

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM WQO 2014-0153-DWQ-R5364
FOR
ADRIANA SMITH
SHADY GLEN MOBILE HOME PARK WWTP
PLACER COUNTY

This Monitoring and Reporting Program (MRP) describes requirements for monitoring the Shady Glen Mobile Home Park Wastewater Treatment Plant (WWTP). This MRP is issued pursuant to Water Code section 13267. Adriana Smith (Discharger) shall not implement any changes to this MRP unless and until a revised MRP is issued by the Regional Water Quality Control Board, Central Valley Region (Central Valley Water Board) or Executive Officer.

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 WWTF that is subject to the Notice of Applicability (NOA) of Water Quality Order 2014-0153-DWQ, *General Waste Discharge Requirements for Small Domestic Wastewater Treatment Systems* (General Order). 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 data, time, and to whom samples were relinquished. If composite samples are collected, the basis for sampling (time or flow weighted) shall be approved by Central Valley Water Board staff.

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

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

Laboratory analytical procedures shall comply with the methods and holding times specified in the following (as applicable to the medium to be analyzed):

- *Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater* (EPA);
- *Test Methods for Evaluating Solid Waste* (EPA);
- *Methods for Chemical Analysis of Water and Wastes* (EPA);
- *Methods for Determination of Inorganic Substances in Environmental Samples* (EPA); and
- *Standard Methods for the Examination of Water and Wastewater* (APHA/AWWA/WEF).

Approved editions shall be those that are approved for use by the U.S. Environmental Protection Agency or the State Water Resources Control Board's Environmental Laboratory Accreditation Program (ELAP). The Discharger may propose alternative methods for approval by the Executive Officer. Where technically feasible, laboratory reporting limits shall be lower than concentrations that implement applicable water quality objectives/limits for the constituents to be analyzed.

If monitoring consistently shows no significant variation in a constituent concentration or parameter after at least 12 months of monitoring, the Discharger may request this MRP be revised to reduce monitoring frequency. The proposal must include adequate technical justification for reduction in monitoring frequency. This monitoring program shall remain in effect unless and until a revised MRP is issued.

AEROBIC TREATMENT UNIT MONITORING

Effluent samples shall be taken from a location that provides representative samples of the wastewater. At a minimum effluent monitoring shall consist of the following as provided below. Flow rate may be metered or estimated based on potable water supply meter readings or other approved method. Gallons per day is abbreviated as gpd.

Table 1. Aerobic Influent or Effluent Monitoring

Constituent or Parameter	Units	Sample Type	Sampling Frequency	Reporting Frequency
Flow Rate (may be measured as influent or effluent flow)	gallons per week	Metered	Weekly	Annually
Monthly Average Flow Rate	gpd	Calculation	Monthly	Annually

Aerobic treatment units may be integrated in a treatment train and all components shall be inspected to verify operational status. Because aerobic treatment units generate more biosolids than septic systems (similar to the activated sludge process), systems shall be inspected and/or pumped at least as frequently as described below in Table 2. Depending upon the amount of solids removed from the aerobic treatment unit, less frequent inspections may be allowed by the Regional Water Board's Executive Officer. NA in this table denotes "not applicable".

Table 2. Aerobic System Monitoring

Parameter	Units	Measurement Type	Inspection Frequency	Reporting Frequency
Sludge depth and scum thickness in each compartment of each tank	feet (ft)	Staff Gauge	Quarterly (see note)	Annually
Distance between bottom of scum layer and bottom of outlet device	inches (in.)	Staff Gauge	Quarterly (see note)	Annually
Distance between top of sludge layer and bottom of outlet device	in.	Staff Gauge	Quarterly (see note)	Annually
Effluent filter condition (if equipped, clean as needed)	NA	NA	Quarterly (see note)	Annually

Table 2 Note: Inspections of sludge and scum depth are not required if the tanks are pumped at least annually. If pumped at least annually, report the pumping date(s) in the annual report.

Aerobic treatment units shall be pumped when any one of the following conditions exists:

1. The combined thickness of sludge and scum exceeds one-third of the tank depth of the final settling tank or interferes with the operation of the system (mixed liquor aerator solids shall not exceed the manufacturer's recommendation).
2. The scum layer is within 3 inches of the outlet device.
3. The sludge layer is within 8 inches of the outlet device.

All pumping reports shall be submitted with the next regularly scheduled monitoring report. At a minimum, the record shall include the date, nature of service, service company name, and service company license number.

POND SYSTEM MONITORING

Wastewater Pond Monitoring

All ponds used for treatment, storage, or disposal of wastewater shall be monitored as specified in the table below. Sampling and monitoring shall be conducted from permanent locations that will provide reasonable samples and observations of the ponds. Freeboard shall be measured vertically from the water surface to the lowest elevation of pond berms (or spillway/overflow pipe invert) and shall be measured to the nearest 0.1 foot. Samples shall be collected at a depth of one foot, opposite the inlet. If any pond is dry, the monitoring report shall so state.

Table 3. Pond monitoring

Constituent or Parameter	Units	Sample Type	Monitoring Frequency	Reporting Frequency
Presence/Absence of Water	--	Observation	Weekly	Annually
Freeboard (to the nearest 0.1 ft)	ft	Measurement	Weekly	Annually
Odors	--	Observation	Weekly	Annually
Berm Condition	--	Observation	Weekly	Annually
Dissolved Oxygen (DO)	mg/L	Grab	Weekly	Annually

Pond Effluent Monitoring

Effluent samples shall be taken from a location that provides representative samples of the wastewater. At a minimum, effluent monitoring shall consist of the following as provided below. "mg/L" denotes milligrams per liter.

Table 4. Pond Effluent Monitoring

Constituent	Units	Sample Type	Sample Frequency	Reporting Frequency
Biochemical Oxygen Demand (BOD)	mg/L	Grab	Monthly	Annually

LAND APPLICATION AREA MONITORING

The Discharger shall monitor LAAs when wastewater and/or supplemental irrigation water is applied. If wastewater/supplemental irrigation water is not applied during a reporting period, the monitoring report shall so state. LAA monitoring shall be monitored as specified in the following table and meet the testing requirements below:

1. Meter requires meter reading, a pump run time meter, or other approved method.
2. Weather station may be site-specific station or nearby governmental weather reporting station.
3. Acreage applied denotes the acreage to which wastewater is applied.
4. Application rate may be reported as gallons per acre per month (gal/ac/mo.) or inches per acre per month (in./ac/mo.)

Table 5. Land Application Area Monitoring

Parameter	Units	Sample Type	Sampling Frequency	Reporting Frequency
Wastewater flow (see requirement 1 above)	gpd	Meter	Monthly	Quarterly
Local rainfall (see requirement 2 above)	in.	Weather Station	Monthly	Quarterly
Acreage applied (see requirement 3 above)	acres	Calculated	Monthly	Quarterly
Application rate (see requirement 4 above)	gal/ac/mo.	Calculated	Monthly	Quarterly
Soil erosion evidence	--	observation	Monthly	Quarterly
Containment berm condition	--	observation	Monthly	Quarterly
Soil saturation and/or ponding	--	observation	Monthly	Quarterly
Nuisance odors and/or vectors	--	observation	Monthly	Quarterly
Discharge off site	--	observation	Monthly	Quarterly

SLUDGE/SOLIDS 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 REQUIREMENTS

All regulatory documents, 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: centralvalleysacramento@waterboards.ca.gov.

Documents that are 50 MB or larger should be transferred to a CD, DVD, or flash drive and mailed to the following address:

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

To ensure that your submittals are routed to the appropriate staff, the following information block should be included in any correspondence used to transmit documents to this office:

Facility	Shady Glen Mobile Home Park WWTF
Program:	Non-15 Compliance
Order Number:	WQ 2014-0153-DWQ-R5364
CIWQS Place ID:	CW-256543

The Discharger shall notify the Board within 10 days of receipt of laboratory data showing effluent results exceeding the limit(s).

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, sample type (e.g., effluent, 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 MRP shall be reported in the next regularly schedule monitoring report and shall be included in calculations as appropriate.

Monitoring information shall include the method detection limit (MDL) and the Reporting limit (RL) or practical quantitation limit (PQL). If the regulatory limit for a given constituent is less than the RL (or PQL), then any analytical results for that constituent that are below the RL (or PQL) but above the MDL shall be reported and flagged as estimated. For a Discharger conducting any of its own analyses, reports must also be signed and certified by the chief of the laboratory.

As required by the Business and Professions Code sections 6735, 7835, and 7835.1, all monitoring reports that involve planning, investigation, evaluation or design, or other work requiring interpretation and proper application of engineering or geologic sciences,

shall be prepared under the direct supervision of a Registered Professional Engineer or Professional Geologist, and signed by the registered professional.

A. Monitoring Report Due Dates

Quarterly and annual monitoring reports are due as described in Table 6. Note that the Fourth Quarter and Annual Reports may be submitted as a single report.

Table 6. Monitoring Report Due Dates

Monitoring Report	Monitoring Period	Report Due Date
First Quarter	1 January to 31 March	1 May
Second Quarter	1 April to 30 June	1 August
Third Quarter	1 July to 30 September	1 November
Fourth Quarter	1 October to 31 December	1 February
Annual	1 January to 31 December	1 February

B. Quarterly Monitoring Reports

Daily, weekly, and monthly monitoring data shall be reported in the quarterly monitoring report. At a minimum, the quarterly report shall include:

1. Results of all required monitoring
2. A comparison of monitoring data to the flow limitations and discharge specifications and an explanation of any violation of those requirements.
3. Copies of the laboratory analytical data reports shall be maintained by the Discharger and submitted to the Central Valley Water Board.

C. Annual Report

In addition to the fourth quarter monitoring report, an Annual Report shall be prepared. 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 full 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.

C. State Water Board Volumetric Annual Reporting

To establish a realistic estimate of statewide recycled water use and potential for increased recycled water use statewide, the Recycled Water Policy requires dischargers to report the volume of treated wastewater and recycled water. The annual report will meet implementation needs of the Recycled Water Policy and fill data gaps for additional statewide water planning efforts. Based on current influent flows of less than 20,000 gpd, the Discharger is not required to submit volumetric annual reporting at this time.

A letter transmitting the self-monitoring reports shall accompany each report. The letter shall report violations found during the reporting period, and actions taken or planned for correcting noted violations and prevent future violations. 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 and 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 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 on **the first day of the month** following recession of WDRs Order 86-187.

This Order is issued under authority delegated to the Executive Officer by the Central Valley Water Board pursuant to Resolution R5-2018-0057 and is effective upon signature.

Ordered by:

for PATRICK PULUPA, Executive Officer