

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

REVISED MONITORING AND REPORTING PROGRAM NO. 89-088

FOR

U.S. FOREST SERVICE, TAHOE NATIONAL FOREST
CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION
LOMA RICA ADMINISTRATIVE SITE
GRASS VALLEY AIR ATTACK BASE
NEVADA COUNTY

This Monitoring and Reporting Program (MRP) describes requirements for wastewater effluent, settling tank, and spray disposal area monitoring. 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. Regional Board staff shall approve specific sample station locations prior to implementation of sampling activities.

All samples should 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 test pH and dissolved oxygen) may be used provided that:

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

INFLUENT MONITORING

Influent monitoring shall be performed at the location where influent is discharged into the settling tanks. Influent monitoring shall include at least the following:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
Flow	gpd	Continuous Meter	Daily	Monthly

EFFLUENT MONITORING

Effluent samples shall be collected prior to discharge to the spray disposal area and shall be representative of the volume and nature of the discharge. Effluent monitoring shall include at least the following:

<u>Constituents</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency³</u>	<u>Reporting Frequency</u>
BOD ₅ ¹	mg/L	Grab	Monthly	Monthly
Total Dissolved Solids	mg/L	Grab	Monthly	Monthly
Nitrate as Nitrogen	mg/L	Grab	Monthly	Monthly
Total Kjeldahl Nitrogen	mg/L	Grab	Monthly	Monthly

<u>Constituents</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency³</u>	<u>Reporting Frequency</u>
Ammonia	mg/L	Grab	Monthly	Monthly
Phosphate	mg/L	Grab	Monthly	Monthly
Sulfate	mg/L	Grab	Monthly	Monthly
Standard Minerals ²	mg/L	Grab	Annually	Annually

¹ 5-day, 20°C Biochemical Oxygen Demand.

² Standard Minerals shall include the following: boron, calcium, iron, manganese, magnesium, potassium, sodium, chloride, total alkalinity (including alkalinity series), and hardness.

³ Samples do not need to be collected during the months when discharge does not occur; however, the monthly monitoring report shall clearly state that there was no discharge that month.

SETTLING TANK MONITORING

Samples shall be collected from an established sampling station located in an area that will provide a sample representative of the water in the wash water settling tanks. Freeboard shall be measured vertically from the surface of the settling tanks and shall be measured to the nearest 0.1 feet. Monitoring of the settling tanks shall include, at a minimum, the following:

<u>Constituents</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency⁵</u>	<u>Reporting Frequency</u>
Dissolved Oxygen ^{1,4}	mg/L	Grab	Weekly	Monthly
pH ⁴	pH units	Grab	Weekly	Monthly
Freeboard	0.1 feet	Measurement	Weekly	Monthly
Seepage ²	NA	Observation	Weekly	Monthly
Odors ³	--	Observation	Weekly	Monthly

¹ Samples shall be collected at a depth of one foot from the settling tank in use, opposite the inlet. Samples shall be collected between 0700 and 0900 hours.

² The settling tanks shall be observed for signs of seepage.

³ The presence of strong or unusual odors shall be reported.

⁴ Handheld meter may be used.

⁵ Samples do not need to be collected during the months when discharge does not occur; however, the monthly monitoring report shall clearly state that there was no discharge that month.

DISPOSAL AREA MONITORING

Monitoring of the spray disposal area shall be conducted **daily** during irrigation and the results shall be included in the monthly monitoring report. Evidence of erosion, saturation, irrigation runoff, or the presence of nuisance conditions shall be noted in the report. Effluent monitoring results shall be used in calculations to ascertain loading rates at the application area. Monitoring of the disposal area shall include the following:

<u>Constituents</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency⁴</u>	<u>Reporting Frequency</u>
Flow	Gallons	Meter	Daily	Monthly
Local Rainfall	Inches	Measurement	Daily	Monthly
Acreage Applied ¹	Acres	Calculated	Daily	Monthly
Application Rate ²	gal/acre/day	Calculated	Daily	Monthly
BOD ₅ Loading Rate ²	lbs/acre/day ³	Calculated	Monthly	Monthly
Total Nitrogen Loading Rate ²	lbs/acre/month ³	Calculated	Monthly	Monthly
Total Dissolved Solids Loading Rate ²	lbs/acre/month ³	Calculated	Monthly	Monthly

¹ Land application areas shall be identified.

² For each land application area.

³ Report monthly total and cumulative annual to date.

⁴ Samples do not need to be collected during the months when discharge does not occur; however, the monthly monitoring report shall clearly state that there was no discharge that month.

REPORTING

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, sample type (e.g., process wastewater effluent, 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 in the next scheduled monitoring report.

A. Monthly Monitoring Reports

Monthly reports shall be submitted to the Regional Board on the **1st day of the second month following sampling** (i.e. the January Report is due by 1 March). At a minimum, the reports shall include:

1. Results of influent, effluent, settling tank, and spray disposal area monitoring;
2. A comparison of monitoring data to the discharge specifications and an explanation of any violation of those requirements. Data shall be presented in tabular format;
3. If requested by staff, copies of laboratory analytical report(s); and
4. A calibration log verifying calibration of all hand held monitoring instruments and devices used to comply with the prescribed monitoring program.

B. Annual Report

An Annual Report shall be prepared as the December monthly monitoring report. The Annual Report will include all monitoring data required in the monthly schedule. The Annual Report shall be submitted to the Regional Board by **1 February** each year. In addition to the data normally presented, the Annual Report shall include the following:

1. If requested by staff, tabular and graphical summaries of all data collected during the year;
2. Results of the annual effluent monitoring;
3. A summary of maintenance and repairs activities which were performed on the effluent collection system;
4. A statement regarding whether the flow meter was calibrated during the year; and
5. A discussion of any compliance and the corrective actions taken, as well as any planned or proposed actions needed to bring the discharge into full compliance with the waste discharge requirements.

A letter transmitting the self-monitoring reports shall accompany each report. Such a 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 a statement by the discharger, or the discharger's authorized agent, under penalty of perjury, that to the best of the signer's knowledge the report is true, accurate and complete.

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

Ordered by: _____ Original Signed by _____
PAMELA C. CREEDON, Executive Officer

3/14/2006
(Date)