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ATTACHMENT E – MONITORING AND REPORTING PROGRAM (MRP)

NPDES regulations at 40 CFR 122.48 require that all permits specify monitoring and reporting requirements. CWC Sections 13267 and 13383 also authorize the Regional Board to require technical and monitoring reports. This MRP establishes monitoring and reporting requirements to implement the federal and California regulations.

I. GENERAL MONITORING PROVISIONS

A. Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring locations specified below and, unless otherwise specified, before the monitored flow joins or is diluted by any other waste stream, body of water, or substance. Monitoring locations shall not be changed without notification to and the approval of this Regional Board.

B. Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated, and maintained to ensure that accuracy of measurements is consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than ±10 percent from true discharge rates throughout the range of expected discharge volumes. Guidance in selection, installation, calibration and operation of acceptable flow measurement devices can be obtained from the following references:

1. *A Guide to Methods and Standards for the Measurement of Water Flow*, U.S. Department of Commerce, National Bureau of Standards, NBS Special Publication 421, May 1975, 96 pp. (Available from the U.S. Government Printing Office, Washington, D.C. 20402. Order by SD Catalog No. C13.10:421.)

2. *Water Measurement Manual*, U.S. Department of Interior, Bureau of Reclamation, Second Edition, Revised Reprint, 1974, 327 pp. (Available from the U.S. Government Printing Office, Washington D.C. 20402. Order by Catalog No. 172.19/2:W29/2, Stock No. S/N 24003-0027.)

3. *Flow Measurement in Open Channels and Closed Conduits*, U.S. Department of Commerce, National Bureau of Standards, NBS Special Publication 484, October 1977, 982 pp. (Available in paper copy or microfiche from National Technical Information Services (NTIS) Springfield, VA 22151. Order by NTIS No. PB-273 535/5ST.)

4. *NPDES Compliance Sampling Manual*, U.S. Environmental Protection Agency, Office of Water Enforcement, Publication MCD-51, 1977, 140 pp. (Available from the General Services Administration (8FFS), Centralized Mailing Lists Services, Building 41, Denver Federal Center, CO 80225.)

C. All analyses shall be performed in a laboratory certified to perform such analyses by the California Department of Health Services.

D. All monitoring instruments and devices used by the Discharger to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary to ensure their continued accuracy. All flow measurement devices shall be calibrated at least once per year to ensure continued accuracy of the devices.

E. Monitoring results, including noncompliance, shall be reported at intervals and in a manner specified in this MRP.

II. MONITORING LOCATIONS

The Discharger shall establish the following monitoring locations to demonstrate compliance with the effluent limitations, discharge specifications, and other requirements of this Order:

Discharge Point Name	Monitoring Location Name	Monitoring Location Description
001	M-001	Immediately upstream of the point of discharge where a representative effluent sample can be obtained.
Receiving Water	R-001U	50 feet upstream of the discharge, and if possible below the influence of other discharges within the Salinas Reclamation Canal
Receiving Water	R-001D	100 feet downstream of the discharge, and if possible above the influence of other discharges within the Salinas Reclamation Canal

III. EFFLUENT MONITORING REQUIREMENTS

The Discharger shall monitor treated wastewaters at Monitoring Location M-001 as follows.

Constituent	Units	Sample Type	Minimum Sampling and Analysis Frequency
Average Daily Flow	gpd	estimated	Monthly
Settleable Solids	mL/L/hr	grab	Monthly
BOD_5	mg/L	grab	Monthly (May – Oct.)
Suspended Solids	mg/L	grab	Monthly (May – Oct.)
Temperature	^0F	grab	Monthly (May – Oct.)
Dissolved Oxygen	mg/L	grab	Monthly (May – Oct.)
pH	pH units	grab	Monthly (May – Oct.)
Total Dissolved Solids (TDS)	mg/L	grab	Semiannually (June and Sept.)
Boron	mg/L	grab	Semiannually (June and Sept.)
Chloride	mg/L	grab	Semiannually (June and Sept.)
Sodium	mg/L	grab	Semiannually (June and Sept.)
Sulfate	mg/L	grab	Semiannually (June and Sept.)
Total Nitrogen (as N)	mg/L	grab	Semiannually (June and Sept.)
Nitrate (as N)	mg/L	grab	Semiannually (June and Sept.)
Acute Toxicity [1]	TU_A	grab	Once during the term of the permit (June 2009)
Priority Pollutant Scan [2]	µg/L	grab	Once during the term of the permit (June 2009)

[1] Acute toxicity tests measure effects on survival over a 24 to 96 hour period using a concentration-response relationship. For this discharge, the presence of acute toxicity, defined as significantly reduced survival of test organisms at 100 percent effluent compared to a control using a statistical t-test, shall trigger the Effluent Toxicity Provisions of Waste Discharge Requirements Order No. R3-2005-0046. Acute toxicity shall be measured one time in the first two years following adoption of Order No. R3-2005-0046 and shall be performed in accordance with the procedures of *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Fresh Water and Marine Organisms, 5th Edition, EPA-R-02-012 (2002)*.

[2] The priority pollutants are those addressed by the California Toxics Rule at 40 CFR 131.38. Effluent samples shall be collected simultaneously with receiving water samples, as specified below, and shall be analyzed in accordance with 40 CFR 136 (*Guidelines Establishing Test Procedures for the Analysis of Pollutants*) and the SIP. Samples shall be collected and analyzed during an operating period one time during the term of Order No. R3-2005-0046 and within the 18 month period before the expiration date of the Order.

IV. RECEIVING WATER MONITORING REQUIREMENTS

A. Salinas Reclamation Canal

The Discharger shall monitor receiving water at monitoring Stations R-001U and R-001D as follows.

Constituent/Parameter	Monitoring Station	Units	Sample Type	Minimum Sampling & Analyzing Frequency
Dissolved Oxygen	R-001U and R-001D	mg/L	metered	Semiannually [1]
Temperature	R-001U and R-001D	^{o}F	grab	Semiannually [1]
pH	R-001U and R-001D	pH Units	grab	Semiannually [1]
Turbidity	R-001U and R-001D	NTU	grab	Semiannually [1]
Total Dissolved Solids	R-001U and R-001D	mg/L	grab	Semiannually [1]
Nitrate (as N)	R-001U and R-001D	mg/L	grab	Semiannually [1]
Total Nitrogen (as N)	R-001U and R-001D	mg/L	grab	Semiannually [1]
Priority Pollutant Scan [2]	R-001U	µg/L	grab	Once during the term of the permit

[1] Monitoring shall be performed two times per year, during operating periods in June and September.

[2] The priority pollutants are those addressed by the California Toxics Rule at 40 CFR 131.38. Receiving water samples shall be collected simultaneously with effluent samples as specified above, and shall be analyzed in accordance with 40 CFR 136 (*Guidelines Establishing Test Procedures for the Analysis of Pollutants*) and the SIP. Samples shall be collected and analyzed during an operating period one time during the term of Order No. R3-2005-0046 and within the 18 month period before the expiration date of the Order.

B. Receiving Water Log

During receiving water sampling, a log shall be kept of receiving water conditions and observations and submitted with monitoring reports. At a minimum, observations of the following shall be recorded: floating or suspended matter; discoloration; foaming; aquatic life; bottom deposits; and, odors.

V. WHOLE EFFLUENT TOXICITY MONITORING REQUIREMENTS

Acute toxicity testing shall be performed using U.S. EPA Method 2001.0 (fathead minnow) in accordance with procedures described by *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms*, Fifth Edition, U.S. EPA Office of Water, EPA-821-R-02-012 (2002) or the latest edition.

The presence of acute toxicity is identified by significantly reduced survival of test organisms in 100 percent effluent compared to a control sample as determined by a t-test.

When toxicity monitoring finds acute toxicity in the effluent above the limitation established by Order No. R3-2005-0046, the Discharger shall immediately resample the effluent and retest for acute toxicity. Results of the initial failed test and any monitoring results subsequent to the failed test shall be reported as soon as reasonable to the Executive Officer (EO). The EO will determine whether to initiate enforcement action, whether to require the Discharger to implement toxicity reduction evaluation (TRE) requirements, or to implement other measures.

VI. REPORTING REQUIREMENTS

A. General Monitoring and Reporting Requirements

The Discharger shall comply with all Standard Provisions (Attachment D) related to monitoring, reporting, and recordkeeping.

B. Self Monitoring Reports

1. The Discharger shall submit quarterly Self Monitoring Reports, which include the results of all required monitoring and results of all additional monitoring conducted using U.S. EPA approved test methods or methods specified in this Order. Quarterly reports shall be due on January 20, April 20, July 20, and October 20 following each calendar quarter. The Discharger shall also submit an Annual report by January 20 of each year containing both tabular and graphical summaries of the monitoring data generated during the previous year. The Annual Report can be combined with the fourth quarter report, which is due at the same time.

2. Monitoring periods for all required monitoring shall adhere to the following schedule.

Monitoring Period	Quarterly SMR Submittal Date
January 1 – March 31	April 30
April 1 – June 30	July 30
July 1 – September 30	October 30
October 1 – December 31	January 30

3. The Discharger shall report with each sample result the applicable Minimum Level (ML) and the laboratory's current Method Detection Limit (MDL) as determined by the procedure in 40 CFR 136.

4. The Discharger shall arrange all reported data in tabular form so that the specified information is readily discernible. The data shall be summarized in such a manner as to clearly illustrate whether the facility is operating in compliance with waste discharge requirements.

5 The Discharger shall attach a cover letter to its Self Monitoring Report. The information contained in the cover letter shall clearly identify violations of the WDRs, discuss corrective actions taken or planned, and the proposed time schedule of corrective actions. Identified violations should include a description of the requirement that was violated and a description of the violation.

6. Monitoring results shall be reported on forms approved by this Regional Board. Duplicate copies of the monitoring reports, signed and certified as required by the standard provisions (Attachment D) must be submitted to the address listed below:

Submit monitoring reports to:
State Water Resources Control Board
Discharge Monitoring Report Processing Center
Post Office Box 671
Sacramento, CA 95812

7. If no discharge occurs during the quarterly monitoring period, a statement to that effect may be sent in lieu of the Quarterly Report.

8. Quarterly Self Monitoring Reports shall include:

- All data required by this MRP for the corresponding monitoring period, including appropriate calculations to verify compliance with effluent limitations.
- A discussion of any incident of non-compliance and corrective actions taken.

9. All monitoring shall be conducted according to test procedures established at 40 CFR 136, *Guidelines Establishing Test Procedures for Analysis of Pollutants*. All analyses shall be conducted using the lowest practical quantitation limit achievable using the specified methodology. Where effluent limitations are set below the lowest achievable quantitation limits, constituents not detected at the lowest practical quantitation limits will be considered in compliance with effluent limitations.

10. Monitoring requirements of this MRP will be continuously evaluated, and this MRP may be revised at any time during the permit term, as necessary, following collection and review of monitoring data.