



Central Valley Regional Water Quality Control Board

26 September 2017

WDID: 5A321022001

Mr. Steve Leal, Facility Manager
Grizzly Creek Ranch
5900 Grizzly Road
Portola, CA 96122

**CERTIFIED MAIL:
7016 2140 0000 1629 6641**

Mr. Dave Thomas, President
Sierra Nevada Journeys
190 East Liberty Street
Reno, NV 89501

**CERTIFIED MAIL:
7016 2710 0001 1018 2423**

NOTICE OF APPLICABILITY (NOA), WATER QUALITY ORDER 2014-0153-DWQ-R5246, GRIZZLY CREEK RANCH, WASTEWATER TREATMENT AND DISPOSAL SYSTEM, PLUMAS COUNTY

On 15 September 2017 Central Valley Regional Water Quality Control Board (Central Valley Water Board) staff inspected the wastewater facilities at Grizzly Creek Ranch (hereafter “Discharger”) located at Grizzly Road & HWY 70 in Portola, Plumas County.

Based on the site inspection and a case file review, 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-R5246 for your facility. You can also find the General Order on the State Water Board’s website at:

http://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2014/wqo2014_0153_dwq.pdf

You should familiarize yourself with the entire General Order and its attachments that you were given during your 22 August 2017 inspection, 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

The Discharger's wastewater treatment and disposal system is currently regulated under the individual Waste Discharge Requirements (WDR) Order 99-140. The WDR was adopted on 29 October 1999 and is due for an update.

FACILITY AND DESCRIPTION

The Grizzly Creek Ranch was established as the entity responsible for the operation and maintenance of the wastewater treatment system for this facility. Sierra Nevada Journeys owns the property on which Grizzly Creek Ranch has been established. Originally the site was planned for 300 commonly owned duplex and four-plex units and resort services buildings, including RV and camp sites with an estimated discharge of 71,000 gallon per day (gpd). However that concept model failed with the collapse of the real-estate market and the development was sold to Sierra Health foundation, a non-profit organization that then developed the property as an educational retreat center. After 15 years of operation, 18 ranch Units, a lodge, and pool with a changing/bathroom facility have been constructed at the facility.

The Discharger currently has a seasonal average discharge of 15,500 gpd, of domestic wastewater to a septic tank effluent pump (STEP) system for wastewater collection. The community system consists of eight large common septic tanks with pump chambers and submersible pumps discharging to an equalization tank and then to two recirculating sand filters prior to discharge to two disposal ponds or a seasonal land application area.

Grizzly Creek Ranch is located in Sections 17, 20, 21, 28 and 29, T23N, R14E, MDB&M with surface water drainage to Grizzly Creek, as shown on Attachment A, which is attached hereto and part of the Order by reference. The site lies within the Middle Fork Feather River Hydraulic Sub Area No. 518.33 as depicted on interagency hydrologic maps prepared by the Department of Water Resources in August 1986.

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-R5246, 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.

Table 3: Summary of Wastewater System Setbacks

Site Specific Applicable Setback Requirements					
Equipment or Activity	Domestic Well	Flowing Stream ^a	Ephemeral Stream Drainage ^b	Property Line	Lake or Reservoir ^d
Septic Tank, Aerobic Treatment Unit, Treatment System, or Collection System ^e	150 ft. ^y	N/A	50 ft.	5 ft. ^{c, z}	200 ft. ^w

Wastewater Storage and/or Treatment Ponds					
Impoundment (disinfected sec-2.2 or sec-23 recycled water) ^h	100 ft. ^r	100 ft.	100 ft.	50 feet	200 ft. ^w
<i>Land Application Area Requirements</i>					
LAA (undisinfected secondary recycled water) ⁱ	150 ft. ^s	100 ft.	100 ft.	100 ft. ^x 50 ft. ^p	200 ft.

N/A denotes Not Applicable, as the defined feature is not found within the general area of the facility.

- a A flowing stream shall be measured from the ordinary high water mark established by fluctuations of water elevation and indicated by characteristics such as shelving, changes in soil character, vegetation type, presence of litter or debris, or other appropriate means.
- b Ephemeral Stream Drainage denotes a surface water drainage feature that flows only after rain or snow-melt and does not have sufficient groundwater seepage (baseflow) to maintain a condition of flowing surface water. The drainage shall be measured from a line that defines the limit of the ordinary high water mark (described in "a" above). Irrigation canals are not considered ephemeral streams drainage features. The ephemeral stream shall be a "losing stream" (discharging surface water to groundwater) at the proposed wastewater system site.
- c Setback established by California Plumbing Code, Table K-1.
- d Lake or reservoir boundary measured from the high water line.
- e Septic Tank, Aerobic Treatment Unit, Treatment System, or Collection System addresses equipment located below ground or that impedes leak detection by routine visual inspection.
- h Disinfected secondary-2.2 recycled water is defined in California Code of Regulations, title 22, section 60301.220. Disinfected secondary-23 recycled water is defined in California Code of Regulations, title 22, section 60301.225.
- i Undisinfected secondary recycled water is defined in California Code of Regulations, title 22, section 60301.900.
- p Setback for drip or flood application methods. Spray irrigation is subject to additional setbacks and restrictions. (See footnote k.)
- w Setback established by the Onsite Wastewater Treatment System Policy, section 7.5.5.
- x Setback established by California Code of Regulations, title 22, section 60310(f).
- y Setback established by Onsite Wastewater Treatment System Policy, section 7.5.6.
- z Collection system to property line setback is not applicable.

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 disc 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: 5A320104003

Facility Name: Grizzly Creek Ranch

Order: 2014-0153-DWQ-R5246

Please note that WDRs Order No. 99-140 is proposed to be rescinded at the 7/8 December 2017 meeting of the Central Valley Water Board. Upon rescission of your individual WDRs, coverage for your facility under the General Order shall go into affective 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 Ron S. Falkowski at (530) 224-3227, rsfalkowski@waterboards.ca.gov, or the footer address.

Original signed by Bryan J. Smith

PAMELA C. CREEDON
Executive Officer

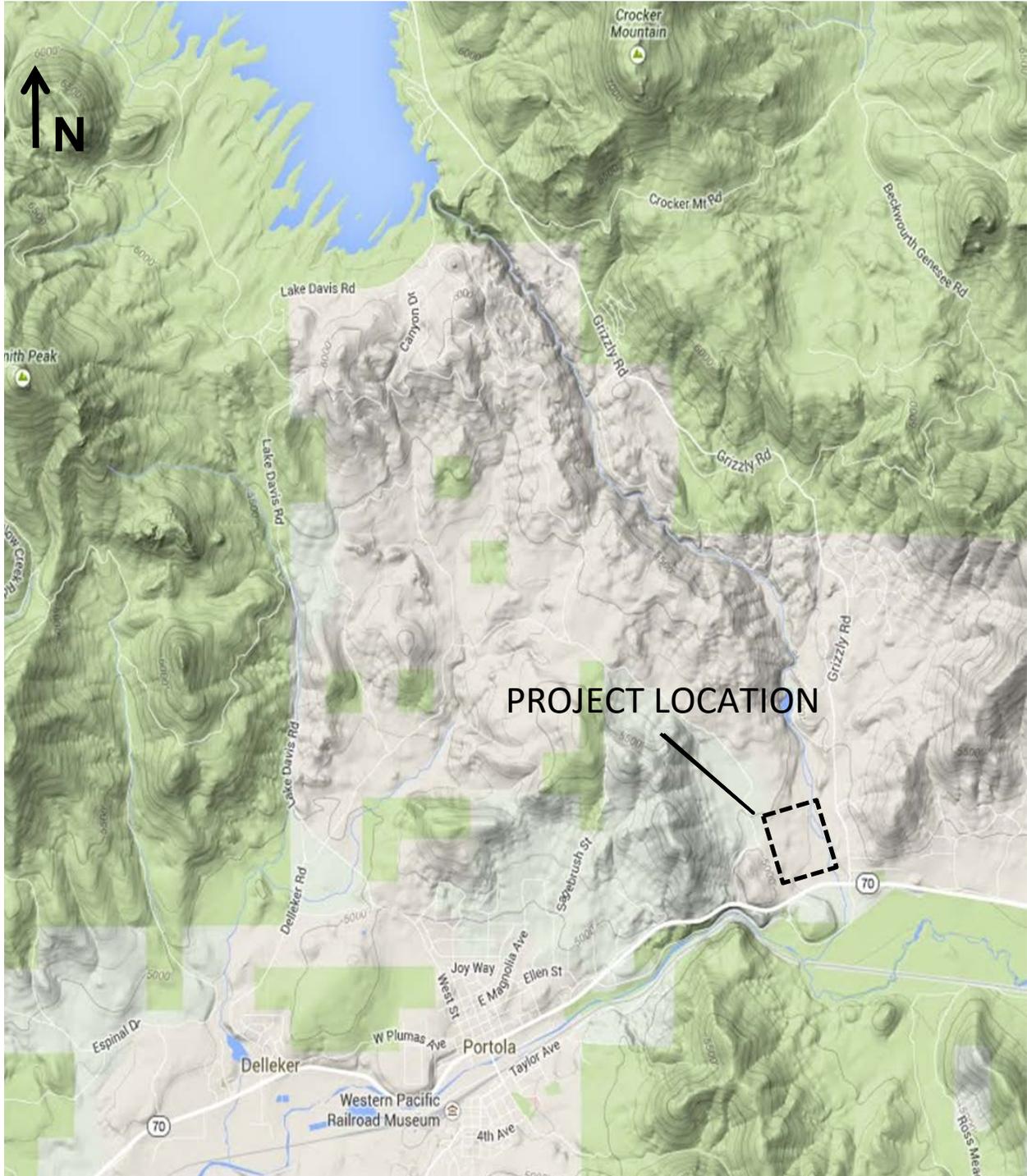
RSF: hs: db

Attachments: Attachment A – Site Location Map
Attachment B – Facility Map
Technical Memorandum
Monitoring and Reporting Program

cc w/o enc: Tim O'Brien, State Water Board, Sacramento
Plumas County Environmental Health Department, Quincy
Patrick Pulupa, SWRCB, Office of Chief Counsel, Sacramento

ORDER R5-2014-0153-R5246
GRIZZLY CREEK RANCH
WASTEWATER TREATMENT/DISPOSAL FACILITY
PLUMAS COUNTY

ATTACHMENT A - LOCATION MAP



DRAWING REFERENCE:
GOOGLE EARTH
MAP DATA: © 2016 GOOGLE
NO SCALE

LOCATION MAP
GRIZZLY CREEK RANCH
WASTEWATER TREATMENT/DISPOSAL FACILITY
PLUMAS COUNTY

ORDER R5-2014-0153-R5246
GRIZZLY CREEK RANCH
WASTEWATER TREATMENT/DISPOSAL FACILITY
PLUMAS COUNTY

ATTACHMENT B – FACILITY MAP



DRAWING REFERENCE:
GOOGLE EARTH
MAP DATA: © 2016 GOOGLE
NO SCALE

FACILITY MAP
GRIZZLY CREEK RANCH
WASTEWATER TREATMENT/DISPOSAL FACILITY
PLUMAS COUNTY

Central Valley Regional Water Quality Control Board

TECHNICAL MEMORANDUM

TO: George Low, P.G.
Senior Engineering Geologist

FROM: Ron Falkowski
Engineering Geologist

DATE: 26 September 2017

SIGNATURE: Original signed by Ron Falkowski

**SUBJECT: REVIEW OF NITRATE AND SETBACK CONDITIONS FOR GRIZZLY CREEK RANCH,
WASTE WATER TREATMENT SYSTEM, WDR ORDER 99-140, PLUMAS COUNTY**

I have reviewed the case file for Grizzly Creek Ranch. The file documents the general condition of the wastewater evaporation/ percolation ponds. The Discharger has kept adequate maintenance documentation and all treatment and collection infrastructure appears in good order. The dissolved oxygen levels are monitored at the first wastewater treatment pond.

The average daily wastewater flow is less than 16,000 gallons per day. The treatment ponds have a design capacity which is above the storage volume required by the existing community.

Potential Threats to Water Quality

The wastewater treatment system is located northeast of the City of Portola. The closest distance from the wastewater ponds to the nearest property line is greater than 50 feet. The closest potable water well is greater than 500 feet from the wastewater ponds. The closest surface water is greater than 500 feet from the used area of the evaporation pond and 200 ft. from the Land Application Area. A monitoring well network was installed at the site due to high groundwater, poor soil conditions and its proximity to Grizzly Creek. Completion of the Nitrate Checklist in Attachment 1 of Order 2014-0153-DWQ indicates the following flow and rationale:

A1 Exceed 20,000 gpd? No.

Wastewater flow generally less than 16,000 gpd.

Conclusion: No nitrogen removal is required.

Monitoring Requirements

To protect water quality, General Order monitoring requirements will be sufficient. 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. In summary, Staff recommends quarterly reporting of the average daily flow rate; quarterly leach field monitoring, and quarterly groundwater well monitoring. Quarterly monitoring will be reported by the first day of the second month after the quarter ends (e.g. January-March report is due by May 1st). Annual monitoring will be included with the fourth quarter monitoring.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM 2014-0153-DWQ-R5246

FOR

SIERRA NEVADA JOURNEYS
DBA
GRIZZLY CREEK RANCH
PLUMAS 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 Electronic Content Management (ECM) database via email in portable document format (pdf). The email address for the ECM submittal is: centralvalleyredding@waterboards.ca.gov

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.

LAND APPLICATION AREA (LAA) 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 include the following:

<u>Constituent</u>	<u>Units</u>	<u>Sample Type</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
Supplemental Irrigation	gpd	Meter ^a	Monthly	Quarterly
Wastewater Flow ^a	gpd	Meter ^a	Monthly	Quarterly
Local Rainfall	Inches	Weather Station ^b	Monthly	Quarterly
Acreage Applied ^c	Acres	Calculated	Monthly	Quarterly
Application Rate	gal/acre/mo	Calculated	Monthly	Quarterly
Soil Erosion Evidence	--	observation	Monthly	Quarterly
Containment Berm Condition	--	observation	Monthly	Quarterly
Soil Saturation/Ponding	--	observation	Monthly	Quarterly
Nuisance Odors/Vectors	--	observation	Monthly	Quarterly
Discharge Off-Site	--	observation	Monthly	Quarterly

gpd denotes gallons per day.

- a. Meter requires meter reading, a pump run time meter, or other approved method.
- b. Weather station may be site-specific station or nearby governmental weather reporting station.
- c. Acreage applied denotes the acreage to which wastewater is applied.
- d. Application rate may also be reported as inch/acre/month.

GROUNDWATER MONITORING

Groundwater monitoring data from the current monitoring network, wells MW1, MW-2, & MW3, shall be submitted quarterly. Analysis of the data and groundwater flow directions shall be performed at least annually and shall be performed under the supervision of a California licensed professional (as described above). The Discharger may request a reduced monitoring and reporting schedule once adequate data has been collected to characterize the site. (Typically two years of quarterly sampling is required for adequate characterization.)

The Discharger shall monitor groundwater quality as is consistent with the Business and Professions Code, groundwater monitoring reports, well construction workplans, etc. shall be prepared under the supervision of a California licensed civil engineer or geologist. Prior to construction of any new groundwater monitoring wells, the Discharger shall submit plans and specifications to the Regional Water Board's staff for review and approval. Once installed, all monitoring wells designated as part of the monitoring network shall be sampled and analyzed according to the schedule below.

Prior to sampling, groundwater elevations shall be measured and the wells shall be purged of at least three well volumes and until pH and electrical conductivity values have stabilized. No-purge, low-flow, or other sampling techniques are acceptable if they are described in an approved Sampling and Analysis Plan. Depth to groundwater shall be measured to the nearest 0.01 feet. Groundwater elevations shall be calculated. Samples shall be collected using approved USEPA methods. Groundwater monitoring shall include, at a minimum, the following:

Constituent	Units	Sample Type	Sampling/Reporting Frequency ^{c, d}
Groundwater Elevation ^a	0.01 Feet	Calculated	Quarterly
Depth to Groundwater	0.01 Feet	Measurement	Quarterly
Gradient	Feet/Feet	Calculated	Quarterly
Gradient Direction	degrees	Calculated	Quarterly
pH	Std. Units	Grab	Quarterly
Total Dissolved Solids	mg/L	Grab	Quarterly
Nitrate as Nitrogen	mg/L	Grab	Quarterly
Sodium	mg/L	Grab	Quarterly
Chloride	mg/L	Grab	Quarterly
Total Coliform Organisms ^b	MPN/100 mL	Grab	Quarterly

MPN/100 mL denotes most probable number per 100 mL sample. - Std. Units denotes standard units. - mg/L denotes milligrams per liter.

- a. Groundwater elevation shall be based on depth to water using a surveyed measuring point elevation on the well and a surveyed reference elevation.
- b. Using a minimum of 15 tubes or three dilutions.
- c. Monitoring of the constituents zinc, phenol, and formaldehyde are required only when recreational vehicles were allowed to discharge to the wastewater system in the previous 12 months.
- d. Analysis of data by a California licensed professional is required at least annually.

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:

Original signed by Bryan J. Smith

PAMELA C. CREEDON, Executive Officer

26 September 2017

(Date)