.S. Environmental Protection Agency (USEPA), Region 9, *Regional Screening Levels for Chemical Contaminants at Superfund Sites, Industrial Air Supporting Table, November 2015.*

TABLE 14: SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS, SUPPLEMENTAL SITE INVESTIGATION RESULTS (PES, 2004)

PES. 13 October 2004. Supplemental Site Investigation Results, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

Table 1
Summary of Soil Sample Analytical Results
Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard
South Lake Tahoe, California

Boring ID	Sample ID	Sample Depth (ft-bgs)	Sample Date	PCE	TCE	cis-1,2-DCE
SB-1	SB-1-1	1	9/15/04	**0.095**	**0.0072**	**0.024**
	SB-1-4	4	9/15/04	<0.0050	<0.0050	<0.0050
	SB-1-8	8	9/15/04	<0.0050	<0.0050	<0.0050
SB-2	SB-2-1.5	1.5	9/15/04	<0.0050	<0.0050	**0.013**
	SB-2-4	4	9/15/04	<0.0050	<0.0050	<0.0050
	SB-2-8	8	9/15/04	<0.0050	<0.0050	<0.0050
SB-3	SB-3-2.5	2.5	9/15/04	<0.0050	<0.0050	<0.0050
	SB-3-5	5	9/15/04	<0.0050	<0.0050	<0.0050
	SB-3-8	8	9/15/04	<0.0050	<0.0050	<0.0050
SB-4	SB-4-6	6	9/14/04	<0.0050	<0.0050	<0.0050
	SB-4-8	8	9/14/04	<0.0050	<0.0050	<0.0050
SB-5	SB-5-5	5	9/14/04	**0.81**	**0.084**	**0.048**
	SB-5-8	8	9/14/04	**0.044**	**0.011**	**0.014**
SB-6	SB-6-1	1	9/14/04	**0.10**	**0.026**	**0.046**
	SB-6-8	8	9/14/04	**0.11**	**0.027**	**0.076**

Notes:
All results in milligrams per kilogram (mg/kg)
ft-bgs: feet below ground surface
< - concentration less than specified laboratory reporting limit
PCE: Tetrachloroethylene
TCE: Trichloroethylene
cis-1,2-DCE: cis-1,2-Dichloroethylene
Samples analyzed using U.S. Environmental Protection Agency Test Method 8260B.
Only detected VOCs are tabulated, all other VOCs are below respective laboratory reporting limits.

Table 2
Summary of Grab Groundwater Analytical Results
Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard
South Lake Tahoe, California

Boring ID	Sample ID	Sample Depth (ft-bgs)	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Other
SB-1	GW-SB-1-27	27	9/15/04	6.7	<0.50	<0.50	<0.50	n-PB 0.68; 1,2,4-TMB 1.3
SB-3	GW-SB-3-27	27	9/15/04	8.3	<0.50	<0.50	<0.50	n-PB 0.65; 1,3,5-TMB 0.88; 1,2,4-TMB 1.9
SB-4	GW-SB-4-26	26	9/14/04	1.4	<0.50	<0.50	<0.50	n-PB 0.67; 1,2,4-TMB 1.1
	GW-SB-4-26DUP	26	9/14/04	1.3	<0.50	<0.50	<0.50	n-PB 0.69; 1,2,4-TMB 1.1
SB-5	GW-SB-5-26	26	9/14/04	1.5	1.1	1.6	<0.50	n-PB 1.4; 1,2,4-TMB 2.8
GW-6	GW-6-20	20	9/15/04	<0.50	<0.50	<0.50	<0.50	
	GW-6-44	44	9/15/04	710	9.3	11	<2.5	
GW-7	GW-7-18	18	9/15/04	21	1.0	1.8	<0.50	1,2,4-TMB 0.67
	GW-7-44	44	9/15/04	230	4.8	14	<1.0	
GW-8	GW-8-26	26	9/14/04	240	32	74	1.3	1,2,4-TMB 1.3
	GW-8-51	51	9/14/04	2.5	<0.50	<0.50	<0.50	n-PB 0.86, 1,3,5-TMB 0.89, 1,2,4-TMB 2.2
Blanks	Equipment Blank	NA	9/14/04	<0.50	<0.50	<0.50	<0.50	
	Trip Blank	NA	9/15/04	<0.50	<0.50	<0.50	<0.50	

Notes:
All results in micrograms per liter (µg/L)
ft-bgs: feet below ground surface
< - concentration less than specified laboratory reporting limit
PCE: Tetrachloroethylene
TCE: Trichloroethylene
cis-1,2-DCE: cis-1,2-Dichloroethylene
trans-1,2-DCE: trans-1,2-Dichloroethylene
n-PB: n-Propylbenzene
1,3,5-TMB: 1,3,5-Trimethylbenzene
1,2,4-TMB: 1,2,4-Trimethylbenzene
Samples analyzed using U.S. Environmental Protection Agency Test Method 8260B
Only detected VOCs are tabulated, all other VOCs are below respective laboratory reporting limits.
NA: Not Applicable

TABLE 15: KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA, INVESTIGATION SUMMARY REPORT (EKI, 2020)

EKI. 1 October 2020b. Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

TABLE 5-1

KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA

Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

Site Address	Former and Current Owner or Occupant	Former and Current Operations	Years of Operations	Chemical Use History
948 3rd Street	Welcome's Towing, Emerald Bay Towing, and Paal-Co, Inc. Towing	Vehicle towing	1986 to present	Questionnaire submitted to the California Regional Water Quality Control Board, Lahontan Region ("Water Board") states no chlorinated solvents have been used at the property. John Baker, the current property owner, did not provide chemical use records of former businesses. Welcomes Towing, the current owner, employs penetrating oil, carburetor cleaner, and brake cleaner in its present operations.[1] Formulations of these products containing chlorinated solvents may have been used by past operators of the towing service.
2028 to 2042 5th Street	Crow's Auto Care, Performance Sleds, Abbey Motors, Higher Ground Autoworx, Expert Auto Service, Vanek's Engine Specialist, Paradise Garage, Performance Mobile Auto Repair, American Motorcycle Service, DC Turbo Parts, and C & H Cycle Center	Automobile and motorcycle service and repair; machining	Unknown	Questionnaire submitted to Water Board contains conflicting information. The questionnaire states no metal work or metal degreasing has been performed at the property, but DC Turbo Parts provided a safety data sheet for metalworking fluid that is used in its machining operations.[2] Numerous tenants have engaged in operations that may have entailed use of chlorinated solvents.
1700 D Street	City of South Lake Tahoe	Vehicle repair and fueling; equipment storage	1967 to present	Questionnaire submitted to Water Board indicates metal work or metal degreasing is performed at the property, and that chlorinated solvents may have been used historically at the site.[3] Review of Department of Toxic Substances Control ("DTSC") hazardous waste generator records reveal the City of South Lake Tahoe disposed of 29 to 277 pounds of perchloroethylene ("PCE") annually between 1995 and 2011.[4] These PCE quantities correspond to roughly 2 to 20 gallons of PCE, assuming a PCE density of 13.5 pounds per gallon. Five slotted drains have been used to collect surface water runoff since the late 1970s at the site.[5] Water collected by the slotted drains infiltrates into the subsurface, which could have resulted in contaminant migration to groundwater.

[1] John Baker. 1 May 2019. Chemical Storage and Use Questionnaire, 948 3rd Street. Investigative Order No. R6T-2019-0014.

[2] Roland A. Dunn and Trudy L. Dunn. 21 June 2019. Chemical Storage and Use Questionnaire, 2028/2042 5th Street. Investigative Order No. R6T-2019-0113.

[3] City of South Lake Tahoe. 22 July 2019. Chemical Storage and Use Questionnaire, 1700 D Street. Investigative Order No. R6T-2019-0211.

[4] DTSC. 19 August 2019. EPA ID Profile, D-Street Yard.

[5] Haen Engineering & Jay Kniep Land Planning. 24 October 2012. Spill Prevention Control and Countermeasure (SPCC) Plan for the City of South Lake Tahoe Corporation Yard, 1700 "D" Street, South Lake Tahoe, California 96150. Final Draft. p. 9.

TABLE 5-1
KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

Site Address	Former and Current Owner or Occupant	Former and Current Operations	Years of Operations	Chemical Use History
1746 and 1748 D Street	United Parcel Service of America ("UPS"), Inc., Rodney's Import Auto, Sierra Design, Tahoe Import Auto, Rubicon Moon Automotive, and Tahoe Test & Tune	Automobile service and repair	Unknown	In the questionnaire submitted to Water Board, the current property owner, June Woodger Trust, states it does not have any knowledge regarding chemical use by current and former tenants.[6] However, the DTSC Hazardous Waste Tracking System[7] show Tahoe Import Auto disposed of 58 to 233 pounds (i.e., 4 to 17 gallons) of PCE annually between 2010 and 2018,[8] and Rubicon Moon Automotive disposed of 58 to 292 pounds (i.e., 4 to 22 gallons) of PCE annually between 2014 and 2018.[9]
1796 D Street	Perry's Auto Body, Welcomes Auto Body, and Southwest Gas Corporation	Auto body repair	Unknown	Questionnaire submitted to Water Board describes only chemical use associated with Southwest Gas Corporation, the present occupant.[10] No information regarding past operations is provided.
2048 and 2050 Dunlap Drive	Tahoe Mobile Auto, Dan's Auto Works, Marine Performance, German Performance, and Jean Sellars	Automobile service and repair	Unknown	Questionnaire submitted to Water Board provides conflicting information regarding use of chlorinated solvents at the property.[11] Engine parts were washed in solvent, but one part of the questionnaire states chlorinated solvents were used in the past while another part of the questionnaire indicates only Stoddard solvent was employed.[12] No chemical use records were reviewed in preparing the questionnaire.
2108 Dunlap Drive	Sierra Alternators & Starters, Tahoe Generator Exchange, Woods-Baker Construction Co., and Appliance Recyclers	Repair of alternators and starters and retail sale of automobile batteries; retail sale of used washers, dryers, stoves and refrigerators	1983 to present	Questionnaire indicates that current property owner, South Tahoe Refuse Co., is not certain whether chlorinated solvents were used at the site.[13] The tenant, Sierra Alternators and Starters, uses solvent and brake parts cleaner. Formulations of these products containing chlorinated solvents may have been used in the past at the site.

[6] June Woodger Trust. 11 June 2019. Chemical Storage and Use Questionnaire, 1746 and 1748 D Street. Investigative Order No. R6T-2019-0215.

[7] *See* https://hwts.dtsc.ca.gov/.

[8] DTSC. 22 August 2019. EPA ID Profile, Tahoe Import Auto.

[9] DTSC. 12 November 2019. EPA ID Profile, Rubicon Moon Automotive.

[10] Carol Cope. 1 May 2019. Chemical Storage and Use Questionnaire, 1796 D Street. Investigative Order No. R6T-2019-0218.

[11] Broughton Family Trust. 1 May 2019. Chemical Storage and Use Questionnaire, 2048 and 2050 Dunlap Drive. Investigative Order No. R6T-2019-0017.

[12] Stoddard solvent consists of petroleum hydrocarbons. Stoddard solvent is used as a paint thinner; in some types of photocopier toners, printing inks, and adhesives; as a dry-cleaning solvent; and as a general cleaner and degreaser. Agency for Toxic Substances and Disease Registry. 3 March 2011. *Stoddard Solvent*. https://www.atsdr.cdc.gov/substances/toxsubstance.asp?toxid=73. Accessed 25 March 2020.

[13] South Tahoe Refuse Co. 3 May 2019. Chemical Storage and Use Questionnaire, 2108 Dunlap Drive. Investigative Order No. R6T-2019-0021.

TABLE 5-1

KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA

Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

Site Address	Former and Current Owner or Occupant	Former and Current Operations	Years of Operations	Chemical Use History
2116 Dunlap Drive	South Side Auto Body, Tahoe Printing, and Rave On Builders	Auto body repair; printing	Unknown	Questionnaire submitted to Water Board indicates that the current property owner, South Tahoe Refuse Co., is not certain whether chlorinated solvents were used at the site.[14] South Side Auto Body used PCE in its operations at 920 Eloise Avenue. The possibility exists that PCE was used by South Side Auto Body at 2116 Dunlap Drive as well.
2132 Dunlap Drive	South Side Auto Body and South Tahoe Refuse Co.	Auto body repair; repair and maintenance of garbage dumpsters	2000 to present[15]	Questionnaire submitted to Water Board states metal work or metal degreasing is performed at the property, but no chlorinated solvents are used in these operations.[16] No information is provided on past chemical use by South Side Auto Body. South Side Auto Body used PCE in its operations at 920 Eloise Avenue. The possibility exists that PCE was used by South Side Auto Body at 2132 Dunlap Drive.
2140 Dunlap Drive	Meyers Marine and Coast Oil Company	Unknown	Unknown	Questionnaire submitted to Water Board provides information on the current tenant only, which is utilizing the property for boat storage and does not involve chemicals.[17] No information is provided on past chemical use at the property. A partial copy of a groundwater monitoring and remediation progress report[18] included with the questionnaire indicates five monitoring wells were constructed at the site in connection with investigation and in-situ bioremediation of a petroleum hydrocarbon release. Groundwater samples do not appear to have been analyzed for chlorinated solvents.
867 Eloise Avenue	Former Precision Auto Body, Welcomes Auto Body, KC's Automotive, and Bill's Garage	Auto body repair; automobile service and repair	1970s to 2012	Numerous tenants have performed auto body repair or automobile service and repair at this property. Questionnaire submitted to Water Board indicates that chlorinated solvents may have been used in these operations.[19]

[14] South Tahoe Refuse Co. 3 May 2019. Chemical Storage and Use Questionnaire, 2116 Dunlap Drive. Investigative Order No. R6T-2019-0020.

[15] Years of operation pertain to repair and maintenance of garbage dumpsters at property.

[16] South Tahoe Refuse Co. 3 May 2019. Chemical Storage and Use Questionnaire, 2132 Dunlap Drive. Investigative Order No. R6T-2019-0022.

[17] Robert and Tammy Hassett. 4 May 2019. Chemical Storage and Use Questionnaire, 2140 Dunlap Drive. Investigative Order No. R6T-2019-0025.

[18] Fugro West, Inc. 5 June 1996. *First Quarter 1996 Quarterly Ground Water Monitoring and Remediation Progress Report, Myers Marine, 2140 Dunlap Drive, South Lake Tahoe, California*.

[19] Gil Construction Co. 11 April 2019. Chemical Storage and Use Questionnaire, 867 Eloise Avenue. Investigative Order No. R6T-2019-0031.

TABLE 5-1
KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

Site Address	Former and Current Owner or Occupant	Former and Current Operations	Years of Operations	Chemical Use History
912 Eloise Avenue	Coordinated Transit Systems, Sunshine/Yellow Taxi-Yellow Cab, and Bill's Garage	Automobile service and repair	1990 to present	Questionnaire submitted to Water Board states no chlorinated solvents have been used by former or current tenants.[20] However, DTSC hazardous waste generator records show Sunshine Taxi, which has operated at the site since 1990, disposed of 250 to 500 pounds (i.e., 10 to 37 gallons) of PCE annually between 2010 and 2012.[21]
920 Eloise Avenue	South Side Auto Body	Auto body repair	Unknown	Questionnaire submitted to Water Board indicates current operator of South Side Auto Body is not certain whether chlorinated solvents were used by past owners of the auto body business. A search of U.S. EPA's Resource Conservation and Recovery Act ("RCRA") database shows South Side Auto Body historically generated spent PCE as part of its operations at this site.[22]
927 Eloise Avenue	Struve Automotive, Bill's Automotive, and Pedersen Underground-Paving Contractor	Automobile service and repair	2005 to present	Questionnaire submitted to Water Board states no chlorinated solvents have been used at the facility.[23] Yet, DTSC hazardous waste generator records available for 2011 through 2018 show Struve Automotive generated approximately 117 to 325 pounds (i.e., 9 to 24 gallons) annually of PCE.[24]
933 Eloise Avenue	Liberty Utilities and Sierra Pacific Power Company	Electrical distribution, utility yard, warehouse, and office	1969 to present	Review of Uniform Hazardous Waste Manifests included with questionnaire submitted to Water Board shows Liberty Utilities disposes of spent PCE.[25] A separate questionnaire submitted to Water Board also indicates Sierra Pacific Power Company used chlorinated solvents.[26] DTSC hazardous waste generator records reveal Sierra Pacific Power Company disposed of approximately 67 to 375 pounds (i.e., 5 to 28 gallons) of PCE annually between 2007 and 2013,[27] which is the period for which hazardous waste data are available on DTSC's Hazardous Waste Tracking System.

[20] Zack Lannoy. 4 June 2019. Chemical Storage and Use Questionnaire, 912 Eloise Avenue. Investigative Order No. R6T-2019-0040.

[21] DTSC. 19 July 2017. EPA ID Profile, Sunshine Taxi, Inc.

[22] Environmental Data Resources, Inc. 4 June 2015. *EDR Radius Map™ Report with GeoCheck®, South Y Area*.

[23] Struve Automotive. 23 April 2019. Chemical Storage and Use Questionnaire, 927 Eloise Avenue. Investigative Order No. R6T-2019-0045. pp. 2-4.

[24] DTSC. 17 September 2019. EPA ID Profile, Struve Automotive.

[25] Liberty Utilities. 2 May 2019. Chemical Storage and Use Questionnaire, 927 Eloise Avenue. Investigative Order No. R6T-2019-0048.

[26] Liberty Utilities. 19 April 2019. Chemical Storage and Use Questionnaire, 927 Eloise Avenue. Investigative Order No. R6T-2019-0049.

[27] DTSC. 17 September 2019. EPA ID Profile, Sierra Pacific Power Company.

TABLE 5-1
KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

Site Address	Former and Current Owner or Occupant	Former and Current Operations	Years of Operations	Chemical Use History
934 Eloise Avenue	South Side Auto Body, Two Guys Automotive, and Tahoe Test and Tune	Auto body repair; automobile service and repair	Unknown	Questionnaire submitted to Water Board indicates that indicates metal work or metal degreasing is being conducted and has been performed in the past at the property.[28] However, the current operator of South Side Auto Body is uncertain whether chlorinated solvents were used by former owners of the auto body business at the site. No information on chemical usage by Two Guys Automotive and Tahoe Test and Tune is provided in the questionnaire.
2060 Eloise Avenue	Former Redwood Oil, Former Sierra Key-Lock, and Creative Fabrication	Bulk fueling	1940s to 2013[29]	Questionnaire submitted to Water Board does not contain information regarding Redwood Oil or Sierra Key-Lock's chemical usage. Sierra Key-Lock operated a gasoline service station at the property beginning in 1969.[30] Questionnaire indicates Creative Fabrication is engaged in metal work or metal degreasing, but asserts no chemicals are used in the processes conducted at the site.[31] Between 2005 and 2012, PCE concentrations as high as 430 micrograms per liter ("µg/L") were detected in ten shallow groundwater monitoring wells on and around the Redwood Oil facility.[32] Redwood Oil attributed PCE in groundwater beneath its facility to migration from releases that occurred on other properties. Redwood Oil identified the probable sources as the Big O Tires, former Honda Motor Company automobile dealership, and Napa Auto Parts/Former Lakeside Automotive sites.[33]

[28] South Side Auto Body. Chemical Storage and Use Questionnaire, 934 Eloise Avenue. Investigative Order No. R6T-2019-0052.

[29] Redwood Oil bulk fueling operations took place from the 1940s to 2013. RDM Environmental Inc. 19 December 2012. *Request for "No Further Action," Former Redwood Oil Company Bulk Plant, 2060 Eloise Avenue, South Lake Tahoe, California*. p. 1.

[30] Environmental Data Resources, Inc. 4 June 2015. EDR Radius Map™ Report with GeoCheck®, South Y Area.

[31] Creative Fabrication. 11 June 2019. Chemical Storage and Use Questionnaire, 2060 Eloise Avenue. Investigative Order No. R6T-2019-0054.

[32] RDM Environmental Inc. 2012. Table 1.

[33] *Id*. p. 3.

TABLE 5-1
KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

Site Address	Former and Current Owner or Occupant	Former and Current Operations	Years of Operations	Chemical Use History
2143 Eloise Avenue	Eloise Automotive & Alignment, Sierra Automotive and Marine Specialties, Engine Dynamics Co., and Tahoe Test & Tune	Automobile service and repair	Unknown	Numerous tenants have performed auto body repair or automobile service and repair at this property.[34] Questionnaire submitted to Water Board indicates metal degreasing is currently performed by Eloise Automotive & Alignment, but no chlorinated solvents are used.[35] This information conflicts with the CleanHarbors generator waste report that shows waste combustible liquids being disposed as D039 PCE RCRA hazardous waste.[36] Further, DTSC hazardous waste generator records also show Eloise Automotive & Alignment disposed of 117 to 292 pounds (i.e., 9 to 22 gallons) of PCE annually between 2013 and 2018.[37]
2176 Eloise Avenue	George's Performance	Automobile service and repair	2002 to 2012	Questionnaire submitted to Water Board indicates no chlorinated solvents were used by George's Performance. However, this information is based on discussion with the current tenant. No records of past chemical use were reviewed.[38]
913 Emerald Bay Road	Former Beacon and Swiss Mart Gasoline service station	Retail gasoline station and convenience store; automobile service and repair	1950s to present[39]	Questionnaire submitted to Water Board describes only current operations. Seerat, Inc., the present occupant, does not use chemicals because no automobile service and repair is conducted at the site.[40] No information regarding past operations is provided. PCE has been detected in groundwater at various depths beneath or near the site. In 2003, PCE was detected at a maximum concentration of 170 µg/L in a monitoring well with a screen interval between 58 and 78 feet below ground surface ("bgs").[41] PCE analysis of groundwater samples from Swiss Mart monitoring wells was a one-time event to help determine the contribution that PCE was making to concentrations of petroleum hydrocarbons as gasoline reported for the Swiss Mart wells.[42]

[34] Water Board. 22 August 2019. *Summary of 13267 Site History Questionnaires as of July 26, 2019*. Memorandum to file from Abby Cazier, PE, Water Resource Control Engineer. Table 1.

[35] Eloise Automotive & Alignment. Chemical Storage and Use Questionnaire, 2143 Eloise Avenue. Investigative Order No. R6T-2019-0068.

[36] CleanHarbors. 23 April 2019. Generator Waste Report.

[37] DTSC. 23 September 2019. EPA ID Profile, Eloise Automotive & Alignment.

[38] Robert Brunald. 17 July 2019. Chemical Storage and Use Questionnaire, 2176 Eloise Avenue. Investigative Order No. R6T-2019-0069.

[39] Apex Envirotech, Inc. 6 January 1999. *Site Characterization Report, Swiss Mart, 913 Emerald Bay Road, South Lake Tahoe, CA*. p. 4.

[40] Seerat, Inc. 25 April 2019. Chemical Storage and Use Questionnaire, 913 Emerald Bay Road. Investigative Order No. R6T-2019-0082.

[41] Black Point Environmental. 6 May 2003. *First Quarter 2003 Groundwater Monitoring Report, Swiss Mart Gas Station, 913 Emerald Bay Road, South Lake Tahoe*. Table 1.

[42] *Id*. p. 10.

TABLE 5-1

KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA

Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

Site Address	Former and Current Owner or Occupant	Former and Current Operations	Years of Operations	Chemical Use History
924 Emerald Bay Road	Former Honda Motor Company automobile dealership and TCI Cablevision of California	Automobile service and repair	1975 to 1990s[43]	Questionnaire submitted to Water Board indicates that former owner, Anika and Associates, Inc, has no knowledge of chemical usage by past occupants of the site.[44] In 1997, the only year for which data are available, DTSC hazardous waste generator records indicate that the Honda dealership disposed of approximately 830 pounds of an unspecified oil-containing waste.[45] Groundwater beneath the property is known to contain PCE. In 2001, PCE concentrations as high as 190 µg/L were detected in deeper zone groundwater at 80 feet bgs.[46] In 2007, Water Board stated its belief that the site was a potential PCE source to groundwater because "the history of site use, including auto repair, implies the past use of PCE as not being unlikely."[47] In 2011, Water Board closed the case without requiring further soil and groundwater investigation.[48] The case was closed because the Water Board decided that multiple sites along Lake Tahoe Boulevard were the sources of contamination at the TCI site. In the Case Closure Summary for the TCI site, the Water Board stated "Subsequent investigations have identified several potential upgradient PCE sources on Lake Tahoe Boulevard. Therefore, since the site appears to not be a PCE source to groundwater, the case meets the Water Board criteria for closure."[49]

[43] Emerald Bay Properties, LLC. 5 April 2019. Chemical Storage and Use Questionnaire, 924 Emerald Bay Road. Investigative Order No. R6T-2019-0087.

[44] Anika and Associates, Inc. 3 May 2019. Chemical Storage and Use Questionnaire, 924 Emerald Bay Road. Investigative Order No. R6T-2019-0086.

[45] DTSC. 28 March 1997. EPA ID Profile, Lake Tahoe Honda Mitsubishi.

[46] GHH Engineering, Inc. February 2001. *Additional Assessment Report, TCI Building, 924 Emerald Bay Road, South Lake Tahoe, California*. Table 2.

[47] Water Board. 18 April 2007. TCI Building, 924 Emerald Bay Road, South Lake Tahoe, El Dorado County.

[48] Water Board. 8 February 2011. Letter to Murray Wikol Re *No Further Action Required for the Former TCI Building, 924 Emerald Bay Road, South Lake Tahoe, El Dorado County (SCP No. T6S017)*.

[49] Water Board. 7 February 2011. Case Closure Summary. Former TCI Building. p. 5.

TABLE 5-1
KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

Site Address	Former and Current Owner or Occupant	Former and Current Operations	Years of Operations	Chemical Use History
941 Emerald Bay Road	Former Chem-Dry Carpet Cleaning of South Lake Tahoe and Custom Carpet Cleaning	Carpet cleaning	1980s to 1990s	Questionnaire submitted to Water Board provides information pertaining only to the Crystal Range Motel that occupied this property.[50] However, two carpet cleaning businesses are reported to have operated on this site (i.e., Chem-Dry Carpet Cleaning and Custom Carpet Cleaning).[51] No chemical use information for the carpet cleaning businesses was provided. The Water Board collected a groundwater sample from a domestic well on this property in 1999. The groundwater sample contained 2.9 µg/L of PCE.[52]
949 Emerald Bay Road	Former Norma's Cleaners	Dry cleaning	1969 to 1977[53]	PCE released at former Norma's Cleaners (i.e., Hurzel or current BevMo site) has impacted soil and groundwater beneath the property. Incomplete investigation and remediation of the site have left a subsurface PCE source that is southeast of the former site building.[54] PCE contamination at the former PCE truck parking area and possible other source locations (i.e., former dry cleaner machine, PCE delivery hallway, storm water detention basin, trash dumpster, and storm drain and sanitary sewer lines) have not been adequately delineated. The Water Board has issued an Investigation Order to past and current owners and operators of the Hurzel site that require those entities to define the "threat and extent of remaining onsite PCE contamination."[55]

[50] Steven and Janet Leman. 29 April 2019. Chemical Storage and Use Questionnaire, 941 Eloise Avenue. Investigative Order No. R6T-2019-0089.

[51] Hill-Donnelly City Directory. 1992; Pacific Bell Directory. 1985.

[52] Water Board. 16 April 1999. Letter to Banoo Iman, Crystal Range Motel Re *Notice of Results from Drinking Water Well Sampling at Crystal Range Motel, 941 Emerald Bay Road, South Lake Tahoe, El Dorado County*.

[53] SECOR International Incorporated ("SECOR"). 30 May 2008. Site Investigation Report, Former Dry Cleaning Business, 949 Emerald Bay Drive, South Lake Tahoe, CA. p. 1.

[54] PES Environmental, Inc. 23 August 2019. Letter to Brian Grey, California Regional Water Quality Control Board, Lahontan Region *Re Comments on Previous Site Characterization and Remediation, Hurzel Properties, LLC, 945, 949 and 961 Emerald Bay Road, South Lake Tahoe, California, Lahontan SCP Case No. T6S044, GeoTracker Global ID SL0601790916*.

[55] Water Board. 10 May 2019. Order to Submit Technical Reports in Accordance with Section 13267 of the California Water Code, Hurzel Properties, LLC, 961 Emerald Bay, Road, South Lake Tahoe, El Dorado County, SCP Case No. T6S044, GeoTracker Global ID SL0601790916.

TABLE 5-1
KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

Site Address	Former and Current Owner or Occupant	Former and Current Operations	Years of Operations	Chemical Use History
1000 Emerald Bay Road	Former Exxon service station and Chief Auto Parts, Inc.	Gasoline service station	Unknown	In 1989, Chief Auto Parts, Inc. acquired the property where an Exxon service station once existed. The City of South Lake Tahoe acquired the property in 1993 and demolished the Exxon service station and constructed the current South Y Transit Center.[56] The questionnaire submitted by the City of South Lake Tahoe describes only Tahoe Transportation District bus service, which does not involve chemical use at the property. The questionnaire does not provide information pertaining to past chemical use or handling by the service station.[57] Mark and Gail Strong, operators of the former Big O Tires facility, have provided information pertaining to possible sources of PCE in the South Y area. Notes documenting conversations with long-time residents of South Lake Tahoe were transmitted to Water Board. The notes indicate that illicit dumping occurred at the Exxon service station. The notes state the "Y property corner when the Transit Station is now [located]" was the area where "lots of solvents of oil and cleaners were poured on the ground" and "[w]hen the pick-up for oil did not come due to a storm, etc. the product was dumped behind the station in a low area."[58] A map included in a Water Board letter, dated 3 October 2001, indicates PCE was detected at 1.4 µg/L at 17 feet bgs and 6 µg/L at 30 feet bgs on the Exxon service station site.[59]

[56] City of South Lake Tahoe.3 December 1993. Memorandum to Kerry Miller, City Manager *Re Award of Bid, Demolition of Former Exxon Station at 1000 Emerald Bay Road, Formal Bid No. 1993-16, $8,300*.

[57] City of South Lake Tahoe 28 May 2019. Chemical Storage and Use Questionnaire, 1000 Emerald Bay Road. Investigative Order No. R6T-2019-0092.

[58] See Strong, M. and Strong, G., Email to B. Grey (Water Board) *Re* Big O Tire #65 Charges (14 November 2019) (attachments).

[59] Water Board. 3 October 2001. Letter to Gerald and Ann Johnson, Tahoe Supply Company, and TWGW Inc. *Re Notice to Submit Workplan for Investigation at 1931 and 1935 Lake Tahoe Boulevard, South Lake Tahoe, El Dorado County (APN 023-351-18)*.

TABLE 5-1
KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

Site Address	Former and Current Owner or Occupant	Former and Current Operations	Years of Operations	Chemical Use History
1020 Emerald Bay Road	Equilon Enterprises LLC, South Tahoe Shell Gasoline service station (South Y Shell), and Shell Oil Company	Gasoline service station	1956 to present	The chemical use information included in the questionnaire submitted to the Water Board pertains only to current operations that consist of a retail gasoline station, car wash, and convenience store. The questionnaire states "[t]he former Shell-branded service station included an auto repair shop and hoists. It is unknown what historical activities were performed at the garage."[60] PCE has been detected in groundwater beneath the Shell service station and in the downgradient direction of groundwater flow from the property. Extraction well S-11, which had a screen interval between 10 and 30 feet bgs, contained 83 µg/L of PCE in 2003.[61] In 1999, grab groundwater samples were obtained from boreholes on 1989 Lake Tahoe Boulevard, which is approximately 350 feet in the downgradient groundwater flow direction from the Shell service station. PCE was detected at maximum concentrations of 16.3 µg/L at 20 feet bgs within the shallow zone in borehole SB-12, and 50.5 µg/L at 40 feet bgs within the middle zone and 1.94 µg/L at 80 feet bgs in borehole SB-20.[62] The report summarizing these data stated "[a]lthough Shell has successfully argued to not report additional chlorinated solvent data as part of petroleum remediation efforts, additional data are most likely available from the analytical database for that site."[63]
1056 Emerald Bay Road	Kmart	Retail sale of electronics, toys, clothing, bedding, furniture, and home decor	Unknown	Review of DTSC hazardous waste generator records indicates that Kmart generated 4 to 238 pounds (i.e., 0.3 to 18 gallons) of PCE per year between 2007 and 2011.[64]

[60] AECOM Technical Service Inc. 3 May 2019. Chemical Storage and Use Questionnaire, 1020 Emerald Bay Road. Investigative Order No. R6T-2019-0096.

[61] Water Board. 11 June 2003. Letter to Denis Brown, Shell Oil Products US *Re Analytical Results of Split Groundwater Samples, South Y Shell Station, 1020 Emerald Bay Road, El Dorado County, UST Case No. 6T0300A*.

[62] Resource Concepts, Inc. 14 February 2001. *Investigation of Chlorinated Solvent Contamination on the Garfinkle Property, 1989 Lake Tahoe Blvd., South Lake Tahoe*. p. 1.

[63] *Id*.

[64] DTSC. 1 October 2019. EPA ID Profile, Kmart #9153.

TABLE 5-1

KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA

Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

Site Address	Former and Current Owner or Occupant	Former and Current Operations	Years of Operations	Chemical Use History
1069 Emerald Bay Road	Former Emerald Bay Chevron service station and Goodwill Industries	Gasoline service station	Unknown	Questionnaires submitted to the Water Board indicate that Chevron service station ceased operating in 2003 and the site is now occupied by Goodwill Industries for the retail sale of donated used merchandise.[65] The questionnaires do not address past chemical usage by the service station. Review of DTSC hazardous waste generator records indicate that the Chevron service station routinely disposed of hydrocarbon solvents.[66] Limited soil sampling was accomplished in 2001 after removal of underground storage tanks and fuel dispensers, associated underground piping and vent lines, and hydraulic hoists. Petroleum hydrocarbons and related constituents were detected at concentrations in soil indicative of minor releases.[67] No soil sampling was conducted at solvent storage and use locations and no collection of groundwater samples for analysis of chlorinated solvents was performed.
1119 Emerald Bay Road	Southside Machine Shop and L&L Auto Body & Paint Shop	Auto body repair; machining	Unknown	Questionnaire submitted to Water Board Describes only chemical use associated with Barton Health System, the current occupant.[68] No information pertaining to former auto body and machining operations that may have used chlorinated solvents is provided.
1140 Emerald Bay Road	Former USA Gas #7 (Oasis service station), American #1, Lake Tahoe Body Shop, and Lovett's Body Shop	Retail gasoline station; auto body repair	Unknown	Questionnaire submitted to Water Board indicates past operations included a “mechanic shop” that may have used chlorinated solvents.[69] However, specific information pertaining to chemical use by this entity is lacking.

[65] *See* Goodwill Industries Sacramento Valley Northern Nevada. 3 May 2019. Chemical Storage and Use Questionnaire, 1069 Emerald Bay Road. Investigative Order No. R6T-2019-0103; and Chevron Products Company. 24 May 2019. Chemical Storage and Use Questionnaire, 1069 Emerald Bay Road. Investigative Order No. R6T-2019-0104.

[66] DTSC. 28 April 2014. EPA ID Profile, Chevron 90672.

[67] Cambria Environmental Technology, Inc. 21 March 2003. Tank Removal and Sampling Report, Former Chevron Station 9-0672, 1069 Emerald Bay Road, South Lake Tahoe, CA.

[68] Barton Health System. 2 July 2019. Chemical Storage and Use Questionnaire, 1119 Emerald Bay Road. Investigative Order No. R6T-2019-0107.

[69] USA Gasoline Corporation. 12 September 2019. Chemical Storage and Use Questionnaire, 1140 Emerald Bay Road. Investigative Order No. R6T-2019-0109.

TABLE 5-1
KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

Site Address	Former and Current Owner or Occupant	Former and Current Operations	Years of Operations	Chemical Use History
1030 Industrial Avenue	Sierra Shirts, Inc.	Textile screen printing	Unknown	Screen printing onto textiles can involve use of PCE in spot removers, haze removers, screen degreasers, and waste inks.[70] Questionnaire states current property owner, June Woodger Trust, does not have any knowledge about Sierra Shirt, Inc.'s operations.[71]
1104 Industrial Avenue	Tahoe Asphalt	Asphalt manufacturing	1965 to present	Questionnaire submitted to Water Board indicates chlorinated solvents may have been used in the past.[72] This possibility is supported by an operations manager at the site who stated "used solvent was placed into the waste oil aboveground storage tank."[73] In 1995, PCE was detected below the Tahoe Asphalt site at concentrations of 18 µg/L, 5.6 µg/L, and 1 µg/L in grab groundwater samples collected from boreholes at depths of 23, 29, and 35 feet bgs, respectively.[74] In 1998, an investigation was performed to identify the possible source of PCE in groundwater at the property. PCE was detected in three monitoring wells at concentrations of 1.1 µg/L, 2.5 µg/L, and 4.7 µg/L at a depth of approximately 25 feet bgs.[75] The Water Board concluded that the Tahoe Asphalt site contained a PCE source affecting Industrial Well #2, which was a municipal supply well.[76] Contaminated soil and groundwater extraction was initiated in 1999 to remediate petroleum hydrocarbons and PCE in groundwater. The Water Board believed these actions removed the "majority of the PCE source" at the property and granted case closure in 2004.[77]

[70] U.S. EPA. September 1997. *Multimedia Compliance/Pollution Prevention Assessment Guidance for Screen Printing Facilities*. Office of Enforcement and Compliance Assurance. EPA 305B-97-003. p. 7.

[71] June Woodger Trust. 11 June 2019. Chemical Storage and Use Questionnaire, 1104 Industrial Avenue. Investigative Order No. R6T-2019-0204.

[72] Tahoe Asphalt. 24 July 2019. Chemical Storage and Use Questionnaire, 1104 Industrial Avenue. Investigative Order No. R6T-2019-0208.

[73] Blymyer Engineers, Inc. 17 March 1995. *Limited Subsurface Investigation Report, Tahoe Asphalt, 1104 Industrial Ave., South Lake Tahoe, CA*. p. 2.

[74] *Id*. p. 8 and Table I.

[75] Advanced Scientific Solutions, Inc. December 1998. *Site Characterization Study for Chlorinated Solvents in Soils and Groundwater, Tahoe Asphalt Property, 1104 Industrial Avenue, South Lake Tahoe, California*. pp. 7 and 9.

[76] Water Board. 7 December 2004. Letter to Richard Solari *Re Tahoe Asphalt No Further Action Required for Tahoe Asphalt, 1104 Industrial Avenue, South Lake Tahoe, El Dorado County, UST No. 6T0153A, UST Cleanup Fund Claim No. 12439*.

[77] *Id*.

TABLE 5-1
KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

Site Address	Former and Current Owner or Occupant	Former and Current Operations	Years of Operations	Chemical Use History
2070 James Avenue	Former Berry-Hinckley Industries Bulk Terminal, and Flyers Energy LLC	Lubricant and grease products packaging and transport; gasoline and diesel fueling operations	1940s to present[78]	The site is an active bulk petroleum terminal, currently operated by Flyers Energy LLC, that was formerly operated by Berry-Hinckley Industries. Flyers Energy states it stores a maximum of 100 gallons of PCE on any given day at the terminal.[79] Shallow zone monitoring well MW-4, which had a screen interval between 8 and 23 feet bgs,[80] appears to have been the only well tested for PCE on the former Berry-Hinckley terminal. Well MW-4 contained up to 79 µg/L of PCE in 2006.[81]
1855 Lake Tahoe Boulevard	Shehadi Motors, Cardinale Way Toyota, and Luck of the Irish Inc.	Automobile service and repair	Unknown	The current owner, Joseph Cardinale, states it does not have information regarding past operations and chemical use at the property.[82] DTSC hazardous waste generator records indicate that, between 1995 and 2018, both Shehadi Motors and Cardinale Way Toyota routinely disposed of spent PCE at quantities ranging from 36 to 625 pounds annually, which correspond to approximately 3 to 46 gallons of spent PCE per year.[83] A groundwater investigation of the Shehadi Motors site and adjoining South Shore Motors site was conducted in 1999. A single borehole HP-3 was placed in the downgradient direction of groundwater flow from the automotive repair garage and an underground drain system on the Shehadi Motors site. No PCE was measured above the analytical method reporting limits in grab groundwater samples collected at 30 and 70 feet bgs.[84]

[78] Conestoga-Rovers & Associates. February 2014. Site Conceptual Model and Case Closure Request, Former Berry-Hinckley Industries Bulk Terminal (Former Chevron 1001382), 2070 James Avenue, South Lake Tahoe, California, SLIC Case T6S021. p. 2.

[79] Flyers Energy LLC. Chemical Storage and Use Questionnaire, 2070 James Avenue. Investigative Order No. R6T-2019-0118 and attached Chemical Inventory Form and Hazardous Materials and Wastes Inventory Matrix Report.

[80] ECM. 4 May 2005. *1st Quarter 2005 Ground Water Monitoring Report, Former Redwood Oil Company Bulk Plant, 2060 Eloise Avenue, South Lake Tahoe, California*. Table 1.

[81] RDM Environmental Inc. 19 December 2012. *Request for "No Further Action," Former Redwood Oil Company Bulk Plant, 2060 Eloise Avenue, South Lake Tahoe, California*. Table 1.

[82] Joseph Cardinale. 3 May 2019. Chemical Storage and Use Questionnaire, 1855 Lake Tahoe Boulevard. Investigative Order No. R6T-2019-0133. pp. 2-4.

[83] *See* DTSC. 25 October 2018. EPA ID Profile, Cardinale Way Toyota; DTSC. 14 September 2004. EPA ID Profile, Shehadi Motors, Inc.

[84] SECOR. 23 June 1999. *Report of Findings, Ground Water Investigation South Shore and Shehadi Motors*.

TABLE 5-1
KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

Site Address	Former and Current Owner or Occupant	Former and Current Operations	Years of Operations	Chemical Use History
1875 Lake Tahoe Boulevard	Former South Shore Motors and DIY Home Center	Auto body repair	Unknown	The current owner, 1875 Lake Tahoe Boulevard, states it has no information regarding past operations and chemical use at the property.[85] DTSC hazardous waste generator records indicate that South Shore Motors generated between 68 to 220 pounds of spent PCE annually between 2000 and 2008.[86] These PCE quantities correspond to approximately 5 to 16 gallons of spent PCE per year. In 1999, grab groundwater samples were collected at approximately 25, 80, and 120 feet bgs in five boreholes at and near the South Side Motors site. PCE was detected at maximum concentrations of 2.5 µg/L at 80 feet bgs and 1.1 µg/L at 120 feet bgs.[87]
1901 Lake Tahoe Boulevard	AMC/Jeep Renault Dealership, Les Schwab Tire Center, Baker Automotive, Bill Winks Motor Sales Inc., Terry Libbon Motors-Chevrolet, and Lake Tahoe Auto Village	Automobile service and repair; retail tire sales	1970s to present[88]	Questionnaire submitted to Water Board describes only chemical use associated with Les Schwab, the present occupant.[89] Questionnaire states no chlorinated solvents are used in current operations. However, DTSC hazardous waste generator records indicate Les Schwab generated 800 and 350 pounds of spent halogenated solvent in 2014 and 2015, which likely consisted of approximately 59 and 26 gallons of PCE, respectively.[90] DTSC hazardous waste records also show Lake Tahoe Auto Village, a past tenant, generated approximately 140 pounds (i.e., 11 gallons) of spent PCE in 2000.[91] Grab groundwater samples were collected from four boreholes situated along the northern property line in 2000. No PCE was measured above analytical reporting limits in grab groundwater samples collected at 6 feet bgs. PCE was detected at concentrations ranging from 2.3 to 4.7 µg/L in grab groundwater samples collected at 50 feet bgs, and at 1.6 µg/L in one of four grab groundwater samples collected at 80 feet bgs.[92]

[85] South Shore Motors. 6 May 2019. Chemical Storage and Use Questionnaire, 1875 Lake Tahoe Boulevard. Investigative Order No. R6T-2019-0134. pp. 2-4.

[86] DTSC. 10 September 2009. EPA ID Profile, South Shore Motors, Inc.

[87] SECOR. 10 December 1999. *Report of Findings, 1,2-Dichloroethane Groundwater Investigation, South Shore Motors*.

[88] VESTRA Resources, Inc. August 2005. Phase I Environmental Assessment, 1901 Lake Tahoe Boulevard, South Lake Tahoe, California. p. 7.

[89] Les Schwab Tire Centers of California, Inc. 16 April 2019. Chemical Storage and Use Questionnaire, 1901 Lake Tahoe Boulevard. Investigative Order No. R6T-2019-0139.

[90] DTSC. 28 August 2019. EPA ID Profile, Les Schwab Tire Centers of California, Inc.

[91] DTSC. 24 April 2003. EPA ID Profile, Lake Tahoe Auto Village.

[92] Terra Vac. 15 February 2000. Groundwater Investigation, Former Baker Automotive, 1901 Lake Tahoe Boulevard, South Lake Tahoe, California. pp. 3-4.

TABLE 5-1

KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA

Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

Site Address	Former and Current Owner or Occupant	Former and Current Operations	Years of Operations	Chemical Use History
1920 Lake Tahoe Boulevard	Former Kragen and CSK Auto, Inc.	Automobile service and repair	Unknown	The current owner, Bill D. Olin Trust, states it has no information regarding past operations and chemical use at the property.[93] A groundwater investigation report prepared for the property indicates automotive maintenance was conducted at the site.[94] Though no PCE in groundwater was detected above the analytical method reporting limits, grab groundwater samples were collected only from the shallow zone and not near suspected release locations (e.g., service bays and waste oil tank).
1961 Lake Tahoe Boulevard	Former Big O Tires	Automobile service and repair	1975 to 2006	In a 2004 letter to Water Board, a representative for lessees CAMCO and BOT 65, Inc. disclosed that "trace amounts of PCE" were present in solvent used by these lessees. This letter also disclosed that Brakleen was handled at the property.[95] Brakleen is a brake cleaning product that historically contained as much as 65 to 94 percent by weight of PCE.[96] Chlorinated solvent formulations of Brakleen may have been used by past operators of the Big O Tires franchise at the site.[97] An investigation conducted in 2001 discovered up to 4,700 µg/L of PCE in middle zone groundwater beneath the former Big O Tires site.[98] In 2002, CAD Enterprises, the current property owner, notified former and current lessees of its intent to commence legal actions against them based upon their contribution to soil and groundwater PCE contamination at the property.[99] The Water Board has issued an Investigation Order to past and current owners and operators of the former Big O Tires facility to further characterize site conditions.[100]

[93] Bill D. Olin Trust. 16 April 2019. Chemical Storage and Use Questionnaire, 1920 Lake Tahoe Boulevard. Investigative Order No. R6T-2019-0146. pp. 2-4.

[94] Engineering/Remediation Resources Group, Inc. November 2002. Report, Groundwater, Investigation, 1920 Lake Tahoe Boulevard, South Lake Tahoe, California.

[95] Strong, M. (CAMCO and BOT 65, Inc.). 29 January 2004. Letter to Harold Singer, Executive Officer, California Regional Water Quality Board, Lahontan District.

[96] U.S. Department of Health & Human Services. 10 July 2007. *Household Products Database, Health & Safety Information on Household Products*, Brakleen Brake Parts Cleaner – Old Product, U.S. National Library of Medicine. Current safety data sheets show Brakleen can be as much as 90 to 100 percent PCE. *See* http://docs.crcindustries.com/msds/1003714E.pdf.

[97] *See* Letter by William F. Tarantino, counsel for Seven Springs Limited Partnership, and Scott H. Reisch, counsel for Fox Capital Management Corporation to Patty Kouyoumdjian, Executive Officer, Lahontan Regional Water Quality Control Board, dated 23 August 2019, that provides comments to assist the Water Board in its ongoing investigation of regional groundwater PCE contamination, particularly as it relates to the Big O Tires Investigation Order.

[98] Harding ESE. 30 October 2001. Groundwater Investigation, Big-O Tire Center, 1961 South Lake Tahoe Blvd., South Lake Tahoe, California. Table 1

[99] McLaughlin, M. (Feldman & Shaw). 3 January 2002. Letter to Lessees *Re Big-O Tires Center 1961 Lake Tahoe Boulevard, South Lake Tahoe, CA APN 023-523-08*; and McLaughlin, M. (Feldman & Shaw). 17 January 2002. Letter to M. Strong and C. Harris (CAMCO) *Re Big-O Tires Center 1961 Lake Tahoe Boulevard, South Lake Tahoe, CA APN 023-523-08*.

[100] Water Board. 10 May 2019. Order to Submit Technical Reports in Accordance with Section 13267 of the California Water Code, Big O Tire Store, 1961 Lake Tahoe Boulevard, South Lake Tahoe, El Dorado County, SCP Case #T6S034, Geotracker Global ID SL0601729739.

TABLE 5-1
KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

Site Address	Former and Current Owner or Occupant	Former and Current Operations	Years of Operations	Chemical Use History
2022 Lake Tahoe Boulevard	Former S&S One Hour Cleaners, Lampson One-Hour Cleaners, and Sierra Dry Cleaners	Dry cleaning	1970s to 1990s	These former dry cleaners operated from the 1970s through the 1990s.[101] These businesses likely used PCE in their dry-cleaning operations. Review of building permits indicate that S&S One Hour Dry Cleaners occupied the tenant space at 2022 Lake Tahoe Boulevard from as early as 1978 until the mid-1980s.[102] The questionnaire included a Phase I Environmental Assessment ("ESA") report prepared by Partner Engineering and Science, Inc. The site plan (i.e., Figure 3) included with the Phase I ESA report shows the former dry cleaner tenant space was located on the western side of the retail complex as opposed to the eastern side of the complex depicted in the April 2019 Investigation Summary Report. This information is relevant because it suggests that the sampling locations included in the voluntary off-site investigation were not properly located. An extremely high PCE concentration was reported for a groundwater sample obtained from shallow zone monitoring well S-13A, which had a screen interval between 10 and 30 feet bgs. This well was constructed as part of the investigation of the gasoline release from the Shell service station at 1020 Emerald Bay Road and was situated approximately 500 feet northwest in the general downgradient groundwater flow direction from the corrected location of the former drycleaner. The analytical laboratory report indicated the groundwater sample collected in 2003 from well S-13A contained 1,000,000,000 µg/L of PCE.[103] This reported concentration is likely a transcription error, but still could signify groundwater PCE concentrations indicative of a release at the former drycleaner site.

[101] South Lake Tahoe telephone directory. 1979 and Hill-Donnelly City Directory. 1989.

[102] Partner Engineering and Science, Inc. 4 March 2013. *Phase I Environmental Site Assessment, Factory Store at the Y, 2014-2062 Lake Tahoe Boulevard, South Lake Tahoe, California*. pp. 10 and 14.

[103] Water Board. 11 June 2003. Letter to Denis Brown, Shell Oil Products US *Re Analytical Results of Split Groundwater Samples, South Y Shell Station, 1020 Emerald Bay Road, El Dorado County, UST Case No. 6T0300A*.

TABLE 5-1
KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

Site Address	Former and Current Owner or Occupant	Former and Current Operations	Years of Operations	Chemical Use History
2301 Lake Tahoe Boulevard	Former Tahoe One Hour Cleaners and Vaya Clean Eco Dry Cleaning & Laundry	Dry cleaning	1979 to 2018	Questionnaire submitted to Water Board does not provide information pertaining to use of chlorinated solvents.[104] In 1997, the only year for which public data are available, DTSC hazardous waste generator records indicate Tahoe One Hour Cleaners generated 1,300 pounds of spent halogenated solvent, which likely consisted of approximately 99 gallons of PCE.[105]
2304 Lake Tahoe Boulevard	Beacon Station No. 688, Flyers Beacon, LLC, South Tahoe Station, Inc., and Tahoe Station, Inc. service station	Retail gasoline station and convenience store; automobile service and repair	Unknown	Questionnaires submitted to Water Board states no chemicals were used by tenants operating the retail gasoline station and convenience store.[106] No chemical use information associated with automobile service and repair conducted at the site was provided. Concrete sump was discovered during remodeling in 1993 and the site had an infiltration gallery that was used to percolate storm water runoff.
2314 Lake Tahoe Boulevard	Ed's Auto Body	Auto body repair	Unknown	Questionnaire submitted to Water Board states no chlorinated solvents were used and no metal work or metal degreasing was performed at the property.[107] However, a sample of solids collected from a floor drain inside the former auto body building contained 1,200 milligrams per kilogram ("mg/kg") of PCE.[108] Groundwater at the site contained 4.3 µg/L of PCE. The scope and adequacy of the investigation pertaining to solvent releases at the property cannot be determined because no reports pertaining to site characterization are available on GeoTracker, which is the State Water Resources Control Board's data management system for sites that impact, or have the potential to impact, water quality in California.

[104] Tahoe One Hour Cleaners. 23 July 2019. Dry Cleaner Operations Questionnaire and Chemical Storage and Use Questionnaire, 2301 Lake Tahoe Boulevard. Investigative Order No. R6T-2019-0172.

[105] DTSC. 8 October 2018. EPA ID Profile, Tahoe One Hour Cleaners.

[106] *See* Tahoe Station, Inc. 25 April 2019. Chemical Storage and Use Questionnaire, 2304 Lake Tahoe Boulevard. Investigative Order No. R6T-2019-0173; Tesoro Petroleum. 3 May 2019. Chemical Storage and Use Questionnaire, 2304 Lake Tahoe Boulevard. Investigative Order No. R6T-2019-0174.

[107] Tahoe Keys Corporation. 22 April 2019. Chemical Storage and Use Questionnaire, 2314 Lake Tahoe Boulevard. Investigative Order No. R6T-2019-0175.

[108] Water Board. 15 July 2003. Case Closure Summary, Former Ed's Auto Body, 2314 Lake Tahoe Boulevard, South Lake Tahoe. p. 4.

TABLE 5-1
KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

Site Address	Former and Current Owner or Occupant	Former and Current Operations	Years of Operations	Chemical Use History
2317 Lake Tahoe Boulevard	CSK Auto, Inc., Tires Plus, and O'Reilly Auto Parts, Grand Auto Inc., Wheel Works, Paccar Automotive, Inc., and Kelly-Moore Paint Company	Automobile service and repair; retail automotive parts and tires sales	1979 to present	Questionnaire submitted to Water Board states O'Reilly Auto Parts previously sold but did not use chlorinated solvents as part of its business.[109] The questionnaire does not address past chemical use at the property. DTSC hazardous waste generator records show Wheel Works generated 42 to 240 pounds (i.e., 3 to 18 gallons) of PCE at the property annually between 2002 and 2004.[110] An investigation and corrective action for a release of oil in service bay drains was completed in 2009.[111] However, these service bay drains were connected to the storm drain that discharged into an infiltration trench. A plumber reported the illegal connection to the Water Board.[112] Although no PCE was detected in grab groundwater samples collected at approximately 11 to 13 feet bgs in 2009,[113] no sampling of deeper groundwater was performed, and no testing was conducted at locations where PCE was stored and managed on the facility. In 2008, trichloroethene, a possible anaerobic biotransformation compound of PCE, was detected at 2.5 µg/L in a grab groundwater sample collected at the same area of the site as the groundwater samples obtained in 2009.[114] In 2012, petroleum hydrocarbons were found to have been released to soil at an oil/water separator and eight hydraulic hoists.[115] Soil samples were not analyzed for PCE. No groundwater sampling was performed.

[109] Bloom Investment Company, LP. 3 May 2019. Chemical Storage and Use Questionnaire, 2317 Lake Tahoe Boulevard. Investigative Order No. R6T-2019-0177.

[110] DTSC. 25 May 2007. EPA ID Profile, Wheel Works.

[111] Water Board. Letter to Robert Green, Director of Real Estate Legal Services, O'Reilly Automotive, Inc., and Bloom Investment Company c/o Eber Properties, Jeanne Eber *Re No Further Action Required at the Former CSK Auto #4083, 2317 Lake Tahoe Boulevard, South Lake Tahoe, El Dorado County, SCP Case No. T6S068*.

[112] Water Board. 18 April 2008. SLIC Release/Contamination Site Report, CSK Auto. URF Tracking Number: 5280927360.

[113] GeoTek, Inc. 26 June 2009. *Groundwater Investigation, Former CSK Auto #4083, 2317 Lake Tahoe Boulevard, South Lake Tahoe, California*.

[114] *Id*.

[115] McGinley & Associates. 19 October 2012. *Results of Assessment and Remediation Activities, O'Reilly Auto Parts, 2317 Lake Tahoe Boulevard, South Lake Tahoe*.

TABLE 5-1

KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA

Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

Site Address	Former and Current Owner or Occupant	Former and Current Operations	Years of Operations	Chemical Use History
807 Roger Avenue	Former Ted's Fix-It Shop	Motor and electrical equipment repair	1980s to 2012	The property is adjacent to a 7-Eleven convenience store. Based upon the investigative findings reported by URS Corporation Americas ("URS"),[116] Water Board concluded that a "suspected-source area" is near the 7-Eleven store.[117] Former Ted's Fix-It Shop is a possible PCE source. Questionnaire submitted to the Water Board indicates chlorinated solvents were used at the property.[118] In 2001, the only year for which data are available, DTSC hazardous waste generator records indicate Ted's Fix-It Shop generated 720 pounds of an unspecified solvent mixture.[119] Other releases may be contributing to PCE in groundwater near the 7-Eleven store. Notes documenting conversations with long-time residents of South Lake Tahoe were transmitted to Water Board by M. Strong. Among other PCE sources, the notes identify "R&D Petroleum up Glorene in the 7-11 area."[120]
2105 Ruth Avenue	Art's Transmission	Transmission service and repair	1980 to present	Questionnaire indicates no chlorinated solvents have been used at facility. However, an undated drawing in the business plan attached to the questionnaire shows the presence of two "solvent sinks" and a "cleaning machine" within the building at the facility.[121]
2119 Ruth Avenue	Five Star Automotive and Mike's Garage	Automobile service and repair	1990 to present	Questionnaire submitted to Water Board states no chlorinated solvents have been used at the facility.[122] However, this statement conflicts with DTSC hazardous waste generator records that indicate Five Star Automotive disposed of hydrocarbon solvents, which consisted of 150 pounds or roughly 11 gallons of PCE in 2007.[123]

[116] URS. 19 January 2016. *Final PCE Investigation Report, South Lake Tahoe, California*.

[117] Water Board. 2 September 2016. *Meeting Summary to Discuss Next Steps for the South Y PCE Investigation*. Memorandum to Lauri Kemper, Assistance Executive Officer, from Lisa Dernbach, Senior Engineering Geologist (Specialist).

[118] Vogel Center LLC. 1 May 2019. Chemical Storage and Use Questionnaire, 807 Roger Street. Investigative Order No. R6T-2019-0184.

[119] DTSC. 18 August 1999. EPA ID Profile, Ted's Fix-It Shop.

[120] See Strong, M. and Strong, G. 14 November 2019. Email to B. Grey (Water Board) *Re Big O Tire #65 Charges* (attachments).

[121] Art's Transmission. 16 April 2019. Chemical Storage and Use Questionnaire, 2119 Ruth Avenue. Investigative Order No. R6T-2019-0186.

[122] Five Star Automotive. 29 April 2019. Chemical Storage and Use Questionnaire, 2119 Ruth Avenue. Investigative Order No. R6T-2019-0187.

[123] DTSC. 19 August 2019. EPA ID Profile, Five Star Automotive.

TABLE 5-1
KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

Site Address	Former and Current Owner or Occupant	Former and Current Operations	Years of Operations	Chemical Use History
2140 Ruth Avenue	South Tahoe Refuse and Recycling Services	Non-hazardous solid waste transfer station and material recovery facility	1968 to present	Questionnaire submitted to Water Board states metal work or metal degreasing has been performed at the site.[124] The questionnaire also indicates PCE is used in South Tahoe Refuse's operations. In addition, hazardous materials may be contained in certain non-hazardous solid wastes delivered to the facility for sorting and transfer to Lockwood Regional Landfill in Sparks, Nevada. The facility is permitted to process a maximum of 370 tons per day of municipal solid waste, green material, and construction and demolition debris.[125]
2186 Ruth Avenue	Norm's Auto Repair and Axelson Iron Shop	Automobile service and repair	1995 to present	Questionnaire submitted to Water Board states Axelson Iron Shop was a prior occupant of the property but does not describe the nature of its operations. The questionnaire indicates that Norm's Auto Repair used chlorinated solvents in its operations.[126]
1612 Shop Street	Welcome's Auto Body, Ben's Place, Precision Body Work & Painting, Anything Gas, and California Colors Truck & Auto Body	Auto body repair	Unknown	Numerous entities have performed auto body repair at the site. Questionnaire submitted to Water Board by the current owner and operator of the auto body repair business states no chlorinated solvents have been used by current or former operators. However, the questionnaire does not provide the basis for these statements.[127]

[124] South Tahoe Refuse Co. 3 May 2019. Chemical Storage and Use Questionnaire, 2140 Ruth Avenue. Investigative Order No. R6T-2019-0188.

[125] Placer County Health and Human Services Department. 17 June 2019. South Tahoe Refuse Co., Inc. Solid Waste Facility Permit. 09-AA-0002.

[126] Norm's Auto Repair. 1 April 2019. Chemical Storage and Use Questionnaire, 2186 Ruth Avenue. Investigative Order No. R6T-2019-0191.

[127] California Colors Truck & Auto Body. 3 May 2019. Chemical Storage and Use Questionnaire, 1612 Shop Street. Investigative Order No. R6T-2019-0193.

TABLE 5-1
KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

Site Address	Former and Current Owner or Occupant	Former and Current Operations	Years of Operations	Chemical Use History
1663, 1669, and 1679 Shop Street	City of South Lake Tahoe	Bus parking, and cleaning and maintenance	Mid-1980s to present[128]	Metal degreasing is performed, and chlorinated solvents have been used at the site according to the questionnaire submitted to Water Board. DTSC hazardous waste generator records indicate that at this location the City of South Lake Tahoe generated 67 to 130 pounds (i.e., 5 to 10 gallons) annually of PCE from 1998 to 2006.[129] In 1998, South Tahoe Public Utility District ("STPUD") discovered that the STAGE Bus facility was discharging "a great deal of petroleum products" to the sanitary sewer.[130] These petroleum wastes were found to contain PCE and toluene, plus lesser concentrations of ethylbenzene, xylenes, and methylene chloride.[131] In 1999, the City of South Lake Tahoe, which owned STAGE Bus, a public bus service that served areas in and around South Lake Tahoe, collected grab groundwater samples at six locations on the site. No PCE was detected in the grab groundwater samples that were obtained at depths of approximately 10 feet bgs to 17.5 feet bgs.[132] Although the Water Board considered the STAGE Bus site to be a potential source of groundwater contamination because PCE and other VOCs were detected in the sewer, it did not require investigation of deeper groundwater and closed the STAGE Bus case on the basis of the limited sampling that was performed.[133]
2170 South Avenue	Barton Memorial Hospital	Health care services	1962 to present	Questionnaire states no chlorinated solvents have been used at the hospital.[134] However, DTSC hazardous waste generator records show Barton Memorial Hospital disposed of 33 to 100 pounds (i.e., 3 to 7 gallons) of PCE annually between 2011 and 2018.[135]

[128] Phase Three Environmental. 8 February 1989. *Ground Water Investigation, STAGE Bus Facility, Shop Street, South Lake Tahoe, California*. p. 1.

[129] *See* DTSC. 14 October 2013. EPA ID Profile, MV Transportation, Inc.; and DTSC. 8 October 2002. EPA ID Profile, Area Transit Management, Inc.

[130] STPUD. 20 August 1998. Letter to Harold Singer, CRWQCB – Lahontan Region.

[131] Water Board. 17 July 1998. Letter to Ken Daley, General Manager, STAGE Public Bus *Re STAGE Bus Property, 1680 Shop Street, South Lake Tahoe (El Dorado County) APN 032-312-02*.

[131] Phase Three Environmental Management. 8 February 1999. *Groundwater Investigation, STAGE Bus Facility – Shop Street, South Lake Tahoe, California*.

[132] *Id*. pp. 3 and 5.

[133] Water Board. 4 March 1999. Letter to Ken Daley, ATM General Manager, STAGE Public Bus, and Kerry Miller, City Manager, City of South Lake Tahoe *Re No Further Action at the STAGE Bus Properties, Shop Street, South Lake Tahoe, El Dorado County*.

[134] Barton Memorial Hospital. 13 August 2019. Chemical Storage and Use Questionnaire, 2170 South Avenue. Investigative Order No. R6T-2019-0221.

[135] DTSC. 22 August 2019. EPA ID Profile, Tahoe Import Auto.

TABLE 5-1
KNOWN AND POTENTIAL OFF-SITE SOURCES OF GROUNDWATER PERCHLOROETHYLENE CONTAMINATION IN SOUTH Y AREA
Former Lake Tahoe Laundry Works Site, South Lake Tahoe, California

Site Address	Former and Current Owner or Occupant	Former and Current Operations	Years of Operations	Chemical Use History
1030 Tata Lane	Kmart Corporation (Garden Center #9153), and Mitsubishi dealership	Appliance service and garden center; automobile service and repair	1993 to present	Questionnaire submitted to Water Board provides information only on Kmart's current operations.[136] Kmart has occupied the site since 1993. The questionnaire states no chlorinated solvents are used in Kmart's operations, but is not certain if the prior Mitsubishi automobile service and repair facility used chlorinated solvents. Review of DTSC hazardous waste generator records indicates that wastes produced at the garden shop retail wastes[137] are like those produced at its store at 1056 Emerald Bay Road, which included spent PCE. The possibility exists that spent PCE is either generated or stored at the garden shop, which has a hazardous waste storage area.[138] Grab groundwater samples were obtained at approximately 20 feet bgs from three boreholes in 1993. PCE was detected at 0.8 µg/L in one sample and was not measured above the analytical method reporting limit in the other two samples.[139] In 1997, the Water Board stated in a resolution that the "ground water contamination investigation at the Kmart Garden Shop and Warehouse has produced infrequent evidence of low concentration contamination by diesel and tetrachloroethene."[140] The Water Board closed the case for the property after Kmart completed an additional groundwater sampling event.[141] No investigation of groundwater deeper than approximately 35 feet bgs was performed.

[136] Kmart Corporation. 30 April 2019. Chemical Storage and Use Questionnaire, 1030 Tata Lane.

[137] DTSC. 1 October 2019. EPA ID Profile, Kmart #9153 Garden Shop.

[138] Kmart (Garden Shop) #9153. 26 January 2018. California Environmental Reporting System (CERSID: 10140741).

[139] Environmental Science & Engineering, Inc. 23 July 1993. *Report of Findings, Additional Subsurface Investigation Kmart Facility No. 9153, 1030 Tata Lane, California*.

[140] LRWQCB. 6 February 1997. Resolution No. 6-97-8. Denial of Closure of a Ground Water Contamination Case, Kmart Garden Shop and Warehouse, 1030 Tata Lane, South Lake Tahoe.

[141] Amador Engineering & Infrastructure, Inc. 16 July 1997. Letter to Dr. Ranjit S. Gill, Chief, Planning and Toxics Unit, Lahontan Regional Water Quality Control Board *Re Well Destruction and Site Closure Report, Kmart Garden Shop, 1030 Tata Lane, South Lake Tahoe, California*.

TABLE 16: ESLS, MCLS, AND PHGS FOR PCE, TCE, CIS-1,2 DCE (EMBEDDED IN STAFF REPORT TEXT, LAHONTAN WATER BOARD, 2022)

TABLE 17: MAXIMUM CONCENTRATIONS OF PCE, TCE, CIS-1,2 DCE DETECTED IN ON-SITE SOIL AND UTILITY BACKFILL (EMBEDDED IN STAFF REPORT TEXT, LAHONTAN WATER BOARD, 2022)

TABLE 18: SUMMARY OF SOIL ANALYTICAL RESULTS, ADDITIONAL SITE INVESTIGATION RESULTS (PES, 2005)

PES. 27 May 2005. Additional Site Investigation Results, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

Table 1
Summary of Soil Analytical Results
Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard
South Lake Tahoe, California

Boring ID	Sample ID	Sample Depth (ft-bgs)	Sample Date	PCE	TCE	cis-1,2-DCE	Other VOCs
SB5b	SB5b-1.5	1.5	4/26/05	<0.0050	<0.0050	<0.0050	
SB6b	SB6b-4	4	4/26/05	**1.8**	**0.39**	**0.32**	**trans-1,2-DCE: 0.0072**
	SB6b-12	12	4/26/05	**0.024**	**0.011**	**0.040**	
SB7	SB7-2	2	4/25/05	<0.0050	<0.0050	<0.0050	
	SB7-4	4	4/25/05	**0.46**	**0.032**	**0.0074**	
	SB7-8	8	4/25/05	**0.55**	<0.10	<0.10	
	SB7-12	12	4/25/05	**0.22**	**0.13**	**0.11**	
SB8	SB8-2	2	4/25/05	**0.82**	**0.12**	**0.42**	**trans-1,2-DCE: 0.0063**
	SB8-4	4	4/25/05	**12.0**	<0.50	<0.50	
	SB8-8	8	4/25/05	**6.3**	<0.50	<0.50	
SB9	SB9-1.5	1.5	4/26/05	<0.0050	<0.0050	<0.0050	
	SB9-4	4	4/26/05	**0.040**	**0.014**	**0.016**	
	SB9-8	8	4/26/05	**0.041**	**0.024**	**0.038**	**Vinyl Chloride: 0.0072**
SB10	SB10-2.5	2.5	4/26/05	<0.0050	<0.0050	<0.0050	
	SB10-4	4	4/26/05	**0.038**	**0.0082**	<0.0050	
	SB10-8	8	4/26/05	**0.0087**	**0.0069**	**0.0078**	
SB11	SB11-2	2	4/25/05	**0.0085**	**0.0063**	**0.056**	
	SB11-4	4	4/25/05	**0.27**	<0.125	**0.41**	
	SB11-8	8	4/25/05	<0.0050	<0.0050	<0.0050	
	SB11-12	12	4/25/05	**0.039**	**0.011**	**0.035**	
SB12	SB12-1	1	4/25/05	**0.14**	**0.037**	**0.047**	
	SB12-4	4	4/25/05	**1.8**	**0.27**	**0.22**	
	SB12-8	8	4/25/05	**1.2**	**0.13**	**0.14**	
	SB12-12	12	4/25/05	**0.25**	**0.12**	**0.12**	
SB13	SB13-1	1	4/25/05	**0.010**	<0.0050	<0.0050	
	SB13-4	4	4/25/05	**6.1**	**0.87**	**0.48**	
	SB13-8	8	4/25/05	**0.44**	**0.11**	**0.18**	
	SB13-12	12	4/25/05	**0.092**	**0.036**	**0.1**	

ave
0.836
0.025

0.166
0.55
.153

Table 1
Summary of Soil Analytical Results
Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard
South Lake Tahoe, California

Boring ID	Sample ID	Sample Depth (ft-bgs)	Sample Date	PCE	TCE	cis-1,2-DCE	Other VOCs
SB14	SB14-1.5	1.5	4/25/05	<0.0050	<0.0050	<0.0050	
	SB14-4	4	4/25/05	**1.2**	**0.14**	<0.10	
	SB14-8	8	4/25/05	**0.024**	<0.0050	<0.0050	
	SB14-12	12	4/25/05	**0.012**	**0.0059**	**0.015**	
SB15	SB15-2	2	4/25/05	**0.17**	**0.0071**	<0.0050	
	SB15-4	4	4/25/05	<0.0050	<0.0050	<0.0050	
	SB15-8	8	4/25/05	<0.0050	<0.0050	<0.0050	
SB16	SB16-2.5	2.5	4/26/05	**0.84**	**0.077**	**0.054**	
	SB16-4	4	4/26/05	**0.76**	**0.081**	**0.073**	
	SB16-8	8	4/26/05	**0.022**	**0.012**	<0.0050	
	SB16-12	12	4/26/05	**0.12**	**0.029**	**0.020**	
SB17	SB17-2	2	4/26/05	<0.0050	<0.0050	<0.0050	
	SB17-4	4	4/26/05	<0.0050	<0.0050	**0.010**	**Vinyl Chloride: 0.020**
	SB17-8	8	4/26/05	**0.13**	**0.028**	**0.020**	
	SB17-12	12	4/26/05	**0.097**	**0.025**	**0.024**	
SB18	SB18-1.5	1.5	4/26/05	**0.035**	**0.0083**	**0.022**	
	SB18-4	4	4/26/05	**0.12**	**0.019**	**0.014**	
	SB18-8	8	4/26/05	**0.058**	**0.13**	**0.13**	
	SB18-12	12	4/26/05	**0.20**	**0.10**	**0.14**	

avg
0.151
0.269
0.062
0.066

Notes:
All results in milligrams per kilogram (mg/kg)
ft-bgs: feet below ground surface
< - concentration less than specified laboratory reporting limit
PCE: Tetrachloroethylene
TCE: Trichloroethylene
cis-1,2-DCE: cis-1,2-Dichloroethylene
VOCs: volatile organic compounds
trans-1,2-DCE: trans-1,2-Dichloroethylene
Samples analyzed using U.S. Environmental Protection Agency Test Method 8260B.
Only detected VOCs are tabulated. Other VOCs are below respective laboratory reporting limits.

TABLE 19: SUMMARY OF SOIL ANALYTICAL RESULTS, ADDITIONAL SOIL INVESTIGATION RESULTS (PES, 2006)

PES. 31 January 2006. Additional Soil Investigation Results, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California, RWQCB SLIC Case No. T6S043.

Table 1
Summary of Soil Analytical Results
Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard
South Lake Tahoe, California

Boring ID	Sample ID	Sample Depth (ft-bgs)	Sample Date	PCE	TCE	cis-1,2-DCE
SB-19	SB-19-4	4	11/17/05	**0.24**	<0.0050	<0.0050
	SB-19-8	8	11/17/05	**0.028**	<0.0050	<0.0050
	SB-19-12	12	11/17/05	**0.013**	<0.0050	<0.0050
SB-20	SB-20-4	4	11/17/05	**0.028**	<0.0050	<0.0050
	SB-20-8	8	11/17/05	<0.0050	<0.0050	<0.0050
	SB-20-12	12	11/17/05	<0.0050	<0.0050	<0.0050
SB-21	SB-21-4	4	11/17/05	**0.017**	<0.0050	<0.0050
	SB-21-8	8	11/17/05	<0.0050	<0.0050	<0.0050
	SB-21-12	12	11/17/05	**0.044**	<0.0050	<0.0050
SB-22	SB-22-4	4	11/17/05	**0.066**	**0.0096**	**0.062**
	SB-22-8	8	11/17/05	**0.013**	<0.0050	<0.0050
	SB-22-12	12	11/17/05	**0.096**	**0.068**	**0.022**
SB-23	SB-23-4	4	11/17/05	<0.0050	<0.0050	<0.0050
	SB-23-8	8	11/17/05	**0.032**	<0.0050	<0.0050
	SB-23-12	12	11/17/05	**0.073**	<0.0050	**0.0071**

Notes:
All results in milligrams per kilogram (mg/kg)
ft-bgs: feet below ground surface
< - concentration less than specified laboratory reporting limit
PCE: Tetrachloroethylene
TCE: Trichloroethylene
cis-1,2-DCE: cis-1,2-Dichloroethylene
Samples analyzed using U.S. Environmental Protection Agency Test Method 8260B.
Only detected volatile organic compounds (VOCs) are tabulated. Other VOCs are below respective laboratory reporting limits.

TABLE 20: SUMMARY OF SITE INVESTIGATION SOIL ANALYTICAL DATA, SITE INVESTIGATION REPORT OF FINDINGS (E2C, 2008)

E_2C Remediation Environmental Engineering, Consulting and Remediation, Inc. (E_2C). 22 September 2008. Site Investigation Report of Findings, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

TABLE 2
SUMMARY OF SITE INVESTIGATION SOIL ANALYTICAL DATA
LAKE TAHOE LAUNDRY WORKS
1024 Lake Tahoe Boulevard
South Lake Tahoe, California

Sample Name	Sample Date	Sample Depth (bgs)	PCE	TCE	VC	CA	1,1-DCE	Trans-1,2-DCE	1,1-DCA	Cis-1,2-DCE	1,2-DCA	1,1,1-TCA
			(mg/Kg)									
Friedman & Bruya and ProVera Results												
LW-MW-1-7(FB)	7/11/08	7.0	**410**	**17**	<.05	<.5	<.05	<.05	<.05	**1.2**	<.05	<.05
LW-MW-1-7(PV)			**532**	**13.9**	<0..050	<0..050	<0..050	<0..050	<0..050	<0..050	<0..050	<0..050
LW-MW-1-26(FB)	7/11/08	26.0	**0.26**	<.03	<.05	<.5	<.05	<.05	<.05	<.05	<.05	<.05
LW-MW-1-26(PV)			**0.132**	<0.100	<0..050	<0..050	<0..050	<0..050	<0..050	<0..050	<0..050	<0..050
LW-MW-1-38(FB)	7/14/08	38.0	**0.33**	<.03	<.05	<.5	<.05	<.05	<.05	<.05	<.05	<.05
LW-MW-1-38(PV)			**0.27**	<0.100	<0..050	<0..050	<0..050	<0..050	<0..050	<0..050	<0..050	<0..050
LW-MW-1-52.5(PV)	7/14/08	52.5	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.05	<0.05
LW-MW-2-10(FB)	7/17/08	10.0	**0.33**	**0.035**	<.05	<.5	<.05	<.05	<.05	<.05	<.05	<.05
LW-MW-2-10(PV)			**0.266**	<0.100	<0..050	<0..050	<0..050	<0..050	<0..050	<0..050	<0..050	<0..050
LW-MW-2-16(FB)	7/17/08	16.0	**0.12**	<.03	<.05	<.5	<.05	<.05	<.05	<.05	<.05	<.05
LW-MW-2-16(PV)			**0.086**	<0.100	<0..050	<0..050	<0..050	**0.126**	<0..050	<0..050	<0..050	<0..050
LW-MW-2-31(FB)	7/24/08	31.0	**0.14**	<.03	<.05	<.5	<.05	<.05	<.05	<.05	<.05	<.05
LW-MW-2-31(PV)			**0.112**	<0.100	<0..050	<0..050	<0..050	**0.125**	<0..050	<0..050	<0..050	<0..050
LW-MW-2-43(PV)	7/24/08	43.0	<0.05	<0.1	<0.05	<0.05	<0.05	0.125	<0.05	<0.5	<0.05	<0.05
ProVera Results												
LW-MW-3-11	7/29/08	11.0	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.05	<0.05
LW-MW-3-20	7/29/08	20.0	<0.05	<0.1	<0.05	<0.05	<0.05	**0.123**	<0.05	<0.5	**0.19**	<0.05
LW-MW-3-25	7/29/08	25.0	<0.05	<0.1	0.053	<0.05	<0.05	<0.05	<0.05	**0.71**	<0.05	<0.05
LW-MW-3-34	7/30/08	34.0	<0.05	<0.1	<0.05	<0.05	<0.05	**0.12**	<0.05	<0.5	<0.05	<0.05
LW-MW-4-5.5	7/31/08	5.5	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.05	<0.05
LW-MW-4-15	7/31/08	15.0	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.05	<0.05
LW-MW-4-36.5	8/6/08	36.5	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.05	<0.05
LW-MW-4-45.5	8/6/08	45.5	**0.713**	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.05	<0.05
LW-MW-5-10	7/24/08	10.0	<0.05	<0.1	<0.05	<0.05	<0.05	**0.108**	<0.05	**0.51**	<0.05	<0.05
LW-MW-5-30	7/24/08	30.0	<0.05		0.059	<0.05	<0.05	<0.05	<0.05	<0.5	<0.05	<0.05
LW-MW-5-41	7/24/08	41.0	<0.05	<0.1	<0.05	<0.05	<0.05	**0.107**	<0.05	<0.5	<0.05	<0.05
LW-MW-5-50	7/24/08	50.0	<0.05	<0.1	<0.05	<0.05	<0.05	**0.12**	<0.05	<0.5	<0.05	<0.05

TABLE 2
SUMMARY OF SITE INVESTIGATION SOIL ANALYTICAL DATA
LAKE TAHOE LAUNDRY WORKS
1024 Lake Tahoe Boulevard
South Lake Tahoe, California

Sample Name	Sample Date	Sample Depth (bgs)	PCE	TCE	VC	CA	1,1-DCE	Trans-1,2-DCE	1,1-DCA	Cis-1,2-DCE	1,2-DCA	1,1,1-TCA
			(mg/Kg)									
Friedman & Bruya and ProVera Results												
LW-MW-6-10	8/4/08	10.0	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.05	<0.05
LW-MW-6-20	8/6/08	20.0	**0.272**	<0.1	<0.05	<0.05	<0.05	**0.109**	<0.05	<0.5	<0.05	<0.05
LW-MW-6-30	8/6/08	30.0	**0.106**	<0.1	<0.05	<0.05	<0.05	**0.122**	<0.05	<0.5	<0.05	<0.05
LW-MW-6-45	8/7/08	45.0	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.05	<0.05
LW-MW-7-11	7/31/08	11.00	**0.069**	<0.1	**0.061**	<0.05	<0.05	<0.05	<0.05	<0.5	<0.05	<0.05
LW-MW-7-20	7/31/08	20.00	<0.05	<0.1	<0.05	<0.05	<0.05	**0.113**	<0.05	<0.5	<0.05	<0.05
LW-MW-7-25	7/31/08	25.00	<0.05	<0.1	<0.05	<0.05	<0.05	**0.118**	<0.05	<0.5	<0.05	<0.05
LW-MW-7-40.5	8/5/08	40.50	**0.82**	<0.1	**0.066**	<0.05	<0.05	**0.141**	<0.05	<0.5	<0.05	<0.05
LW-MW-8-15	7/28/08	15.00	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.05	<0.05
LW-MW-8-25.5	7/28/08	25.50	<0.05	<0.1	<0.05	<0.05	<0.05	**0.105**	<0.05	<0.5	<0.05	<0.05
LW-MW-8-32	7/29/08	32.00	**0.057**	<0.1	<0.05	<0.05	<0.05	**0.11**	<0.05	<0.5	<0.05	<0.05
LW-MW-8-40	7/29/08	40.00	**0.375**	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.05	<0.05

Notes:
bgs = Below Ground Surface
FB = Friedman & Bruya, Inc.
nd<0.05 = not detected at or above the stated laboratory reporting limit.
PV = ProVera Analytical Laboratories, Inc.

TABLE 21: SUMMARY OF NOVEMBER 2009 SOIL ANALYTICAL DATA, INTERIM REMEDIAL SYSTEM INSTALLATION/PILOT TESTING REPORT OF FINDINGS AND DRAFT REMEDIAL ACTION PLAN FOR VADOSE ZONE SOIL AND SHALLOW GROUNDWATER CLEANUP (E2C, 2010)

E_2C. 12 August 2010. Interim Remedial System Installation/Pilot Testing Report of Findings and Draft Remedial Action Plan for Vadose Zone Soil and Shallow Groundwater Cleanup, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

TABLE 4B
SUMMARY OF NOVEMBER 2009 SOIL ANALYTICAL DATA
Lake Tahoe Laundry Works
1024 Lake Tahoe Boulevard
South Lake Tahoe, California

Sample ID	Sample Date	Sample Depth (bgs)	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Other VOCs
			(mg/Kg)				
LW-MW-9S							
9S-6	11/10/09	6	**0.347**	nd<0.050	nd<0.050	nd<0.050	nd
9S-10.5		10.5	not analyzed				
9S-15.5		15.5	**0.078**	nd<0.050	nd<0.050	nd<0.050	nd
9S-20.5		20.5	not analyzed				
LW-MW-10S							
10S-6	11/10/09	6	not analyzed				
10S-10.5		10.5	not analyzed				
10S-15.5		15.5	**0.052**	nd<0.050	nd<0.050	nd<0.050	nd
10S-20.5		20.5	not analyzed				
10S-26		26	**0.051**	nd<0.050	nd<0.050	nd<0.050	nd
LW-MW-11S							
11S-5.5	11/10/09	5.5	not analyzed				
11S-10.5		10.5	nd<0.050	nd<0.050	nd<0.050	nd<0.050	nd
11S-15.5		15.5	not analyzed				
11S-20.5		21	not analyzed				
11S-25.5		25.5	**0.072**	nd<0.050	nd<0.050	nd<0.050	nd
LW-MW-12S							
12S-5.5	11/10/09	5.5	not analyzed				
12S-10.5		10.5	nd<0.050	nd<0.050	nd<0.050	nd<0.050	nd
12S-15.5		15.5	not analyzed				
12S-20		20	nd<0.050	nd<0.050	nd<0.050	nd<0.050	nd
12S-25		25	not analyzed				
LW-MW-13S							
13S-5.75	11/10/09	5.75	not analyzed				
13S-10.5		10.5	not analyzed				
13S-21		21	nd<0.050	nd<0.050	nd<0.050	nd<0.050	nd
13S-25.8		25.8	nd<0.050	nd<0.050	nd<0.050	nd<0.050	nd
OS-1							
OS-1@10	3/19/10	10.00	not analyzed; for logging purposes only				
OS-1@15		15.0	not analyzed; for logging purposes only				
OS-1@20		20	not analyzed; for logging purposes only				
OS-1@25		25.0	not analyzed; for logging purposes only				

Notes:

bgs = Below ground surface

cis-1,2-DCE = cis-1,2-dichloroethene

mg/Kg = Milligrams per kilogram (equivalent to parts per million)

nd = Not detected at or above the respective laboratory reporting limit

nd<0.05 = not detected at or above the stated laboratory reporting limit.

PCE = Tetrachloroethylene (a.k.a. perchloroethene)

TCE = Trichloroethylene

Trans-1,2-DCE = trans-1,2-dichloroethene

TABLE 22: SUMMARY OF RECENT ANALYTICAL RESULTS FOR ON-SITE SAMPLES OF FILL SURROUNDING SUBSURFACE STORM DRAIN AND SANITARY SEWER PIPES, *INVESTIGATION SUMMARY REPORT* (EKI, 2019B)

EKI. 1 April 2019b. Investigation Summary Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

TABLE 5-1
SUMMARY OF RECENT ANALYTICAL RESULTS FOR ON-SITE SAMPLES OF FILL SURROUNDING SUBSURFACE STORM DRAIN AND SANITARY SEWER PIPES

Former Lake Tahoe Laundry Works Site
South Lake Tahoe, California

Sample Location	Sample ID	Sample Depth Interval (feet bgs)	Sample Date	Analytical Results in milligrams per kilogram (mg/kg) (a)						
				PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	1,1-DCE	Other VOCs
On-Site - Storm Drain Line Trench Backfill Material										
SD1	SD1-2.75	2.75	12/4/2018	<0.00134	<0.00134	<0.00134	<0.00134	<0.00134	<0.00134	ND
SD2	SD2-4.25	4.25	12/4/2018	<0.00127	<0.00127	<0.00127	<0.00127	<0.00127	<0.00127	ND
SD3	SD3-3.0	3.0	12/4/2018	0.106	0.00179	0.00151	<0.00137	<0.00137	<0.00137	ND
SD4	SD4-4.0	4.0	12/4/2018	0.00335	<0.00121	<0.00121	<0.00121	<0.00121	<0.00121	ND
SD5	SD5-3.0	3.0	12/5/2018	0.00288	<0.00118	<0.00118	<0.00118	<0.00118	<0.00118	ND
SD6	SD6-3.0	3.0	12/5/2018	<0.00158	<0.00158	<0.00158	<0.00158	<0.00158	<0.00158	ND
On-Site - Sanitary Sewer Line Trench Backfill Material										
SS1	SS1-5.75	5.75	12/4/2018	0.0018	<0.00142	<0.00142	<0.00142	<0.00142	<0.00142	ND
SS2	SS2-6.0	6.0	12/4/2018	<0.00129	<0.00129	<0.00129	<0.00129	<0.00129	<0.00129	ND
On-Site - Water Line Trench Backfill Material										
WL1	WL1-3.75	3.75	12/4/2018	<0.00136	<0.00136	<0.00136	<0.00136	<0.00136	<0.00136	ND
WL2	WL2-3.75	3.75	12/4/2018	<0.00135	<0.00135	<0.00135	<0.00135	<0.00135	<0.00135	ND

Abbreviations:

Less than symbol ("<") denotes compound not detected at or above indicated laboratory reporting limit

cis-1,2-DCE - cis-1,2-dichloroethylene

EKI - EKI Environment & Water, Inc.

mg/kg - milligrams per kilogram

ND - not detected

PCE - tetrachloroethylene or perchloroethylene

PES - PES Environmental, Inc.

TCE - trichloroethylene

trans-1,2-DCE - trans-1,2-dichloroethylene

Notes:

(a) Soil samples were analyzed for VOCs using EPA Method 8260B.

TABLE 23: MAXIMUM CONCENTRATIONS OF PCE, TCE, CIS-1,2 DCE DETECTED IN ON-SITE SOIL VAPOR (EMBEDDED IN STAFF REPORT TEXT, LAHONTAN WATER BOARD, 2022)

TABLE 24: MAXIMUM CONCENTRATIONS OF PCE, TCE, CIS-1,2 DCE DETECTED IN ON-SITE GROUNDWATER (EMBEDDED IN STAFF REPORT TEXT, LAHONTAN WATER BOARD, 2022)

TABLE 25: SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS, THIRD QUARTER 2021 MONITORING REPORT (PES, 2021)

PES. 15 December 2021. Third Quarter 2021 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

Table 2
Summary of Groundwater-Level Measurements
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well Identification	Screened Zone (ft NAVD88)	Measurement Date	Top of Casing Elevation (1) (ft NAVD88)	Depth to Groundwater (ft btoc)	Groundwater Level Elevation (ft NAVD88)
LW-MW-1S	6248.12 to 6263.04	13-Aug-08	6271.94	13.69	6258.25
		4-Dec-09		15.09	6256.85
		23-Mar-10		13.99	6257.95
		15-Jun-10		11.16	6260.78
		8-Sep-10		12.73	6259.21
		16-Dec-10		12.49	6259.45
		11-May-11		5.08	6266.86
		29-Sep-11		10.71	6261.23
		9-Dec-11		10.16	6261.78
		29-Mar-12		9.03	6262.91
		8-Jun-12		10.75	6261.19
		21-Aug-12		12.19	6259.75
		19-Nov-12		13.66	6258.28
		11-Mar-13		10.18	6261.76
		30-Jul-13		11.27	6260.67
		30-Sep-13		12.31	6259.63
		10-Dec-13		13.91	6258.03
		6-Mar-14		14.14	6257.80
		26-Jun-14		12.30	6259.64
		17-Sep-14		14.36	6257.58
		16-Dec-14		13.58	6258.36
		26-Mar-15		13.84	6258.10
		12-Jun-15		13.05	6258.89
		11-Sep-15		15.00	6256.94
		18-Dec-15		15.77	6256.17
		25-Mar-16		11.92	6260.02
		21-Jun-16		10.66	6261.28
		28-Sep-16		13.18	6258.76
		20-Dec-16		12.23	6259.71
		2-May-17		3.08	6268.86
		27-Sep-17		7.98	6263.96
		21-Dec-17		10.28	6261.66
		4-Apr-18		5.40	6266.54
		25-Jun-18		6.55	6265.39
		26-Sep-18		8.94	6263.00
		25-Nov-18		9.83	6262.11
		6-Dec-18		9.71	6262.23
		28-Mar-19		4.41	6267.53
		3-Jun-19		4.45	6267.49
		24-Sep-19		8.55	6263.39
		20-Dec-19		9.11	6262.83
		26-Mar-20		9.31	6262.63
		29-Jun-20		9.07	6262.87
		12-Aug-20		9.93	6262.01
		24-Sep-20		10.43	6261.51
		19-Nov-20		11.33	6260.61
		23-Mar-21		10.82	6261.12
		18-Jun-21		11.10	6260.84
		24-Sep-21		**12.38**	**6259.56**

Table 2
Summary of Groundwater-Level Measurements
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well Identification	Screened Zone (ft NAVD88)	Measurement Date	Top of Casing Elevation (1) (ft NAVD88)	Depth to Groundwater (ft btoc)	Groundwater Level Elevation (ft NAVD88)
LW-MW-1D	6222.02 to 6231.81	2-May-17	6271.81	10.31	6261.50
		27-Sep-17		14.94	6256.87
		21-Dec-17		14.17	6257.64
		4-Apr-18		15.06	6256.75
		25-Jun-18		16.72	6255.09
		26-Sep-18		19.19	6252.62
		25-Nov-18		18.96	6252.85
		6-Dec-18		18.70	6253.11
		28-Mar-19		15.15	6256.66
		3-Jun-19		14.80	6257.01
		4-Jun-19		15.80	6256.01
		24-Sep-19		18.52	6253.29
		20-Dec-19		17.70	6254.11
		26-Mar-20		17.22	6254.59
		29-Jun-20		18.22	6253.59
		12-Aug-20		19.23	6252.58
		24-Sep-20		19.44	6252.37
		19-Nov-20		19.20	6252.61
		23-Mar-21		18.68	6253.13
		18-Jun-21		19.75	6252.06
		24-Sep-21		**22.05**	**6249.76**
LW-MW-2S	6236.82 to 6253.02	13-Aug-08	6272.84	14.99	6257.85
		4-Dec-09		17.29	6255.55
		23-Mar-10		15.44	6257.40
		15-Jun-10		13.21	6259.63
		8-Sep-10		14.85	6257.99
		16-Dec-10		14.11	6258.73
		11-May-11		7.41	6265.43
		29-Sep-11		11.76	6261.08
		9-Dec-11		12.63	6260.21
		29-Mar-12		11.85	6260.99
		8-Jun-12		12.73	6260.11
		21-Aug-12		13.64	6259.20
		19-Nov-12		14.97	6257.87
		11-Mar-13		12.84	6260.00
		30-Jul-13		14.32	6258.52
		30-Sep-13		15.11	6257.73
		10-Dec-13		16.52	6256.32
		6-Mar-14		15.94	6256.90
		26-Jun-14		15.40	6257.44
		17-Sep-14		16.88	6255.96
		16-Dec-14		16.89	6255.95
		26-Mar-15		17.05	6255.79
		12-Jun-15		16.87	6255.97
		11-Sep-15		17.91	6254.93
		18-Dec-15		18.59	6254.25
		25-Mar-16		14.74	6258.10
		21-Jun-16		13.92	6258.92
		28-Sep-16		15.94	6256.90
		20-Dec-16		15.02	6257.82
		2-May-17		6.32	6266.52
		27-Sep-17		11.20	6261.64
		21-Dec-17		10.66	6262.18
		4-Apr-18		8.59	6264.25

Table 2
Summary of Groundwater-Level Measurements
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well Identification	Screened Zone (ft NAVD88)	Measurement Date	Top of Casing Elevation (1) (ft NAVD88)	Depth to Groundwater (ft btoc)	Groundwater Level Elevation (ft NAVD88)
LW-MW-2S	6236.82 to 6253.02	25-Jun-18	6272.84	9.63	6263.21
(cont.)		26-Sep-18		12.33	6260.51
		19-Nov-18		12.94	6259.90
		25-Nov-18		12.89	6259.95
		6-Dec-18		12.95	6259.89
		28-Mar-19		nm	nm
		3-Jun-19		8.83	6264.01
		24-Sep-19		9.68	6263.16
		19-Dec-19		12.67	6260.17
		26-Mar-20		12.82	6260.02
		29-Jun-20		12.92	6259.92
		12-Aug-20		13.45	6259.39
		24-Sep-20		13.99	6258.85
		19-Nov-20		14.61	6258.23
		23-Mar-21		14.07	6258.77
		18-Jun-21		14.60	6258.24
		24-Sep-21		**15.86**	**6256.98**
LW-MW-2D	6221.64 to 6232.8	2-May-17	6272.8	12.53	6260.27
		27-Sep-17		16.80	6256.00
		21-Dec-17		15.98	6256.82
		4-Apr-18		15.65	6257.15
		25-Jun-18		16.60	6256.20
		26-Sep-18		19.14	6253.66
		19-Nov-18		18.99	6253.81
		25-Nov-18		18.97	6253.83
		6-Dec-18		18.80	6254.00
		28-Mar-19		nm	nm
		3-Jun-19		15.06	6257.74
		24-Sep-19		17.47	6255.33
		20-Dec-19		18.62	6254.18
		26-Mar-20		18.88	6253.92
		29-Jun-20		19.13	6253.67
		12-Aug-20		20.15	6252.65
		24-Sep-20		20.70	6252.10
		19-Nov-20		20.46	6252.34
		23-Mar-21		19.88	6252.92
		18-Jun-21		20.98	6251.82
		24-Sep-21		**22.30**	**6250.50**
LW-MW-5S	6240.57 to 6255.29	13-Aug-08	6269.99	14.04	6255.95
		4-Dec-09		14.85	6255.14
		23-Mar-10		14.21	6255.78
		15-Jun-10		9.75	6260.24
		8-Sep-10		12.06	6257.93
		16-Dec-10		nm	nm
		11-May-11		4.75	6265.24
		29-Sep-11		9.21	6260.78
		9-Dec-11		8.94	6261.05
		29-Mar-12		7.94	6262.05
		8-Jun-12		8.84	6261.15
		21-Aug-12		11.84	6258.15
		19-Nov-12		15.25	6254.74
		11-Mar-13		9.25	6260.74
		30-Jul-13		10.22	6259.77
		30-Sep-13		11.36	6258.63
		10-Dec-13		14.32	6255.67

Table 2
Summary of Groundwater-Level Measurements
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well Identification	Screened Zone (ft NAVD88)	Measurement Date	Top of Casing Elevation (1) (ft NAVD88)	Depth to Groundwater (ft btoc)	Groundwater Level Elevation (ft NAVD88)
LW-MW-5S	6240.57 to 6255.29	6-Mar-14	6269.99	12.93	6257.06
(cont.)		26-Jun-14		11.27	6258.72
		17-Sep-14		12.73	6257.26
		16-Dec-14		12.89	6257.10
		26-Mar-15		12.63	6257.36
		12-Jun-15		11.78	6258.21
		11-Sep-15		13.91	6256.08
		18-Dec-15		14.31	6255.68
		25-Mar-16		10.65	6259.34
		21-Jun-16		9.54	6260.45
		28-Sep-16		12.31	6257.68
		20-Dec-16		11.05	6258.94
		2-May-17		2.12	6267.87
		27-Sep-17		6.86	6263.13
		21-Dec-17		7.50	6262.49
		4-Apr-18		4.75	6265.24
		25-Jun-18		5.63	6264.36
		26-Sep-18		8.20	6261.79
		19-Nov-18		12.89	6257.10
		25-Nov-18		9.06	6260.93
		6-Dec-18		8.97	6261.02
		28-Mar-19		nm	nm
		3-Jun-19		3.65	6266.34
		24-Sep-19		7.81	6262.18
		19-Dec-19		8.30	6261.69
		26-Mar-20		nm	nm
		29-Jun-20		8.31	6261.68
		12-Aug-20		9.18	6260.81
		24-Sep-20		9.81	6260.18
		19-Nov-20		10.70	6259.29
		23-Mar-21		10.05	6259.94
		18-Jun-21		10.50	6259.49
		24-Sep-21		**11.76**	**6258.23**
LW-MW-5D	6220.27 to 6229.76	2-May-17	6269.76	12.58	6257.18
		27-Sep-17		16.51	6253.25
		21-Dec-17		15.30	6254.46
		4-Apr-18		14.33	6255.43
		25-Jun-18		16.17	6253.59
		26-Sep-18		18.60	6251.16
		19-Nov-18		18.24	6251.52
		6-Dec-18		17.98	6251.78
		28-Mar-19		nm	nm
		3-Jun-19		14.28	6255.48
		24-Sep-19		18.02	6251.74
		19-Dec-19		17.03	6252.73
		26-Mar-20		nm	nm
		29-Jun-20		18.54	6251.22
		12-Aug-20		19.68	6250.08
		24-Sep-20		20.20	6249.56
		19-Nov-20		19.47	6250.29
		23-Mar-21		19.00	6250.76
		18-Jun-21		20.27	6249.49
		24-Sep-21		**21.65**	**6248.11**
LW-MW-9S	6249.7 to 6264.06	4-Dec-09	6273.46	16.01	6257.45
		23-Mar-10		14.82	6258.64

Table 2
Summary of Groundwater-Level Measurements
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well Identification	Screened Zone (ft NAVD88)	Measurement Date	Top of Casing Elevation (1) (ft NAVD88)	Depth to Groundwater (ft btoc)	Groundwater Level Elevation (ft NAVD88)
LW-MW-9S (cont.)	6249.7 to 6264.06	15-Jun-10	6273.46	12.29	6261.17
		8-Sep-10		13.91	6259.55
		16-Dec-10		14.75	6258.71
		11-May-11		6.37	6267.09
		29-Sep-11		12.51	6260.95
		9-Dec-11		11.57	6261.89
		29-Mar-12		10.68	6262.78
		8-Jun-12		12.76	6260.70
		21-Aug-12		13.92	6259.54
		19-Nov-12		15.26	6258.20
		11-Mar-13		11.66	6261.80
		30-Jul-13		12.69	6260.77
		30-Sep-13		13.75	6259.71
		10-Dec-13		17.23	6256.23
		6-Mar-14		16.80	6256.66
		26-Jun-14		13.73	6259.73
		17-Sep-14		12.40	6261.06
		16-Dec-14		15.46	6258.00
		26-Mar-15		13.22	6260.24
		12-Jun-15		7.29	6266.17
		11-Sep-15		16.57	6256.89
		18-Dec-15		nm	nm
		25-Mar-16		13.42	6260.04
		21-Jun-16		12.18	6261.28
		28-Sep-16		15.91	6257.55
		20-Dec-16		11.01	6262.45
		2-May-17		4.55	6268.91
		27-Sep-17		9.47	6263.99
		21-Dec-17		7.63	6265.83
		4-Apr-18		7.07	6266.39
		25-Jun-18		4.56	6268.90
		26-Sep-18		10.59	6262.87
		19-Nov-18		11.87	6261.59
		25-Nov-18		11.54	6261.92
		6-Dec-18		11.46	6262.00
		28-Mar-19		5.58	6267.88
		3-Jun-19		6.10	6267.36
		24-Sep-19		10.21	6263.25
		20-Dec-19		10.81	6262.65
		26-Mar-20		11.31	6262.15
		29-Jun-20		10.76	6262.70
		12-Aug-20		11.64	6261.82
		24-Sep-20		11.30	6262.16
		19-Nov-20		13.20	6260.26
		23-Mar-21		12.71	6260.75
		18-Jun-21		13.02	6260.44
		24-Sep-21		**14.30**	**6259.16**
LW-MW-10S	na	4-Dec-09	na	14.30	na
		23-Mar-10		13.27	na
		15-Jun-10		10.55	na
		8-Sep-10		12.13	na
		16-Dec-10		11.07	na
		11-May-11		4.41	na
		29-Sep-11		9.20	na
		9-Dec-11		9.80	na
		29-Mar-12		9.02	na

Table 2
Summary of Groundwater-Level Measurements
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well Identification	Screened Zone (ft NAVD88)	Measurement Date	Top of Casing Elevation (1) (ft NAVD88)	Depth to Groundwater (ft btoc)	Groundwater Level Elevation (ft NAVD88)
LW-MW-10S (cont.)	na	8-Jun-12	na	9.43	na
		21-Aug-12		10.45	na
		19-Nov-12		na	na
LW-MW-10SR	6248.06 to 6262.68	30-Jul-13	6272.33	11.73	6260.60
		30-Sep-13		11.95	6260.38
		10-Dec-13		13.40	6258.93
		6-Mar-14		13.21	6259.12
		26-Jun-14		11.99	6260.34
		17-Sep-14		13.61	6258.72
		16-Dec-14		14.78	6257.55
		26-Mar-15		13.75	6258.58
		12-Jun-15		12.99	6259.34
		11-Sep-15		14.82	6257.51
		18-Dec-15		16.58	6255.75
		25-Mar-16		11.95	6260.38
		21-Jun-16		10.39	6261.94
		28-Sep-16		12.83	6259.50
		20-Dec-16		12.05	6260.28
		2-May-17		2.60	6269.73
		27-Sep-17		7.69	6264.64
		21-Dec-17		8.62	6263.71
		4-Apr-18		5.33	6267.00
		25-Jun-18		6.12	6266.21
		26-Sep-18		8.88	6263.45
		19-Nov-18		9.81	6262.52
		25-Nov-18		9.81	6262.52
		6-Dec-18		9.76	6262.57
		28-Mar-19		4.16	6268.17
		3-Jun-19		4.28	6268.05
		24-Sep-19		8.48	6263.85
		19-Dec-19		9.12	6263.21
		26-Mar-20		9.51	6262.82
		29-Jun-20		8.93	6263.40
		12-Aug-20		9.81	6262.52
		24-Sep-20		10.49	6261.84
		19-Nov-20		11.38	6260.95
		23-Mar-21		11.04	6261.29
		18-Jun-21		11.30	6261.03
		24-Sep-21		**12.56**	**6259.77**
LW-MW-11S	6248.28 to 6262.78	4-Dec-09	6272.08	14.91	6257.17
		23-Mar-10		14.72	6257.36
		15-Jun-10		11.38	6260.70
		8-Sep-10		12.87	6259.21
		16-Dec-10		14.95	6257.13
		11-May-11		5.40	6266.68
		29-Sep-11		10.25	6261.83
		9-Dec-11		10.61	6261.47
		29-Mar-12		9.79	6262.29
		8-Jun-12		10.52	6261.56
		21-Aug-12		11.06	6261.02
		19-Nov-12		13.03	6259.05
		11-Mar-13		11.84	6260.24
		30-Jul-13		11.74	6260.34
		30-Sep-13		12.85	6259.23
		10-Dec-13		14.59	6257.49

Table 2
Summary of Groundwater-Level Measurements
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well Identification	Screened Zone (ft NAVD88)	Measurement Date	Top of Casing Elevation [1] (ft NAVD88)	Depth to Groundwater (ft btoc)	Groundwater Level Elevation (ft NAVD88)
LW-MW-11S	6248.28 to 6262.78	6-Mar-14	6272.08	14.01	6258.07
(cont.)		26-Jun-14		12.80	6259.28
		17-Sep-14		14.31	6257.77
		16-Dec-14		14.62	6257.46
		26-Mar-15		nm	nm
		12-Jun-15		13.97	6258.11
		11-Sep-15		15.69	6256.39
		18-Dec-15		16.59	6255.49
		25-Mar-16		12.44	6259.64
		21-Jun-16		11.36	6260.72
		28-Sep-16		14.92	6257.16
		20-Dec-16		11.40	6260.68
		2-May-17		3.51	6268.57
		27-Sep-17		9.42	6262.66
		21-Dec-17		6.42	6265.66
		4-Apr-18		6.47	6265.61
		25-Jun-18		7.29	6264.79
		26-Sep-18		9.83	6262.25
		19-Nov-18		10.88	6261.20
		25-Nov-18		10.89	6261.19
		6-Dec-18		10.88	6261.20
		28-Mar-19		5.59	6266.49
		3-Jun-19		5.30	6266.78
		24-Sep-19		9.51	6262.57
		19-Dec-19		10.15	6261.93
		26-Mar-20		10.74	6261.34
		29-Jun-20		10.08	6262.00
		12-Aug-20		10.92	6261.16
		24-Sep-20		11.64	6260.44
		19-Nov-20		12.65	6259.43
		23-Mar-21		12.06	6260.02
		18-Jun-21		12.43	6259.65
		24-Sep-21		**13.70**	**6258.38**
LW-MW-12S	6247.81 to 6261.91	4-Dec-09	6271.11	15.00	6256.11
		23-Mar-10		13.36	6257.75
		15-Jun-10		9.99	6261.12
		8-Sep-10		11.57	6259.54
		16-Dec-10		nm	nm
		11-May-11		4.07	6267.04
		29-Sep-11		10.75	6260.36
		9-Dec-11		9.15	6261.96
		29-Mar-12		nm	nm
		8-Jun-12		9.51	6261.60
		21-Aug-12		9.37	6261.74
		19-Nov-12		11.31	6259.80
		11-Mar-13		nm	nm
		30-Jul-13		10.31	6260.80
		30-Sep-13		11.32	6259.79
		10-Dec-13		nm	nm
		6-Mar-14		12.57	6258.54
		26-Jun-14		11.32	6259.79
		17-Sep-14		13.05	6258.06
		16-Dec-14		12.96	6258.15
		26-Mar-15		13.00	6258.11
		12-Jun-15		12.50	6258.61
		11-Sep-15		14.04	6257.07

Table 2
Summary of Groundwater-Level Measurements
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well Identification	Screened Zone (ft NAVD88)	Measurement Date	Top of Casing Elevation (1) (ft NAVD88)	Depth to Groundwater (ft btoc)	Groundwater Level Elevation (ft NAVD88)
LW-MW-12S	6247.81 to 6261.91	18-Dec-15	6271.11	nm	nm
(cont.)		25-Mar-16		11.08	6260.03
		21-Jun-16		9.72	6261.39
		28-Sep-16		12.24	6258.87
		20-Dec-16		nm	nm
		2-May-17		2.20	6268.91
		27-Sep-17		7.09	6264.02
		21-Dec-17		nm	nm
		4-Apr-18		nm	nm
		25-Jun-18		5.46	6265.65
		26-Sep-18		8.15	6262.96
		19-Nov-18		8.98	6262.13
		25-Nov-18		8.99	6262.12
		6-Dec-18		nm	nm
		28-Mar-19		nm	nm
		3-Jun-19		3.65	6267.46
		9-Sep-19		7.85	6263.26
		20-Dec-19		nm	nm
		26-Mar-20		nm	nm
		29-Jun-20		8.26	6262.85
		12-Aug-20		9.11	6262.00
		24-Sep-20		9.71	6261.40
		19-Nov-20		10.68	6260.43
		23-Mar-21		nm	nm
		18-Jun-21		10.51	6260.60
		24-Sep-21		**11.76**	**6259.35**
LW-MW-13S	6246.63 to 6261.33	4-Dec-09	6271.28	14.39	6256.89
		23-Mar-10		13.20	6258.08
		15-Jun-10		11.02	6260.26
		8-Sep-10		12.42	6258.86
		16-Dec-10		14.09	6257.19
		11-May-11		5.07	6266.21
		29-Sep-11		10.61	6260.67
		9-Dec-11		10.19	6261.09
		29-Mar-12		9.37	6261.91
		8-Jun-12		8.85	6262.43
		21-Aug-12		10.22	6261.06
		19-Nov-12		11.98	6259.30
		11-Mar-13		nm	nm
		30-Jul-13		11.36	6259.92
		30-Sep-13		12.78	6258.50
		10-Dec-13		nm	nm
		6-Mar-14		12.90	6258.38
		26-Jun-14		12.46	6258.82
		17-Sep-14		13.42	6257.86
		16-Dec-14		14.29	6256.99
		26-Mar-15		14.32	6256.96
		12-Jun-15		14.17	6257.11
		11-Sep-15		15.25	6256.03
		18-Dec-15		nm	nm
		25-Mar-16		11.98	6259.30
		21-Jun-16		10.59	6260.69
		28-Sep-16		14.40	6256.88
		20-Dec-16		12.41	6258.87
		2-May-17		3.07	6268.21
		27-Sep-17		7.93	6263.35

Table 2
Summary of Groundwater-Level Measurements
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well Identification	Screened Zone (ft NAVD88)	Measurement Date	Top of Casing Elevation [1] (ft NAVD88)	Depth to Groundwater (ft btoc)	Groundwater Level Elevation (ft NAVD88)
LW-MW-13S	6246.63 to 6261.33	21-Dec-17	6271.28	8.56	6262.72
(cont.)		4-Apr-18		6.10	6265.18
		25-Jun-18		6.81	6264.47
		26-Sep-18		9.46	6261.82
		19-Nov-18		10.51	6260.77
		25-Nov-18		10.54	6260.74
		6-Dec-18		10.53	6260.75
		28-Mar-19		5.10	6266.18
		3-Jun-19		4.89	6266.39
		24-Sep-19		9.17	6262.11
		19-Dec-19		9.79	6261.49
		26-Mar-20		nm	nm
		29-Jun-20		9.77	6261.51
		12-Aug-20		10.55	6260.73
		24-Sep-20		11.27	6260.01
		19-Nov-20		12.24	6259.04
		23-Mar-21		11.71	6259.57
		18-Jun-21		12.07	6259.21
		24-Sep-21		**13.31**	**6257.97**
OS-1	6244.01 to 6258.63	24-Mar-10	6268.58	13.25	6255.33
		15-Jun-10		11.17	6257.41
		8-Sep-10		12.68	6255.90
		16-Dec-10		12.13	6256.45
		11-May-11		5.91	6262.67
		29-Sep-11		9.25	6259.33
		9-Dec-11		10.47	6258.11
		29-Mar-12		9.93	6258.65
		8-Jun-12		9.52	6259.06
		21-Aug-12		11.06	6257.52
		19-Nov-12		11.41	6257.17
		11-Mar-13		nm	nm
		30-Jul-13		10.69	6257.89
		30-Sep-13		13.10	6255.48
		10-Dec-13		14.02	6254.56
		6-Mar-14		13.41	6255.17
		26-Jun-14		12.71	6255.87
		17-Sep-14		13.86	6254.72
		16-Dec-14		14.47	6254.11
		26-Mar-15		12.85	6255.73
		12-Jun-15		14.14	6254.44
		11-Sep-15		15.30	6253.28
		18-Dec-15		16.10	6252.48
		25-Mar-16		11.73	6256.85
		21-Jun-16		10.82	6257.76
		28-Sep-16		13.32	6255.26
		20-Dec-16		12.63	6255.95
		2-May-17		4.09	6264.49
		27-Sep-17		8.42	6260.16
		21-Dec-17		8.93	6259.65
		4-Apr-18		7.29	6261.29
		25-Jun-18		7.57	6261.01
		26-Sep-18		10.00	6258.58
		19-Nov-18		10.96	6257.62
		25-Nov-18		10.94	6257.64
		6-Dec-18		10.80	6257.78
		28-Mar-19		6.30	6262.28

Table 2
Summary of Groundwater-Level Measurements
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well Identification	Screened Zone (ft NAVD88)	Measurement Date	Top of Casing Elevation (1) (ft NAVD88)	Depth to Groundwater (ft btoc)	Groundwater Level Elevation (ft NAVD88)
OS-1	6244.01 to 6258.63	3-Jun-19	6268.58	5.82	6262.76
(cont.)		24-Sep-19		9.65	6258.93
		20-Dec-19		10.09	6258.49
		26-Mar-20		10.71	6257.87
		29-Jun-20		10.18	6258.40
		12-Aug-20		11.08	6257.50
		24-Sep-20		11.62	6256.96
		19-Nov-20		12.55	6256.03
		23-Mar-21		11.64	6256.94
		18-Jun-21		12.18	6256.40
		24-Sep-21		**13.48**	**6255.10**
OS-2S	6244.56 to 6259.07	7-Nov-18	6267.57	9.75	6257.82
		19-Nov-18		8.87	6258.70
		25-Nov-18		8.70	6258.87
		28-Mar-19		3.77	6263.80
		3-Jun-19		4.00	6263.57
		24-Sep-19		7.67	6259.90
		20-Dec-19		8.48	6259.09
		26-Mar-20		8.22	6259.35
		29-Jun-20		8.25	6259.32
		12-Aug-20		8.84	6258.73
		24-Sep-20		9.55	6258.02
		19-Nov-20		10.55	6257.02
		23-Mar-21		9.13	6258.44
		18-Jun-21		9.88	6257.69
		24-Sep-21		**11.23**	**6256.34**
OS-2M	6219.99 to 6225.62	7-Nov-18	6267.62	12.55	6255.07
		19-Nov-18		12.40	6255.22
		25-Nov-18		12.42	6255.20
		28-Mar-19		8.18	6259.44
		3-Jun-19		8.80	6258.82
		24-Sep-19		11.61	6256.01
		20-Dec-19		11.51	6256.11
		26-Mar-20		12.20	6255.42
		29-Jun-20		12.31	6255.31
		12-Aug-20		13.13	6254.49
		24-Sep-20		13.75	6253.87
		19-Nov-20		11.00	6256.62
		23-Mar-21		13.41	6254.21
		18-Jun-21		14.20	6253.42
		24-Sep-21		**15.51**	**6252.11**
OS-3S	6247.13 to 6261.62	7-Nov-18	6270.12	10.13	6259.99
		19-Nov-18		9.74	6260.38
		25-Nov-18		8.85	6261.27
		28-Mar-19		5.53	6264.59
		3-Jun-19		6.64	6263.48
		24-Sep-19		9.11	6261.01
		19-Dec-19		8.90	6261.22
		26-Mar-20		9.47	6260.65
		29-Jun-20		9.06	6261.06
		12-Aug-20		9.84	6260.28
		24-Sep-20		10.74	6259.38
		19-Nov-20		11.15	6258.97

Table 2
Summary of Groundwater-Level Measurements
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well Identification	Screened Zone (ft NAVD88)	Measurement Date	Top of Casing Elevation [1] (ft NAVD88)	Depth to Groundwater (ft btoc)	Groundwater Level Elevation (ft NAVD88)
OS-3S	6247.13 to 6261.62	23-Mar-21	6270.12	9.80	6260.32
(cont.)		18-Jun-21		10.91	6259.21
		24-Sep-21		**12.54**	**6257.58**
OS-3M	6222.77 to 6232.52	7-Nov-18	6270.52	13.61	6256.91
		19-Nov-18		22.56	6247.96
		25-Nov-18		22.59	6247.93
		28-Mar-19		19.31	6251.21
		3-Jun-19		19.03	6251.49
		24-Sep-19		22.32	6248.20
		20-Dec-19		21.45	6249.07
		26-Mar-20		21.77	6248.75
		29-Jun-20		22.83	6247.69
		12-Aug-20		23.83	6246.69
		24-Sep-20		24.28	6246.24
		19-Nov-20		23.69	6246.83
		23-Mar-21		21.90	6248.62
		18-Jun-21		24.10	6246.42
		24-Sep-21		**25.53**	**6244.99**
OS-4S	6238.77 to 6253.47	7-Nov-18	6262.47	9.61	6252.86
		19-Nov-18		7.29	6255.18
		25-Nov-18		6.89	6255.58
		28-Mar-19		2.23	6260.24
		3-Jun-19		3.06	6259.41
		24-Sep-19		6.35	6256.12
		20-Dec-19		5.66	6256.81
		26-Mar-20		6.31	6256.16
		29-Jun-20		6.66	6255.81
		12-Aug-20		7.65	6254.82
		24-Sep-20		8.36	6254.11
		19-Nov-20		8.45	6254.02
		23-Mar-21		7.26	6255.21
		18-Jun-21		8.18	6254.29
		24-Sep-21		**9.65**	**6252.82**
OS-4M	6219.67 to 6229.37	7-Nov-18	6262.37	14.70	6247.67
		19-Nov-18		14.23	6248.14
		25-Nov-18		14.21	6248.16
		28-Mar-19		10.84	6251.53
		3-Jun-19		10.75	6251.62
		24-Sep-19		14.30	6248.07
		20-Dec-19		13.20	6249.17
		26-Mar-20		13.41	6248.96
		29-Jun-20		15.04	6247.33
		12-Aug-20		15.81	6246.56
		24-Sep-20		16.39	6245.98
		19-Nov-20		15.49	6246.88
		23-Mar-21		14.73	6247.64
		18-Jun-21		16.20	6246.17
		24-Sep-21		**17.61**	**6244.76**

Table 2
Summary of Groundwater-Level Measurements
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Well Identification	Screened Zone (ft NAVD88)	Measurement Date	Top of Casing Elevation (1) (ft NAVD88)	Depth to Groundwater (ft btoc)	Groundwater Level Elevation (ft NAVD88)

Notes:
ft NAVD88 = Feet North America Vertical Datum of 1988.
ft btoc = Feet below top of casing.
-- = Data not available
nm = not measured
dry = Groundwater level not available due to dry well.
(1) = Well network was re-surveyed in December 2018 to the following control monuments: National Geodetic Survey Designations - GOLF (PID: DD6451) and HPGN D CA 03 FS (PID: AE9848).
Data prior to fourth quarter 2018 was compiled and reported by E2C Remediation, Inc.
Data prior to December 2018 has been been updated to reflect the corrected survey elevations in NAVD88

TABLE 26: SUMMARY OF SVE/GASS REMEDIATION SYSTEM OPERATIONAL DATA, THIRD QUARTER 2021 MONITORING REPORT (PES, 2021)

PES. 15 December 2021. Third Quarter 2021 Monitoring Report, Former Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

Table 6
Summary of SVE/GASS Remediation System Operational Data
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Date Monitored	Operational Status on Arrival	Cumulative Calendar Days	Hour Meter Reading	Cumulative Operating Hours	Inlet Flow (scfm)	Vacuum System (in-Hg)	Vacuum Wellfield (in-Hg)	Influent Oxygen Content (%)	Field Vapor Total VOCs Influent (ppmV)	Field Vapor Total VOCs Effluent (ppmV)	Lab Vapor Influent PCE (ppmV)	Lab Vapor Influent TCE** (ppmV)	Lab Vapor Influent cis-1,2-DCE (ppmV)	Lab Vapor Influent Other VOCs (ppmV)	VOCs Extracted PCE (lbs/hr)	VOCs Extracted TCE** (lbs/hr)	VOCs Extracted cis-1,2-DCE (lbs/hr)	VOCs Extracted Total (lbs/hr)	Cumulative VOCs Extracted (lbs)
4/8/10	off	0	202.0	0	500	3.75	2.75	20.6	140	0	0.681	0.031	0.041	ND	0.009	0.00032	0.00031	0.010	0.000
4/9/10	off	1	205.0	3.0	500	4.15	2.75	20.6	130	0	1.950	0.045	0.048	ND	0.026	0.00047	0.00037	0.026	0.054
4/16/10	off	8	369.4	167.4	500	3.50	3.50	20.2	110	0									3.419
4/29/10	off	21	678.9	476.9	500	3.70	3.70	20.1	80	0									7.917
5/6/10	on	28	841.0	639.0	500	4.50	4.50	20.9	25	0									10.27
5/12/10	on	34	978.7	776.7	500	3.50	3.50	20.9	90	0									12.27
6/1/10	off	54	1,462	1,260	500	3.70	3.70	20.9	90	0									19.30
6/15/10	on	68	1,834	1,632	500	3.30	3.30	20.8	65	0									24.71
6/24/10	on	77	2,006	1,804	500	3.45	3.45	20.9	45	0	0.204	ND	ND	ND	0.003	0.00	0.00	0.003	26.19
7/2/10	on	85	2,199	1,997	500	3.30	3.30	20.8	170	0									30.90
7/15/10	off	98	2514.0	2,312	500	2.50	2.50	20.8	130	0	6.61	0.281	ND	ND	0.087	0.00292	0.00	0.000	38.16
7/22/10	off	105	2680.0	2,478	500	3.00	3.00	20.7	120	0									43.00
7/28/10	off	111	2681.0	2,479	500	3.26	3.26	20.7	160	0									43.06
8/5/10	on	119	2850.0	2,648	500	3.15	3.15	nm	120	0									52.91
8/5/10	on	119	2853.0	2,651	500	3.14	3.14	nm	210	0									53.09
8/11/10	on	125	3020.0	2,818	500	3.15	3.15	20.9	170	0	2.04	0.031	ND	ND	0.027	0.00032	0.00	0.027	60.2
8/18/10	on	132	3187.0	2,985	500	3.46	3.46	20.9	170	0	9.14	0.096	0.047	ND	0.120	0.00100	0.00036	0.121	72.6
8/25/10	on	139	3355.0	3,153	500	2.46	2.46	nm	180	0	11.4	1.83	4.32	ND	0.149	0.01901	0.03311	0.202	99.7
9/3/10	on	148	3568.3	3,366	500	2.80	2.80	20.7	195	10									143.5
9/8/10	on	153	3694.4	3,492	500	2.80	2.80	20.7	85	0									169.9
9/15/10	on	160	3863.0	3,661	500	5.16	5.16	20.1	60	0									205.2
9/15/10	on	160	3866.0	3,664	500	5.16	5.16	20.1	120	0	16.4	0.154	0.046	0.266	0.215	0.00160	0.00035	0.217	205.8
9/23/10	off	168	4051.5	3,850	500	4.15	4.15	20.9	190	0									246.0
9/28/10	on	173	4169.9	3,968	500	3.99	4.00	20.1	130	0									271.7
10/6/10	off	181	4362.4	4,160	500	4.98	4.98	20.1	75	0	11.8	0.104	0.033	0.112	0.155	0.00108	0.00025	0.156	307.5
10/13/10	on	188	4532.7	4,331	500	5.71	5.71	20.8	135	0									329.0
10/22/10	on	197	4746.8	4,545	500	5.00	5.00	20.9	190	0									349.5
10/28/10	off	203	4889.2	4,687	500	4.95	4.95	20.1	180	0									363.1
11/4/10	on	210	5056.4	4,854	500	4.83	4.83	nm	110	0									379.1
11/11/10	on	217	5255.8	5,054	500	5.22	5.22	20.1	230	0	2.7	ND	ND	ND	0.035	0.00	0.00	0.035	392.2
11/23/10	off	229	5684.7	5,483	0	nm	nm	nm	0	0									399.8
12/1/10	off	237	5684.7	5,483	500	2.60	2.60	nm	200	0									399.8
12/7/10	on	243	5826.3	5,624	500	3.24	3.24	20.1	190	0									404.3
12/16/10	on	252	6043.2	5,841	500	nm	nm	nm	180	0	2.18	0.39	ND	ND	0.029	0.00405	0.00	0.033	411.3
1/4/11	off	271	6463.5	6,262	500	2.89	nm	20.1	80	0									436.7
1/14/11	off	281	6707.8	6,506	500	2.00	nm	20.9	55	0									447.5
1/21/11	on	288	6873.9	6,672	500	2.00	2.00	20.8	60	0	11.30	0.228	0.028	0.241	0.148	0.00237	0.00021	0.151	460.0
1/27/11	on	294	7018.5	6,817	500	2.50	nm	20.9	45	0									476.7
2/2/11	on	300	7158.7	6,957	500	3.03	3.03	20.9	45	0									488.0
2/11/11	on	309	7375.1	7,173	500	2.80	2.80	20.9	25	0									505.4
2/21/11	off	319	7616.5	7,415	500	2.80	2.80	20.4	30	0									524.8
3/4/11	off	330	7879.0	7,677	500	3.00	3.00	20.8	75	0									546.0
3/11/11	on	337	8048.6	7,847	500	4.45	4.45	20.9	220	0									559.6
3/26/11	off	352	8456.8	8,255	500	5.00	5.00	19.8	200	0									592.5
4/6/11	off	363	8674.5	8,473	500	5.90	nm	nm	0	0									610.0

Table 6
Summary of SVE/GASS Remediation System Operational Data
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Date Monitored	Operational Status on Arrival	Cumulative Calendar Days	Hour Meter Reading	Cumulative Operating Hours	Inlet Flow (scfm)	Vacuum (in-Hg) System	Vacuum (in-Hg) Wellfield	Influent Oxygen Content (%)	Field Vapor Total VOCs Influent (ppmV)	Field Vapor Total VOCs Effluent (ppmV)	Lab Vapor Influent (ppmV) PCE	TCE**	cis-1,2-DCE	Other VOCs	VOCs Extracted (lbs/hr) PCE	TCE**	cis-1,2-DCE	Total	Cumulative VOCs Extracted (lbs)
4/12/11	off	369	8675.5	8,474	500	1.95	1.95	20.8	60	0									610.0
5/11/11	off	398	9322.6	9,121	500	nm	nm	nm	nm	nm									662.1
5/18/11	on	405	9488.9	9,287	500	1.75	1.75	20.8	60	0	0.795	ND	ND	0.049	0.010	0.00	0.00	0.010	669.7
5/24/11	on	411	9632.8	9,431	500	4.10	4.10	nm	20	0									672.8
6/1/11	on	419	9823.0	9,621	500	3.50	3.50	20.8	10	0									679.1
6/9/11	on	427	10012.3	9,810	500	4.00	4.00	20.8	20	0									685.3
6/14/11	on	432	10134.7	9,933	500	5.30	5.30	nm	5	0	4.23	ND	ND	1.181	0.055	0.00	0.00	0.055	690.7
6/21/11	on	439	10303.2	10,101	500	5.50	5.50	nm	2.8	0									697.9
6/27/11	on	445	10446.1	10,244	500	4.80	4.80	nm	0	0									702.2
7/5/11	no	453	10637.1	10,435	500	5.50	5.50	nm	5.0	0									707.9
7/12/11	no	460	10803.4	10,601	0	0.00	0.00		0	0									710.4
7/13/11	no	461	10803.9	10,602	500	3.00	3.00	20.1	260	10									710.4
7/18/11	no	466	10949.5	10,748	500	3.00	3.00	20.8	160	10	0.332	ND	ND	0.419	0.0044	0.00	0.00	0.004	712.9
7/27/11	yes	475	11164.6	10,963	500	3.00	3.00	20.9	205	5									716.3
8/11/11	yes	490	11526.4	11,324	500	4.75	4.75	20.6	120	0									726.4
8/18/11	no	497	11692.8	11,491	500	4.60	4.60	nm	3										731.1
8/26/11	yes	505	11883.2	11,681	500	2.30	2.30	20.6	103	0									736.4
8/31/11	no	510	12005.0	11,803	500	3.80	3.80	nm	11	4	0.028	ND	ND	0.013	0.00037	0.00	0.00	0.0004	738.1
9/7/11	no	517	12170.7	11,969	500	3.75	3.75	nm	5	1									739.7
9/15/11	no	525	12362.0	12,160	500	3.70	3.70	nm	4	0.5									743.5
9/22/11	yes	532	12531.8	12,330	500	4.50	4.50	nm	3	6									746.8
9/29/11	yes	539	12703.5	12,502	500	4.60	4.60	nm	285	0									750.1
10/5/11	no	545	12838.8	12,637	0	0.00	0.00	0.0	67	0									751.5
10/6/11	no	546	12839.3	12,637	500	nm	nm	nm	160	0									751.5
10/13/11	yes	553	13010.1	12,808	500	3.00	3.00	nm	18.6	0	2.95	0.19	ND	0.0197	0.039	0.00194	0.00	0.041	756.6
10/18/11	yes	558	13130.1	12,928	500	5.00	5.00	20.9	45	0									760.8
10/26/11	yes	566	13324.3	13,122	500	3.00	3.00	20.6	60	0									766.6
11/30/11	no	601	13324.3	13,122	500	4.00	4.00	20.3	50	0									766.6
12/9/11	no	610	13535.1	13,333	500	3.50	3.50	20.8	140	0	1.61	0.024	ND	29.60	0.021	0.00025	0.00	0.021	772.3
12/15/11	yes	616	13681.1	13,479	500	3.50	3.50	20.8	160	0									775.2
12/21/11	yes	622	13825.5	13,624	500	3.00	3.00	20.8	85	0									777.6
1/4/12	yes	636	14165.5	13,964	500	2.15	nm	20.9	75	5.5	0.997	ND	ND	ND	0.013	0.00	0.00	0.013	782.5
1/12/12	yes	644	14353.0	14,151	500	3.15	3.15	20.9	60	0									785.1
1/17/12	no	649	14471.7	14,270	500	3.60	3.60	20.8	85	0									786.4
1/25/12	no	657	14667.2	14,465	500	4.10	4.10	20.9	90	0									787.5
2/3/12	no	666	14881.7	14,680	500	4.23	4.23	20.8	70	0									788.9
2/9/12	no	672	15024.4	14,822	500	4.00	4.00	nm	50	0	1.24	0.012	ND	ND	0.016	0.00	0.00	0.016	790.8
2/17/12	no	680	15215.9	15,014	0	0.00	0.00	0.0	0	0									792.4
3/8/12	no	700	15215.9	15,014	0	0.00	0.00	0.0	0	0									792.4
3/29/12	no	721	15215.9	15,014	500	0.00	0.00	0.0	0	0									792.4
4/18/12	no	741	15216.0	15,014	500	3.50	3.50	nm	4	0									792.4
4/26/12	no	749	15407.3	15,205	0	0.00	0.00	0.0	0	0									793.9

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Date Monitored	Operational Status on Arrival	Cumulative Calendar Days	Hour Meter Reading	Cumulative Operating Hours	Inlet Flow (scfm)	Vacuum (in-Hg) System	Vacuum (in-Hg) Wellfield	Influent Oxygen Content (%)	Field Vapor Total VOCs Influent (ppmV)	Field Vapor Total VOCs Effluent (ppmV)	Lab Vapor Influent (ppmV) PCE	Lab Vapor Influent (ppmV) TCE**	Lab Vapor Influent (ppmV) cis-1,2-DCE	Lab Vapor Influent (ppmV) Other VOCs	VOCs Extracted (lbs/hr) PCE	VOCs Extracted (lbs/hr) TCE**	VOCs Extracted (lbs/hr) cis-1,2-DCE	VOCs Extracted (lbs/hr) Total	Cumulative VOCs Extracted (lbs)
5/1/12	yes	754	15525.6	15,324	500	3.50	2.50	nm	10	0									794.9
5/8/12	yes	761	15693.3	15,491	500	3.50	2.50	nm	10	0									797.6
5/14/12	yes	767	15839.8	15,638	500	3.45	2.50	nm	18	0	1.24	ND	ND	0.056	0.016	0.00	0.00	0.016	800.0
5/23/12	yes	776	16053.1	15,851	500	3.95	3.00	nm	20-23	0									804.4
5/30/12	yes	783	16220.0	16,018	500	3.00	3.00	nm	15.3	0									808.7
6/8/12	no	792	16438.7	16,237	500	3.95	3.00	nm	14.3	0									814.3
6/14/12	yes	798	16582.0	16,380	500	0.00	0.00	0.0	0	0									818.0
6/21/12	no	805	16584.2	16,382	500	3.50	2.75	nm	30	0									818.0
6/27/12	yes	811	16723.0	16,521	500	4.0	3.25	20.9	35	0	2.66	ND	ND	0.03	0.035	0.00	0.00	0.035	822.2
7/20/12	no	834	17275.9	17,074	500	4.5	4.00	20.8	35	0									839.0
7/26/12	no	840	17424.0	17,222	500	4.0	3.25	nm	22	0	1.31	0.013	ND	ND	0.017	0.00	0.00	0.017	842.2
8/1/12	yes	846	17564.2	17,362	500	4.0	3.40	nm	18.3	0									844.2
8/8/12	yes	853	17736.3	17,534	500	3.3	2.60	nm	20.6	0									846.2
8/16/12	no	861	17925.7	17,724	500	4.0	3.25	nm	21	0									848.4
8/21/12	yes	866	18043.6	17,842	500	3.7	3.00	nm	18.2	0	0.441	ND	ND	ND	0.006	0.00	0.00	0.006	849.4
8/28/12	yes	873	18212.9	18,011	500	4.5	5.20	20.8	40.0	0									850.1
9/7/12	no	883	18452.3	18,250	0	0.0	0.00	0.0	0.0	0									850.5
9/13/12	no	889	18452.3	18,250	500	5.5	4.15	nm	28.6	0	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	850.5
9/18/12	yes	894	18714.5	18,513	500	4.5	3.75	nm	14.1	0									850.6
9/28/12	yes	904	18949.8	18,748	500	4.1	3.40	nm	13.6	0									850.8
10/3/12	yes	909	19072.9	18,871	500	4.75	3.95	nm	18.6	0									851.0
10/12/12	no	918	19074.2	18,872	500	2.80	3.15	nm	13.1	0									851.0
10/17/12	yes	923	19191.5	18,990	500	2.32	1.86	20.3	20	0									851.1
10/23/12	yes	929	19335.9	19,134	500	3.75	2.50	20.8	65	0									851.2
10/31/12	yes	937	19527.3	19,325	500	2.45	2.00	nm	25	0	0.145	0.00	0.00	0.233	0.002	0.00	0.00	0.002	851.5
11/6/12	yes	943	19673.6	19,472	500	2.75	2.30	20.8	40	0									851.7
11/19/12	yes	956	19985.0	19,783	500	2.80	2.35	nm	14.4	0									852.0
11/30/12	no	967	20248.3	20,046	500	4.90	4.33	nm	5.0	0	0.000	0.00	0.00	0.00	0.000	0.00	0.00	0.000	852.1
11/5/13	off	967	36969.0	20,046	500	3.71	2.98	nm	149.5	1.6									852.1
11/15/13	on	977	37209.0	20,286	500	2.75	2.25	nm	13.6	0.3									852.7
11/22/13	on	984	170.7	20,457	500	2.80	2.25	nm	6.3	1.1	0.39	0.00	0.00	1.7	0.005	0.00	0.00	0.005	853.4
11/26/13	on	988	266.3	20,553	500	2.80	2.25	nm	6.1	0.4									853.9
12/4/13	on	996	459.9	20,746	500	2.95	2.50	nm	5.8	0									855.0
12/10/13	on	1,002	599.9	20,886	500	2.80	2.25	nm	4.6	0.1	0.49	0.00	0.00	0.09	0.006	0.00	0.00	0.006	855.9
12/19/13	on	1,011	812.3	21,099	500	2.95	2.50	nm	5.1	0									857.1
12/27/13	off	1,019	1006.4	21,293	500	2.96	2.50	nm	5.3	0									858.0
1/3/14	on	1,026	1173.1	21,459	500	2.90	2.30	nm	4.3	0									858.9
1/7/14	on	1,030	1267.9	21,554	500	2.90	2.30	nm	3.9	0	0.27	0.00	0.00	0.00	0.004	0.00	0.00	0.004	859.3
1/14/14	on	1,037	1434.8	21,721	500	2.90	2.30	nm	5.4	0									859.7
1/20/14	on	1,043	1577.8	21,864	500	3.20	2.60	nm	0.7	0									860.0
1/28/14	off	1,051	1767.7	22,054	500	2.90	2.30	nm	3.6	0									860.3
1/31/14	off	1,054	1834.9	22,121	500	1.49	1.88	nm	4.6	0									860.4

PES Environmental, Inc., an NV5 Company

Table 6
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2/4/14	on	1,058	1924.8	22,211	500	2.21	1.76	nm	2.4	0									860.6
2/14/14	on	1,068	2164.8	22,451	500	3.41	3.71	nm	5.0	0									861.01
2/18/14	off	1,072	2166.9	22,453	500	1.07	1.54	20.9	5.0	0									861.02
2/26/14	on	1,080	2354.3	22,641	500	nm	nm	nm	0.0	0									861.35
2/28/14	off	1,082	2354.3	22,641	500	2.75	2.30	nm	0.0	0	0.00	0.00	0.00	0.025	0.000	0.00	0.00	0.000	861.35
3/6/14	on	1,088	2495.7	22,782	500	2.60	2.00	nm	2.4	0									861.35
3/20/14	off	1,102	2496.1	22,782	500	1.25	0.70	nm	0.0	0	0.00	0.00	0.00	0.048	0.000	0.00	0.00	0.000	861.35
3/24/14	off	1,106	2590.5	22,877	500	1.20	0.65	nm	1.2	0									861.36
4/4/14	off	1,117	2850.6	23,137	0	0.00	0.00	nm	0.0	0									861.37
4/4/14	on at depart	1,117	2852.2	23,139	500	1.40	0.78	nm	1.3	0									861.37
4/10/14	on	1,123	2996.5	23,283	500	1.44	0.80	nm	0.8	0	0.022	0.00	0.00	0.011	0.000	0.00	0.00	0.000	861.41
4/25/14	off	1,138	2997.6	23,284	500	1.50	0.85	nm	1.1	0									861.41
5/1/14	off	1,144	3137.9	23,424	500	1.32	0.75	20.4	5.0	0									861.92
5/6/14	off	1,149	3258.1	23,544	0	0.00	0.00	nm	0.0	0									862.15
5/6/14	on at depart	1,149	3259.3	23,546	500	1.25	0.70	nm	3.6	0									862.15
5/9/14	on	1,152	3330.4	23,617	500	2.30	1.75	nm	4.8	0.019	0.540	0.00	0.00	0.00	0.007	0.00	0.00	0.007	862.53
5/9/14	off at depart	1,152	3331.5	23,618	0	0.00	0.00	nm	0.0	0									862.53
5/22/14	off	1,165	3331.5	23,618	0	0.00	0.00	nm	0.0	0									862.53
5/22/14	on at depart	1,165	3333.1	23,619	500	2.15	1.50	nm	1.3	0									862.54
5/30/14	off	1,173	3524.7	23,811	0	0.00	0.00	nm	0.0	0									863.51
5/30/14	on at depart	1,173	3526.1	23,812	500	2.20	1.53	nm	0.6	0									863.52
6/6/14	off	1,180	3689.6	23,976	0	0.00	0.00	nm	0.0	0									864.34
6/6/14	on at depart	1,180	3691.1	23,977	500	2.25	1.55	nm	3.1	0									864.35
6/13/14	on	1,187	3857.7	24,144	500	2.10	1.50	nm	1.8	0									866.03
6/13/14	off at depart	1,187	3859.6	24,146	0	0.00	0.00	nm	0.0	0									866.04
6/26/14	off	1,200	3859.6	24,146	0	0.00	0.00	nm	0.0	0									866.04
6/26/14	on	1,200	3861.1	24,147	500	2.55	2.02	nm	1.9	0.019	1.0	0.013	0.00	0.014	0.013	0.00	0.00	0.013	866.05
6/26/14	off at depart	1,200	3861.1	24,147	0	0.00	0.00	nm	0.0	0									866.05
8/4/14	off	1,239	3861.1	24,147	0	0.00	0.00	0.0	0.0	0									866.05
8/4/14	on at depart	1,239	3863.1	24,149	500	2.48	1.88	17.7	0.0	0	3.5	0.095	0.028	0.017	0.046	0.013	0.00	0.059	866.11
8/13/14	off	1,248	4069.9	24,356	0	0.00	0.00	0.0	0.0	0									872.20
8/13/14	on at depart	1,248	4071.2	24,358	500	2.04	1.53	20.2	0.0	0	0.94	0.011	0.000	0.000	0.012	0.013	0.00	0.025	872.21
8/20/14	on	1,255	4240.5	24,527	500	1.71	1.29	nm	0.0	n/a									874.97
8/25/14	on	1,260	4361.7	24,648	500	1.55	1.18	nm	0.0	n/a									875.85
9/3/14	off	1,269	4578.3	24,865	0	0.00	0.00	n/a	0.0	n/a									876.64
9/3/14	on at depart	1,269	4578.3	24,865	500	1.35	0.96	nm	1.8	n/a									876.64
9/8/14	on	1,274	4698.1	24,984	500	1.40	1.03	nm	0.0	n/a									877.51
9/17/14	on	1,283	4912.9	25,199	500	1.31	0.88	20.9	0.0	n/a									879.08
9/22/14	on	1,288	5033.8	25,320	500	1.28	0.89	20.9	0.0	n/a									879.96
10/10/14	on	1,306	5464.9	25,751	500	1.45	1.15	nm	1.1	n/a									883.09
10/17/14	on	1,313	5636.0	25,922	500	1.45	1.15	nm	0.0	n/a									884.34
10/24/14	on	1,320	5796.8	26,083	500	1.45	1.15	nm	1.7	n/a	0.170	0.000	0.000	0.000	0.002	0.000	0.00	0.002	885.10
11/3/14	on	1,330	6040.0	26,326	500	1.45	1.15	nm	1.1	n/a									885.60
11/7/14	off	1,334	6041.0	26,327	500	2.83	2.10	nm	1.3	n/a									885.60
11/14/14	on	1,341	6205.2	26,492	500	2.17	1.60	nm	1.0	n/a									885.90
11/14/14	on	1,341	6266.8	26,553	500	2.71	1.94	nm	1.0	n/a									886.01

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11/20/14	on	1,347	6347.2	26,634	500	2.31	1.75	nm	1.6	n/a									886.16
11/20/14	on	1,347	6347.9	26,634	500	2.34	1.77	nm	2.1	n/a									886.16
11/26/14	on	1,353	6485.9	26,772	500	2.35	1.73	nm	2.3	n/a									886.41
11/26/14	on	1,353	6487.3	26,774	500	2.32	1.70	nm	2.1	n/a	0.11	0.000	0.000	0.000	0.001	0.000	0.00	0.001	886.42
12/3/14	off	1,360	6657.3	26,944	0	0.00	0.00	nm	0.0	n/a									886.54
12/3/14	on	1,360	6658.4	26,945	500	2.50	1.75	nm	1.7	n/a	0.32	0.000	0.000	0.000	0.004	0.000	0.00	0.004	886.54
12/9/14	on	1,366	6797.1	27,083	500	2.20	1.75	nm	1.0	n/a									887.03
12/9/14	on	1,366	6802.4	27,089	500	2.20	1.75	nm	1.1	n/a									887.05
12/16/14	off	1,373	6960.0	27,246	0	0.00	0.00	nm	0.0	n/a									887.27
12/16/14	on	1,373	6960.0	27,246	500	2.35	1.77	nm	2.3	n/a									887.27
12/29/14	on	1,386	7266.1	27,552	500	2.54	1.84	nm	2.2	n/a									888.16
12/29/14	on	1,386	7267.6	27,554	500	2.54	1.84	nm	2.3	n/a									888.16
1/8/15	on	1,396	7505.9	27,792	500	2.52	2.02	nm	2.2	n/a									888.85
1/16/15	on	1,404	7694.8	27,981	500	2.02	1.50	nm	1.1	n/a									889.39
1/22/15	on	1,410	7838.9	28,125	500	2.02	1.54	nm	1.1	n/a	0.12	0.00	0.00	0.000	0.002	0.000	0.00	0.002	889.71
1/30/15	on	1,418	8029.3	28,316	500	2.10	1.55	nm	2.1	n/a									889.99
2/3/15	on	1,422	8126.1	28,412	500	2.13	1.62	nm	1.9	n/a									890.11
2/9/15	on	1,428	8270.4	28,557	500	2.72	2.21	nm	2.1	n/a									890.30
2/17/15	on	1,436	8460.1	28,746	500	2.30	1.96	nm	2.0	n/a									890.55
2/24/15	on	1,443	8630.1	28,916	500	2.37	1.88	nm	1.1	n/a									890.77
3/2/15	on	1,449	8774.8	29,061	500	2.35	1.86	nm	2.0	n/a									890.96
3/10/15	on	1,457	8966.3	29,253	500	2.25	1.75	nm	1.0	n/a									891.21
3/17/15	on	1,464	9132.0	29,418	500	2.07	1.75	nm	1.1	n/a	0.079	0.00	0.00	0.000	0.001	0.000	0.00	0.001	891.40
3/27/15	on	1,474	9370.9	29,657	500	2.13	1.69	nm	1.8	n/a									891.72
3/31/15	on	1,478	9467.7	29,754	500	2.21	1.64	nm	1.7	n/a									891.88
4/8/15	on	1,486	9655.5	29,942	500	2.21	1.69	nm	2.7	n/a									892.18
4/8/15	on	1,486	9657.2	29,944	500	2.21	1.69	nm	2.5	n/a									892.18
4/17/15	on	1,495	9874.1	30,160	500	2.17	1.64	nm	3.0	n/a	0.087	0.00	0.00	0.028	0.0011	0.000	0.00	0.001	892.48
4/17/15	on	1,495	9875.7	30,162	500	2.17	1.64	nm	2.8	n/a	0.087	0.00	0.00	0.028	0.0011	0.000	0.00	0.001	892.48
4/23/15	on	1,501	10016.8	30,303	500	2.00	1.53	nm	1.0	n/a									892.68
4/23/15	on	1,501	10018.3	30,305	500	2.00	1.53	nm	1.0	n/a									892.69
4/29/15	on	1,507	10156.8	30,443	500	2.25	1.70	nm	1.0	n/a									892.93
4/29/15	on	1,507	10157.9	30,444	500	2.25	1.70	nm	1.1	n/a									892.93
5/4/15	on	1,512	10281.1	30,567	500	2.07	1.60	nm	1.0	n/a									893.14
5/4/15	on	1,512	10281.1	30,567	500	2.09	1.63	nm	1.0	n/a									893.14
5/11/15	on	1,519	10442.8	30,729	500	2.14	1.66	nm	1.0	n/a									893.43
5/11/15	on	1,519	10444.4	30,731	500	2.12	1.65	nm	1.0	n/a									893.43
5/19/15	on	1,527	10634.7	30,921	500	2.21	1.77	nm	1.9	n/a									893.76
5/19/15	on	1,527	10636.0	30,922	500	2.21	1.77	nm	1.6	n/a									893.76
5/27/15	on	1,535	10822.7	31,109	500	2.10	1.60	nm	1.7	n/a	0.092	0.00	0.00	0.00	0.001	0.000	0.00	0.001	894.04
5/27/15	on	1,535	10824.3	31,111	500	2.13	1.63	nm	1.4	n/a	0.092	0.00	0.00	0.00	0.001	0.000	0.00	0.001	894.04
6/4/15	on	1,543	11014.0	31,300	500	2.07	1.59	nm	1.3	n/a									894.28
6/4/15	on	1,543	11015.8	31,302	500	2.08	1.59	nm	1.1	n/a									894.28
6/9/15	on	1,548	11130.1	31,416	500	2.04	1.57	nm	0.7	n/a									894.44
6/9/15	on	1,548	11131.3	31,418	500	2.06	1.58	nm	0.5	n/a									894.44
6/15/15	on	1,554	11271.2	31,558	500	2.13	1.67	nm	0.4	n/a									894.62

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6/15/15	on	1,554	11272.8	31,559	500	2.16	1.68	nm	0.5	n/a									894.63
6/22/15	on	1,561	11439.2	31,726	500	2.07	1.60	nm	0.4	n/a	0.02	0.00	0.00	0.00	0.0003	0.000	0.00	0.000	894.76
6/22/15	on	1,561	11440.9	31,727	500	2.10	1.64	nm	0.3	n/a	0.02	0.00	0.00	0.00	0.0003	0.000	0.00	0.000	894.76
6/29/15	on	1,568	11598.6	31,885	500	0.00	1.58	nm	0.0	n/a									894.80
6/29/15	on	1,568	11600.2	31,887	500	0.00	2.07	nm	0.9	n/a									894.80
7/6/15	on	1,575	11765.0	32,051	500	2.00	1.50	nm	0.7	n/a									894.85
7/6/15	on	1,575	11767.7	32,054	500	2.04	1.53	nm	0.5	n/a									894.85
7/13/15	off	1,582	11931.0	32,217	0	0.00	0.00	nm	0.0	n/a									894.87
7/13/15	on	1,582	11931.0	32,217	500	1.97	1.50	nm	0.5	n/a									894.87
7/21/15	off	1,590	12110.7	32,397	0	0.00	0.00	nm	0.0	n/a									894.89
10/12/15	off	1,673	12112.8	32,399	237	1.55	1.38	nm	140.0	n/a	2.40	0.089	0.098	1.252	0.0149	0.0004	0.0004	0.016	894.91
10/23/15	on	1,684	12372.0	32,658	235	1.75	1.51	nm	4.3	n/a									898.97
11/4/15	on	1,696	12656.6	32,943	233	2.00	1.80	nm	3.9	n/a									903.38
11/12/15	on	1,704	12852.9	33,139	232	2.10	1.95	nm	4.1	n/a									906.41
11/20/15	on	1,712	13047.2	33,334	233	2.05	1.90	nm	5.0	n/a									909.41
11/23/15	on	1,715	13118.0	33,404	233	2.00	1.80	nm	3.1	n/a	0.20	0.000	0.00	0.00	0.0012	0.0000	0.0000	0.001	910.00
11/30/15	off	1,722	13286.0	33,572	234	1.97	2.19	nm	3.4	n/a									910.21
12/8/15	off	1,730	13475.8	33,762	231	2.25	2.05	nm	1.9	n/a									910.44
12/18/15	off	1,740	13706.3	33,993	228	2.63	2.38	nm	1.6	n/a									910.71
12/23/15	off	1,745	13825.7	34,112	222	3.41	3.32	nm	1.4	n/a	0.00	0.000	0.00	0.00	0.0000	0.0000	0.0000	0.000	910.79
12/30/15	on	1,752	13989.4	34,276	224	3.15	3.00	nm	1.3	n/a									910.79
1/4/16	off	1,757	13993.4	34,280	227	2.70	2.52	nm	1.1	n/a									910.79
1/11/16	on	1,764	14157.1	34,443	229	2.55	2.47	nm	1.1	n/a									910.79
1/12/16	off	1,765	14158.8	34,445	226	2.84	2.72	nm	1.4	n/a									910.79
1/21/16	off	1,774	14364.4	34,651	228	2.69	2.47	nm	1.3	n/a									910.79
1/26/16	off	1,779	14484.1	34,770	220	3.59	3.35	nm	1.5	n/a	2.2	0.013	0.00	0.00	0.0127	0.0001	0.0000	0.013	911.55
2/1/16	off	1,785	14626.5	34,913	213	4.40	4.30	nm	1.4	n/a									913.34
2/11/16	on	1,795	14866.9	35,153	210	4.75	4.63	nm	1.3	n/a									916.29
2/15/16	on	1,799	14962.7	35,249	217	4.00	3.84	nm	0.9	n/a									917.47
2/22/16	on	1,806	15131.8	35,418	213	4.45	4.21	nm	1.0	n/a	0.24	0.000	0.00	0.00	0.0013	0.0000	0.0000	0.001	918.65
3/1/16	on	1,814	15322.3	35,609	217	4.00	3.80	nm	0.3	n/a									918.90
3/10/16	off	1,823	15534.6	35,821	219	3.75	3.50	nm	0.5	n/a									919.19
3/14/16	off	1,827	15626.3	35,913	208	5.00	4.80	nm	3.4	n/a									919.32
3/25/16	off	1,838	15890.5	36,177	209	4.90	4.80	nm	1.9	n/a									919.66
3/30/16	off	1,843	16009.2	36,296	210	4.76	4.61	nm	1.2	n/a	1.1	0.015	0.00	0.00	0.0061	0.0001	0.0000	0.006	920.10
4/8/16	off	1,852	16218.4	36,505	225	3.00	2.80	nm	1.9	n/a									921.43
4/13/16	on	1,857	16339.9	36,626	222	3.35	3.17	nm	1.2	n/a									922.22
4/19/16	on	1,863	16480.8	36,767	224	3.15	3.05	nm	1.2	n/a									923.14
4/26/16	off	1,870	16646.8	36,933	220	3.54	3.37	nm	1.7	n/a	0.35	0.00	0.00	0.00	0.0020	0.0000	0.0000	0.002	923.85
5/2/16	off	1,876	16792.1	37,078	234	1.92	2.07	nm	3.1	n/a									924.15
5/9/16	on	1,883	16959.9	37,246	232	2.10	1.91	nm	2.1	n/a									924.51
5/20/16	on	1,894	17220.7	37,507	242	0.90	0.69	nm	0.5	n/a									925.08
5/25/16	on	1,899	17341.8	37,628	242	0.91	0.70	nm	0.8	n/a	0.18	0.00	0.00	0.00	0.0011	0.0000	0.0000	0.001	925.28
6/3/16	on	1,908	17555.9	37,842	242	0.90	0.71	nm	0.3	n/a									925.53
6/8/16	on	1,913	17677.1	37,963	242	0.93	0.73	nm	0.5	n/a									925.67
6/17/16	on	1,922	17891.9	38,178	243	0.86	0.63	nm	0.3	n/a									925.91

Table 6
Summary of SVE/GASS Remediation System Operational Data
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Date Monitored	Operational Status on Arrival	Cumulative Calendar Days	Hour Meter Reading	Cumulative Operating Hours	Inlet Flow (scfm)	Vacuum (in-Hg) System	Vacuum (in-Hg) Wellfield	Influent Oxygen Content (%)	Field Vapor Total VOCs Influent (ppmV)	Field Vapor Total VOCs Effluent (ppmV)	Lab Vapor Influent (ppmV) PCE	Lab Vapor Influent (ppmV) TCE**	Lab Vapor Influent (ppmV) cis-1,2-DCE	Lab Vapor Influent (ppmV) Other VOCs	VOCs Extracted (lbs/hr) PCE	VOCs Extracted (lbs/hr) TCE**	VOCs Extracted (lbs/hr) cis-1,2-DCE	VOCs Extracted (lbs/hr) Total	Cumulative VOCs Extracted (lbs)
6/21/16	off	1,926	17971.8	38,258.1	243	0.82	0.61	nm	0.3	n/a	0.57	0.00	0.00	0.00	0.0036	0.0000	0.0000	0.004	926.10
6/30/16	on	1,935	2049.0	38,474	243	0.82	0.61	nm	0.2	n/a									926.89
7/8/16	on	1,943	2240.7	38,666	243	0.81	0.59	nm	0.2	n/a									927.58
7/15/16	on	1,950	2409.5	38,835	244	0.77	0.59	nm	0.3	n/a									928.20
7/21/16	on	1,956	2553.8	38,979	244	0.73	0.52	nm	0.3	n/a									928.72
7/27/16	on	1,962	2697.7	39,123	244	0.75	0.50	nm	0.9	n/a	0.35	0.00	0.00	0.04	0.0022	0.0000	0.0000	0.002	929.15
8/1/16	on	1,967	2818.5	39,244	244	0.71	0.50	nm	0.3	n/a									929.42
8/12/16	on	1,978	3081.1	39,506	244	0.71	0.50	nm	0.2	n/a									930.00
8/25/16	on	1,991	3391.0	39,816	246	0.44	0.44	nm	0.5	n/a									930.70
8/19/16	on	1,985	3246.3	39,671	246	0.44	0.44	nm	0.8	n/a									930.37
9/15/16	on	2,012	3900.7	40,326	244	0.73	0.51	nm	0.5	n/a	0.51	0.00	0.00	0.00	0.0033	0.0000	0.0000	0.003	932.18
9/28/16	on	2,025	4207.8	40,633	246	0.44	0.44	nm	0.6	n/a									933.19
10/10/16	on	2,037	4495.9	40,921	246	0.44	0.44	nm	1.5	n/a									933.71
10/19/16	on	2,046	4710.6	41,136	245	0.64	0.60	nm	---	n/a									934.10
10/27/16	on	2,054	4901.6	41,327	246	0.44	0.44	nm	5.0	n/a									934.72
10/31/16	on	2,058	4996.0	41,421	244	0.73	0.73	nm	0.0	n/a	0.075	0.00	0.00	0.00	0.0005	0.0000	0.0000	0.000	934.90
11/9/16	on	2,067	5215.5	41,641	244	0.73	0.73	nm	0.0	n/a									935.01
11/18/16	on	2,076	5430.9	41,856	244	0.73	0.73	20.9	0.0	n/a									935.11
11/21/16	on	2,079	5502.5	41,928	243	0.81	0.81	nm	0.3	n/a									935.14
12/1/16	on	2,089	5742.4	42,168	243	0.85	0.85	nm	0.2	n/a	0.053	0.00	0.00	0.00	0.0003	0.0000	0.0000	0.000	935.24
12/16/16	on	2,104	6102.1	42,527	243	0.80	0.80	nm	0.2	n/a									935.36
12/20/16	on	2,108	6199.0	42,624	240	1.16	1.16	nm	0.1	n/a									935.40
1/6/17	on	2,125	6607.4	43,033	238	1.40	1.40	nm	0.0	n/a	0.072	0.00	0.00	0.00	0.0004	0.0000	0.0000	0.000	935.56
1/13/17	on	2,132	6773.4	43,199	234	1.90	1.90	nm	0.1	n/a									935.63
1/17/17	on	2,136	6870.3	43,295	235	1.75	1.75	nm	0.1	n/a									935.67
1/27/17	on	2,146	7108.0	43,533	236	1.65	1.65	nm	0.1	n/a									935.78
1/31/17	on	2,150	7206.8	43,632	237	1.50	1.50	nm	0.1	n/a									935.82
2/9/17	on	2,159	7422.4	43,848	247	0.31	0.31	nm	0.3	n/a									935.92
2/14/17	on	2,164	7542.6	43,968	247	0.30	0.30	nm	0.1	n/a									935.98
2/27/17	on	2,177	7853.1	44,278	248	0.29	0.23	nm	0.1	n/a									936.12
3/7/17	on	2,185	8044.7	44,470	248	0.26	0.26	nm	0.2	n/a									936.21
3/15/17	on	2,193	8235.6	44,661	248	0.29	0.29	nm	0.2	n/a	0.076	0.00	0.00	0.00	0.0005	0.0000	0.0000	0.000	936.30
3/20/17	on	2,198	8356.4	44,782	246	0.44	0.44	nm	0.1	n/a									936.36
3/29/17	Off	2,207	8572.8	44,998	0	---	---	nm	---	n/a									936.42
3/30/17	Off	2,208	8573.7	44,999	225	3.00	3.00	nm	0.1	n/a									936.42
4/3/17	on	2,212	8667.8	45,093	225	3.00	3.00	nm	0.1	n/a									936.46
4/14/17	on	2,223	8932.1	45,357	225	3.00	3.00	nm	0.1	n/a									936.58
4/19/17	on	2,228	9056.8	45,482	229	2.50	2.50	nm	0.0	n/a									936.63
4/25/17	on	2,234	9199.1	45,624	230	2.40	2.40	nm	0.2	n/a	0.000	0.00	0.00	0.00	0.0000	0.0000	0.0000	0.000	936.67
5/4/17	on	2,243	9363.8	45,789	225	3.00	3.00	nm	0.2	n/a									936.67
5/10/17	on	2,249	9508.3	45,933	225	3.00	3.00	nm	0.1	n/a									936.67
5/17/17	on	2,256	9676.4	46,102	224	3.10	3.10	nm	0.1	n/a									936.67
5/25/17	on	2,264	9867.3	46,292	225	3.00	3.00	nm	0.1	n/a	0.000	0.00	0.00	0.00	0.0000	0.0000	0.0000	0.000	936.67
5/30/17	on	2,269	9986.2	46,411	225	3.00	3.00	nm	0.0	n/a									936.67
6/12/17	on	2,282	10298.4	46,724	225	3.00	3.00	nm	0.0	n/a									936.67
6/22/17	on	2,292	10540.9	46,966	225	3.00	3.00	nm	0.0	n/a									936.67

Table 6
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Date Monitored	Operational Status on Arrival	Cumulative Calendar Days	Hour Meter Reading	Cumulative Operating Hours	Inlet Flow (scfm)	Vacuum (in-Hg) System	Vacuum (in-Hg) Wellfield	Influent Oxygen Content (%)	Field Vapor Total VOCs Influent (ppmV)	Field Vapor Total VOCs Effluent (ppmV)	Lab Vapor Influent (ppmV) PCE	Lab Vapor Influent (ppmV) TCE**	Lab Vapor Influent (ppmV) cis-1,2-DCE	Lab Vapor Influent (ppmV) Other VOCs	VOCs Extracted (lbs/hr) PCE	VOCs Extracted (lbs/hr) TCE**	VOCs Extracted (lbs/hr) cis-1,2-DCE	VOCs Extracted (lbs/hr) Total	Cumulative VOCs Extracted (lbs)
7/7/17	on	2,307	10897.1	47,322	225	3.00	3.00	nm	0.1	n/a									936.67
7/12/17	on	2,312	11014.9	47,440	225	3.00	3.00	nm	0.0	n/a									936.67
7/19/17	on	2,319	11183.0	47,608	225	3.00	3.00	nm	0.0	n/a									936.67
7/28/17	on	2,328	11400.7	47,826	225	3.00	3.00	nm	0.0	n/a	0.016	0.00	0.00	0.00	0.0001	0.0000	0.0000	0.000	936.68
8/2/17	on	2,333	11522.8	47,948	225	3.00	3.00	nm	0.0	n/a									936.69
8/11/17	on	2,342	11735.9	48,161	226	2.90	2.90	nm	0.0	n/a									936.71
8/18/17	on	2,349	11906.3	48,331	225	3.00	3.00	nm	0.0	n/a									936.72
8/25/17	on	2,356	12071.4	48,497	227	2.80	2.80	nm	0.0	n/a									936.74
8/29/17	Off	2,360	12172.6	48,598	227	Power Off	nm	nm	nm	n/a									936.75
10/24/17	Off	2,416	12174.8	48,600	217	4.00	4.00	nm	0.7	n/a									936.75
10/27/17	On	2,419	12244.8	48,670	217	4.00	4.00	nm	0.8	n/a	0.023	0.00	0.00	0.00	0.0001	0.0000	0.0000	0.000	936.76
11/3/17	On	2,426	12413.7	48,839	217	4.00	4.00	nm	0.8	n/a									936.78
11/6/17	On	2,429	12483.6	48,909	217	4.00	4.00	nm	0.4	n/a									936.79
11/17/17	On	2,440	12742.7	49,168	225	3.00	3.00	nm	0.6	n/a									936.82
11/22/17	On	2,445	12867.2	49,292	225	3.00	3.00	nm	0.7	n/a	0.530	0.00	0.00	0.00	0.0031	0.0000	0.0000	0.003	937.03
11/29/17	On	2,452	13040.4	49,466	225	3.00	3.00	nm	0.0	n/a									937.57
12/8/17	On	2,461	13251.0	49,676	225	3.00	3.00	nm	---	n/a									938.23
12/21/17	On	2,474	13565.3	49,990	225	3.00	3.00	nm	---	n/a	0.021	0.00	0.00	0.00	0.0001	0.0000	0.0000	0.000	938.74
1/2/18	On	2,486	13851.0	50,276	225	3.00	3.00	nm	0.2	n/a									938.77
1/5/18	On	2,489	13921.5	50,347	225	3.00	3.00	nm	0.0	n/a									938.78
1/11/18	On	2,495	14066.5	50,492	225	3.00	3.00	nm	0.1	n/a									938.80
1/17/18	On	2,501	14211.5	50,637	225	3.00	3.00	nm	0.1	n/a									938.82
1/30/18	On	2,514	14521.5	50,947	225	3.00	3.00	nm	0.1	n/a	0.048	0.00	0.00	0.00	0.0003	0.0000	0.0000	0.000	938.88
2/2/18	On	2,517	14595.7	51,021	229	2.50	2.50	nm	0.0	n/a									938.90
2/8/18	On	2,523	14738.0	51,163	225	3.00	3.00	nm	0.0	n/a									938.94
2/13/18	On	2,528	14858.8	51,284	225	3.00	3.00	nm	0.2	n/a									938.98
2/19/18	On	2,534	15003.2	51,428	225	3.00	3.00	nm	0.0	n/a									939.02
2/28/18	On	2,543	15216.7	51,642	225	3.00	3.00	nm	0.1	n/a	0.015	0.00	0.00	0.00	0.0001	0.0000	0.0000	0.000	939.06
4/4/18	On	2,578	16055.5	52,481	225	3.00	3.00	nm	0.1	n/a									939.13
4/17/18	On	2,591	16365.6	52,791	225	3.00	3.00	nm	0.0	n/a									939.16
4/30/18	On	2,604	16680.2	53,105	225	3.00	3.00	nm	0.1	n/a	0.000	0.00	0.00	0.00	0.0000	0.0000	0.0000	0.000	939.17
5/3/18	On	2,607	16750.1	53,175	233	2.00	2.00	nm	0.0	n/a									939.17
5/7/18	OFF	2,611	16774.5	53,200	233	2.00	2.00	nm	0.1	n/a									939.17
5/14/18	On	2,618	16942.2	53,367	208	5.00	5.00	nm	0.1	n/a									939.17
5/17/18	On	2,621	17013.1	53,438	212	4.50	4.50	nm	0.1	n/a									939.17
5/18/18	On	2,622	17035.1	53,460	212	4.50	4.50	nm	0.0	n/a									939.17
5/30/18	On	2,634	17324.0	53,749	212	4.50	4.50	nm	0.0	n/a									939.17
6/6/18	On	2,641	17493.6	53,919	212	4.50	4.50	nm	0.0	n/a									939.17
6/14/18	On	2,649	17688.8	54,114	223	3.25	3.25	nm	0.0	n/a									939.17
6/19/18	On	2,654	17804.0	54,229	223	3.25	3.25	nm	0.0	n/a									939.17
6/25/18	On	2,660	17944.6	54,370	223	3.25	3.25	nm	0.0	n/a									939.17
7/3/18	On	2,668	18113.6	54,539	233	2.00	2.00	nm	1.0	n/a	0.520	0.00	0.00	0.00	0.0032	0.0000	0.0000	0.003	939.44
7/10/18	On	2,675	18302.5	54,728	229	2.50	2.50	nm	0.0	n/a									940.04
7/25/18	On	2,690	18662.9	55,088	233	2.00	2.00	nm	0.0	n/a									941.17
7/31/18	On	2,696	18807.3	55,232	234	1.90	1.90	nm	0.6	n/a	0.150	0.00	0.00	0.00	0.0009	0.0000	0.0000	0.001	941.47
8/7/18	On	2,703	18975.5	55,401	233	2.00	2.00	nm	0.6	n/a									941.62

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						System	Wellfield		Influent (ppmV)	Effluent (ppmV)	PCE	TCE**	cis-1,2-DCE	Other VOCs	PCE	TCE**	cis-1,2-DCE	Total	
8/15/18	On	2,711	19167.2	55,592	229	2.50	2.50	nm	0.2	n/a									941.80
8/24/18	On	2,720	19385.9	55,811	229	2.50	2.50	nm	0.2	n/a									941.99
8/30/18	On	2,726	19525.9	55,951	232	2.16	2.16	nm	0.1	n/a	0.180	0.0056	0.00	1.80	0.0011	0.0000	0.0000	0.001	942.14
9/7/18	On	2,734	19715.8	56,141	232	2.20	2.20	nm	0.0	n/a									942.35
9/14/18	On	2,741	19880.0	56,305	232	2.10	2.10	nm	0.1	n/a									942.53
9/18/18	On	2,745	19976.9	56,402	232	2.10	2.10	nm	0.0	n/a									942.63
9/24/18	On	2,751	20120.1	56,545.2	232	2.15	2.15	nm	0.0	n/a	0.087	0.00	0.00	0.011	0.0005	0.0000	0.0000	0.001	942.75
10/1/18	On	2,758	20286.1	56,711.2	232	2.10	2.10	nm	0.1	n/a									942.84
10/8/18	On	2,765	20453.5	56,878.6	233	2.00	2.00	nm	0.0	n/a									942.92
10/19/18	On	2,776	20715.5	57,140.6	233	2.00	2.00	nm	0.0	n/a									943.06
10/25/18	On	2,782	20858.6	57,283.7	233	2.00	2.00	nm	0.0	n/a									943.14
10/31/18	On	2,788	21003.2	57,428.3	233	2.00	2.00	nm	0.0	n/a	0.150	0.00	0.00	0.010	0.0009	0.0000	0.0000	0.001	943.25
11/8/18	On	2,796	21194.8	57,619.9	233	2.00	2.00	nm	0.0	n/a									943.42
11/12/18	On	2,800	21291.7	57,716.8	233	2.00	2.00	nm	0.0	n/a									943.51
11/19/18	On	2,807	21458.4	57,883.5	233	2.00	2.00	nm	0.0	n/a									943.66
11/26/18	On	2,814	21628.3	58,053.4	233	2.00	2.00	nm	0.0	n/a									943.82
11/30/18	On	2,818	21724.4	58,149.5	233	2.00	2.00	nm	0.0	n/a	0.055	0.00	0.00	0.011	0.0003	0.0000	0.0000	0.000	943.88
12/6/18	On	2,824	21866.2	58,291.3	229	2.50	2.50	nm	0.0	n/a									943.93
12/11/18	On	2,829	21984.8	58,409.9	229	2.50	2.50	nm	0.0	n/a									943.97
12/18/18	Off	2,836	22132.9	58,558.0	229	2.50	2.50	nm	0.0	n/a									944.01
12/20/18	On	2,838	22184.8	58,609.9	229	2.50	2.50	nm	0.0	n/a	0.013	0.00	0.00	0.00	0.0001	0.0000	0.0000	0.000	944.02
1/2/19	Off	2,851	22356.1	58,781.2	229	2.50	2.50	nm	0.0	n/a									944.04
1/3/19	On	2,852	22380.2	58,805.3	229	2.50	2.50	nm	0.0	n/a									944.04
1/8/19	On	2,857	22496.8	58,921.9	229	2.50	2.50	nm	0.0	n/a									944.05
1/18/19	On	2,867	22736.7	59,161.8	225	3.00	3.00	nm	0.0	n/a									944.07
1/21/19	On	2,870	22855.0	59,280.1	225	3.00	3.00	nm	0.0	n/a									944.08
1/29/19	On	2,878	23001.0	59,426.1	221	3.50	3.50	nm	0.0	n/a	0.063	0.000	0.000	0.000	0.0004	0.0000	0.0000	0.000	944.11
2/8/19	On	2,888	23196.1	59,621.2	229	2.50	2.50	nm	0.0	n/a									944.18
2/12/19	On	2,892	23293.9	59,719.0	229	2.50	2.50	nm	0.0	n/a									944.22
2/21/19	Off	2,901	23456.0	59,881.1	229	2.50	2.50	nm	0.0	n/a									944.28
2/25/19	Off	2,905	23484.9	59,910.0	229	2.50	2.50	nm	0.0	n/a	0.41	0.000	0.000	0.000	0.0025	0.0000	0.0000	0.002	944.32
3/1/19	Off	2,909	23497.6	59,922.7	229	2.50	2.50	nm	0.0	n/a									944.35
3/4/19	On	2,912	23571.2	59,996.3	229	2.50	2.50	nm	0.0	n/a									944.53
3/11/19	On	2,919	23645.0	60,070.1	233	2.00	2.00	nm	0.0	n/a									944.72
3/18/19	On	2,926	23810.0	60,235.1	221	3.50	3.50	nm	0.0	n/a									945.12
3/29/19	On	2,937	24058.5	60,483.6	217	4.00	4.00	nm	0.0	n/a	0.022	0.000	0.000	0.025	0.0001	0.0000	0.0000	0.000	945.43
4/1/19	Off	2,940	24060.8	60,485.9	217	4.00	4.00	nm	0.0	n/a									945.43
4/15/19	Off	2,954	24060.8	60,485.9	217	4.00	4.00	nm	0.0	n/a									945.43
5/7/19	Off	2,976	24060.8	60,485.9	217	4.00	4.00	nm	0.0	n/a									945.43
5/20/19	Off	2,989	24060.8	60,485.9	217	4.00	4.00	nm	0.0	n/a									945.43
6/7/19	Off	3,007	24060.8	60,485.9	217	4.00	4.00	nm	0.0	n/a									945.43
7/5/19	Off	3,035	24060.8	60,485.9	217	4.00	4.00	nm	0.0	n/a									945.43
7/23/19	Off	3,053	24060.8	60,485.9	217	4.00	4.00	nm	0.0	n/a									945.43
8/8/19	Off	3,069	24060.8	60,485.9	217	4.00	4.00	nm	0.0	n/a									945.43
8/23/19	Off	3,084	24060.8	60,485.9	217	4.00	4.00	nm	0.0	n/a									945.43
8/28/19	On	3,089	24181.4	60,606.5	217	4.00	4.00	nm	0.0	n/a									945.45

Table 6
Summary of SVE/GASS Remediation System Operational Data
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Date Monitored	Operational Status on Arrival	Cumulative Calendar Days	Hour Meter Reading	Cumulative Operating Hours	Inlet Flow (scfm)	Vacuum (in-Hg) System	Vacuum (in-Hg) Wellfield	Influent Oxygen Content (%)	Field Vapor Total VOCs Influent (ppmV)	Field Vapor Total VOCs Effluent (ppmV)	Lab Vapor Influent (ppmV) PCE	Lab Vapor Influent (ppmV) TCE**	Lab Vapor Influent (ppmV) cis-1,2-DCE	Lab Vapor Influent (ppmV) Other VOCs	VOCs Extracted (lbs/hr) PCE	VOCs Extracted (lbs/hr) TCE**	VOCs Extracted (lbs/hr) cis-1,2-DCE	VOCs Extracted (lbs/hr) Total	Cumulative VOCs Extracted (lbs)
9/13/19	Off	3,105	24184.0	60,609.1	217	4.00	4.00	nm	0.0	n/a	4.200	0.120	0.130	0.010	0.0238	0.0005	0.0004	0.025	945.48
9/24/19	On	3,116	24445.0	60,870.1	217	4.00	4.00	nm	0.0	n/a									948.73
10/11/19	On	3,133	25015.0	61,440.1	242	1.00	1.00	nm	0.0	n/a									948.81
10/18/19	On	3,140	24445.0	60,870.1	240	1.18	1.18	nm	0.0	n/a	0.010	0.000	0.000	0.000	0.0001	0.0000	0.0000	0.000	948.75
10/25/19	On	3,147	25183.7	61,608.8	241	1.09	1.09	nm	0.0	n/a									948.80
10/31/19	On	3,153	25325.8	61,750.9	241	1.13	1.13	nm	0.0	n/a									948.81
11/6/19	On	3,159	25469.9	61,895.0	241	1.13	1.13	nm	0.0	n/a									948.82
11/13/19	On	3,166	25639.3	62,064.4	241	1.05	1.05	nm	0.0	n/a									948.83
11/25/19	Off	3,178	25808.0	62,233.1	240	1.20	1.20	nm	0.0	n/a	0.000	0.000	0.000	0.078	0.0000	0.0000	0.0000	0.000	948.83
12/20/19	Off	3,203	25808.0	62,233.1	240	1.20	1.20	nm	0.0	n/a	0.130	0.000	0.000	0.112	0.0008	0.0000	0.0000	0.001	948.83
1/2/20	On	3,216	26114.0	62,539.1	240	1.20	1.20	nm	0.0	n/a									949.08
1/15/20	On	3,229	26427.0	62,852.1	239	1.30	1.30	nm	0.0	n/a									949.34
1/22/20	On	3,236	26595.9	63,021.0	239	1.30	1.30	nm	0.0	n/a									949.47
1/30/20	On	3,244	26798.8	63,223.9	238	1.40	1.40	nm	0.0	n/a	0.065	0.000	0.000	0.012	0.0004	0.0000	0.0000	0.000	949.60
2/4/20	On	3,249	26910.0	63,335.1	239	1.35	1.35	nm	0.0	n/a									949.64
2/14/20	On	3,259	27149.0	63,574.1	239	1.35	1.35	nm	0.0	n/a									949.74
2/19/20	On	3,264	27266.2	63,691.3	238	1.40	1.40	nm	0.0	n/a									949.79
2/27/20	On	3,272	27462.0	63,887.1	238	1.40	1.40	nm	0.0	n/a	0.085	0.000	0.000	0.000	0.0005	0.0000	0.0000	0.001	949.88
3/5/20	On	3,279	27628.2	64,053.3	239	1.30	1.30	nm	0.0	n/a									949.97
3/12/20	On	3,286	27795.8	64,220.9	239	1.35	1.35	nm	0.0	n/a									950.06
3/20/20	On	3,294	27987.7	64,412.8	233	2.00	2.00	nm	0.0	n/a									950.16
3/26/20	On	3,300	28134.0	64,559.1	224	3.12	3.12	nm	0.0	n/a	0.110	0.000	0.000	0.011	0.0006	0.0000	0.0000	0.001	950.24
3/31/20	On	3,305	28251.7	64,676.8	221	3.50	3.50	nm	0.0	n/a									950.32
4/9/20	On	3,314	28468.0	64,893.1	212	4.50	4.50	nm	0.0	n/a									950.45
4/14/20	On	3,319	28587.0	65,012.1	225	3.00	3.00	nm	0.0	n/a									950.53
4/23/20	On	3,328	28804.0	65,229.1	225	3.00	3.00	nm	0.0	n/a									950.67
4/30/20	On	3,335	28972.0	65,397.1	227	2.70	2.70	nm	0.0	n/a	0.100	0.023	0.0095	0.000	0.0006	0.0001	0.0000	0.001	950.79
5/7/20	On	3,342	29139.0	65,564.1	230	2.40	2.40	nm	0.0	n/a									950.91
5/15/20	On	3,350	29330.0	65,755.1	230	2.40	2.40	nm	0.0	n/a									951.05
5/21/20	On	3,356	29475.0	65,900.1	229	2.53	2.53	nm	0.0	n/a									951.16
6/18/20	On	3,384	30147.0	66,572.1	231	2.31	2.31	nm	0.0	n/a									951.66
7/9/20	On	3,405	30649.0	67,074.1	233	2.00	2.00	nm	0.0	n/a									952.04
7/17/20	On	3,413	30845.0	67,270.1	232	2.15	2.15	nm	0.0	n/a									952.19
7/24/20	On	3,420	31013.3	67,438.4	233	2.00	2.00	nm	0.0	n/a									952.32
7/31/20	On	3,427	31180.9	67,606.0	233	2.00	2.00	nm	0.0	n/a									952.44
8/6/20	On	3,433	31324.5	67,749.6	233	2.00	2.00	nm	0.0	n/a									952.55
8/12/20	On	3,439	31468.3	67,893.4	235	1.75	1.75	nm	0.0	n/a									952.66
8/28/20	On	3,455	31850.7	68,275.8	233	2.00	2.00	nm	0.0	n/a									952.95
8/31/20	On	3,458	31924.3	68,349.4	233	2.00	2.00	nm	0.0	n/a	0.220	0.000	0.000	0.021	0.0013	0.0000	0.0000	0.001	953.03
9/11/20	On	3,469	32186.0	68,611.1	233	2.00	2.00	nm	0.0	n/a									953.38
9/17/20	On	3,475	32325.1	68,750.2	233	2.00	2.00	nm	0.0	n/a									953.57
9/24/20	On	3,482	32497.3	68,922.4	236	1.70	1.70	nm	0.0	n/a									953.80
10/1/20	On	3,489	32660.0	69,085.1	233	2.00	2.00	nm	0.0	n/a									954.02
10/8/20	On	3,496	32830.0	69,255.1	236	1.70	1.70	nm	0.0	n/a									954.25
10/15/20	On	3,503	32996.0	69,421.1	236	1.70	1.70	nm	0.0	n/a									954.48
10/23/20	On	3,511	33186.6	69,611.7	236	1.70	1.70	nm	0.0	n/a	1.700	0.000	0.000	0.000	0.0105	0.0000	0.0000	0.0105	955.61

Table 6
Summary of SVE/GASS Remediation System Operational Data
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Date Monitored	Operational Status on Arrival	Cumulative Calendar Days	Hour Meter Reading	Cumulative Operating Hours	Inlet Flow (scfm)	Vacuum (in-Hg)		Influent Oxygen Content (%)	Field Vapor Total VOCs		Lab Vapor Influent (ppmV)				VOCs Extracted (lbs/hr)				Cumulative VOCs Extracted (lbs)
						System	Wellfield		Influent (ppmV)	Effluent (ppmV)	PCE	TCE**	cis-1,2-DCE	Other VOCs	PCE	TCE**	cis-1,2-DCE	Total	
11/17/20	On	3,536	33784.2	70,209.3	237	1.50	1.50	nm	0.0	n/a									961.91
12/2/20	On	3,551	34146.4	70,571.5	237	1.50	1.50	nm	0.0	n/a									965.74
12/15/20	On	3,564	34460.1	70,885.2	237	1.50	1.50	nm	0.0	n/a									969.06
12/23/20	On	3,572	34646.8	71,071.9	233	2.00	2.00	nm	0.0	n/a	0.061	0.000	0.000	0.000	0.0004	0.0000	0.0000	0.0004	970.09
1/5/21	On	3,585	34957.3	71,382.4	233	2.00	2.00	nm	0.0	n/a									970.20
1/13/21	On	3,593	35151.2	71,576.3	229	2.50	2.50	nm	0.0	n/a									970.27
1/22/21	On	3,602	35152.0	71,577.1	233	2.00	2.00	nm	0.0	n/a	0.21	0.000	0.000	0.120	0.0013	0.0000	0.0000	0.0013	970.27
2/5/21	On	3,616	35486.0	71,911.1	229	2.50	2.50	nm	0.0	n/a									970.70
2/11/21	On	3,622	35628.8	72,053.9	227	2.70	2.70	nm	0.0	n/a									970.88
2/16/21	On	3,627	35751.4	72,176.5	221	3.50	3.50	nm	0.0	n/a									971.03
2/23/21	On	3,634	35918.1	72,343.2	225	3.00	3.00	nm	0.0	n/a	0.240	0.000	0.000	0.000	0.0014	0.0000	0.0000	0.0014	971.25
3/1/21	On	3,640	36059.4	72,484.5	225	3.00	3.00	nm	0.0	n/a									971.45
3/9/21	On	3,648	36254.1	72,679.2	225	3.00	3.00	nm	0.0	n/a									971.73
3/17/21	On	3,656	36445.0	72,870.1	230	2.40	2.40	nm	0.0	n/a									972.00
3/25/21	On	3,664	36637.8	73,062.9	230	2.43	2.43	nm	0.0	n/a									972.28
3/31/21	On	3,670	36781.8	73,206.9	230	2.43	2.43	nm	nm	n/a	0.610	0.000	0.000	0.000	0.0037	0.0000	0.0000	0.0037	972.65
4/2/21	On	3,672	36829.1	73,254.2	233	2.00	2.00	nm	0.0	n/a									972.82
4/6/21	On	3,676	36927.3	73,352.4	233	2.00	2.00	nm	0.0	n/a									973.19
4/13/21	On	3,683	37093.2	73,518.3	234	1.97	1.97	nm	0.0	n/a									973.81
4/19/21	On	3,689	37238.1	73,663.2	233	2.00	2.00	nm	0.0	n/a									974.35
4/28/21	On	3,698	37453.0	73,878.1	228	2.60	2.60	nm	0.0	n/a	0.58	0.000	0.000	0.000	0.0035	0.0000	0.0000	0.0035	975.12
5/3/21	On	3,721	37573.8	73,998.9	233	2.00	2.00	nm	0.0	n/a									975.55
5/21/21	On	3,703	38006.1	74,431.2	233	2.00	2.00	nm	0.0	n/a									977.08
5/27/21	On	3,735	38149.7	74,574.8	233	2.00	2.00	nm	0.0	n/a	0.95	0.000	0.000	0.000	0.0058	0.0000	0.0000	0.0058	977.75
6/4/21	On	3,749	38339.2	74,764.3	235	1.74	1.74	nm	0.0	n/a									978.44
6/18/21	On	3,759	38679.0	75,104.1	237	1.60	1.60	nm	0.0	n/a									978.95
6/28/21	On	3,727	38919.1	75,344.2	235	1.77	1.77	nm	0.0	n/a	0.12	0.000	0.000	0.000	0.0007	0.0000	0.0000	0.0007	979.21
7/21/21	On	3,735	39469.9	75,895.0	235	1.77	1.77	nm	nm	n/a									979.62
7/29/21	On	3,749	39662.0	76,087.1	238	1.40	1.40	nm	0.0	n/a	0.35	0.000	0.000	0.000	0.0022	0.0000	0.0000	0.0022	979.90
8/5/21	On	3,759	39829.5	76,254.6	235	1.77	1.77	nm	nm	n/a									980.27
8/9/21	On	3,782	39923.8	76,348.9	237	1.50	1.50	nm	0.0	n/a									980.47
9/7/21	On	3,790	40624.8	77,049.9	235	1.77	1.77	nm	nm	n/a									981.99
9/24/21	On	3,797	41029.3	77,454.4	239	1.30	1.30	nm	0.0	n/a	0.22	0.000	0.000	0.000	0.0014	0.0000	0.0000	0.0014	982.71
9/29/21	On	3,801	41151.9	77,577.0	235	1.77	1.77	nm	nm	n/a									982.87
											Average Extraction Rate (lbs/Hr)				**0.011**	**0.00025**	**0.00019**	**0.012**	

Notes:
-- = Data not available / not recorded
cis-1,2-DCE = cis-1,2-Dichloroethene
in-Hg = Inches of Mercury
Lbs./Hr. = Pounds per hour
nm = Not measured
ND = Not detected at or above the method detection limit
PCE = Tetrachloroethene
ppmV = Parts per million by volume

Table 6
Summary of SVE/GASS Remediation System Operational Data
Former Lake Tahoe Laundry Works
1024 South Lake Tahoe Boulevard, South Lake Tahoe, California

Date Monitored	Operational Status on Arrival	Cumulative Calendar Days	Hour Meter Reading	Cumulative Operating Hours	Inlet Flow (scfm)	Vacuum (in-Hg)		Influent Oxygen Content (%)	Field Vapor Total VOCs		Lab Vapor Influent (ppmV)				VOCs Extracted (lbs/hr)				Cumulative VOCs Extracted (lbs)
						System	Wellfield		Influent (ppmV)	Effluent (ppmV)	PCE	TCE**	cis-1,2-DCE	Other VOCs	PCE	TCE**	cis-1,2-DCE	Total	

Notes (cont):
scfm = Standard cubic feet per minute
SVE/GASS = Soil Vapor Extraction / Groundwater Air Sparge System
TCE = Trichloroethene
VOCs = Volatile Organic Compounds (primarily tetrachloroethylene and trichloroethylene)
Volatile Organic Compounds Removal Rate (lbs/hr) = Influent (ppmV) x 10-6 x Influent Flow Rate (scfm) x 1 lb-mole/379.5 ft3 x 165.82 (lb/lb-mole) x 60 (min/hour)
Data prior to fourth quarter 2018 was compiled and reported by E2C Remediation, Inc.
** = TCE mass removed includes 1,1,1-Trichloroethane, as their atomic weights are similar
For mass removal calculations (lb/lb-mole) - PCE mass weight = 165.82, TCE = 131.39 and cis-1,2-DCE = 96.95
8/5/10 - Extensive wellfield optimization conducted
9/23/10 - System off on arrival due to power outages
11/23/10 - System off on arrival due to power outages
12/1/10 - System off on arrival due to high water
1/4/11 - System off on arrival; power outage; also repaired knockout pot
4/6/11 - System off on arrival due to high water and would not start; off on departure
4/12/11 - System restarted
5/11/11 - System off on arrival due to high water
7/12/11 - System off on arrival; high water
7/13/11 - Remove water and restart system
7/18/11 - System off on arrival due to power outage
8/31/11 - System off on arrival due to power outage
9/7/11 - System off on arrival due to power outage
9/15/11 - System off on arrival due to power outage
10/5/11 - System off on arrival due to full water tank
10/6/11 - Water tank emptied and system restarted
10/26/11 - System shut off due to carbon back pressure
11/30/11 - Carbon changeout, restart system
12/9/11 - System off on arrival due to power outage
1/17/12 - System off on arrival due to power outage
1/25/12 - System off on arrival due to power outage
2/3/12 - System off on arrival due to power outage
2/9/12 - System off on arrival due to power outage
2/17/12 - System off on arrival due to high water
3/5/12 - Snow conditions finally were conducive to remove water; also, attempted to fix an oil leak, which was a broken seal; seal was back-ordered
3/8/12 - Attempted to repair seal; however, wrong parts were delivered
3/29/12 - Attempted to replace the broken seal; however, the part failed; had to order a new one (back-ordered)
4/18/12- Fix seal on compressor; change compressor and blower oil
4/26/12- High water upon arrival (system off); system off on departure; tech to empty water and restart system
5/1/12- Added air sparge to water and opened dilution air to drop VAC and collect vapors
5/8/12- Changed AS manifold and closed off wells at east end of field near compound
5/14/12- Shut off AS-14,15,16 to focus near MW-1S
5/23/12- Reduced dilution air; raised VAC from 2.35 to 3 in-Hg
6/8/12 - System off on arrival due to high water
6/14/12- turned system off..all PVC going to carbon and inbetween carbons melted from high temp.
6/21/12- replaced plumbing for carbon; added pressure switch between blower and carbon; added vent and therm.
6/27/12- installed fan over compressor exhaust

TABLE 27: SUMMARY OF SHALLOW ZONE GROUNDWATER MONITORING ANALYTICAL DATA, SITE INVESTIGATION REPORT OF FINDINGS (E_2C, 2008)

E_2C Remediation Environmental Engineering, Consulting and Remediation, Inc. (E_2C). 22 September 2008. Site Investigation Report of Findings, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California.

TABLE 1C
SUMMARY OF SHALLOW ZONE GROUNDWATER MONITORING ANALYTICAL DATA
LAKE TAHOE LAUNDRY WORKS
1024 Lake Tahoe Boulevard
South Lake Tahoe, California

	GW Analytical Data										
Well ID	PCE	TCE	VC	CA	1,1-DCE	MC	Trans-1,2-DCE	1,1-DCA	Cis-1,2-DCE	1,2-DCA	1,1,1-TCA
	(µg/L)										
LW-MW-1S	**706**	**74.0**	nd<0.50	nd<0.50	**1.25**	nd<0.50	**0.727**	nd<0.50	**41.3**	nd<0.50	nd<0.50
LW-MW-2S	**3.00**	**2.52**	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	**31.0**	nd<0.50	nd<0.50
LW-MW-3S	**4.04**	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50
LW-MW-4S	**24.5**	**1.60**	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	**0.60**	nd<0.50	nd<0.50
LW-MW-5S	**85.1**	**3.50**	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	**2.00**	nd<0.50	nd<0.50
LW-MW-6S	**85.3**	**7.50**	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	**7.00**	nd<0.50	nd<0.50
LW-MW-7S	**45.3**	**32.8**	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	**8.04**	nd<0.50	nd<0.50
LW-MW-8S	**78.4**	**11.0**	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	**24.0**	nd<0.50	nd<0.50

Notes:

µg/L = micrograms per liter (equivalent to parts per billion, or ppb)

1,1-DCE = 1,1-D DCE = 1,2-Dichloroethylene
1,2-DCA = 1,2-D feet rel = TOC Elevation in feet relative
1,1,1-TCA = 1,1, GW = Groundwater
BTOC = Below T MC = Methylene Chloride
CA = Chloroetha MDL = Method detection limit
cis-1,2-DCE = ci: nd< = Not detected at or above the MDL (indicated by value)

PCE = Tetrachloroethylene (a.k.a. perchloroethylene)
TCE = Trichloroethylene
TOC = Top of Casing
Trans-1,2-DCE = Trans-1,2-Dichloroethene
VC = Vinyl Chloride

TABLE 28: SUMMARY OF MIDDLE ZONE GROUNDWATER MONITORING ANALYTICAL DATA, SITE INVESTIGATION REPORT OF FINDINGS (E_2C, 2008)

E_2C Remediation Environmental Engineering, Consulting and Remediation, Inc. (E_2C). 22 September 2008. Site Investigation Report of Findings, Lake Tahoe Laundry Works, 1024 Lake Tahoe Boulevard, South Lake Tahoe, California

TABLE 1D
SUMMARY OF MIDDLE ZONE GROUNDWATER MONITORING ANALYTICAL DATA
LAKE TAHOE LAUNDRY WORKS
1024 Lake Tahoe Boulevard
South Lake Tahoe, California

	GW Analytical Data										
Well ID	PCE	TCE	VC	CA	1,1-DCE	MC	Trans-1,2-DCE	1,1-DCA	Cis-1,2-DCE	1,2-DCA	1,1,1-TCA
	(µg/L)										
LW-MW-1D	**137**	**3.12**	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	**7.10**	nd<0.50	nd<0.50
LW-MW-2D	**72.3**	**7.10**	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	**6.10**	nd<0.50	nd<0.50
LW-MW-3D	**1.59**	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50
LW-MW-4D	**100**	**5.28**	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	**20.0**	nd<0.50	nd<0.50
LW-MW-5D	**1.43**	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50
LW-MW-6D	**47.5**	**2.70**	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	**2.31**	nd<0.50	nd<0.50
LW-MW-7D	**83.7**	**29.8**	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	**17.0**	nd<0.50	nd<0.50
LW-MW-8D	**15.7**	**2.67**	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	**4.44**	nd<0.50	nd<0.50
duplicate	**26.2**	**1.35**	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	**5.68**	nd<0.50	nd<0.50
MW-38M	**3.45**	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50	nd<0.50

Notes:

µg/L = micrograms per liter (equivalent to parts per billion, or ppb)

1,1-DCE = 1,1-Di DCE = 1,2-Dichloroethylene
1,2-DCA = 1,2-D feet rel = TOC Elevation in feet relative
1,1,1-TCA = 1,1, GW = Groundwater
BTOC = Below T MC = Methylene Chloride
CA = Chloroetha MDL = Method detection limit
cis-1,2-DCE = ci: nd< = Not detected at or above the MDL (indicated by value)

PCE = Tetrachloroethylene (a.k.a. perchloroethylene)
TCE = Trichloroethylene
TOC = Top of Casing
Trans-1,2-DCE = Trans-1,2-Dichloroethene
VC = Vinyl Chloride

ATTACHMENT B: LAHONTAN WATER BOARD'S ENGINEER'S COST ESTIMATE OF INVESTIGATION AND REPORTING SCENARIOS 5-YEAR COST ESTIMATE

ATTACHMENT B: LAHONTAN WATER BOARD'S ENGINEER'S COST ESTIMATE OF INVESTIGATION AND REPORTING SCENARIOS
5-YEAR COST ESTIMATE ASSUMPTIONS

PROJECT NAME: Lake Tahoe Laundry Works
PROJECT ADDRESS: 1024 Lake Tahoe Boulevard, South Lake Tahoe, CA
PROJECT NUMBER: T6S043

ORDER #	ORDER DESCRIPTION	ASSUMPTIONS
General	"Engineer's Estimate" Limitations	This "engineer's estimate" provides a summary of estimated "order of magnitude" costs associated with the development of a Revised Conceptual Site Model (CSM) and the planning and implementation of site assessment activities required under Water Code 13267. This "engineer's estimate" does not provide a summary of "order of magnitude" costs associated with any other Order required activities including the 1) the development and implementation of a human health and ecological risk assessment, 2) vapor intrusion mitigation, 3) water replacement, and 4) remedial actions. A cost contingency has not been included in this "engineer's estimate".
Order 1:	Conceptual Site Model	This task includes the cost to develop a Revised CSM to describe and display discharge scenario (s), source area(s) of contamination geology and hydrogeology, fate and transport in soil, soil vapor, and groundwater, distribution of wastes, exposure pathways, sensitive receptors, impaired receptors, and threatened receptors. Assumes Revised Conceptual Site Model (CSM) will take a professional team three (3) weeks to develop
Order 2:	Sampling and Analysis Plan & Quality Assurance Project Plan	This task includes the cost to develop a Sampling and Analysis Plan. Assumes Sampling and Analysis Plan will take a professional team two (2) weeks to develop.
Order 3:	Develop, Submit, and Implement Site Investigation Work Plan(s)	This task includes the cost to delineate the lateral and vertical extent of contamination originating from the Site in soil, soil gas, and groundwater.
		Assumes one (1) work plan will be developed to investigate extent of soil, soil gas, groundwater contamination on-Site and off-Site, and to delineate the extent of regional PCE groundwater plume and assumes one (1) investigation summary report will be developed. Soil investigation assumes that 25 soil borings to 15 feet bgs will be advanced on-Site and off-Site where data gaps exist using direct-push drill rig; four (4) soil samples will be collected per boring; and a total of 110 soil samples (including QC samples) will be collected and analyzed for VOCs. Soil gas investigation assumes that 25 temporary soil gas wells will be installed to 5 feet bgs and 25 temporary soil gas wells will be installed to 10 feet bgs in areas on-Site and off-Site where data gaps exist using a direct-push drill rig; two (2) soil vapor sample will be collected per temporary well to assess seasonal variations in soil gas concentrations; and a total of 120 soil gas samples (including QC samples) will be collected and analyzed for VOCs. On-Site and off-Site groundwater investigation assumes that 20 CPT and/or direct push borings will be advanced to 100 feet bgs in areas where data gaps exist on-Site and off-Site; eight (8) Hydropunch depth discrete groundwater samples will be collected per boring; and a total of 192 groundwater water samples (including QC samples) will be collected and analyzed for VOCs. Regional plume groundwater investigation assumes that 20 CPT borings will be advanced to 100 feet bgs and 20 Sonic borings will be advanced to 300 feet bgs to address data gaps identified during the SCAP Regional Plume Investigation; eight (8) Hydropunch depth discrete groundwater samples will be collected per boring; and a total of 384 samples (including QC samples) will be collected and analyzed for VOCs. Assumes Work Plan will take a professional team four (4) weeks to develop; Investigation Summary Report will take a professional team three (3) weeks to develop; Site Assessment will take 40 weeks to complete and require two (2) staff professionals working 10 hours per day, and field work will be overseen by senior and project professionals; 65 CPT and/or DPT drilling feet per day (AECOM estimate); 60 Sonic drilling feet per day (AECOM estimate); CPT drilling cost per foot $150 (AECOM invoice 2020); DPT soil gas drilling cost per foot $120 (estimated); and Sonic drilling cost per foot $170 (AECOM estimate).

ATTACHMENT B: LAHONTAN WATER BOARD'S ENGINEER'S COST ESTIMATE OF INVESTIGATION AND REPORTING SCENARIOS
5-YEAR COST ESTIMATE ASSUMPTIONS

PROJECT NAME:	Lake Tahoe Laundry Works
PROJECT ADDRESS:	1024 Lake Tahoe Boulevard, South Lake Tahoe, CA
PROJECT NUMBER:	T6S043

ORDER #	ORDER DESCRIPTION	ASSUMPTIONS
Order 4:	Develop, Submit, and Implement a Monitoring Well Installation Work Plan	Assumes one (1) work plan will be developed to install perimeter and sentry monitoring wells and one (1) well installation completion report will be developed. Assumes perimeter wells will be installed at 10 locations with three (3) wells per location with screen intervals at 100, 150, and 200 feet using a sonic drill rig to monitor plume migration. Actual well screen intervals will be determined in the field based on lithology and PCE contamination observed during Site Investigation (Order 3) and during the SCAP Regional Plume Investigation. Assumes sentry wells will be installed at four (4) locations with three (3) per location with screen intervals at 100 feet, 150 feet, and 300 feet using a sonic drill rig. Actual well screen intervals will be based on the municipal supply well screen interval (s) and lithology and PCE contamination observed during Site Investigation (Order 3) and during the SCAP Regional Plume Investigation. Estimate assumes nine (9) sentry wells were previously installed for four threatened or impacted supply wells during the SCAP Investigation. Assumes Work Plan will take a professional team two (2) weeks to develop; Well Installation Completion Report will take a professional team three (3) weeks to develop; perimeter and sentry well installation will take 24 weeks to complete and require two (2) staff professionals working 10 hours per day, and field work will be overseen by senior and project professionals; 60 Sonic drilling feet per day (AECOM estimate); and Sonic well installation drilling cost per foot $275 (AECOM estimate).
Order 5:	Develop, Submit, and Implement a Vapor Intrusion Investigation Work Plan	Assumes one work plan will be developed to assess potential risk from vapor intrusion and will require an in-depth building survey to design sampling plan. Assumes indoor air and sub slab samples will be collected from four (4) buildings on-Site and four (4) building off-Site; three (3) indoor air and three (3) sub slab samples will be collected per building, three (3) outdoor air samples will be collected; and four sampling events will be conducted to evaluate temporal variability; a total of 116 indoor air (including QC samples), 116 sub slab (including QC samples), and 15 outdoor air samples will be collected and analyzed for VOCs. Assumes Work Plan will take a professional team two (2) weeks to develop and will require one site visit to develop sampling approach; Vapor Intrusion Completion Report will take a professional team three (3) weeks to develop; each indoor air and sub slab sampling event will take eight days to complete and require two (2) staff professionals working 10 hours per day; four sampling events; and field work will be overseen by senior and project professionals.
Order 6:	Prepare and Submit Human Health and Ecological Risk Assessment	Assumes one (1) HHERA report will be developed using data generated during Site Investigation (Order 3), Vapor Intrusion Investigation (Order 5), and/or during previous investigations (LTLW or by others [e.g., SCAP Regional Plume Investigation]) and no data gap investigation work is required. Assumes each HHERA will take a professional team three (3) weeks to develop.

PROJECT NAME: Lake Tahoe Laundry Works
PROJECT ADDRESS: 1024 Lake Tahoe Boulevard, South Lake Tahoe, CA
PROJECT NUMBER: T6S043

ORDER #	ORDER DESCRIPTION	ASSUMPTIONS
Order 9:	Routine Monitoring (5 years)	This task includes the cost to conduct quarterly monitoring of groundwater, perimeter, sentry, and active domestic supply wells until remedial action is complete (assume 5 years for this estimate). This task summary provides a conservative estimate of costs if the Discharger elects to implement an innovative and/or aggressive remediation technology that results in an accelerated remediation timeframe, the actual monitoring costs may be significantly reduced (e.g. quarterly monitoring may be reduced to 5 years with an associated cost reduction of 60% to 80%).
		Assumes quarterly groundwater, perimeter, sentry, and private well monitoring and reporting for first three (3) years and semi-annual for 3 years and a total of 16 monitoring events. Assumes sampling of existing 18 on-Site and off-Site monitoring wells, 42 new perimeter and sentry monitoring wells installed as part of Order 4, and nine (9) sentry wells installed as part of the SCAP Regional PCE Investigation (total of 69 wells); quarterly sampling for first three (3) years and semi-annual sampling for 2 years; and a total of 1,325 samples (including QC samples) will be collected and analyzed for VOCs. Assumes sampling of 10 active domestic supply wells that are threatened by contamination; sampling of five (5) municipal supply wells that are threatened or impacted by contamination; quarterly sampling for first three (3) years and semi-annual sampling for two (2) years; and a total of 288 samples (including QC samples) will be collected and analyzed for VOCs. Assumes each groundwater, perimeter, sentry, municipal, and private well monitoring report will take a professional team two (2) weeks to develop; and each monitoring event will take 3.8 weeks to complete and require two (2) staff professionals working 10 hours per day.

ATTACHMENT B: LAHONTAN WATER BOARD'S ENGINEER'S COST ESTIMATE OF INVESTIGATION AND REPORTING SCENARIOS
5-YEAR COST ESTIMATE SUMMARY

PROJECT NAME: Lake Tahoe Laundry Works
PROJECT ADDRESS: 1024 Lake Tahoe Boulevard, South Lake Tahoe, CA
CASE NUMBER: T6S043

Order #	Order Description	Cost Summary
Order 1:	Conceptual Site Model	$ 30,750
Order 2:	Sampling and Analysis Plan & Quality Assurance Project Plan	$ 20,500
Order 3:	Develop, Submit, and Implement Site Investigation Work Plan(s)	$ 2,786,648
Order 4:	Develop, Submit, and Implement a Monitoring Well Installation Work Plan	$ 2,701,962
Order 5:	Develop, Submit, and Implement a Vapor Intrusion Investigation Work Plan	$ 228,976
Order 6:	Prepare and Submit Human Health and Ecological Risk Assessment	$ 30,750
Order 9:	Routine Monitoring (5 years)	$ 877,257
PROJECT TOTAL (WITHOUT CONTINGENCY):		**$ 6,676,843**

ATTACHMENT B: LAHONTAN WATER BOARD'S ENGINEER'S COST ESTIMATE OF INVESTIGATION AND REPORTING SCENARIOS
5-YEAR COST ESTIMATE

LABOR HOURS	Source		Order 1: Conceptual Site Model		Order 2: Sampling and Analysis Plan & Quality Assurance Project Plan		Order 3: Develop, Submit, and Implement Site Investigation Work Plan(s)		Order 4: Develop, Submit, and Implement a Monitoring Well Installation Work Plan		Order 5: Develop, Submit, and Implement a Vapor Intrusion Investigation Work Plan		Order 6: Prepare and Submit Human Health and Ecological Risk Assessment		Order 9: Routine Monitoring (25 years)		TOTAL	
PERSONNEL SERVICES		**Labor Rates**	**Hours**	**Cost**	**Hours**	**Cost**	**Hours**	**Cost**	**Hours**	**Cost**	**Hours**	**Cost**	**Hours**	**Cost**	**Hours**	**Cost**	**Hours**	**Cost**
Principal	SCAP Country C	$ 182	9	$ 1,638	6	$ 1,092	21	$ 3,822	15	$ 2,730	15	$ 2,730	9	$ 1,638	96	$ 17,472	171	$ 31,122
Senior Professional	SCAP Country C	$ 152	36	$ 5,472	24	$ 3,648	277	$ 42,104	179	$ 27,208	92	$ 13,984	36	$ 5,472	384	$ 58,368	1,028	$ 156,256
Project Professional	SCAP Country C	$ 131	60	$ 7,860	40	$ 5,240	526	$ 68,906	338	$ 44,278	164	$ 21,484	60	$ 7,860	640	$ 83,840	1,828	$ 239,468
Staff Professional	SCAP Country C	$ 109	120	$ 13,080	80	$ 8,720	4,140	$ 451,260	2,580	$ 281,220	840	$ 91,560	120	$ 13,080	1,280	$ 139,520	9,160	$ 998,440
Illustrator	SCAP Country C	$ 80	24	$ 1,920	16	$ 1,280	56	$ 4,480	40	$ 3,200	40	$ 3,200	24	$ 1,920	256	$ 20,480	456	$ 36,480
Clerical	SCAP Country C	$ 65	12	$ 780	8	$ 520	28	$ 1,820	20	$ 1,300	20	$ 1,300	12	$ 780	128	$ 8,320	228	$ 14,820
Total Labor			**261**	**$ 30,750**	**174**	**$ 20,500**	**5,048**	**$ 572,392**	**3,172**	**$ 359,936**	**1,171**	**$ 134,258**	**261**	**$ 30,750**	**2,784**	**$ 328,000**	**12,871**	**$ 1,476,586**
TRAVEL		**$/Unit**	**Amt**	**Cost**	**Amt**	**Cost**	**Amt**	**Cost**	**Amt**	**Cost**	**Amt**	**Cost**	**Amt**	**Cost**	**Amt**	**Cost**	**Amt**	**Cost**
Mileage Reimbursement	SCAP South Y F	$ 0.54	0	$ -	0	$ -	0	$ -		$ -	0	$ -	0	$ -	0	$ -	0	$ -
Truck Rental and Fuel (daily)	SCAP South Y F	$ 85	0	$ -	0	$ -	193	$ 16,405	119	$ 10,115	32	$ 2,720	0	$ -	301	$ 25,568	645	$ 54,808
Per Diem	SCAP South Y F	$ 185	0	$ -	0	$ -	193	$ 35,705	119	$ 22,015	32	$ 5,920	0	$ -	301	$ 55,648	645	$ 119,288
Total Travel				**$ -**		**$ -**	**-**	**$ 52,110**	**238**	**$ 32,130**	**64**	**$ 8,640**	**0**	**$ -**	**602**	**$ 81,216**	**1,290**	**$ 174,096**
OTHER DIRECT COSTS (ODCs)		**$/Unit**	**Amt**	**Cost**	**Amt**	**Cost**	**Amt**	**Cost**	**Amt**	**Cost**	**Amt**	**Cost**	**Amt**	**Cost**	**Amt**	**Cost**	**Amt**	**Cost**
Regulatory Oversight (lump sum)		$ 1,000,000	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	1	$ 600,000
Analytical - Groundwater VOCs by EPA 8260	SCAP Country C	$ 125	0	$ -	0	$ -	576	$ 72,000	0	$ -	0	$ -	0	$ -	1613	$ 201,625	2,189	$ 273,625
Analytical - Indoor Air VOCs by EPA TO-15 SIM	SCAP Country C	$ 250	0	$ -	0	$ -	0	$ -	0	$ -	131	$ 32,750	0	$ -	0	$ -	131	$ 32,750
Analytical - Soil Vapor VOCs by EPA TO-15	SCAP Country C	$ 195	0	$ -	0	$ -	120	$ 23,400	0	$ -	116	$ 22,620	0	$ -	0	$ -	236	$ 46,020
Analytical - Soil VOCs by EPA 8260	SCAP Country C	$ 125	0	$ -	0	$ -	110	$ 13,750	0	$ -	0	$ -	0	$ -	0	$ -	110	$ 13,750
Summa Canister Rental	SCAP Country C	$ 50	0	$ -	0	$ -	120	$ 6,000	0	$ -	247	$ 12,350	0	$ -	0	$ -	367	$ 18,350
Encore Sample Kit	SCAP Country C	$ 15	0	$ -	0	$ -	110	$ 1,650	0	$ -	0	$ -	0	$ -	0	$ -	110	$ 1,650
Misc. Sampling Equipment (per week)	SCAP Country C	$ 250	0	$ -	0	$ -	39	$ 9,650	0	$ -	6	$ 1,600	0	$ -	61	$ 15,250	106	$ 26,500
Shipping - Coolers	SCAP Country C	$ 125	0	$ -	0	$ -	39	$ 4,825	0	$ -	6	$ 800	0	$ -	61	$ 7,625	106	$ 13,250
Traffic Control Plan per Location	SCAP South Y F	$ 800	0	$ -	0	$ -	3	$ 2,400	5	$ 4,000	0	$ -	0	$ -	0	$ -	8	$ 6,400
Traffic Control Equipment Rental (signs, cones, etc. per week)	SCAP South Y F	$ 300	0	$ -	0	$ -	39	$ 11,580	24	$ 7,140	6.4	$ 1,920	0	$ -	61	$ 18,300	130	$ 38,940
GPS Rental (per week)	SCAP South Y F	$ 415	0	$ -	0	$ -	1	$ 415	2	$ 830	1	$ 415	0	$ -	0	$ -	4	$ 1,660
YSI Rental (per week)	SCAP South Y F	$ 150	0	$ -	0	$ -	34	$ 5,040	24	$ 3,570	0	$ -	0	$ -	61	$ 9,150	118	$ 17,760
Photoionization Detector-Multiple Gas (per week)	SCAP Country C	$ 145	0	$ -	0	$ -	39	$ 5,597	24	$ 3,451	6	$ 928	0	$ -	61	$ 8,845	130	$ 18,821
Vapor Pins	SCAP Country C	$ 250	0	$ -	0	$ -	0	$ -	0	$ -		$ -	0	$ -	0	$ -	0	$ -
Boring Permits (per event)	SCAP South Y F	$ 6,000	0	$ -	0	$ -	1	$ 6,000	0	$ -	0.5	$ 3,000	0	$ -	0	$ -	2	$ 9,000
Well Permits (per well)	SCAP South Y F	$ 1,500	0	$ -	0	$ -	0	$ -	42	$ 63,000	0	$ -	0	$ -	0	$ -	42	$ 63,000
Utility Clearing (A-Plus Locator per day, 10 location per day)	SCAP South Y F	$ 1,870	0	$ -	0	$ -	14	$ 26,180	5	$ 9,350	1	$ 1,870	0	$ -	0	$ -	20	$ 37,400
CPT Drilling Footage Rate	SCAP South Y F	$ 150	0	$ -	0	$ -	4000	$ 600,000	0	$ -	0	$ -	0	$ -	0	$ -	4,000	$ 600,000
Sonic Drilling Footage Rate	SCAP South Y F	$ 170	0	$ -	0	$ -	6000	$ 1,020,000	0	$ -	0	$ -	0	$ -	0	$ -	6,000	$ 1,020,000
DPT Drilling Footage Rate	SCAP Remainin	$ 70	0	$ -	0	$ -	375	$ 26,250	0	$ -	0	$ -	0	$ -	0	$ -	375	$ 26,250
Surveying (event)	SCAP South Y F	$ 24,000	0	$ -	0	$ -	0	$ -	1	$ 24,000	0	$ -	0	$ -	0	$ -	1	$ 24,000
20,000 gal storage tank mob/demob	SCAP South Y F	$ 1,800	0	$ -	0	$ -	3	$ 5,400	5	$ 9,000	0	$ -	0	$ -	0	$ -	8	$ 14,400
20,000 gal storage tank rental per week	SCAP South Y F	$ 294	0	$ -	0	$ -	41	$ 11,936	26	$ 7,644	0	$ -	0	$ -	0	$ -	67	$ 19,580
20-yard roll-off bin mob/demob	SCAP South Y F	$ 1,800	0	$ -	0	$ -	22	$ 39,600	42	$ 75,600	0	$ -	0	$ -	0	$ -	64	$ 115,200
20-yard roll-off bin rental per week	SCAP South Y F	$ 190	0	$ -	0	$ -	41	$ 7,714	26	$ 4,940	0	$ -	0	$ -	0	$ -	67	$ 12,654
Drums	SCAP Country C	$ 55	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	126	$ 6,952	126	$ 6,952
Sanitation station (unit/month)	SCAP South Y F	$ 245	0	$ -	0	$ -	10	$ 2,450	24	$ 5,880	0	$ -	0	$ -	61	$ 14,945	95	$ 23,275
IDW Disposal	SCAP South Y F	$ 750	0	$ -	0	$ -	25	$ 18,750	52	$ 39,000	0	$ -	0	$ -	126	$ 94,800	203	$ 152,550
DPT Soil Gas Well Installation Drilling Footage Rate	Estimated	$ 120	0	$ -	0	$ -	375	$ 45,000	0	$ -	0	$ -	0	$ -	0	$ -	375	$ 45,000
Sonic Well Installation Drilling Footage Rate	SCAP Remainin	$ 275	0	$ -	0	$ -	0	$ -	6700	$ 1,842,500	0	$ -	0	$ -	0	$ -	6,700	$ 1,842,500
Vapor/GW Sampling Contractor	SCAP Country C	$ 3,000	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	16	$ 48,000	16	$ 48,000
Mitigation Measures	SCAP Country C	$ 25,000	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -
Materials and Equipment	SCAP Country C	$ 2,500	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -
Electrician/plumber	SCAP Country C	$ 5,000	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -
OCD Markup (10%)			0	$ -		$ -	0	$ 196,559		$ 209,991		$ 7,825	0	$ -		$ 42,549	0	$ 456,924
Total ODCs				**$ -**			**-**	**$ 2,162,146**		**$ 2,309,896**		**$ 86,078**		**$ -**		**$ 468,041**		**$ 5,026,161**
PROJECT TOTAL			**--**	**$ 30,750**	**-**	**$ 20,500**		**$ 2,786,648**		**$ 2,701,962**		**$ 228,976**		**$ 30,750**		**$ 877,257**		**$ 6,676,843**

ATTACHMENT B: LAHONTAN WATER BOARD'S ENGINEER'S COST ESTIMATE OF INVESTIGATION AND REPORTING SCENARIOS 25-YEAR COST ESTIMATE

ATTACHMENT B: LAHONTAN WATER BOARD'S ENGINEER'S COST ESTIMATE OF INVESTIGATION AND REPORTING SCENARIOS
25-YEAR COST ESTIMATE ASSUMPTIONS

PROJECT NAME: Lake Tahoe Laundry Works
PROJECT ADDRESS: 1024 Lake Tahoe Boulevard, South Lake Tahoe, CA
PROJECT NUMBER: T6S043

TASK #	TASK DESCRIPTION	ASSUMPTIONS
General	"Engineer's Estimate" Limitations	This "engineer's estimate" provides a summary of estimated "order of magnitude" costs associated with the development of a Revised Conceptual Site Model (CSM) and the planning and implementation of site assessment activities required under Water Code 13267. This "engineer's estimate" does not provide a summary of "order of magnitude" costs associated with any other Order required activities including the 1) the development and implementation of a human health and ecological risk assessment, 2) vapor intrusion mitigation, 3) water replacement, and 4) remedial actions. A cost contingency has not been included in this "engineer's estimate".
Order 1:	Conceptual Site Model	This task includes the cost to develop a Revised CSM to describe and display discharge scenario (s), source area(s) of contamination geology and hydrogeology, fate and transport in soil, soil vapor, and groundwater, distribution of wastes, exposure pathways, sensitive receptors, impaired receptors, and threatened receptors. Assumes Revised Conceptual Site Model (CSM) will take a professional team three (3) weeks to develop.
Order 2:	Sampling and Analysis Plan & Quality Assurance Project Plan	This task includes the cost to develop a Sampling and Analysis Plan. Assumes Sampling and Analysis Plan will take a professional team two (2) weeks to develop.
Order 3:	Develop, Submit, and Implement Site Investigation Work Plan(s)	This task includes the cost to delineate the lateral and vertical extent of contamination originating from the Site in soil, soil gas, and groundwater.
		Assumes one (1) work plan will be developed to investigate extent of soil, soil gas, groundwater contamination on-Site and off-Site, and to delineate the extent of regional PCE groundwater plume and assumes one (1) investigation summary report will be developed. Soil investigation assumes that 25 soil borings to 15 feet bgs will be advanced on-Site and off-Site where data gaps exist using direct-push drill rig; four (4) soil samples will be collected per boring; and a total of 110 soil samples (including QC samples) will be collected and analyzed for VOCs. Soil gas investigation assumes that 25 temporary soil gas wells will be installed to 5 feet bgs and 25 temporary soil gas wells will be installed to 10 feet bgs in areas on-Site and off-Site where data gaps exist using a direct-push drill rig; two (2) soil vapor sample will be collected per temporary well to assess seasonal variations in soil gas concentrations; and a total of 120 soil gas samples (including QC samples) will be collected and analyzed for VOCs. On-Site and off-Site groundwater investigation assumes that 20 CPT and/or direct push borings will be advanced to 100 feet bgs in areas where data gaps exist on-Site and off-Site; eight (8) Hydropunch depth discrete groundwater samples will be collected per boring; and a total of 192 groundwater water samples (including QC samples) will be collected and analyzed for VOCs. Regional plume groundwater investigation assumes that 20 CPT borings will be advanced to 100 feet bgs and 20 Sonic borings will be advanced to 300 feet bgs to address data gaps identified during the SCAP Regional Plume Investigation; eight (8) Hydropunch depth discrete groundwater samples will be collected per boring; and a total of 384 samples (including QC samples) will be collected and analyzed for VOCs. Assumes Work Plan will take a professional team four (4) weeks to develop; Investigation Summary Report will take a professional team three (3) weeks to develop; Site Assessment will take 40 weeks to complete and require two (2) staff professionals working 10 hours per day, and field work will be overseen by senior and project professionals; 65 CPT and/or DPT drilling feet per day (AECOM estimate); 60 Sonic drilling feet per day (AECOM estimate); CPT drilling cost per foot $150 (AECOM invoice 2020); DPT soil gas drilling cost per foot $120 (estimated); and Sonic drilling cost per foot $170 (AECOM estimate).

PROJECT NAME: Lake Tahoe Laundry Works
PROJECT ADDRESS: 1024 Lake Tahoe Boulevard, South Lake Tahoe, CA
PROJECT NUMBER: T6S043

TASK #	TASK DESCRIPTION	ASSUMPTIONS
Order 4:	Develop, Submit, and Implement a Monitoring Well Installation Work Plan	Assumes one (1) work plan will be developed to install perimeter and sentry monitoring wells and one (1) well installation completion report will be developed. Assumes perimeter wells will be installed at 10 locations with three (3) wells per location with screen intervals at 100, 150, and 200 feet using a sonic drill rig to monitor plume migration. Actual well screen intervals will be determined in the field based on lithology and PCE contamination observed during Site Investigation (Task 3) and during the SCAP Regional Plume Investigation. Assumes sentry wells will be installed at four (4) locations with three (3) per location with screen intervals at 100 feet, 150 feet, and 300 feet using a sonic drill rig. Actual well screen intervals will be based on the municipal supply well screen interval (s) and lithology and PCE contamination observed during Site Investigation (Task 3) and during the SCAP Regional Plume Investigation. Estimate assumes nine (9) sentry wells were previously installed for four threatened or impacted supply wells during the SCAP Investigation. Assumes Work Plan will take a professional team two (2) weeks to develop; Well Installation Completion Report will take a professional team three (3) weeks to develop; perimeter and sentry well installation will take 24 weeks to complete and require two (2) staff professionals working 10 hours per day, and field work will be overseen by senior and project professionals; 60 Sonic drilling feet per day (AECOM estimate); and Sonic well installation drilling cost per foot $275 (AECOM estimate).
Order 5:	Develop, Submit, and Implement a Vapor Intrusion Investigation Work Plan	Assumes one work plan will be developed to assess potential risk from vapor intrusion and will require an in-depth building survey to design sampling plan. Assumes indoor air and sub slab samples will be collected from four (4) buildings on-Site and four (4) building off-Site; three (3) indoor air and three (3) sub slab samples will be collected per building, three (3) outdoor air samples will be collected; and four sampling events will be conducted to evaluate temporal variability; a total of 116 indoor air (including QC samples), 116 sub slab (including QC samples), and 15 outdoor air samples will be collected and analyzed for VOCs. Assumes Work Plan will take a professional team two (2) weeks to develop and will require one site visit to develop sampling approach; Vapor Intrusion Completion Report will take a professional team three (3) weeks to develop; each indoor air and sub slab sampling event will take eight days to complete and require two (2) staff professionals working 10 hours per day; four sampling events; and field work will be overseen by senior and project professionals.
Order 6:	Prepare and Submit Human Health and Ecological Risk Assessment	Assumes one (1) HHERA report will be developed using data generated during Site Investigation (Order 3), Vapor Intrusion Investigation (Order 5), and/or during previous investigations (LTLW or by others [e.g., SCAP Regional Plume Investigation]) and no data gap investigation work is required. Assumes each HHERA will take a professional team three (3) weeks to develop.

PROJECT NAME: Lake Tahoe Laundry Works
PROJECT ADDRESS: 1024 Lake Tahoe Boulevard, South Lake Tahoe, CA
PROJECT NUMBER: T6S043

TASK #	TASK DESCRIPTION	ASSUMPTIONS
Order 9:	Routine Monitoring (25 years)	This task includes the cost to conduct quarterly monitoring of groundwater, perimeter, sentry, and active domestic supply wells until remedial action is complete (assume 25 years). This task summary provides a conservative estimate of costs. If the Discharger elects to implement an innovative and/or aggressive remediation technology that results in an accelerated remediation timeframe, the actual monitoring costs may be significantly reduced (e.g. quarterly monitoring may be reduced to 5 to 10 years with an associated cost reduction of 60% to 80%).
		Assumes quarterly groundwater, perimeter, sentry, and private well monitoring and reporting for first three (3) years and semi-annual for 22 years and a total of 56 monitoring events. Assumes sampling of existing 18 on-Site and off-Site monitoring wells, 42 new perimeter and sentry monitoring wells installed as part of Order 4, and nine (9) sentry wells installed as part of the SCAP Regional PCE Investigation (total of 69 wells); quarterly sampling for first three (3) years and semi-annual sampling for 22 years; and a total of 4,637 samples (including QC samples) will be collected and analyzed for VOCs. Assumes sampling of 10 active domestic supply wells that are threatened by contamination; sampling of five (5) municipal supply wells that are threatened or impacted by contamination; quarterly sampling for first three (3) years and semi-annual sampling for 22 years; and a total of 1,008 samples (including QC samples) will be collected and analyzed for VOCs. Assumes each groundwater, perimeter, sentry, municipal, and private well monitoring report will take a professional team two (2) weeks to develop; and each monitoring event will take 3.8 weeks to complete and require two (2) staff professionals working 10 hours per day.

ATTACHMENT B: LAHONTAN WATER BOARD'S ENGINEER'S COST ESTIMATE OF INVESTIGATION AND REPORTING SCENARIOS
25-YEAR COST ESTIMATE SUMMARY

PROJECT NAME:	Lake Tahoe Laundry Works
PROJECT ADDRESS:	1024 Lake Tahoe Boulevard, South Lake Tahoe, CA
CASE NUMBER:	T6S043

Order #	Order Description	Cost Summary
Order 1:	Conceptual Site Model	$ 30,750
Order 2:	Sampling and Analysis Plan & Quality Assurance Project Plan	$ 20,500
Order 3:	Develop, Submit, and Implement Site Investigation Work Plan(s)	$ 2,786,648
Order 4:	Develop, Submit, and Implement a Monitoring Well Installation Work Plan	$ 2,701,962
Order 5:	Develop, Submit, and Implement a Vapor Intrusion Investigation Work Plan	$ 228,976
Order 6:	Prepare and Submit Human Health and Ecological Risk Assessment	$ 30,750
Order 9:	Routine Monitoring (25 years)	$ 5,366,890
PROJECT TOTAL (WITHOUT CONTINGENCY):		**$ 11,166,476**

ATTACHMENT B: LAHONTAN WATER BOARD'S ENGINEER'S COST ESTIMATE OF INVESTIGATION AND REPORTING SCENARIOS
25-YEAR COST ESTIMATE

LABOR HOURS	Source		Order 1:		Order 2:		Order 3:		Order 4:		Order 5:		Order 6:		Order 9:		TOTAL	
			Conceptual Site Model		Sampling and Analysis Plan & Quality Assurance Project Plan		Develop, Submit, and Implement Site Investigation Work Plan(s)		Develop, Submit, and Implement a Monitoring Well Installation Work Plan		Develop, Submit, and Implement a Vapor Intrusion Investigation Work Plan		Prepare and Submit Human Health and Ecological Risk Assessment		Routine Monitoring (25 years)			
PERSONNEL SERVICES		**Labor Rates**	**Hours**	**Cost**	**Hours**	**Cost**	**Hours**	**Cost**	**Hours**	**Cost**	**Hours**	**Cost**	**Hours**	**Cost**	**Hours**	**Cost**	**Hours**	**Cost**
Principal	SCAP Country	$ 182	9	$ 1,638	6	$ 1,092	21	$ 3,822	15	$ 2,730	15	$ 2,730	9	$ 1,638	336	$ 61,152	411	$ 74,802
Senior Professional	SCAP Country	$ 152	36	$ 5,472	24	$ 3,648	277	$ 42,104	179	$ 27,208	92	$ 13,984	36	$ 5,472	1,344	$ 204,288	1,988	$ 302,176
Project Professional	SCAP Country	$ 131	60	$ 7,860	40	$ 5,240	526	$ 68,906	338	$ 44,278	164	$ 21,484	60	$ 7,860	2,240	$ 293,440	3,428	$ 449,068
Staff Professional	SCAP Country	$ 109	120	$ 13,080	80	$ 8,720	4,140	$ 451,260	2,580	$ 281,220	840	$ 91,560	120	$ 13,080	25,580	$ 2,788,220	33,460	$ 3,647,140
Illustrator	SCAP Country	$ 80	24	$ 1,920	16	$ 1,280	56	$ 4,480	40	$ 3,200	40	$ 3,200	24	$ 1,920	896	$ 71,680	1,096	$ 87,680
Clerical	SCAP Country	$ 65	12	$ 780	8	$ 520	28	$ 1,820	20	$ 1,300	20	$ 1,300	12	$ 780	448	$ 29,120	548	$ 35,620
Total Labor			**261**	**$ 30,750**	**174**	**$ 20,500**	**5,048**	**$ 572,392**	**3,172**	**$ 359,936**	**1,171**	**$ 134,258**	**261**	**$ 30,750**	**30,844**	**$ 3,447,900**	**40,931**	**$ 4,596,486**
TRAVEL		**$/Unit**	**Amt**	**Cost**	**Amt**	**Cost**	**Amt**	**Cost**	**Amt**	**Cost**	**Amt**	**Cost**	**Amt**	**Cost**	**Amt**	**Cost**	**Amt**	**Cost**
Mileage Reimbursement	SCAP South Y	$ 0.54	0	$ -	0	$ -	0	$ -		$ -	0	$ -	0	$ -	0	$ -	0	$ -
Truck Rental and Fuel (daily)	SCAP South Y	$ 85	0	$ -	0	$ -	193	$ 16,405	119	$ 10,115	32	$ 2,720	0	$ -	1,053	$ 89,488	1,397	$ 118,728
Per Diem	SCAP South Y	$ 185	0	$ -	0	$ -	193	$ 35,705	119	$ 22,015	32	$ 5,920	0	$ -	1,053	$ 194,768	1,397	$ 258,408
Total Travel				**$ -**		**$ -**		**$ 52,110**		**$ 32,130**		**$ 8,640**		**$ -**		**$ 284,256**		**$ 377,136**
OTHER DIRECT COSTS (ODCs)		**$/Unit**	**Amt**	**Cost**	**Amt**	**Cost**	**Amt**	**Cost**	**Amt**	**Cost**	**Amt**	**Cost**	**Amt**	**Cost**	**Amt**	**Cost**	**Amt**	**Cost**
Regulatory Oversight (lump sum)		$ 1,000,000	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	1	$ 1,000,000
Analytical - Groundwater VOCs by EPA 8260	SCAP Country	$ 125	0	$ -	0	$ -	576	$ 72,000	0	$ -	0	$ -	0	$ -	5645	$ 705,625	6,221	$ 777,625
Analytical - Indoor Air VOCs by EPA TO-15 SIM	SCAP Country	$ 250	0	$ -	0	$ -	0	$ -	0	$ -	131	$ 32,750	0	$ -	0	$ -	131	$ 32,750
Analytical - Soil Vapor VOCs by EPA TO-15	SCAP Country	$ 195	0	$ -	0	$ -	120	$ 23,400	0	$ -	116	$ 22,620	0	$ -	0	$ -	236	$ 46,020
Analytical - Soil VOCs by EPA 8260	SCAP Country	$ 125	0	$ -	0	$ -	110	$ 13,750	0	$ -	0	$ -	0	$ -	0	$ -	110	$ 13,750
Summa Canister Rental	SCAP Country	$ 50	0	$ -	0	$ -	120	$ 6,000	0	$ -	247	$ 12,350	0	$ -	0	$ -	367	$ 18,350
Encore Sample Kit	SCAP Country	$ 15	0	$ -	0	$ -	110	$ 1,650	0	$ -	0	$ -	0	$ -	0	$ -	110	$ 1,650
Misc. Sampling Equipment (per week)	SCAP Country	$ 250	0	$ -	0	$ -	39	$ 9,650	0	$ -	6	$ 1,600	0	$ -	211	$ 52,750	256	$ 64,000
Shipping - Coolers	SCAP Country	$ 125	0	$ -	0	$ -	39	$ 4,825	0	$ -	6	$ 800	0	$ -	211	$ 26,375	256	$ 32,000
Traffic Control Plan per Location	SCAP South Y	$ 800	0	$ -	0	$ -	3	$ 2,400	5	$ 4,000	0	$ -	0	$ -	0	$ -	8	$ 6,400
Traffic Control Equipment Rental (signs, cones, etc. per week)	SCAP South Y	$ 300	0	$ -	0	$ -	39	$ 11,580	24	$ 7,140	6.4	$ 1,920	0	$ -	211	$ 63,300	280	$ 83,940
GPS Rental (per week)	SCAP South Y	$ 415	0	$ -	0	$ -	1	$ 415	2	$ 830	1	$ 415	0	$ -	0	$ -	4	$ 1,660
YSI Rental (per week)	SCAP South Y	$ 150	0	$ -	0	$ -	34	$ 5,040	24	$ 3,570	0	$ -	0	$ -	211	$ 31,650	268	$ 40,260
Photoionization Detector-Multiple Gas (per week)	SCAP Country	$ 145	0	$ -	0	$ -	39	$ 5,597	24	$ 3,451	6	$ 928	0	$ -	211	$ 30,595	280	$ 40,571
Vapor Pins	SCAP Country	$ 250	0	$ -	0	$ -	0	$ -	0	$ -		$ -	0	$ -	0	$ -	0	$ -
Boring Permits (per event)	SCAP South Y	$ 6,000	0	$ -	0	$ -	1	$ 6,000	0	$ -	0.5	$ 3,000	0	$ -	0	$ -	2	$ 9,000
Well Permits (per well)	SCAP South Y	$ 1,500	0	$ -	0	$ -	0	$ -	42	$ 63,000	0	$ -	0	$ -	0	$ -	42	$ 63,000
Utility Clearing (A-Plus Locator per day, 10 location per day)	SCAP South Y	$ 1,870	0	$ -	0	$ -	14	$ 26,180	5	$ 9,350	1	$ 1,870	0	$ -	0	$ -	20	$ 37,400
CPT Drilling Footage Rate	SCAP South Y	$ 150	0	$ -	0	$ -	4000	$ 600,000	0	$ -	0	$ -	0	$ -	0	$ -	4,000	$ 600,000
Sonic Drilling Footage Rate	SCAP South Y	$ 170	0	$ -	0	$ -	6000	$ 1,020,000	0	$ -	0	$ -	0	$ -	0	$ -	6,000	$ 1,020,000
DPT Drilling Footage Rate	SCAP Remainin	$ 70	0	$ -	0	$ -	375	$ 26,250	0	$ -	0	$ -	0	$ -	0	$ -	375	$ 26,250
Surveying (event)	SCAP South Y	$ 24,000	0	$ -	0	$ -	0	$ -	1	$ 24,000	0	$ -	0	$ -	0	$ -	1	$ 24,000
20,000 gal storage tank mob/demob	SCAP South Y	$ 1,800	0	$ -	0	$ -	3	$ 5,400	5	$ 9,000	0	$ -	0	$ -	0	$ -	8	$ 14,400
20,000 gal storage tank rental per week	SCAP South Y	$ 294	0	$ -	0	$ -	41	$ 11,936	26	$ 7,644	0	$ -	0	$ -	0	$ -	67	$ 19,580
20-yard roll-off bin mob/demob	SCAP South Y	$ 1,800	0	$ -	0	$ -	22	$ 39,600	42	$ 75,600	0	$ -	0	$ -	0	$ -	64	$ 115,200
20-yard roll-off bin rental per week	SCAP South Y	$ 190	0	$ -	0	$ -	41	$ 7,714	26	$ 4,940	0	$ -	0	$ -	0	$ -	67	$ 12,654
Drums	SCAP Country	$ 55	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	442	$ 24,332	442	$ 24,332
Sanitation station (unit/month)	SCAP South Y	$ 245	0	$ -	0	$ -	10	$ 2,450	24	$ 5,880	0	$ -	0	$ -	211	$ 51,695	245	$ 60,025
IDW Disposal	SCAP South Y	$ 750	0	$ -	0	$ -	25	$ 18,750	52	$ 39,000	0	$ -	0	$ -	442	$ 331,800	519	$ 389,550
DPT Soil Gas Well Installation Drilling Footage Rate	Estimated	$ 120	0	$ -	0	$ -	375	$ 45,000	0	$ -	0	$ -	0	$ -	0	$ -	375	$ 45,000
Sonic Well Installation Drilling Footage Rate	SCAP Remainin	$ 275	0	$ -	0	$ -	0	$ -	6700	$ 1,842,500	0	$ -	0	$ -	0	$ -	6,700	$ 1,842,500
Vapor/GW Sampling Contractor	SCAP Country	$ 3,000	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	56	$ 168,000	56	$ 168,000
Mitigation Measures	SCAP Country	$ 25,000	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -
Materials and Equipment	SCAP Country	$ 2,500	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -
Electrician/plumber	SCAP Country	$ 5,000	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -	0	$ -
OCD Markup (10%)			0	$ -		$ -	0	$ 196,559		$ 209,991		$ 7,825	0	$ -		$ 148,612	0	$ 562,987
Total ODCs				**$ -**		**$ -**	-	**$ 2,162,146**		**$ 2,309,896**		**$ 86,078**		**$ -**		**$ 1,634,734**		**$ 6,192,854**
PROJECT TOTAL			--	**$ 30,750**	-	**$ 20,500**		**$ 2,786,648**		**$ 2,701,962**		**$ 228,976**		**$ 30,750**		**$ 5,366,890**		**$ 11,166,476**

ATTACHMENT C: TIME SCHEDULE

ATTACHMENT C: TIME SCHEDULE

TASK	DEADLINE[8]
Order No. 1, Conceptual Site Model	
Conceptual Site Model:	2 months after Order adoption
Order No. 2, Sampling and Analysis Plan and Quality Assurance Project Plan	
Sampling and Analysis Plan	2 months after Order adoption
Quality Assurance Project Plan	2 months after Order adoption
Order No. 3, Site Investigation Work Plan(s)	
Site Investigation Work Plan	2 months after Order adoption
Commence Site Investigation(s)	Within 2 months of Water Board acceptance
Complete Site Investigation	6 months after Order adoption
Site Investigation Completion Report	9 months after Order adoption
Order No. 4, Monitoring Well Installation Work Plan(s)	
Monitoring Well Installation Work Plan	2 months after Order adoption
Commence Monitoring Well Installation	Within 2 months of Lahontan Water Board acceptance
Complete Monitoring Well Installation	6 months after Order adoption
Monitoring Well Installation Completion Report	9 months after Order adoption
Order No. 5, Vapor Intrusion Investigation Work Plan	
Vapor Intrusion Investigation Work Plan	2 months after Order adoption
Commence Vapor Intrusion Investigation	Within 2 months of Lahontan Water Board acceptance
Complete Vapor Intrusion Investigation	6 months after Order adoption
Vapor Intrusion Investigation Completion Report	9 months after Order adoption
Order No. 6, Human Health and Ecological Risk Assessment	
Human Health and Ecological Risk Assessment	6 months after Order adoption

[8] Lahontan Water Board Staff recognizes the limited field season in the Tahoe area and understands extensions may be required due to weather and seasonal constraints. Extensions will be evaluated and granted as described by Order 16.

ATTACHMENT C: TIME SCHEDULE

TASK	DEADLINE[9]
Order No. 7 Conduct Remedial Action	
Order No. 7a. Current Remedial Actions	
Current Corrective Action Reporting	Quarterly; 15th of March, June, September, and December of every year until completion
Order No. 7b. Interim Emergency Water Replacement Plan	
Order 7bi. Report Describing how Dischargers Intend to Provide (or Pay for) Interim Emergency Water Replacement to Municipal Supply Entities.	Within 1 month after Order adoption
Order 7bii. Provide (or Pay for) Interim Emergency Water Replacement to Municipal Supply Entities	Within 2 months after Order adoption
Order 7biii. Determine whether non-municipal water supply wells are impaired	Within 1 month after Order adoption
Order 7biv. Provide Interim Emergency Water Replacement to impaired non-municipal water supply wells	Within 45 days after Order adoption
Order 7bvi. Interim Emergency Water Replacement Report	Quarterly; 15th of March, June, September, and December of every year until Permanent Water Replacement Plan acceptance
Order 7bvii. Changes to Interim Water Replacement Report	Within 14 days prior to changing any aspect of Interim Water Replacement
Order No. 7c. Permanent Water Replacement Plan	
Submit Permanent Water Replacement Plan	6 months after Order adoption
Implement Water Replacement Plan	Within 2 months of Lahontan Water Board acceptance
Complete Permanent Water Replacement Plan *with exception of ongoing operation and maintenance	18 months after Order adoption *will be revisited based on date of actual CAO issuance and seasonal timing
Water Replacement Progress Reports	Quarterly following Permanent Water Replacement Plan acceptance; 15th of March, June, September, and December of every year
Water Replacement Annual Report	Every 12 months after Order adoption until task completion

[9] Lahontan Water Board Staff recognizes the limited field season in the Tahoe area and understands extensions may be required due to weather and seasonal constraints. Extensions will be evaluated and granted as described by Order 16.

ATTACHMENT C: TIME SCHEDULE

TASK	**DEADLINE**[10]
Order No. 7d, Interim Remedial Action Plan	
Initial Interim Remedial Action Plan	2 months after Order adoption
Implement Initial Interim Remedial Action Plan	Within 2 months of Lahontan Water Board acceptance
Comprehensive Interim Remedial Action Plan	9 months after Order adoption
Implement Comprehensive Interim Remedial Action Plan	Within 2 months of Lahontan Water Board acceptance
Interim Remedial Action Progress Reports	Every 6 months after Order adoption until task completion
Interim Remedial Action Completion Report	24 months after Order adoption
Order No. 7e, Remedial Action Plan	
Remedial Action Plan	24 months after Order adoption
Implement Remedial Action Plan	Within 2 months of Lahontan Water Board acceptance
Complete All Remedial Actions *with exception of ongoing operation, maintenance, and verification monitoring activities	5 years after Order adoption
Remedial Action Completion Report	2 months after remedial action completion
Order No. 8, Public Participation Plan	
Public Participation Plan	2 months after Order adoption
Baseline Community Assessment	2 months after Order adoption
Interested Persons Contact List	2 months after Order adoption
Draft Fact Sheet	2 months after Order adoption
Send Approved Final Fact Sheet	On schedule to be determined by Executive Officer
Public Meeting or Workshops	Every 6 months after Order adoption until task completion
Public Participation Plan Progress Reports	Every 6 months after Order adoption until task completion
Order No. 9, Conduct Monitoring	
Conduct Monitoring	See Attachment E for monitoring frequencies and reporting requirements

[10] Lahontan Water Board Staff recognizes the limited field season in the Tahoe area and understands extensions may be required due to weather and seasonal constraints. Extensions will be evaluated and granted as described by Order 16.

ATTACHMENT D: TECHNICAL REPORTING REQUIREMENTS FOR CLEANUP AND ABATEMENT ORDER NO. R6T-2022-(PROPOSED)

ATTACHMENT D: TECHNICAL REPORTING REQUIREMENTS FOR CLEANUP AND ABATEMENT ORDER NO. R6T-2022-(PROPOSED)

Site Investigation, Monitoring Well Installation, and Vapor Intrusion Investigation Reporting Requirements

i. A narrative description of work performed, and information obtained.

ii. Boring logs, monitoring and soil vapor well construction summaries (if applicable), well survey data, and analytical data.

iii. Site map(s) showing the location of all borings (i.e., soil sampling points and depth discrete groundwater sampling points), and Site monitoring wells, sensitive receptors, and supply wells. All Figures must be drawn to scale, be in color, and label relevant features, such as roads, relevant property boundaries, etc. If appropriate, the site maps should also show the location of all identified preferential pathways (e.g., utility backfills) and vertical conduits relevant supply wells.

iv. Soil vapor isoconcentration map(s) showing all sampling locations and data points with boundary lines of chlorinated hydrocarbons drawn out to the relevant ESL. Question marks shall indicate areas where boundaries are unknown.

v. Groundwater isoconcentration map(s) showing all sampling locations and data points with boundary lines of chlorinated hydrocarbons in groundwater drawn out to 0.5 µg/L (i.e., the method detection limit representing natural background conditions). Question marks shall indicate areas where boundaries are unknown.

vi. Description of the geology and hydrogeology encountered within the investigation area footprint. Include geologic cross sections extending from the Site to the limits of groundwater sampling that show depth discrete groundwater sampling results.

vii. Depth of first encountered groundwater at all points sampled. State whether perched zones were encountered and the basis for this finding.

viii. Evaluation of COC transport along preferential pathways and/or vertical conduits and the basis for these conclusions.

ix. Description of data gaps identified during investigations and schedule for investigating and addressing data gaps.

ATTACHMENT E: MONITORING AND REPORTING PROGRAM FOR CLEANUP AND ABATEMENT ORDER NO. R6T-2022-(PROPOSED)

ATTACHMENT E: MONITORING AND REPORTING PROGRAM FOR CLEANUP AND ABATEMENT ORDER NO. R6T-2022-(PROPOSED)

This Monitoring and Reporting Program (MRP) is part of Cleanup and Abatement Order No. R6T-2022-(PROPOSED) (CAO). Failure to comply with this program constitutes noncompliance with the CAO and California Water Code, which can result in the imposition of civil monetary liability. All sampling and analyses shall be conducted in conformance with the SAP using USEPA-approved methods. The test methods chosen for detection of the constituents of concern shall be subject to review and concurrence by the Lahontan Water Board.

Laboratory analytical reports to be included in technical reports shall contain a complete list of chemical constituents, which are tested for and reported on by the testing laboratory. In addition, the reports shall include both the method detection limit and the practical quantification limit for the testing methods. All samples shall be analyzed within allowable holding time. All quality assurance/quality control (QA/QC) samples must be run on the same dates when samples were actually analyzed. Proper chain of custody procedures must be followed and a copy of the completed chain of custody form (with laboratory sample receipt logs) shall be submitted with the report. All analyses must be performed by a State Water Resources Control Board Division of Drinking Water accredited laboratory.

Groundwater Monitoring

The Dischargers shall collect groundwater samples from groundwater monitoring wells installed for the purpose of Site investigation and monitoring. Any monitoring wells installed in the future shall be added to the groundwater monitoring program and sampled quarterly unless the Dischargers propose and receive concurrence of changes to the sampling frequency. The top of casing and adjacent ground surface for each monitoring well shall be surveyed for location and elevation in conformance with GeoTracker requirements. The groundwater surface elevation (in feet above mean sea level [MSL]) in all monitoring wells shall be measured and used to determine the gradient and direction of groundwater flow.

The Dischargers shall also collect groundwater samples from threatened, impacted, and impaired active water supply wells for the purpose of evaluating human health risk and impacts to the beneficial use of groundwater. Sampling of these active water supply wells shall be conducted on a quarterly basis unless the Dischargers propose and receive concurrence of changes to the sampling frequency.

ATTACHMENT E: MONITORING AND REPORTING PROGRAM FOR CLEANUP AND ABATEMENT ORDER NO. R6T-2022-(PROPOSED)

The following shall constitute the monitoring program for groundwater.

Monitoring Parameters and Methods

Constituent	**EPA Method**
Volatile Organic Compounds (full scan)	EPA 8260B
Temperature	Field*
pH	Field*
Electrical Conductivity	Field*
Dissolved Oxygen	Field*
Oxidation-Reduction Potential (ORP)	Field*
Turbidity	Field*

* Field parameters shall be measured using appropriately calibrated instrumentation.

Remediation System(s) Performance Monitoring

Reports on remediation systems shall contain the following information regarding the site remediation systems:

1. Maps showing location of all remediation wells and groundwater monitoring wells, if applicable;
2. Status of each remediation system including amount of time operating and down time for maintenance and/or repair;
3. Air sparge well operating records including status of each well and volume and pressure of air being injected;
4. Soil vapor extraction well records including status of each well and photoionization detector (PID) readings of other acceptable methods of determining relative volatile concentrations taken at a minimum quarterly. Readings of volatile concentrations drawn from SVE wells need to be taken at a frequency that allows the efficient operation and evaluation of the SVE system;
5. In-Situ well operating records, including injection volume and pressure, of the amendment being introduced;
6. The report shall include documentation and manifest forms of waste generated during operation of the remedial system;
7. The report shall include copies of all required valid permits to construct and operate the remedial systems;
8. The report shall include tables summarizing the operating and performance parameters for the remediation systems; and
9. System inspection sheets shall document field activities conducted during each Site visit and shall be included in quarterly monitoring reports.

ATTACHMENT E: MONITORING AND REPORTING PROGRAM FOR CLEANUP AND ABATEMENT ORDER NO. R6T-2022-(PROPOSED)

Monitoring Frequencies

Specifications in this monitoring program are subject to periodic revisions. Monitoring requirements may be modified or revised by the Executive Officer based on review of monitoring data submitted pursuant to this Order. Monitoring frequencies may be adjusted or parameters and locations removed or added by the Executive Officer if Site conditions indicate that the changes are necessary.

Reporting Requirements

1. The Dischargers shall report all monitoring data and information as specified herein. Reports that do not comply with the required format will be REJECTED and the Dischargers shall be deemed to be in noncompliance with the Monitoring and Reporting Program.

   Quarterly groundwater monitoring reports shall be submitted to the Lahontan Water Board according to the schedule below.

Monitoring Period	Report Due
January – March	June 15
April – June	September 15
July – September	December 15
October – December	March 15

   Groundwater monitoring reports shall include contour maps showing groundwater elevations at the Site, the groundwater flow direction(s), and concentrations of the contaminants of concern. The quarterly groundwater monitoring reports shall include tables summarizing the historical depth-to-water, groundwater elevations, and historical analytical results for each monitoring well and active water supply well. The results of any monitoring done more frequently that required at the locations specified in the Monitoring and Reporting Program shall be reported to the Lahontan Water Board. Field monitoring well sampling sheets and well maintenance logs shall be completed for each monitoring well sampled and included in the report.

   Quarterly remediation progress reports shall be submitted to the Lahontan Water Board according to the schedule below.

Monitoring Period	Report Due
January – March	June 15
April – June	September 15
July – September	December 15
October – December	March 15

Remediation progress reports shall include an estimate of the cumulative mass of contaminant removed from the subsurface, system operating time, the effectiveness of the remediation system, any field notes pertaining to the operation and maintenance of the system (and remediation wells) and, if applicable, the reasons for and duration of all interruptions in the operation of any remediation system an actions planned or taken to correct and prevent interruptions.

2. In reporting the monitoring data, the Dischargers shall arrange the data in tabular form so that the date, the constituents, and the concentrations are readily discernible. The data shall be summarized to demonstrate compliance with the requirements. All data shall be submitted in electronic form in a form acceptable to the Lahontan Water Board.