CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM R5-2023-0045

FOR
TEICHERT LAND COMPANY
MARYSVILLE PLANT
YUBA COUNTY

This Monitoring and Reporting Program (MRP) for the Teichert Land Company (Discharger) is issued pursuant to Water Code section 13267. A glossary of terms used in this MRP is included on the last page.

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, and solids/sludges.

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). 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); and
5. Soil, Plant and Water Reference Methods for the Western Region (WREP 125).

Approved editions shall be those that are approved for use by the U.S. Environmental Protection Agency or the State Water Resources Control Board's Environmental Laboratory Accreditation Program (ELAP). The Discharger may propose alternative methods for approval by the Executive Officer. Where technically feasible, laboratory reporting limits shall be lower than concentrations that implement applicable water quality objectives/limits for the constituents to be analyzed.

Wastewater Effluent Monitoring

Wastewater samples shall be collected from the active Settling/Recycling Pond, as shown on Attachment B to WDRs Order R5-2023-0045, and shall be representative of wastewater quality. Sampling is only required when wastewater is present in the pond. If wastewater is not present, the monitoring report so shall state. Wastewater monitoring shall include the following:

Table 1. Wastewater Monitoring

Constituents	Units	Sample Type	Sample Frequency	Reporting Frequency
Electrical Conductivity	µmhos/cm	Grab	Quarterly	Annually
Total Mercury (see table note)	µg/L	Grab	Annually	Annually

Note: Samples collected for mercury analysis shall be filtered using a 0.45-micron filter.

Pond Monitoring

The Discharger shall monitor the Settling/Recycling Pond and Blue Water Pond (and any other future discharge ponds) when water is present in accordance with the following. Monitoring shall be conducted from permanent locations that will provide reasonable observations of the ponds. Freeboard shall be measured vertically from the water surface to the lowest elevation of pond berms (or spillway/overflow pipe invert) and shall be measured to the nearest 0.10 feet. If any pond is dry, the monitoring report shall so state. Pond monitoring shall include, at a minimum, the following:

Table 2. Pond Monitoring

Constituent/ Parameter	Units	Sample Type	Monitoring Frequency	Reporting Frequency
Presence/Absence of Water	--	Observation	Weekly	Annually
Freeboard	0.1 feet	Measurement	Weekly	Annually
Berm Conditions	--	Observation	Weekly	Annually
Presence/Absence of vegetation	--	Observation	Weekly	Annually

Groundwater Monitoring

The Discharger shall maintain the groundwater monitoring well network. If a groundwater monitoring well is dry for more than four consecutive sampling events or is damaged, the Discharger shall submit to the Central Valley Water Board a workplan and proposed time schedule for its replacement, and the well shall be replaced following approval of the workplan. Alternatively, the Discharger shall submit a report explaining why a replacement well is not necessary.

Prior to construction of any additional groundwater monitoring wells, the Discharger shall submit plans and specifications to the Central Valley Water Board for review and approval. Once installed, all new monitoring wells shall be appropriately incorporated into monitoring conducted under this MRP and shall be monitored on a quarterly basis. The groundwater monitoring program applies to groundwater monitoring wells A through J and any wells subsequently installed under approval of the Central Valley Water Board.

Prior to sampling, depth to groundwater measurements shall be measured in each monitoring well to the nearest 0.01 feet. Groundwater elevations shall then be calculated to determine groundwater gradient and flow direction. Samples shall be collected and analyzed using standard EPA methods. Groundwater monitoring shall include, at a minimum, the paraments and constituents listed in the table below. Groundwater elevation shall be determined based on depth-to-water measurements using a surveyed measuring point elevation on the well and a surveyed reference elevation. Samples shall be filtered with a 0.45-micron filter prior to sample preservation for standard mineral analysis and will include, at a minimum, dissolved iron, dissolved manganese, dissolved arsenic, total alkalinity (including alkalinity series), hardness, chloride, sodium, and potassium.

Table 3. Groundwater Monitoring

Constituent/ Parameter	Units	Type of Sample	Sampling Frequency	Reporting Frequency
Depth to Groundwater	0.01 feet	Measurement	Semi-Annually	Annually
Groundwater Elevation	feet	Calculated	Semi-Annually	Annually
Gradient	feet/feet	Calculated	Semi-Annually	Annually
Gradient Direction	degrees	Calculated	Semi-Annually	Annually
pH	--	Grab	Semi-Annually	Annually
EC	µmhos/cm	Grab	Semi-Annually	Annually
TDS	mg/L	Grab	Semi-Annually	Annually

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:

County:	Yuba County
Facility:	Marysville Plant
Program:	Non-15 Compliance
Order Number:	R5-2023-0045
CIWQS Place ID:	239727

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, sample type (e.g., effluent, pond, 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.

A. Annual Monitoring Reports

Weekly and monthly monitoring data shall be reported in the Annual monitoring report. Annual reports shall be submitted to the Central Valley Water Board on the **1st day of the third month following the monitored year** (i.e., the 2023 report is due by 1 March). At a minimum, the report shall include:

1. Results of Wastewater Effluent Monitoring in tabular format for each quarter during the reporting period.

2. Results of Settling/Recycling Pond and Blue Water Pond (or any discharge ponds) in tabular format for each week.

3. Results of groundwater monitoring in tabular format.

4. A comparison of monitoring data, effluent limitations, and discharge specifications and an explanation of any violation of those requirements.

5. A narrative description of all preparatory, monitoring, sampling, handling, and analytical testing for groundwater monitoring.

6. 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.

7. 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.

8. An evaluation of the groundwater quality beneath the site and determination of compliance with **WDRs Order R5-2023-0045 and the Salt Control Program**.

9. A facility map that depicts the current excavation area and discharge pond locations.

10. A calibration log verifying calibration of all handheld monitoring instruments and devices used to comply with the prescribed monitoring program; and

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

B. Additional Reporting

1. A discussion of compliance and the corrective action taken, as well as any planned or proposed actions needed to bring the discharge into full compliance with the WDRs.

2. 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.

3. A discussion of the following:

   a. Waste constituent reduction efforts implemented in accordance with any required workplan;

   b. Other treatment or control measures implemented during the calendar year either voluntarily or pursuant to the WDRs, this MRP, or any other Order; and

   c. Based on monitoring data, an evaluation of the effectiveness of the treatment or control measures implemented to date.

4. 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 Section B.3 of the SPRRs (General Reporting Requirements).

I, PATRICK PULUPA, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of the Monitoring and Reporting Program issued by the California Regional Water Quality Control Board, Central Valley Region on 12 October 2023.

Date: 2023.10.26 09:21:47 -07'00'

PATRICK PULUPA, Executive Officer

GLOSSARY

EC	Electrical conductivity at 25° C
Weekly	Once per week
Quarterly	Once per quarter (i.e., four times a year)
Semiannually	Once every six calendar months (i.e., two times per year) during non-consecutive quarters
Annually	Once per year
µg/L	Micrograms per liter
µmhos/cm	Micromhos per centimeter