

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM NO. R5-2011-0801
FOR
CALIFORNIA DEPARTMENT OF TRANSPORTATION
DUNNIGAN SAFETY ROADSIDE REST AREA
YOLO COUNTY

This Monitoring and Reporting Program (MRP) describes requirements for monitoring the Dunnigan Safety Roadside Rest Area's water usage, septic tank, wastewater ponds, and sludge. 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.

Section 13267 of the California Water Code 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."

Section 13268 of the California Water Code 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 and 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 facility that is subject to the Waste Discharge Requirements (WDRs) Order 85-191 cited herein, the reports are necessary to ensure that the California Department of Transportation complies with the WDRs.

Pursuant to Section 13267 of the California Water Code, the Discharger shall implement this MRP and shall submit the monitoring reports described herein.

By **1 September 2011**, the Discharger shall submit and immediately implement a *Monitoring and Reporting Program Compliance Plan*. The report shall be prepared by a registered professional engineer and shall provide at least the following:

- a. A detailed schedule of monitoring activities that will be conducted to comply with MRP No. R5-2011-0801 ;
- b. Identification of person(s) trained and authorized to perform each type of monitoring;
- c. Standard procedures for reading and recording flow and freeboard measurements;
- d. Standard procedures for obtaining, handling, and transporting wastewater samples for laboratory analysis;
- e. Standard procedures for monitoring wastewater pond berm integrity; and
- f. Standard reporting forms and procedures for reporting monitoring data and all violations of the WDRs.

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 sample shall be recorded on the sample chain of custody form.

Field test instruments (such as those used to test dissolved oxygen, pH, and electrical conductivity) may be used provided that:

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 submitted as described in the "Reporting" section of this MRP.

WATER USAGE

In lieu of monitoring wastewater flow, the Discharger shall monitor water usage at the rest area (exclusive of irrigation water) in accordance with the following:

<u>Constituents</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Monitoring Frequency</u>	<u>Reporting Frequency</u>
Flow	gpd ¹	Water Meter Observation	Weekly	Monthly

¹ Gallons per day

SEPTIC TANK MONITORING

Septic tanks shall be inspected annually as described below. In addition, the Discharger shall visually inspect the tanks for signs of damage, leakage, and/or deterioration. The following monitoring shall be performed:

<u>Parameter</u>	<u>Units</u>	<u>Type of Measurement</u>	<u>Monitoring Frequency</u>	<u>Reporting Frequency</u>
Sludge depth and scum thickness in the first compartment of each septic tank	Feet	Staff Gauge	Semi-Annually	Annually
Distance between bottom of the scum layer and bottom of outlet device	Inches	Staff Gauge	Semi-Annually	Annually
Distance between top of sludge layer and bottom of outlet device	Inches	Staff Gauge	Semi-Annually	Annually

The Discharger shall retain records of each inspection, noting the date, measured readings and calculations. The Discharger shall also record when cleaning is required, the condition of the tank, and the date that cleaning or repair occurred. Copies of the liquid waste hauler manifests shall be retained for review as with any other record concerning documentation of compliance with the WDRs.

WASTEWATER POND MONITORING

The Discharger shall monitor all ponds at the wastewater treatment facility in accordance with the following. Samples shall be collected from permanent monitoring locations that will provide samples representative of the wastewater in each pond. Freeboard shall be measured vertically from the water surface to the lowest point of possible overflow, and shall be measured to the nearest 0.10 feet. Pond monitoring shall include, at a minimum, the following:

<u>Constituent/Parameter</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Monitoring Frequency</u>	<u>Reporting Frequency</u>
Freeboard	0.1 Feet	Staff Gauge Observation	Weekly	Monthly
Dissolved Oxygen ¹	mg/L	Grab	Weekly	Monthly
pH	pH units	Grab	Weekly	Monthly
Berm Seepage	--	Observation	Weekly	Monthly

¹ Samples shall be collected opposite each pond inlet at a depth of one foot between 0700 and 0900 hours.

FACILITY INSPECTIONS

The Discharger shall inspect the WWTF at least weekly. At a minimum, the inspections shall include the following elements:

- a. Condition of fences designed to prevent public access (monthly).
- b. Odors discernible at the property boundary (weekly).
- c. Integrity of all berms, dikes, and levees, including consideration of damage from erosion, wave action, and burrowing rodents (weekly).
- d. Flow metering system function (weekly).
- e. Piping systems, including control valves and visible piping (weekly).

SLUDGE MONITORING

The Discharger shall keep records regarding sludge generated by the treatment processes, including any analytical test results; the quantity of sludge removed for disposal; the quantity of sludge removed from the ponds and temporarily stored on site; and steps taken to prevent nuisance conditions. Records shall be stored onsite and available for review during inspections.

If sludge is transported off-site for disposal, then the Discharger shall submit records identifying the hauling company, the amount of sludge transported, the date removed from the facility, the disposal facility name and address, and copies of all 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., influent, 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 Monitoring and Reporting Program shall be reported to the Regional Water Board.

A. Monthly Monitoring Reports

Monthly reports shall be submitted to the Regional Water Board on the **1st day of the second month following sampling** (i.e. the January Report is due by 1 March). Such reports shall bear the certification and signature of the Discharger's authorized

representative. An example Monthly Monitoring Report form is included as Attachment A.

At a minimum, the monthly monitoring reports shall include:

1. Results of the following monitoring:
 - a. Rest area's water usage; and
 - b. Wastewater pond monitoring.

The facility inspection and repair report shall include the name of the person conducting the inspections, dates of inspection, problems identified, repairs recommended, repairs completed, and dates of completion.

2. A summary facility inspection and repair report. The following items shall be inspected at the specified frequency and specifically addressed in the report:
 - a. Condition of fences designed to prevent public access (monthly).
 - b. Odors discernible at the property boundary (weekly).
 - c. Integrity of all berms, dikes, and levees, including consideration of damage from erosion, wave action, and burrowing rodents (weekly).
 - d. Piping systems, including control valves and visible piping (weekly).
3. A comparison of monitoring data to the discharge specifications, disclosure of any violations of the WDRs, and an explanation of any violation of those requirements. Data shall be presented in tabular format.
4. Copies of current calibration logs for all field test instruments.
5. If requested by staff, copies of laboratory analytical report(s).

C. Annual Report

An Annual Report shall be prepared as the December monitoring report. The Annual Report shall include all monitoring data required in the monthly schedule. The Annual Report shall be submitted to the Regional Water 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. An annual summary of the septic tank inspections for the year, including the number of tanks which were cleaned and from compilation of liquid waste hauler manifests, the volumes of waste removed from the tanks;
3. An evaluation of the performance of the WWTF, including discussion of capacity

issues, infiltration and inflow (I/I), nuisance conditions, and a forecast of the flows anticipated in the next year.

4. 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 waste discharge requirements.
5. A discussion of any data gaps and potential deficiencies/redundancies in the monitoring system or reporting program.
6. Summary of information on the disposal of biosolids as described in the "Sludge Monitoring" section.

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 following penalty of perjury statement by the Discharger, or the Discharger's authorized agents:

"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 inquire 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."

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
11 April 2007

(Date)

Attachment A: Example Monthly Monitoring Report

BPK:02/20/2013

**ATTACHMENT A
EXAMPLE MONTHLY MONITORING REPORT**

[Note: The following is a suggested monthly report format that complies with the reporting requirements set forth in the MRP and the Standard Provisions and Reporting Requirements. The Discharger is not required to use the example monthly monitoring report, but all monthly monitoring reports must comply with the MRP and the Standard Provisions and Reporting Requirements.]

DATE: _____

TO:

Central Valley Regional Water Quality Control Board
11020 Sun Center Drive, Suite 200
Rancho Cordova, CA 95670

FROM:

California Department of
Transportation

Attention: Brendan Kenny

MONTHLY MONITORING REPORT FOR _____
(month) (year)

**CALIFORNIA DEPARTMENT OF TRANSPORTATION
DUNNIGAN SAFETY ROADSIDE REST AREA
YOLO COUNTY**

Enclosed is the monthly monitoring report for the Dunnigan Safety Roadside Rest Area in Yolo County. The report covers the monitoring period noted above.

The following attachments comprise this monitoring report:

- A. Water Usage Summary
- B. Pond Monitoring Summary
- C. Violation Reporting
- D. Facility Inspection and Repair Report and Violation Summary
- E. Field instrument calibration logs dated _____
- F. Analytical laboratory report(s) dated _____

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 upon 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.

(signature)

(date)

(printed name)

(month) (year)

A. WATER USAGE

Day of Month	Flow (gpd)
Monitoring frequency:	Daily
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
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22	
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24	
25	
26	
27	
28	
29	
30	
31	

gpd = gallons per day

(month) _____ (year) _____

D. SUMMARY FACILITY INSPECTION AND REPAIR REPORT

Inspection Date	Inspector	Problems identified, repairs recommended, repairs completed, and date of completion
Fence Condition (monthly)		
Odors (weekly)		
Pond berms (weekly)		
Flow meter (weekly)		
Piping system (weekly)		