

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM NO.

FOR

UNIVERSITY OF CALIFORNIA DAVIS CAMPUS  
J. AMOROCHO HYDRAULICS LABORATORY  
YOLO COUNTY

This Monitoring and Reporting Program (MRP) describes requirements for monitoring influent source water, effluent wastewater, and disposal areas. This MRP is issued pursuant to Water Code Section 13267. The Discharger shall not implement any changes to this MRP unless and until a revised MRP is issued by the Executive Officer. This MRP is effective upon date of signature.

All samples shall be representative of the volume and nature of the discharge or matrix of material sampled. The time, date, and location of each grab sample shall be recorded on the sample chain of custody form. Field test instruments (such as those used to measure dissolved oxygen) may be used provided that:

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

INFLUENT MONITORING

Influent flow monitoring shall be performed on the groundwater or tap water used for experimentation. Influent monitoring shall include at least the following:

Parameter	Units	Type of Sample	Monitoring Frequency <sup>1</sup>	Reporting Frequency
Volume	gallons	Estimation	Per batch	Annually
Specific Conductivity	µmhos/cm	Grab	Per batch	Annually

<sup>1</sup> Experiments are conducted in a batch protocol, thus monitoring frequency maybe more than once per day or less than once per month. However, if experiments require continuous source water usage, the monitoring frequency shall at least be monthly (consider 'continuous' to be source water flow exceeding 28 consecutive days).

EFFLUENT MONITORING

Effluent samples shall be collected prior to the discharge to the disposal areas and shall be representative of the volume and nature of the discharge. Sampling need only occur once per discharge event, per specific process stream. For example one sample from each adequately mixed tank or flume being drained. Effluent monitoring shall include at least the following:

Parameter	Units	Type of Sample	Monitoring Frequency <sup>1</sup>	Reporting Frequency
Discharge Volume	gallons	Estimation	Per discharge	Annually
Specific Conductivity	µmhos/cm	Grab	Per discharge	Annually
Dissolved Oxygen	mg/L	Grab	Per discharge	Annually

<sup>1</sup> Experiments are conducted in a batch protocol, thus monitoring frequency maybe more than once per day or less than once per month. However, if experiments require continuous discharge, the monitoring frequency shall at least be monthly (consider 'continuous' to be discharge flow exceeding 28 consecutive days).

### RETENTION BASIN AND/OR NORTH FORK MONITORING

The retention basin and north fork shall be inspected following a discharge event to identify any equipment malfunction or other circumstance that might allow the effluent to runoff the disposal area and/or create conditions that violate the Waste Discharge Requirements. Evidence of erosion, saturation, runoff, or the presence of nuisance conditions shall be noted in the report. A written log of these inspections shall be kept at the facility and made available for review upon request. Monthly monitoring needs to occur only once a month and when effluent has been discharged to a disposal area. Disposal areas need to be monitored as specified below:

Parameter	Units	Type of Sample	Monitoring Frequency	Reporting Frequency
Dissolved Oxygen <sup>1</sup>	mg/L	Grab	Weekly <sup>2</sup>	Annually
pH <sup>1</sup>	--	Grab	Weekly <sup>2</sup>	Annually
Odors	--	Observation	Weekly <sup>2</sup>	Annually
Retention Basin and Putah Creek Levee condition	--	Observation	Monthly <sup>3</sup>	Annually

<sup>1</sup> Samples shall be collected at a depth of one foot from each pond in use, opposite the inlet. Samples shall be collected between 0700 and 0900 hours.

<sup>2</sup> Sampling is only necessary in the event that the discharge accumulates or ponds.

<sup>3</sup> The Retention Basin and Putah Creek Levee, at Levee Road and the north fork, shall be monitored monthly to note any reduction in holding capacity and any condition that may result in a violation of this Order.

### REPORTING

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, sample type (e.g., effluent, retention basin, north fork, 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 Monitoring and Reporting Program shall be reported to the Regional Water Board.

All reports shall comply with the California Business and Professions Code Sections 6735, 7835, and 7835.1.

All monitoring data shall be reported in annual monitoring reports. Annual reports shall be submitted to the Regional Water Board by 1 February each year. At a minimum, the report shall include:

1. Results of influent source water; effluent wastewater; and disposal area monitoring for each month of the year. Data shall be presented in a tabular format;
2. Tabular and graphical summaries of all data collected during the year;
3. A discussion of any data gaps and potential deficiencies/redundancies in the monitoring system or reporting program;
4. A discussion of compliance and the corrective action taken, and;
5. If requested by staff, copies of laboratory analytical report(s).

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 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 Discharger, or the Discharger's authorized agent, as described in the Standard Provisions General Reporting Requirements Section B.3.

The Discharger shall implement the above monitoring program as of the date of adoption of this Order.

Ordered by: \_\_\_\_\_  
PAMELA C. CREEDON, Executive Officer

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(Date)