CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM ORDER NO. R5-2021-0818

FOR

MORING STAR PACKING COMPANY, L.P.
THE MORNING STAR PACKING COMPANY – WILLIAMS FACILITY
COLUSA COUNTY

Issued by the Central Valley Regional Water Quality Control Board (Central Valley Water Board) pursuant to Water Code section 13267, subdivision (b)(1), this Order establishes a Monitoring and Reporting Program (MRP) for the composting operation for the Morning Star Packing Company, L.P. (Discharger). The Discharger owns the property where the composting operations occur and is responsible for implementing this MRP. The MRP may be separately revised by the Executive Office, in accordance with their delegated authority under Water Code section 13223.

A glossary of terms used in this MRP is included on the last page.

LEGAL AUTHORITY

Water Code section 13267 states, in part:

> "In conducting an investigation specified in subdivision (a), 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, or any citizen or domiciliary, or political agency or entity of this state who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge, waste outside of its region that could affect the quality of waters 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."

Water Code section 13268 states, in part:

> "(a) Any person failing or refusing to furnish technical or monitoring program reports as required by subdivision (b) of section 13267, or failing or refusing to furnish a statement of compliance as required by subdivision (b) of section 13399.2, or falsifying any information provided therein, is guilty of a misdemeanor and may be liable civilly in accordance with subdivision (b).

(b)(1) Civil liability may be administratively imposed by a regional board in accordance with article 2.5 (commencing with section 13323) of chapter 5 for a violation of subdivision (a) in an amount which shall not exceed one thousand dollars ($1,000) for each day in which the violation occurs."

REQUIREMENTS

Pursuant to Water Code section 13267, the Discharger shall implement this MRP and shall submit the monitoring reports described herein.

All samples shall be representative of the volume and nature of the discharge or matrix of material sampled. The name of the sampler, sample type (grab or composite), time, date, location, bottle type, and any preservative used for each sample shall be recorded on the sample chain of custody form. The chain of custody form must also contain all custody information including date, time, and to whom samples were relinquished. All samples shall be representative of the volume and nature of the discharge or matrix of material sampled. Except as specified otherwise in this MRP, grab samples will be considered representative of water, wastewater, soil, solids/sludges, and groundwater.

The Discharger has an existing MRP (Order No. R5-2019-0013) that requires monitoring of the tomato process wastewater treatment system and land application areas. This MRP (Order No. R5-2021-0818) pertains only to the composting operations. To avoid duplicate sampling and reporting, any data collected under MRP Order No. R5-2019-0013 can be included in the monitoring reports required by this Order if the data and information meet the requirements of this MRP.

The time, date, and location of each sample shall be recorded on the sample chain of custody form. All analyses shall be performed in accordance with the *Standard Provisions and Reporting Requirements for Waste Discharge Requirements*, 1 March 1991 ed. (SPRRs) (attached). Field test instruments (such as those used to measure pH, electrical conductivity, dissolved oxygen, wind speed, and precipitation) may be used provided that:

1. The operator is trained in proper use and maintenance of the instruments.
2. The instruments are field calibrated at the frequency recommended by the manufacturer.
3. The instruments are serviced and/or calibrated at the manufacturer's recommended frequency.
4. Field calibration reports are submitted as described in the "Reporting" section of the MRP.

Laboratory analytical procedures shall comply with the methods and holding times specified in the following (as applicable to the medium to be analyzed):

1. Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater (EPA).
2. Test Methods for Evaluating Solid Waste (EPA).
3. Methods for Chemical Analysis of Water and Wastes (EPA).
4. Methods for Determination of Inorganic Substances in Environmental Samples (EPA); Standard Methods for the Examination of Water and Wastewater (APHA/AWWA/WEF).
5. Soil, Plant, and Water Reference Methods for the Western Region (WREP 125).

Composting Area Inspections

At a minimum, the Discharger must inspect the composting area, when compost material is present, in accordance with the following schedule and record the observations as described below.

A. Operations Areas – Perform **weekly inspections** of the working surfaces, berms, ditches, facility perimeter, erosion control best management practices (BMPs), and any other operational surfaces. The Discharger shall include the following observations in the **Quarterly Monitoring Report**:

   1. Date and time of inspections, along with the name of the inspector;

   2. Evidence of ponding over the working surfaces and within ditches;

   3. Effectiveness of erosion control;

   4. Maintenance activities associated with, but not limited to, the working surfaces, berms, ditches, and erosion control measures;

   6. Evidence of any water or wastewater leaving or entering the composting area, estimated size of affected area, and estimated flow rate (show affected area on a map);

   7. Integrity of drainage systems during the wet season;

   8. Photographs of observed and corrected deficiencies;

   9. Presence of objectionable odors from the composting area that have the potential to be objectionable at or beyond the facility boundary as defined in WDRs Order No. R5-2019-0013; and

   10. Precipitation data shall be recorded **daily** in inches. Data obtained from the nearest National Weather Service rain gauge is acceptable.

Wastewater Flow Monitoring

Wastewater flow volumes from the compost area will either be measured using a flow meter or calculated based on pumping rates. The method used to determine volumes will be documented in the Quarterly Monitoring Reports.

When compost material is present, the Discharger shall monitor wastewater flows discharged from the compost area to the wastewater conveyance ditches. Flow volumes will be measured or calculated on a **daily basis** and reported in the Quarterly Monitoring Reports.

Wastewater Monitoring

When wastewater is present in the composting drainage ditch, prior to discharging to the wastewater conveyance channel, the Discharger shall collect a wastewater sample from the location shown on Attachment B. If the drainage ditches are dry and a sample cannot be collected, the monitoring reports so shall state. All samples collected shall be representative of the volume and nature of the wastewater. Standard minerals shall include, at a minimum, chloride, sodium, dissolved iron (filtered with a 0.45-micron filter), and dissolved manganese (filtered with a 0.45-micron filter).

Table 1. Wastewater Monitoring

Constituents/Parameters	Units	Sample Type	Sampling Frequency	Reporting Frequency
Electrical Conductivity	µmhos/cm	Grab	Weekly	Quarterly
BOD5 (5-day, 20º Celsius)	mg/L	Grab	Weekly	Quarterly
Total Nitrogen	mg/L	Grab	Weekly	Quarterly
TKN	mg/L	Grab	Weekly	Quarterly
Nitrate as Nitrogen	mg/L	Grab	Weekly	Quarterly
Fixed Dissolved Solids	mg/L	Grab	Weekly	Quarterly
Standard Minerals	mg/L	Grab	Weekly	Quarterly

Groundwater Monitoring

The groundwater monitoring program included in this Order applies to MW-7 and MW-16 and any wells subsequently installed to monitor groundwater associated with the composting operations. Monitoring wells shall be installed under approval of the Central Valley Water Board. Standard minerals shall include, at a minimum, chloride, sodium, dissolved iron (filtered with a 0.45-micron filter), and dissolved manganese (filtered with a 0.45-micron filter).

Table 2. Groundwater Monitoring

Constituents/Parameters	Units	Sample Type	Sampling and Reporting Frequency
Depth to Groundwater	0.01 feet	Measurement	Quarterly
Groundwater Elevation	Feet	Calculated	Quarterly
Gradient Direction	Degrees	Calculated	Quarterly
pH	pH units	Grab	Quarterly
Electrical Conductivity	µmhos/cm	Grab	Quarterly
TDS	mg/L	Grab	Quarterly
Total Nitrogen	mg/L	Grab	Quarterly
TKN	mg/L	Grab	Quarterly
Nitrate as Nitrogen	mg/L	Grab	Quarterly
Standard Minerals	mg/L	Grab	Quarterly

REPORTING

All regulatory documents, submissions, materials, data, monitoring reports, and correspondence should be converted to a searchable Portable Document Format (PDF) and submitted electronically. Documents that are less than 50MB should be emailed to centralvalleysacramento@waterboards.ca.gov.

Documents that are 50 MB or larger should be transferred to a CD, DVD, or flash drive and mailed to the following address:

Central Valley Regional Water Quality Control Board
ECM Mailroom
11020 Sun Center Drive, Suite 200
Rancho Cordova, California 95670

To ensure that your submittals are routed to the appropriate staff, the following information block should be included in any correspondence used to transmit documents to this office:

Attention: Non-15 Compliance and Enforcement Section
Morning Star Packing Company – Williams Facility
Colusa County
CIWQS Place ID: 272617

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, sample type (e.g., wastewater, groundwater, etc.), and reported analytical result for each sample are readily discernible. The data shall be summarized in such a manner to clearly illustrate compliance with waste discharge requirements and spatial or temporal trends, as applicable. The results of any monitoring done more frequently than

required at the locations specified in the MRP shall be reported to the Central Valley Water Board.

As required by the Business and Professions Code sections 6735, 7835, and 7835.1, all Groundwater Monitoring Reports shall be prepared under the direct supervision of a Registered Professional Engineer or Professional Geologist and signed by the registered professional.

A. Quarterly Monitoring Reports

Daily, weekly, and monthly monitoring data shall be reported in the quarterly monitoring report. Quarterly reports shall be submitted to the Central Valley Water Board on the **1st day of the second month following the quarter** (i.e. the January - March quarterly report is due by 1 May). At a minimum, the report shall include:

1. Results of composting area inspections.

2. Results of wastewater flow monitoring.

3. Results of wastewater quality monitoring in tabular format.

4. Results of groundwater monitoring in tabular format.

5. Copies of the laboratory analytical data reports shall be maintained by the Discharger and submitted to the Central Valley Water Board.

B. Fourth Quarter Monitoring Reports

The fourth quarter Monitoring Report shall contain, in addition to the requirements listed above, the following:

Flow Monitoring

1. The total annual flow discharged from the composting area to the wastewater conveyance system. A discussion on whether or not the additional flow from the compost area will cause an exceedance of the flow limitation in WDRs Order No. R5-2019-0013.

Wastewater Monitoring

1. A summary table presenting all wastewater quality data collected from the compost area.

2. An evaluation of the compost wastewater quality and its impact on the quality of wastewater from the tomato processing. The evaluation shall include a

comparison between the effluent quality that is regulated under WDRs Order No. R5-2019-0013 and effluent quality from composting.

Groundwater Monitoring

1. A narrative description of all preparatory, monitoring, sampling, handling, and analytical testing for groundwater monitoring.
2. A field log for each well documenting depth to groundwater; method of purging, parameters measured before, during, and after purging; sample preparation (e.g., filtering); and sample preservation.
3. Summary data tables of historical and current water table elevations and analytical results, comparison with previous flow direction and gradient data, and discussion of seasonal trends if any.
4. An evaluation of the groundwater quality beneath the composting area.

Additional Reporting

1. Monitoring equipment maintenance and calibration records, as described in Section C.4 of the SPRRs, shall be maintained by the Discharger and provided upon request by the Central Valley Water Board.

2. A discussion of the following:
   a. Other treatment or control measures implemented during the calendar year either voluntarily or pursuant to this MRP.
   b. Based on monitoring data, an evaluation of the effectiveness of the treatment or control measures implemented to date.
   c. A discussion of any data gaps and potential deficiencies/redundancies in the monitoring network or reporting program.

A letter transmitting the self-monitoring reports shall accompany each report. The letter shall include a discussion of requirement violations found during the reporting period, and actions taken or planned for correcting noted violations, such as operation or Facility modifications. If the submitting Discharger has previously submitted a report describing corrective actions and/or a time schedule for implementing the corrective actions, reference to the previous correspondence will be satisfactory. The transmittal letter shall contain the penalty of perjury statement by the submitting Discharger, or its authorized agent, as described in the Section B.3 of the SPRRs (General Reporting Requirements).

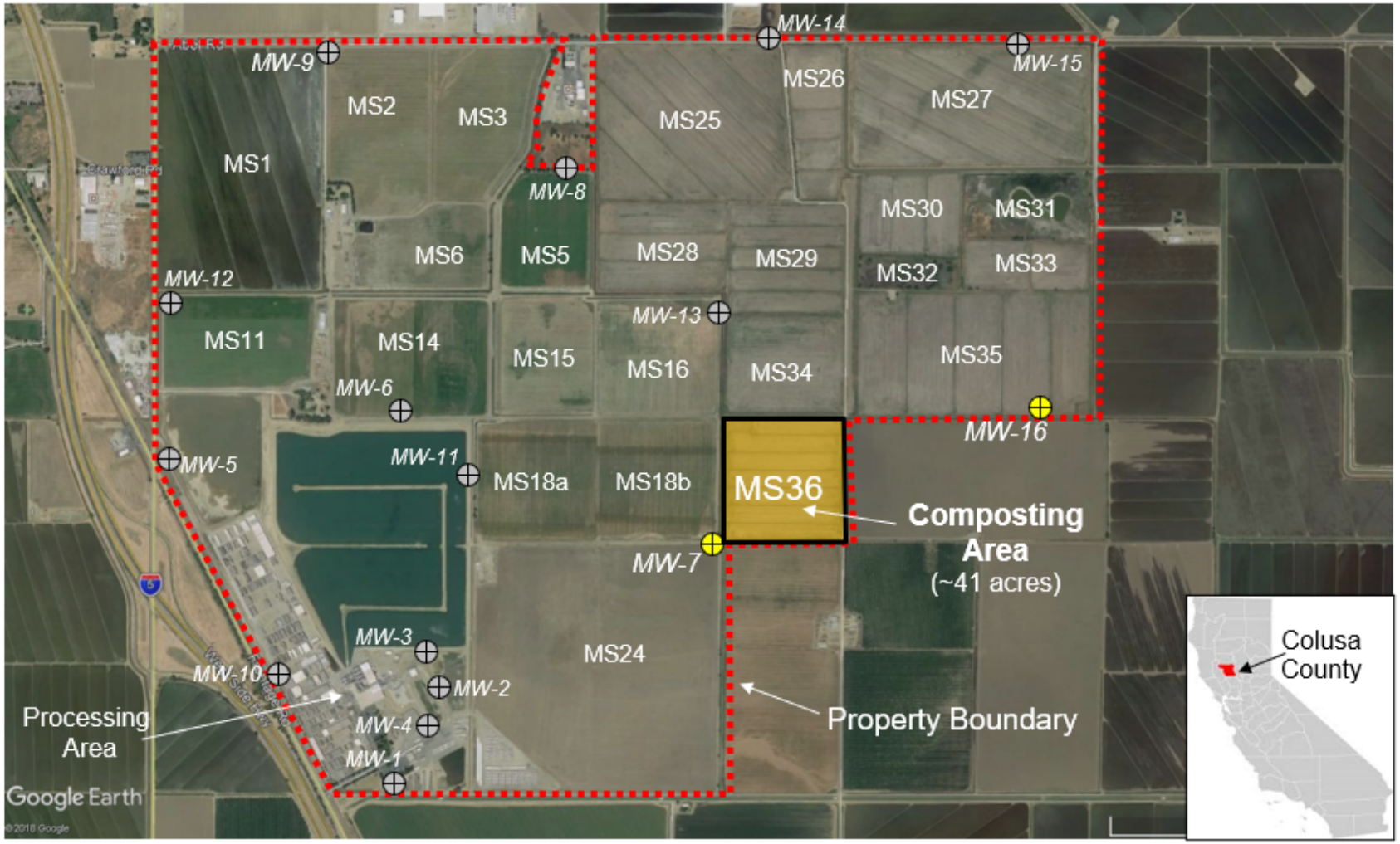
This Order is issued under authority delegated to the Executive Officer by the Central Valley Water Board pursuant to Resolution R5-2018-0057 and is effective upon signature.

Ordered by: Original Digitally Signed By: John J. Baum on
Date: 2021.12.17 12:49:31 -08’00’

For PATRICK PULUPA, Executive Officer

Glossary

BOD_5	Five-day biochemical oxygen demand
EC	Electrical conductivity at 25° C
FDS	Fixed dissolved solids
Daily	Every day except weekends or holidays
Weekly	Once per week
Monthly	Once per calendar month
Quarterly	Once per calendar quarter
Annually	Once per year
µmhos/cm	Micromhos per centimeter
mg/L	milligrams per liter
gpd	Gallons per day
mgd	Million gallons per day
MRP	Monitoring and Reporting Program
SPRR	Standard Provisions and Reporting Requirements
TKN	Total Kjeldahl nitrogen
WDR	Waste Discharge Requirement
TDS	Total dissolved solids



Legend

⊕ Groundwater Monitoring Well

Property Boundary

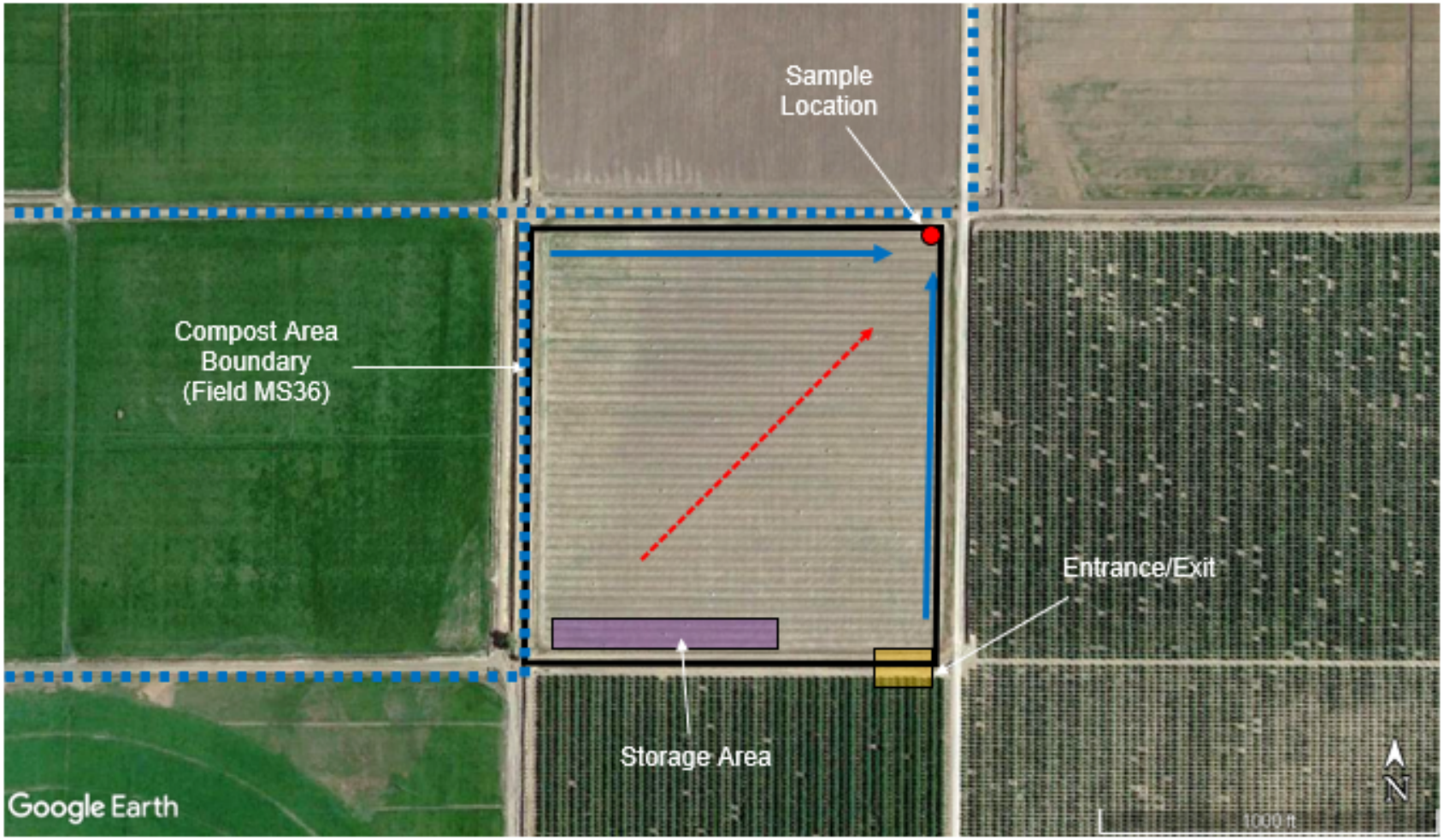
Note: All locations are approximate.

N W E S

~ 3,000 feet

SITE LOCATION MAP

MORNING STAR PACKING COMPANY, LP.
MORNING STAR PACKING COMPANY – WILLIAMS
COLUSA COUNTY



Legend

- Site Gradient
- Compost Area Drainage Ditches
- Facility Wastewater Conveyance Ditches (regulated under WDRs Order No. R5-2019-0013)

N W E S

500 feet

SITE FEATURES MAP

MORNING STAR PACKING COMPANY, L.P.

MORNING STAR PACKING COMPANY – WILLIAMS FACILITY

COLUSA COUNTY