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## Central Valley Regional Water Quality Control Board

3 July 2020

Ralph Beatty  
Rosedale Village MHPRV Asset Partners LP  
P.O. Box 2308  
Laguna Hills, CA 92654

**CERTIFIED MAIL**  
**7019 2970 0001 5206 3640**

**NOTICE OF APPLICABILITY (NOA); STATE WATER RESOURCES CONTROL BOARD ORDER WQ 2014-0153-DWQ; GENERAL WASTE DISCHARGE REQUIREMENTS FOR SMALL DOMESTIC WASTEWATER TREATMENT SYSTEMS; ROSEDALE VILLAGE MHPRV ASSET PARTNERS, LP; ROSEDALE VILLAGE MOBILE HOME PARK ONSITE WASTEWATER TREATMENT SYSTEM; KERN COUNTY**

On 24 December 2019, Central Valley Regional Water Quality Control Board (Central Valley Water Board) staff received a Report of Waste Discharge (RWD) prepared by Soils Engineering, Inc., signed and stamped by L. Thomas Bayne (RCE 26106). The RWD was submitted on behalf of Rosedale Village MHPRV Asset Partners, LP (Discharger) for the Rosedale Village Mobile Home Park Onsite Wastewater Treatment System (OWTS or Facility). Based on the information provided, the OWTS treats and disposes of less than 100,000 gallons per day (gpd) of domestic wastewater and is eligible for coverage under the general and specific conditions of the 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 system and the wastewater discharge described below. Effective immediately, you are hereby assigned General Order **2014-0153-DWQ-R5339** for your system.

You should familiarize yourself with the entire General Order and its attachments enclosed with this letter, which describe mandatory discharge and monitoring requirements. Sampling, monitoring, and reporting requirements applicable to your treatment and disposal methods must be completed in accordance with the appropriate treatment system sections of the General Order and the attached Monitoring and Reporting Program (MRP) No. **2014-0153-DWQ-R5339**. This MRP was developed after consideration of your waste characterization and site conditions described in the attached memorandum.

KARL E. LONGLEY ScD, P.E., CHAIR | PATRICK PULUPA, ESQ., EXECUTIVE OFFICER

## **DISCHARGE DESCRIPTION**

The Rosedale Village Mobile Home Park (Mobile Home Park) is located at 14035 Rosedale Highway in Bakersfield (Section 26, Township 29 South, Range 26 East, Mount Diablo Base and Meridian) on Assessor's Parcel Number No. 495-020-03-00-3. Attachment A of this NOA includes a Site Location Map. Attachment B of this NOA includes a Site Plan Map.

The system has an in-ground, multi-section septic tank (estimated volume of 60,000 gallons). The septic tank effluent is discharged to a subsurface disposal area (leach field). According to the RWD, the leach field occupies 0.62 acres. There is land adjacent to the existing leach field (where the previous leach field was) that serves as a backup. The previous leach field and piping was left in place and will ultimately need to be removed. The system has two lift stations. One lift station receives wastewater from the collection system and pumps it to the septic tank. The second lift station, labeled "duplex lift station," pumps septic tank effluent to the leach field.

The December 2019 RWD states the OWTS design capacity is 60,000 gpd. To determine wastewater flows, the RWD used metered water supply readings over a two-year period (November 2017 to November 2019). Based on these readings and using an assumed 10% reduction for irrigation use, the RWD estimates the average daily wastewater flow for the two-year period was approximately 46,000 gpd. However, at times, water usage values exceeded 60,000 gpd. Therefore, the enclosed MRP includes a requirement to begin metering effluent flow into the leach field system within one year to ensure the OWTS does not receive flows above its design capacity.

The Mobile Home Park has two stormwater infiltration basins (shown in Attachment B). One basin, titled "sump," is in the south-southeast portion of the development and serves the mobile home portion of the property. The second basin is located just east of the property on a neighboring easement and serves the RV-park portion of the property.

## **FACILITY SPECIFIC REQUIREMENTS AND EFFLUENT LIMITATIONS**

The Discharger will maintain exclusive control over the discharge and shall comply with the terms and conditions of this NOA, General Order 2014-0153-DWQ, all attachments, and MRP No. 2014-0153-DWQ-R5339.

In accordance with Section B.1.a of the General Order, treated wastewater discharged to the Facility's leach field **shall not exceed 60,000 gpd as a monthly average**.

The General Order states in Section B.1 that the Discharger shall comply with the setbacks as described in Table 3 of the General Order. This table summarizes different setback requirements for wastewater treatment 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 applicable setback requirements, as summarized in the following table:

**Table 1 - Site-Specific Applicable Setback Requirements**

<b>Equipment or Activity</b>	<b>Domestic Well (feet)</b>	<b>Flowing Stream (feet)</b>	<b>Ephemeral Stream Drainage (feet)</b>	<b>Property Line (feet)</b>
Septic Tank, Treatment Unit, Treatment System, or Collection System	150	50	50	5
Leach Field	100	100	50	5

The Discharger shall comply with all applicable sections of the General Order, including:

- Septic System Requirements (Section B.2)
- Subsurface Disposal Surface Requirements (Section B.6)
- Sludge/Solids/Biosolids Disposal Requirements (Section B.8)

Provision E.1 of the General Order requires dischargers enrolled under the General Order to prepare and implement the following reports within **90 days** of the issuance of the NOA (**by 1 October 2020**):

- Spill Prevention and Emergency Response Plan (Provision E.1.a.).
- Sampling and Analysis Plan (Provision E.1.b).

A copy of the Spill Prevention and Emergency Response Plan and the Sampling and Analysis Plan shall be maintained at the treatment facility and shall be presented to the Regional Water Board staff upon request.

As stated in Section E.2.w., in the event any change in control or ownership of the Facility or wastewater disposal areas, the Discharger must notify the succeeding owner or operator of the existence of this General Order by letter, a copy of which shall be immediately forwarded to the Central Valley Water Board Executive Officer

Failure to comply with the requirements in this NOA, General Order 2014-0153-DWQ, with all attachments, and MRP No. 2014-0153-DWQ-R5339 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. If wastewater flows to the Facility substantially increase and monthly average flows approach or exceed 60,000 gpd, the Central Valley Water Board staff must be contacted to determine if further analysis is required.

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.

On 31 May 2018, the Central Valley Water Board adopted Basin Plan amendments incorporating new strategies for addressing ongoing salt and nitrate accumulation in the Central Valley as part of the Central Valley Salinity Alternatives for Long-Term Sustainability (**CV-SALTS**) initiative. Further details of these strategies are discussed in the enclosed memorandum. As these strategies are implemented, the Central Valley Water Board may find it necessary to modify the requirements of this NOA to ensure the goals of the Salt and Nitrate Control Program are met.

The Central Valley Water Board has gone to a Paperless Office System. 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: [centralvalleyfresno@waterboards.ca.gov](mailto:centralvalleyfresno@waterboards.ca.gov). Documents that are 50MB or larger should be transferred to a disk and mailed to the Central Valley Water Board office at 1685 E Street, Fresno, CA 93706. 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,  
**Place ID:** 852291,  
**Facility Name:** Rosedale Village Mobile Home Park OWTS,  
**Order:** 2014-0153-DWQ-R5339.

In order to conserve paper and reduce mailing costs, a paper copy of General Order WQO 2014-0153-DWQ has been sent only to the Discharger. Others are advised that the [General Order](#) is available on the State Water Board's website ([http://www.waterboards.ca.gov/board\\_decisions/adopted\\_orders/water\\_quality/2014/wqo2014\\_0153\\_dwq.pdf](http://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2014/wqo2014_0153_dwq.pdf)).

All documents, including responses to inspections and written notifications, submitted to comply with this NOA shall be directed, via the paperless office system, to the Compliance and Enforcement Unit, attention to Russell Walls. Mr. Walls can be reached at (559) 488-4392 or [Russel.Walls@waterboards.ca.gov](mailto:Russel.Walls@waterboards.ca.gov). Questions regarding the permitting aspects of the NOA, and notification for termination of coverage under the Small Domestic General Order, shall be directed, via the paperless office system, to the WDR Permitting Unit, attention Jeff Robins. Jeff Robins can be reached at (559) 445-5976 or by email at [Jeff.Robins@waterboards.ca.gov](mailto:Jeff.Robins@waterboards.ca.gov).

Any person aggrieved by this action of the Central Valley Water Board may petition the State Water Resources Control Board to review the action in accordance with California Water Code section 13320 and California Code of Regulations, title 23, sections 2050 and following. The State Water Resources Control Board must receive the petition by 5:00 p.m., 30 days after the date of this NOA, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Resources Control Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the internet at [Copies of the laws and regulations applicable to filing petitions](#)

([https://www.waterboards.ca.gov/public\\_notices/petitions/water\\_quality](https://www.waterboards.ca.gov/public_notices/petitions/water_quality)) or will be provided upon request.

If you have any questions regarding this matter, please contact Jeff Robins by phone at (559) 445-5976 or by email at [Jeff.Robins@waterboards.ca.gov](mailto:Jeff.Robins@waterboards.ca.gov).

*Original Signed by Clay L. Rodgers for:*  
Patrick Pulupa  
Executive Officer

Attachments:

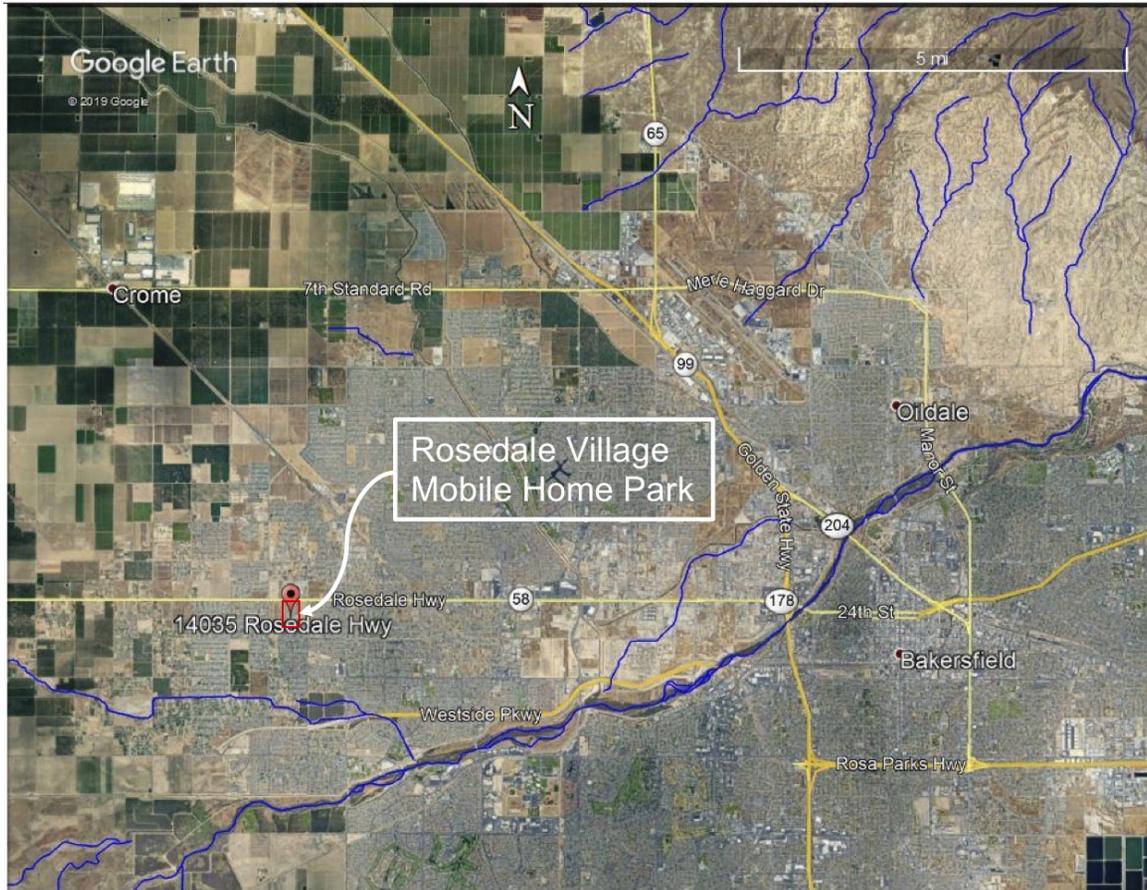
- Attachment A – Site Location Map
- Attachment B – Site Plan Map

Enclosures:

- Monitoring and Reporting Program 2014-0153-DWQ-R5339
- Staff Review Memorandum for Rosedale Village Mobile Home Park OWTS
- State Water Resources Control Board Order WQ 2014-0153-DWQ (Discharger only)

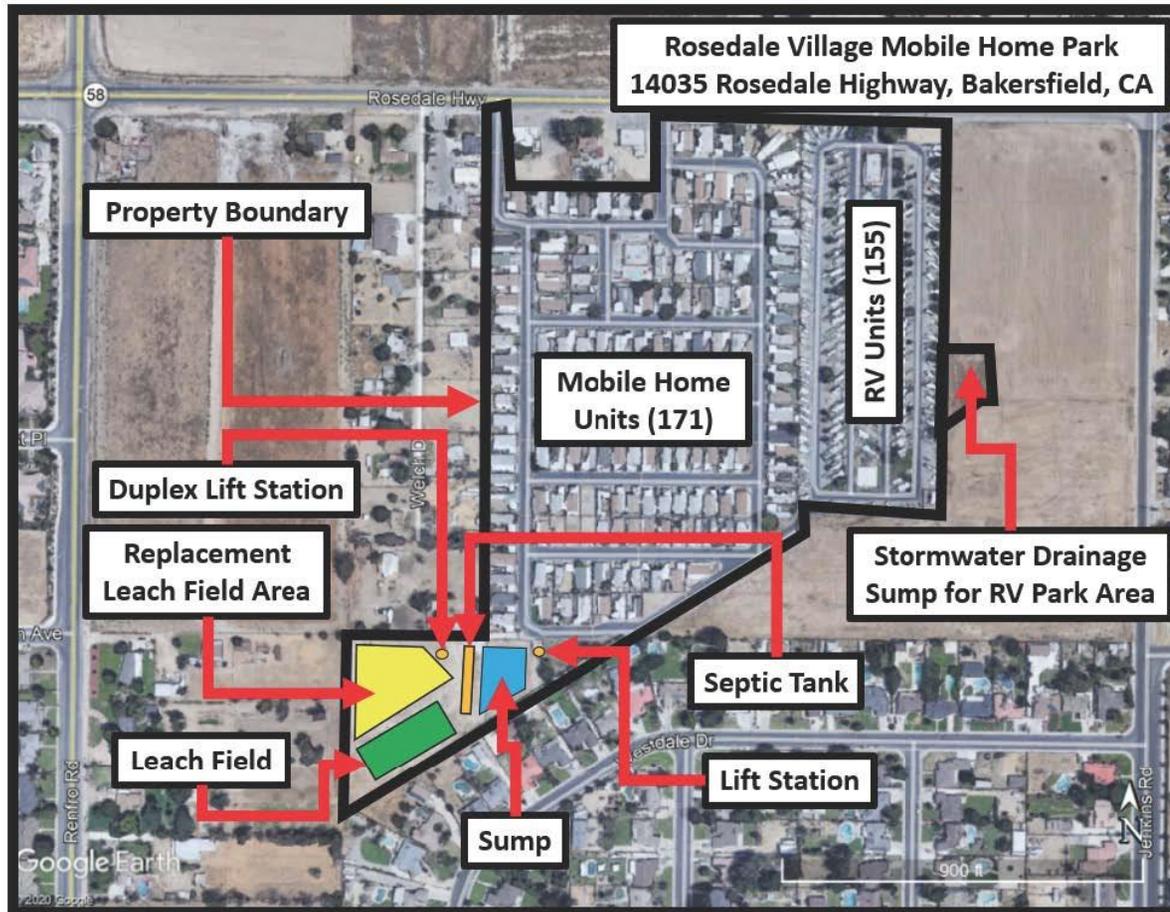
cc:

- David Lancaster, State Water Resources Control Board, OCC, Sacramento (via email)
- Laurel Warddrip, State Water Resources Control Board, DWQ, Sacramento (via email)
- Russell Walls, Central Valley Water Board, Fresno (via email)
- Jesse Dhaliwal, State Water Resources Control Board, DDW, Bakersfield (via email)
- Kern County Planning and Natural Resources Dept., Bakersfield, CA
- Kern County Environmental Health Services, Bakersfield, CA
- Ralph Beatty, Rosedale Village MHPRV Asset Partners, LP, Laguna Hills (via email)
- L. Thomas Bayne, PE, GE, Soils Engineering, Inc. Bakersfield (via email)
- Robert J. Becker, CEG, Soils Engineering, Inc. Bakersfield (via email)



**ATTACHMENT A – SITE LOCATION MAP**  
NOTICE OF APPLICABILITY 2014-0153-DWQ-R5339  
FOR  
ROSEDALE VILLAGE MHPRV ASSET PARTNERS, LP;  
ROSEDALE VILLAGE MOBILE HOME PARK OWTF  
KERN COUNTY

Drawing Reference: Google Earth



**ATTACHMENT B – SITE PLAN MAP**

NOTICE OF APPLICABILITY 2014-0153-DWQ-R5339

FOR

ROSEDALE VILLAGE MHPRV ASSET PARTNERS, LP;

ROSEDALE VILLAGE MOBILE HOME PARK OWTF

KERN COUNTY

Drawing Reference: Google Earth

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL VALLEY REGION**

**MONITORING AND REPORTING PROGRAM NO. 2014-0153-DWQ-R5339  
FOR  
ROSEDALE VILLAGE MHPRV ASSET PARTNERS, LP  
ROSEDALE VILLAGE MOBILE HOME PARK  
ONSITE WASTEWATER TREATMENT SYSTEM  
KERN 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. Rosedale Village MHPRV Asset Partners, LP (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.

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 Rosedale Village Mobile Home Park Onsite Wastewater Treatment System (OWTS or Facility) that is subject to the Notice of

Applicability (NOA) of Water Quality Order 2014-0153-DWQ-R5339. 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 test pH, dissolved oxygen, and electrical conductivity) may be used provided that they are used by a State Water Resources Control Board, Environmental Laboratory Accreditation Program (ELAP) 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.

If monitoring consistently shows no significant change in magnitude of a constituent concentration or parameter after at least 12 months of monitoring, the Discharger may request the frequency of testing be revised to reduce the monitoring frequency. The proposal must include adequate technical justification for reduction of the monitoring frequency.

### SEPTIC TANK MONITORING

Effluent samples shall be taken from a location that represents the septic tank effluent quality distributed to the leach field system. An effluent flow meter must be installed **by 3 July 2021** and used to continually monitor effluent discharged to the leach field. At a minimum, effluent monitoring shall include the following:

**Table 1. Septic Tank Effluent Monitoring Requirements**

Parameter	Units	Sample Type	Sampling Frequency	Reporting Frequency
Flow	gpd	Metered (see note 1)	Continuous (see note 2)	Annually
EC	µmhos/cm	Grab	Monthly	Quarterly

Parameter	Units	Sample Type	Sampling Frequency	Reporting Frequency
BOD <sub>5</sub>	mg/L	Grab	Monthly	Quarterly
TSS	mg/L	Grab	Monthly	Quarterly
Total Nitrogen (as N)	mg/L	Grab	Quarterly	Quarterly

1. As stated above, effluent flow must be continuously measured by a meter by **3 July 2021**. Until then, the flow rate may be estimated based on potable water supply meter readings or other approved method.
2. For continuous analyzers, the Discharger shall report documented routine meter maintenance activities including date, time of day, and duration, in which the analyzer(s) is not in operation.

All septic tanks shall be inspected and/or pumped at least as frequently as described below in Table 2. Inspections of sludge and scum depth are not required if the tanks are pumped at least annually.

**Table 2. Septic Tank Monitoring Requirements.**

Parameter	Units	Sample Type	Sampling Frequency	Reporting Frequency
Sludge depth and scum thickness in each compartment of each tank.	Feet	Staff Gauge	Annually	Annually
Distance between the bottom of the scum layer and bottom of the outlet device.	Inches	Staff Gauge	Annually	Annually
Distance between the top of the sludge layer and the bottom of the outlet device.	Inches	Staff Gauge	Annually	Annually
Effluent filter condition (if equipped, clean as needed)	NA	NA	Annually	Annually

Septic tanks shall be pumped when any of the following conditions exists:

1. The combined thickness of the 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 with 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.

### RECREATION VEHICLE DISCHARGE MONITORING

Any wastewater system that has accepted recreational vehicle, portable toilet, or similar waste in the previous 12 months shall perform the following additional monitoring. Samples shall be collected to characterize effluent that is discharged to the leach field. Wastewater shall be monitored as specified below:

**Table 3. Recreational Vehicle Discharge Monitoring**

Parameter	Units	Sample Type	Monitoring Frequency	Reporting Frequency
Zinc	mg/L	Grab	Quarterly	Quarterly
Phenol	mg/L	Grab	Quarterly	Quarterly
Formaldehyde	mg/L	Grab	Quarterly	Quarterly

### SUBSURFACE DISPOSAL AREA

In general, 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 following:

**Table 4. Subsurface Disposal Area Monitoring**

Constituent	Inspection Frequency	Reporting Frequency
Pump Controllers, Automatic Valves, Etc. (see 1 below)	Quarterly	Quarterly
Nuisance Odor Conditions	Quarterly	Quarterly
Saturated Soil Conditions (see 2 below)	Quarterly	Quarterly
Plant Growth (see 3 below)	Quarterly	Quarterly
Vectors or Animal Burrowing (see 4 below)	Quarterly	Quarterly
Observation Wells in Leach Line Trenches (see 5 below)	Quarterly	Quarterly

1. All pump controllers and automatic distribution valves shall be inspected for proper operation as recommended by the manufacturer.
2. Inspect a disposal area for saturated 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.
5. Observation wells in the leach line trenches shall be inspected to ensure the trenches are allowing wastewater to infiltrate as designed. Visual inspection of the water level in the observation well is adequate.

## **SLUDGE/BIOSOLIDS MONITORING**

The Discharger shall report the handling and disposal of all solids (e.g., screenings, grit, sludge, biosolids, etc.) generated at the wastewater treatment facility. 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 discernable. 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.

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: [centralvalleyfresno@waterboards.ca.gov](mailto:centralvalleyfresno@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 1685 E Street, Fresno, CA 93706. 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,  
**Place ID:** 852291,  
**Facility Name:** Rosedale Village Mobile Home Park,  
**Order:** 2014-0153-DWQ-R5339.

### **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 1<sup>st</sup>). The reports shall bear the certification and signature of the Discharger's authorized representative. At the minimum, the quarterly reports shall include:

1. Results of all required monitoring.
2. A comparison of monitoring data to the requirements (including the flow limitation), 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).
4. Until a flow meter is installed, a status update on the installation of an effluent flow meter.

**B. Annual Report**

Annual Reports shall be submitted to the Regional Water Board **by February 1<sup>st</sup> 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 system, including discussion of the 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.
6. A discussion of the removal of the old piping system from the former leach field and any other activities to refurbish this area to become the future replacement leach field.

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:

3 July 2020

*"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 begin implementing the above monitoring program **on 3 July 2020**.

Ordered by:

*Original Signed by Clay L. Rodgers for:*  
PATRICK PALUPA, Executive Officer

*7/3/2020*  
(Date)

## GLOSSARY

BOD <sub>5</sub>	Five-day biochemical oxygen demand
CaCO <sub>3</sub>	Calcium carbonate
DO	Dissolved oxygen
EC	Electrical conductivity at 25° C
FDS	Fixed dissolved solids
TDS	Total dissolved solids
TKN	Total Kjeldahl nitrogen
TSS	Total suspended solids
Continuous	The specified parameter shall be measured by a meter continuously.
24-hr Composite	Samples shall be a flow-proportioned composite consisting of at least eight aliquots over a 24-hour period.
Daily	Every day except weekends or holidays.
Twice Weekly	Twice per week on non-consecutive days.
Weekly	Once per week.
Twice Monthly	Twice per month during non-consecutive weeks.
Monthly	Once per calendar month.
Quarterly	Once per calendar quarter.
Semiannually	Once every six calendar months (i.e., two times per year) during non-consecutive quarters.
Annually	Once per year.
mg/L	Milligrams per liter
mg/kg	Milligrams per kilogram
mL/L	Milliliters [of solids] per liter
µg/L	Micrograms per liter
µmhos/cm	Micromhos per centimeter
gpd	Gallons per day
mgd	Million gallons per day
MPN/100 mL	Most probable number [of organisms] per 100 milliliters
NA	Denotes not applicable
NTU	Nephelometric Turbidity Units
UV	Ultraviolet
mJ/cm <sup>2</sup>	Millijoules/cm <sup>2</sup>
SU	Standard pH units



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## Central Valley Regional Water Quality Control Board

**TO:** Scott J. Hatton  
Supervising Water Resource Control Engineer

**FROM:** Alexander S. Mushegan  
Senior Water Resource Control Engineer  
RCE 84208

Jeff Robins  
Water Resource Control Engineer

**DATE:** 3 July 2020

**APPLICABILITY OF COVERAGE UNDER STATE WATER RESOURCES CONTROL BOARD ORDER WQ 2014-0153-DWQ-R5339; GENERAL WASTE DISCHARGE REQUIREMENTS FOR SMALL DOMESTIC WASTEWATER TREATMENT SYSTEMS; ROSEDALE VILLAGE MHPRV ASSET PARTNERS, LP; ROSEDALE VILLAGE MOBILE HOME PARK ONSITE WASTEWATER TREATMENT SYSTEM; KERN COUNTY**

On 24 December 2019, Central Valley Regional Water Quality Control Board (Central Valley Water Board) staff received a Report of Waste Discharge (RWD) prepared by Soils Engineering, Inc., signed and stamped by L. Thomas Bayne (RCE 26106). The RWD was submitted on behalf of Rosedale Village MHPRV Asset Partners, LP (Discharger) for the Rosedale Village Mobile Home Park Onsite Wastewater Treatment System (OWTS). Further information was provided in a document dated 21 February 2020 that was signed and stamped by Robert J. Becker (CEG 2238) in addition to L. Thomas Bayne. In addition to the RWD, staff received a Form 200 on 21 October 2019 and an application fee on 12 November 2019. This memorandum provides a summary of Central Valley Water Board staff's review of the December 2019 RWD and subsequent materials and the applicability of this discharge to be covered under State Water Resources Control Board Order WQ 2014-0153-DWQ, *General Waste Discharge Requirements for Small Domestic Wastewater Treatment Systems* (General Order).

### **BACKGROUND INFORMATION**

The Rosedale Village Mobile Home Park (Mobile Home Park) is located at 14035 Rosedale Highway in Bakersfield (35° 22' 55.72" N, 119° 9' 32.88" W) on

Assessor's Parcel Number No. 495-020-03-00-3. The Mobile Home Park was originally constructed in the mid-1980s. Currently, the Mobile Home Park has 171 mobile home units and 155 recreational vehicle (RV) spaces. The Discharger owns and operates the Rosedale Village Mobile Home Park OWTS. The Mobile Home Park was previously regulated by the County.

The Mobile Home Park is located approximately 1,100 feet from the closest wastewater collection system connection, operated by the Kern County Public Works Department. Reportedly the cost to connect to this system is prohibitive and it would take a number of years to plan and get approved. Beginning in April 2018, staff received calls from Soils Engineering, Inc. on behalf of the Discharger, inquiring about submitting a RWD for improvements to the system. At the time, the OWTS was experiencing operational problems (reportedly "sewage on the ground" and that the septic tank was full of solids), and the County stated the design flow rate exceeded the flow limit allowed in its Local Agency Management Plan (LAMP).

Maintenance and upgrades to restore normal operations to the OWTS were completed in December 2018. This included installation of a new leach field (2,700 linear feet) adjacent to the existing leach field system and a new lift station to pump effluent from the septic tanks to the new leach field. The new leach field includes two sets of trenches with leach lines, dosed on an alternating schedule.

Attachment B of the NOA (Site Plan Map) includes a layout of the Mobile Home Park and OWTS. Wastewater from the collection system is first collected at a lift station and then pumped, via two alternating 620-gpm pumps, to a 60,000-gallon multichambered septic tank. From the septic tank, effluent flows to a second lift station, referred to as the "duplex pump station" in Attachment B, where it is pumped (via two alternating 95-gpm pumps) to the new leach field. The new leach field reportedly covers 0.62 acres of the 31.25-acre parcel. The area directly north of the new leach field area is available as future replacement leach field area. This area was the location of the previous leach field system.

The wastewater flow rates were estimated by using water usage data from November 2017 to November 2019. For this time period, the average daily usage was 50,692 gpd, with monthly average usage ranging from around 37,000 gpd to 68,000 gpd. The RWD assumed a 10% reduction for water used in irrigation and determined the average daily usage for the two-year period was about 45,600 gpd. According to the RWD, the estimated design capacity, based on the design drawings, is 60,000 gpd. As monthly average water usage flows (according to the water supply meter data) have reportedly at times exceeded 60,000 gpd, effluent flow metering is needed to adequately determine the OWTS wastewater flow and to ensure the OWTS is not experiencing flows above its design capacity.

Stormwater runoff at the Mobile Home Park is conveyed via surface drainage features (valley gutters) to an infiltration basin located south-southwest of the mobile home area

(“sump” in Attachment B). A second stormwater basin is located just east of the Mobile Home Park.

**POTENTIAL THREAT TO WATER QUALITY**

The RWD reports the wastewater treatment facility is now regularly maintained. Park Maintenance staff (available seven days a week) perform daily inspections of electronic controls, lift stations, and pumps to assure all functions and flow activities are working properly. Maintenance of the septic tanks includes pumping out solids every three months by local private contractors. Mobile Home Park leach fields are equipped with observation wells to verify infiltration of the septic tank effluent. The Discharger has made arrangements with a licensed septic tank pumping contractor for emergency response to repairs and spills at the Mobile Home Park OWTS.

The OWTS accepted RV waste in the past, but the Discharger reports they no longer accept recreational vehicle, portable toilet, or similar waste. The Discharger reports that the RV dumping station that used to accept RV waste has been closed for more than twelve months.

To determine underlying groundwater quality, Central Valley Water Board staff reviewed available well data for nearby wells using the [National Water Quality Monitoring Council's Water Quality Portal website](https://www.waterqualitydata.us/portal) (https://www.waterqualitydata.us/portal). Three wells were located within three miles of the OWTS (Well #1 = 029S027E31M001M, Well #2 = 029S026E23J002M, and Well #3 = 029S027E18Q001M). The data are summarized in Table 1 below. The data is from the most recent sampling date. If there were two sample results from a single day, the average for the day is reported.

**Table 1. Groundwater Quality from nearby Wells**

Constituent/Parameter	Well #1	Well #2	Well #3
Date Sampled	Sept-2016	July-1986	Sept-2016
Well Hole Depth (ft bgs)	750	385	751
Groundwater depth (ft bgs)	238	Not measured	261
Electrical Conductivity (µmhos/cm)	233	652	575
Total Dissolved Solids (mg/L)	145	434	349
Total Nitrogen (mg/L)	2.8	Not measured	Not measured
Nitrate as Nitrogen (mg/L)	2.8	10.0	2.3
pH (s.u.)	8.7	7.4	8.5
Dissolved Oxygen (mg/L)	5.7	Not measured	0.567
Sodium (mg/L)	34.5	45.0	89.3
Calcium (mg/L)	13.1	83	24.9
Chloride (mg/L)	14.6	31	45.3
Magnesium (mg/L)	0.09	9.9	0.118

Central Valley Water Board staff reviewed the [Groundwater Information Center Interactive Map Application](http://gis.water.ca.gov/app/gicima) (http://gis.water.ca.gov/app/gicima), to determine approximate depth to groundwater at the site. The Mobile Home Park and OWTS are

not in the mapped groundwater region but about a mile away from the nearest mapped zone. In the region closest to the Mobile Home Park, for fall 2018 the depth to groundwater was 220 to 260 feet deep. This correlates with the groundwater depth readings from Well #1 and #3 in Table 1 above.

The soils in the leach field are 100% Wasco sandy loam. The Wasco soil series consists of very deep, well-drained soils on recent alluvial fans or flood plains. These soils form in mixed alluvium derived mainly from igneous and/or sedimentary rock sources. Slope is 0 to 5 %. The deep well-drained soils and the deep water table combine to minimize the potential of collection system inflow and infiltration issues. The Discharger does not report significant increases in flow during the wet season.

The Mobile Home Park is approximately 1.0 miles north of the Goose Lake Slough, 1.75 miles north of the Pioneer canal, and 2.5 miles north of the Kern River

### **NITROGEN LIMIT EVALUATION**

The General Order requires that wastewater systems with a flow rate greater than 20,000 gpd be evaluated to determine if nitrogen effluent limits are required. The December 2019 RWD included a nitrogen evaluation following Attachment 1 of the General Order. The RWD nitrogen evaluation utilized a Washington State Department of Ecology mathematical model to evaluate the impact the OWTS discharge would have on the underlying groundwater. The analysis concluded that groundwater nitrate concentrations at the end of the property boundary would be 3.78 mg/L nitrate (as N), a net increase of 2.78 mg/L compared to the assumed background concentration of 1.0 mg/L in the aquifer. A 3.78 mg/L nitrate (as N) concentration at the property boundary indicates no nitrogen limit is necessary since the concentration is well below the primary drinking water standard of 10 mg/L.

The recent groundwater nitrate data shown in Table 1 above (Well #1 = 2.8 mg/L and Well #3 = 2.3 mg/L) implies the assumed background nitrate (as N) concentration of 1.0 mg/L nitrate (as N) may be low. Assuming a higher background nitrate concentration of, for example, 2.8 mg/L nitrate, with a net increase of 2.8 mg/L nitrate (as determined above), the resulting 5.6 mg/L nitrate (as N) would still be well below the primary drinking water standard of 10 mg/L (as N).

The nitrogen effluent limit analysis above included the following assumptions. All wastewater discharged to the OWTS (45,692 gpd or 16.7 million gallons per year) reaches groundwater. All nitrogen discharged from the septic system is converted to nitrate. Dilution primarily accounts for the reduction in the nitrate concentration. However, due to the arid conditions at the site, only 1% of rainwater is assumed to be available to dilute the wastewater discharge. There is uniform and complete mixing of the septic system wastewater with the infiltrating rainwater and the upgradient groundwater. A conservative estimate of the thickness of the fresh water bearing alluvium of the aquifer is 1,000 feet (while the engineer estimates it is more likely 2,000 feet thick). The background concentration of nitrate (as N) in the aquifer is assumed to be 1.0 mg/L. The depth to groundwater, hydraulic conductivity, and hydraulic gradient

for the aquifer are assumed to be 200 ft below ground surface (bgs), 10 ft/day, and 0.01 ft/ft, respectively.

### **MONITORING REQUIREMENTS**

Monitoring requirements included in the following sections from Attachment C of the General Order are appropriate for this discharge:

- Septic Tank Monitoring
- Recreational Vehicle Discharge Monitoring,
- Subsurface Disposal Field Monitoring and
- Solids Disposal Monitoring.

### **SALT AND NITRATE CONTROL PROGRAMS**

As part of the Central Valley Salinity Alternatives for Long Term Sustainability (CVSALTS) initiative, the Central Valley Water Board Adopted Basin Plan amendments incorporating new programs for addressing ongoing salt and nitrate accumulation in the Central Valley at its 31 May 2018 Board Meeting (Resolution R5-2018-0034). On 16 October 2019, the State Water Resources Control Board adopted Resolution No. 2019-0057 approving the Central Valley Water Board Basin Plan amendments and also directed the Central Valley Water Board to make targeted revisions to the Basin Plan amendments within one year from the approval of the Basin Plan amendments by the Office of Administrative Law. The Office of Administrative Law approved the Basin Plan amendments on 15 January 2020 (OAL Matter No. 2019-1203-03).

Pursuant to the Basin Plan amendments, dischargers will receive a Notice to Comply with instructions and obligations for the Salt Control Program within one year of the effective date of the amendments. Upon receipt of the Notice to Comply, the Discharger will have no more than six months to inform the Central Valley Water Board of their choice between Option 1 (Conservative Option for Salt Permitting) or Option 2 (Alternative Option for Salt Permitting). For the Nitrate Control Program, the WWTF is in a non-prioritized basin/sub-basin. Implementation within a non-prioritized basin/sub-basin will occur as directed by the Central Valley Water Board Executive Officer. [More information on the Salt and Nitrate Control Program](https://www.cvsalinity.org/public-info) may be found on the Internet. (<https://www.cvsalinity.org/public-info>).