

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM WQO 2014-0153-DWQ-R5375
FOR
KINGSBURY GREENS COMMUNITY SERVICE DISTRICT,
KINGSBURY GREENS CDS WWTS
NEVADA COUNTY

This Monitoring and Reporting Program (MRP) describes requirements for monitoring the Kingsbury Greens CSD Wastewater Treatment System (WWTS). This MRP is issued pursuant to Water Code section 13267. Kingsbury Greens CSD (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.”

Kingsbury Greens CSD owns and operates the WWTS that is subject to the Notice of Applicability (NOA) of Water Quality Order 2014-0153-DWQ-R5375, *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 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 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.

TREATMENT SYSTEM MONITORING

Monitoring of septic tank shall include the following as shown in the table below. Flow rate may be metered or estimated based on potable water supply meter reading or other approved method.

Table 1. Treatment System Influent Flow Rate

Parameter	Units	Sample Type	Sampling Frequency	Reporting Frequency
Flow Rate	gallons per day (gpd)	Metered	Continuous	Annually

Effluent Monitoring

Samples of effluent shall be taken at an area that represents the effluent quality distributed to the disposal area. At a minimum, effluent monitoring shall consist of the following:

Table 2. Effluent Monitoring

Parameter	Units	Sample Type	Sampling Frequency	Reporting Frequency
Biochemical Oxygen Demand	mg/L	Grab	Semi-annually	Annually
Electrical Conductivity	µS/cm	Grab	Semi-annually	Annually

Treatment Unit Monitoring

Aerobic treatment tanks shall be inspected and/or pumped at least as frequently as described below. Inspections of sludge and scum depth are not required if the tanks are pumped at least annually. "NA" indicates "not applicable".

Table 3. Aerobic Treatment Unit Monitoring

Parameter	Units	Measurement Type	Inspection and Reporting Frequency
Sludge depth and scum thickness in each compartment of each tank	feet (ft)	Staff gauge	Annually
Distance between bottom of scum layer and bottom of outlet device	inches (in.)	Staff gauge	Annually

Parameter	Units	Measurement Type	Inspection and Reporting Frequency
Distance between top of sludge layer and bottom of outlet device	in.	Staff gauge	Annually
Effluent filter condition (if equipped, clean as needed)	NA	NA	Annually

Aerobic tanks 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 first compartment.
2. The scum layer is within 3 inches of the outlet device.
3. The sludge layer is within 8 inches of the outlet device.

If a septic tank is pumped during the year, the pumping report shall be submitted within the annual report. 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.

SUB-SURFACE DISPOSAL MONITORING

Monitoring shall be sufficient to determine if wastewater is evenly applied, the disposal area is not saturated, burrowing animals and/or deep-rooted plants are not present, and odors are not present. Inspection of dosing pump controllers, automatic distribution valves, etc. is required to maintain optimum treatment in the disposal area (and any sand or media filter if present). Monitoring shall include, at a minimum, the parameters specified in Table 6 and meet the testing requirements 1 - 4 listed here:

1. All pump controllers and automatic distribution valves shall be inspected for proper operation as recommended by the manufacturer.
2. Inspect disposal areas for saturated conditions. If a mound system is used, inspect perimeter base for signs of wastewater seepage or saturated soil conditions.
3. Shallow-rooted plants are generally desirable, deep-rooted plants such as trees shall be removed, as necessary.
4. Evidence of animals burrowing shall be immediately investigated, and burrowing animal populations controlled, as necessary.

Table 4. Sub-surface Disposal Monitoring

Parameters	Inspection Frequency	Reporting Frequency
Pump controllers, valves, etc. (see requirement 1 above)	Quarterly	Quarterly
Off-site nuisance odor conditions	Monthly	Quarterly
Saturated soil conditions (see requirement 2 above)	Monthly	Quarterly
Plant growth (see requirement 3 above)	Quarterly	Quarterly
Vectors or Animal Burrowing (see requirement 4 above)	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 WWTS. Records shall include the name and 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: Kingsbury Greens CSD
 Program: Non-15 Compliance
 Order Number: WQ 2014-0153-DWQ-R5375
 CIWQS Place ID: CW-235068

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.

If the Discharger does not comply, or will be unable to comply, with a limit related to effluent quality, pond freeboard, flow rate, or overflow issues, the Discharger shall notify Regional Water Board staff by telephone. Notification shall occur as soon as the Discharger or its agents have knowledge of such noncompliance or potential for noncompliance, and the discharger shall confirm this notification in writing **within 10 days**. The written notification shall state the date, time, nature, cause of noncompliance, immediate response action, and a schedule for corrective actions.

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 the table below.

Table 5. 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 Report	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 plant, 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.

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 rescission of WDRs Order 95-238.

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