

EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIGUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

Central Valley Regional Water Quality Control Board

2 December 2014

WDID: 5A450117001

Bill Johnson
Fall River Mills Community Services District
24850 Third Street
Fall River Mills, CA 96028

NOTICE OF APPLICABILITY (NOA), WATER QUALITY ORDER 2014-0153-DWQ-R5177, FALL RIVER MILLS COMMUNITY SERVICES DISTRICT, SHASTA COUNTY

In March 2014 the Fall River Mills Community Services District (hereafter "Discharger") responded with information pertaining to the Central Valley Regional Water Board (Central Valley Water Board) staff's request for updated information for the domestic wastewater treatment and disposal system at their facility in Shasta County.

Based on the information provided, the facility treats and disposes of less than 100,000 gallons of wastewater per day, and is therefore eligible for coverage under the general and specific conditions of State Water Resources Control Board (State Water Board) Water Quality Order 2014-0153-DWQ *General Waste Discharge Requirements for Small Domestic Wastewater Treatment Systems* (General Order). This letter serves as formal notice that the General Order is applicable to your facility and the wastewater discharge described below. You are hereby assigned General Order 2014-0153-DWQ -R5177 for your facility.

You should familiarize yourself with the entire General Order and its attachments enclosed with this letter, which prescribes mandatory discharge and monitoring requirements. Sampling, monitoring, and reporting requirements that are applicable to your treatment and disposal methods must be completed in accordance with the sections of the General Order and the attached *Monitoring and Reporting Program* (MRP). This MRP was developed after consideration of your treatment system infrastructure and site conditions described in the attached *Technical Memorandum*.

REGULATORY BACKGROUND

Waste Discharge Requirements (WDRs) 94-048 were adopted for this facility by the Central Valley Water Board on 25 February 1994. The existing MRP requires monthly reporting of wastewater flow, dissolved oxygen, and pond water depth.

DISCHARGE DESCRIPTION

The Fall River Mills Community Services District operates the wastewater treatment facility located south of Fall River Mills near State Highway 299 in Section 30, Township 37 North, Range 5 East, MDB&M in Shasta County. The wastewater treatment system is comprised of a collection system with lift stations and six treatment ponds covering greater than 30 acres. The location is shown in an attachment enclosed with this letter.

KARL E. LONGLEY ScD, P.E., CHAIR | PAMELA C. CREEDON P.E., BCEE, EXECUTIVE OFFICER

364 Knollcrest Drive, Suite 205, Redding, CA 96002 | www.waterboards.ca.gov/centralvalley

FACILITY SPECIFIC REQUIREMENTS

The Discharger will maintain exclusive control over the discharge, and shall comply with the terms and conditions of this NOA and the General Order 2014-0153-DWQ-R5177, with all attachments. Additionally the General Order states in Section B.1.L that the discharger shall comply with the setbacks as described in Table 3. This table summarizes different setback requirements for wastewater system equipment, activities, land application areas, and storage and/or treatment ponds from sensitive receptors and property lines where applicable. The Discharger shall comply with the following applicable setback requirements as summarized in the following table.

Site Specific Applicable Setback Requirements					
Equipment or Activity	Domestic Well	Flowing Stream	Ephemeral Stream Drainage	Property Line	Lake or Reservoir
Wastewater Storage and/or Treatment Ponds					
Impoundment (undisinfected secondary recycled water)	150 feet ¹	NA	NA	20 feet ²	NA
¹ Setback established by California Code of Regulations, title 22, Section 60310(d). ² Initial set back requirement of 50 feet was waived in accordance with Section B.1, L. (v).					

Failure to comply with the requirements in the documents could result in an enforcement action as authorized by provisions of the California Water Code. Discharge of wastes other than those described in this NOA is prohibited. If the method of waste disposal changes from that described in this NOA, you must submit a new Report of Waste Discharge describing the new operation.

The required annual fee specified in the annual billing from the State Water Board shall be paid until this NOA is officially terminated. You must notify this office in writing if the discharge regulated by the General Order ceases, so that we may terminate coverage and avoid unnecessary billing.

The Central Valley Water Board has gone to a Paperless Office System. All regulatory documents, MRPs, 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: centralvalleyredding@waterboards.ca.gov. Documents that are 50MB or larger should be transferred to a disk and mailed to the appropriate Regional Water Board office, in this case 364 Knollcrest Drive, Suite 205, Redding, CA 96002. To ensure that your submittals are routed to the appropriate staff, the following information block should be included in any email used to transmit documents to this office: Program: Non-15, WDID: 5A450117001, Facility Name: Fall River Mills CSD, Order: 2014-0153-DWQ-R5177

Please note that WDRs Order No. 94-048 is proposed to be rescinded at the 4/5 December 2014 meeting of the Central Valley Water Board. Upon rescission of your individual WDRs, coverage for your facility under the General Order shall become applicable subject to this Notice of Applicability.

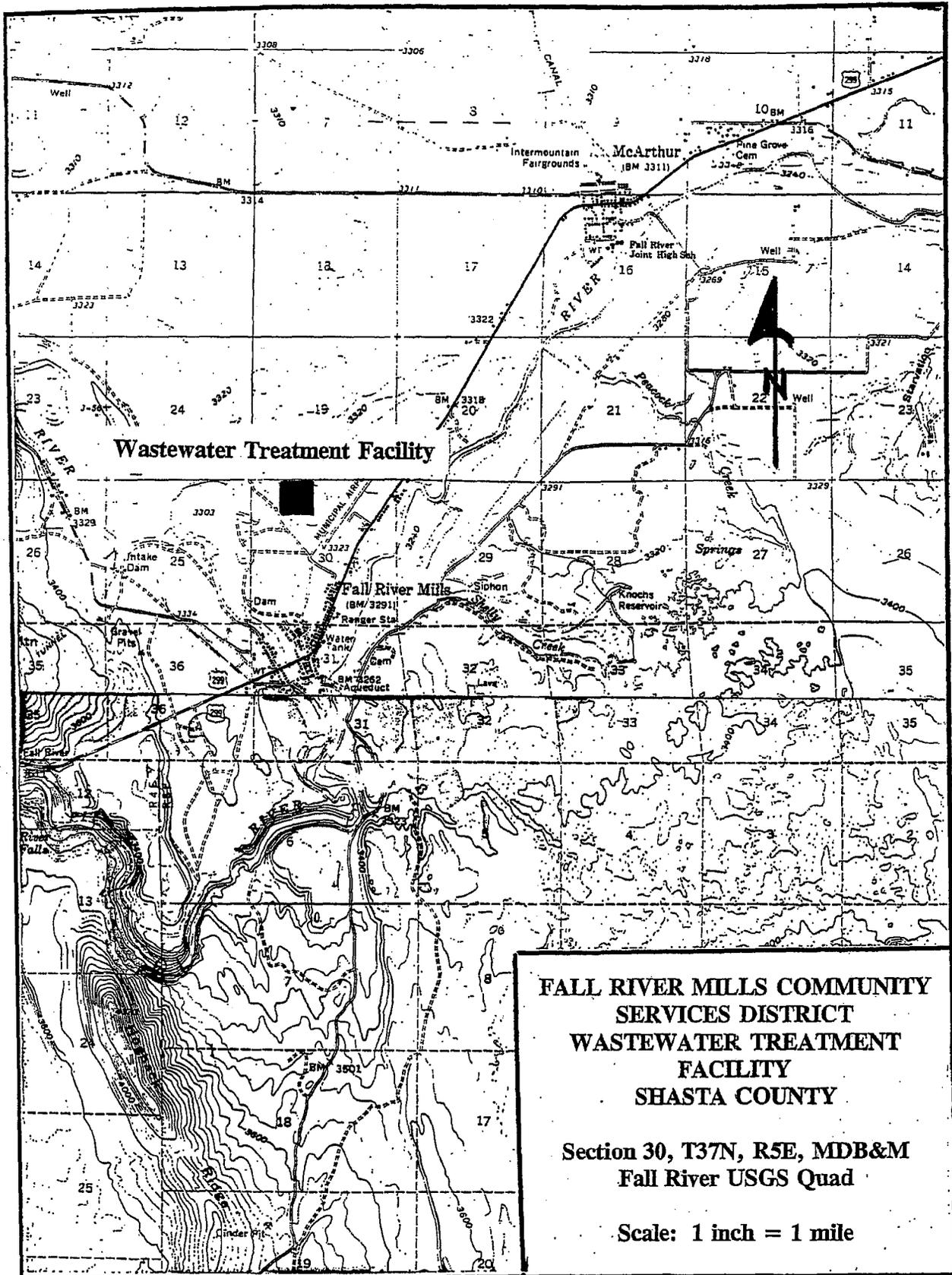
If you have any questions regarding submitting an updated report of waste discharge, making changes to your permitted operations, compliance or enforcement please contact George Low at (530) 224-3208, George.Low@waterboards.ca.gov, or the footer address.



for Pamela C. Creedon
Executive Officer

SJR: lm

Attachment: Fall River Mills Wastewater Treatment Facility Location Map
Technical Memorandum
Monitoring and Reporting Program
General Order No. 2014-0153-DWQ



Wastewater Treatment Facility

**FALL RIVER MILLS COMMUNITY
SERVICES DISTRICT
WASTEWATER TREATMENT
FACILITY
SHASTA COUNTY**

**Section 30, T37N, R5E, MDB&M
Fall River USGS Quad**

Scale: 1 inch = 1 mile

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM NO. 2014-0153-DWQ-R5177

FOR

FALL RIVER MILLS COMMUNITY SERVICES DISTRICT
SHASTA COUNTY

This Monitoring and Reporting Program (MRP) describes requirements for monitoring a wastewater treatment system. 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 Regional Water Quality Control Board (Regional Water Board) Executive Officer.

The State Water Resources Control Board (State Water Board) and Regional Water Boards are transitioning to the paperless office system. In some regions, Dischargers will be directed to submit reports (both technical and monitoring reports) to the State Water Board's GeoTracker database over the Internet in portable document format (pdf). In addition, analytical data shall be uploaded to the GeoTracker database under a site-specific global identification number. Information on the GeoTracker database is provided on the Internet at:

<http://www.waterboards.ca.gov/ust/electronic_submittal/index.shtml>

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.”

The Discharger owns and operates the wastewater system that is subject to the Notice of Applicability (NOA) of Water Quality Order 2014-0153-DWQ. The reports are necessary to ensure that the Discharger complies with the NOA and General Order. 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. If composite samples are collected, the basis for sampling (time or flow weighted) shall be approved by Regional Water Board staff.

Field test instruments (such as those used to test pH, dissolved oxygen, and electrical conductivity) may be used provided that they are used by a State Water Board California Environmental Laboratory Accreditation Program certified laboratory, or:

1. The user is trained in proper use and maintenance of the instruments;
2. The instruments are field calibrated prior to monitoring events at the frequency recommended by the manufacturer;
3. Instruments are serviced and/or calibrated by the manufacturer at the recommended frequency; and
4. Field calibration reports are maintained and available for at least three years.

POND SYSTEM MONITORING

Influent Monitoring

Influent samples shall be taken from a location that provides representative samples of the wastewater and flow rate. At a minimum, influent monitoring shall consist of the following:

<u>Constituent</u>	<u>Units</u>	<u>Sample Type</u>	<u>Sample Frequency</u>	<u>Reporting Frequency</u>
Flow Rate ^a	gpd	Meter	Continuous	Quarterly
gpd denotes gallons per day				
a. At a minimum, the total flow shall be measured monthly to calculate the average daily flow for the month.				

Wastewater Pond Monitoring

All wastewater and treated wastewater storage ponds (lined and unlined) shall be monitored as specified below:

<u>Constituent</u>	<u>Units</u>	<u>Sample Type</u>	<u>Sample Frequency</u>	<u>Reporting Frequency</u>
Dissolved Oxygen	mg/L	Grab	Monthly	Quarterly
Freeboard	0.1 feet	Measurement	Monthly	Quarterly
Odors	--	Observation	Monthly	Quarterly
Berm condition	--	Observation	Monthly	Quarterly

mg/L denotes milligrams per liter.

SOLIDS DISPOSAL MONITORING

The Discharger shall report the handling and disposal of all solids (e.g., screenings, grit, sludge, biosolids, etc.) generated at the wastewater system. Records shall include the name/contact information for the hauling company, the type and amount of waste transported, the date removed from the wastewater system, the disposal facility name and address, and copies of analytical data required by the entity accepting the waste. These records shall be submitted as part of the annual monitoring report.

REPORTING

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, sample type (e.g., effluent, solids, etc.), and reported analytical or visual inspection results are readily discernible. The data shall be summarized to clearly illustrate compliance with the General Order and NOA as applicable. The results of any monitoring done more frequently than required at the locations specified in the MRP shall be reported in the next regularly scheduled monitoring report and shall be included in calculations as appropriate.

During the life of this General Order, the State Water Board or Regional Water Board may require the Discharger to electronically submit monitoring reports using the State Water Board's California Integrated Water Quality System (CIWQS) program Internet web site or alternative database. Electronic submittal procedures will be provided when directed to begin electronic submittals. Until directed to electronically submit monitoring reports, the Discharger shall submit hard copy monitoring reports.

A. Quarterly Monitoring Reports

Quarterly reports shall be submitted to the Regional Water Board on the **first day of the second month after the quarter ends** (e.g. the January-March Quarterly Report is due by May 1st). The reports shall bear the certification and signature of the Discharger's authorized representative. At a minimum, the quarterly reports shall include:

1. Results of all required monitoring.

2. A comparison of monitoring data to the discharge specifications, applicable effluent limits, disclosure of any violations of the NOA and/or General Order, 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 chain of custody form(s).

B. Annual Report

Annual Reports shall be submitted to the Regional Water Board by **March 1st following the monitoring year**. The Annual Report shall include the following:

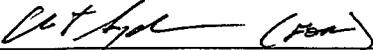
1. Tabular and graphical summaries of all monitoring data collected during the year.
2. An evaluation of the performance of the wastewater treatment facility, including discussion of capacity issues, nuisance conditions, system problems, and a forecast of the flows anticipated in the next year. A flow rate evaluation as described in the General Order (Provision E.2.c) shall also be submitted.
3. A discussion of compliance and the corrective action taken, as well as any planned or proposed actions needed to bring the discharge into compliance with the NOA and/or General Order.
4. A discussion of any data gaps and potential deficiencies/redundancies in the monitoring system or reporting program.
5. The name and contact information for the wastewater operator responsible for operation, maintenance, and system monitoring.

A letter transmitting the monitoring reports shall accompany each report. The letter shall report violations found during the reporting period, and actions taken or planned to correct the violations and prevent future violations. The transmittal letter shall contain the following penalty of perjury statement and shall be signed by the Discharger or the Discharger's authorized agent:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of the those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

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

Ordered by:



PAMELA C. CREEDON, Executive Officer



(Date)

**CENTRAL VALLEY REGIONAL WATER QUALITY CONTROL BOARD
GENERAL ORDER 2014-0153-DWQ MONITORING AND REPORTING PROGRAM**

Month/Year: _____

Discharger: **Fall River Mills CSD**

WDID: 5A450117001

System: Collection system, lift stations, evaporation/percolation ponds

Sampling Frequency: Monthly

Flow (gpd) : _____

Dissolved Oxygen: _____

Pond Freeboard Greater Than 2 ft (Y/N)? : _____

*Pond Conditions: _____

*Site condition description of any objectionable odors, burrowing animal activity, erosion, weeds, and algae.

Comments: _____

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

Signed _____

Date _____

Scan to PDF file and email to: centralvalleyredding@waterboards.ca.gov

Central Valley Regional Water Quality Control Board

TECHNICAL MEMORANDUM

TO: Bryan Smith, PE
Supervising Water Resource
Control Engineer

FROM: George Low, PG
Senior Engineering Geologist

Clint Snyder, PG
Assistant Executive Officer

DATE: 2 December 2014

SIGNATURE: 

SUBJECT: REVIEW OF NITRATE AND SETBACK CONDITIONS FOR FALL RIVER MILLS
COMMUNITY SERVICES DISTRICT, WDR ORDER NO. 94-048, SHASTA
COUNTY

Staff has reviewed the case file and a 26 November 2013 Inspection Report for Fall River Mills Community Services District (FRMCSD). The Report assesses the general condition of the wastewater evaporation/percolation ponds, and an inspection of all lift stations was also completed during the site visit. The Discharger has kept adequate maintenance documentation and all treatment and collection infrastructure appears in good order. The first wastewater treatment pond is aerated and dissolved oxygen levels are monitored. The flow then proceeds to five more evaporation/percolation ponds. Treatment pond expansion occurred in 2006, with two of the ponds relocated away from the airport runway.

The 2006 expansion included submittal of a Report of Waste Discharge (ROWD) that described the existing and future conditions of the treatment system. This ROWD was updated by FRMCSD in a letter submitted 18 February 2014. The average daily wastewater flow is 57,000 gallons per day, with a design flow of 72,000 gpd. The storage ponds have a design capacity of 99 acre-feet, which is well above the storage volume required by the existing community.

Potential Threats to Water Quality

The wastewater treatment system is located northwest of the main community of Fall River Mills. The closest distance from the wastewater ponds to the nearest property line is 20 feet to a PG&E easement. Although this distance is less than the 50 feet recommended by General Order 2014-0153-DWQ, the wastewater berm is in a condition that will protect adjacent properties from impact and the setback limits should be waived as described by Requirements Section B.1, L, (v). of the General Order. The closest potable water well and surface water sources are greater than 500 feet from the wastewater ponds. Depth to

groundwater directly under the ponds is unknown, but monitoring wells located 200 feet from the ponds indicate a static water depth of 65 feet. The ponds are designed as evaporation/percolation disposal; however, the 2005 ROWD included investigation of pond soils that indicated a percolation rate of 3×10^{-6} cm/s, which is well within the range of wastewater oxidation/evaporation ponds. Completion of the Nitrate Checklist in Attachment 1 of Order 2014-0153-DWQ indicates the following flow and rationale:

A1 Exceed 20,000 gpd? Yes.
Wastewater flow generally less than 57,000 gpd.

A2 Shallow Groundwater? No.
The percolation rate and groundwater depth compared to Table 5 is very low and the ponds are primarily designed and used as evaporation ponds.

A3 Excessive Perc Rate/Frac. Env.? No.
The pond area is primarily well drained Duden-Graven complex clay loam (USGS Web Soil Survey), and the pond berms and bottoms have an estimated percolation rate of 3×10^{-6} cm/s.

A4 Exceed domestic wastewater strength? No.
Monthly sampling presents no system upset or decreased function. Business in the community includes a hospital, restaurants, and shops. It is not anticipated that any industrial facility contributes significant contaminants beyond domestic wastewater.

A5 Nitrogen removal may be required? No.
No domestic well is in the vicinity, the percolation rate is very low, and the wastewater is typical of domestic waste suitable for regulation under the General Order 2014-0153-DWQ.

Conclusion: No nitrogen removal is required.

Monitoring Requirements

To protect water quality, a monitoring program similar to the existing Order should be instituted. General pond requirements would be sufficient monitor physical condition of the system (Freeboard, Odor, Rodent control, etc.). Effluent Limitation described in Table 4 are not applicable because 1) the BOD and TSS limits are only applicable to land application or subsurface disposal, and 2) Nitrate Limits are not required due to environmental and design conditions. I recommend the CalPines wastewater system be monitored for Freeboard, Dissolved Oxygen, and Flow to ensure the limits of the General Order are met.