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## Central Valley Regional Water Quality Control Board

26 March 2018

WDID: 5A450702002

Mr. John Arroyo  
USDI National Park Service, Whiskeytown Lake  
Oak Bottom Recreational Area  
P.O. Box 188  
Whiskeytown, CA 96095

**CERTIFIED MAIL:**  
7014 0510 0001 3246 9755

### **NOTICE OF APPLICABILITY (NOA), WATER QUALITY ORDER 2014-0153-DWQ-R5261, USDI NATIONAL PARK SERVICE, OAK BOTTOM RECREATIONAL AREA, WHISKEYTOWN LAKE, SHASTA COUNTY**

On 9 January 2018 Central Valley Regional Water Quality Control Board (Central Valley Water Board) staff inspected the wastewater facilities at USDI National Park Service, Oak Bottom Recreational Area (hereafter "Discharger") located 8 miles west of Redding in Whiskeytown, Shasta 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-R5261 for your facility.

You should familiarize yourself with the entire General Order and its attachments enclosed with this letter, which prescribes 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). This MRP was developed after consideration of your waste characterization and site conditions described in the attached *Technical Memorandum*.

### **REGULATORY BACKGROUND**

Waste Discharge Requirements Order 93-032 (WDRs) were adopted for this facility by the Central Valley Water Board on 26 February 1993. The Monitoring and Reporting Program requires the following:

- Daily monitoring of effluent flow
- Weekly monitoring of effluent for biochemical oxygen demand, settleable matter, suspended matter, coliform organisms and pH
- Annual sludge monitoring

## **DISCHARGE DESCRIPTION**

Oak Bottom Recreational Area is a public beach located approximately 8 miles west of Redding in Whiskeytown, Shasta County. The Facility is in Section 6, T32N, R6W, MDB&M in Shasta County.

The Facility is comprised of a marina with an amphitheater, concession office and public bathroom, a boat launch with a fish cleaning station and grinder, public bathrooms, a fire resource center, Oak Bottom store, a snack bar, and the upper and lower campgrounds with two self-service RV dump stations. Wastewater from all of these locations combines at lift station 6, located in the boat launch area, and is pumped to the wastewater treatment plant. The wastewater treatment plant is made up of a 20,000 gallon primary tank, two 6,500 gallon equalization tanks, a biofiltration recirculating filter system, a chlorine dosing system, and a one million gallon final holding tank equipped with a recirculation and aeration (R&A) pump. Wastewater from the holding tank can be dosed with chlorine a second time or be sent directly to the sprayfield, which is located on a dirt road off of Highway 299 in a gated and fenced area of five acres.

The maximum wastewater design flow is 5,600 gallons per day (gpd). The average 12 month flow rate in 2016 was approximately 5,629 gpd. The facility is allowed seasonal discharge to their sprayfield and average peak monthly flow was 33, 399 gpd.

This is an existing facility; therefore enrollment under the General Order is categorically exempt from the California Environmental Quality Act (CEQA) pursuant to California Code of Regulations, title 14, section 15301 which applies to ongoing or existing projects.

## **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-R5261, 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. The table below summarizes Table 3 of the General Order's different setback requirements for wastewater system equipment, activities, and storage and/or treatment ponds from sensitive receptors and property lines where applicable. The Discharger shall comply with the following applicable setback requirements:

| Site Specific Applicable Setback Requirements (Table 3)                                  |                      |                             |  |                      |                                |
|--|----------------------|-----------------------------|--|----------------------|--------------------------------|
| Equipment or Activity  | Domestic Well        | Flowing Stream <sup>a</sup> | Ephemeral Stream Drainage <sup>b</sup> | Property Line        | Lake or Reservoir <sup>d</sup> |
| Septic Tank, Aerobic Treatment Unit, Treatment System, or Collection System <sup>e</sup> | 150 ft. <sup>y</sup> | 50 ft. <sup>c</sup>         | 50 ft.                                 | 5 ft. <sup>c</sup>   | 200 ft. <sup>w</sup>           |
| LAA (disinfected sec-2.2 or sec-23 recycled water) <sup>h</sup>                          | 100 ft. <sup>r</sup> | 50 ft.                      | 50 ft.                                 | 100 ft. <sup>x</sup> | 200 ft.                        |
| Impoundment (disinfected sec-2.2 or sec-23 recycled water) <sup>h</sup>                  | 100 ft. <sup>r</sup> | 100 ft.                     | 100 ft.                                | 50 ft.               | 200 ft.                        |

LAA denotes Land Application Area.

<sup>a</sup> 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.

<sup>b</sup> 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.

<sup>c</sup> Setback established by California Plumbing Code, Table K-1.

<sup>d</sup> Lake or reservoir boundary measured from the high water line.

<sup>e</sup> Septic Tank, Aerobic Treatment Unit, Treatment System, or Collection System addresses equipment located below ground or that impedes leak detection by routine visual inspection.

<sup>h</sup> 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.

<sup>r</sup> Setback established by California Code of Regulations, title 22, section 60310(c).

<sup>x</sup> Setback established by California Code of Regulations, title 22, section 60310(f).

<sup>w</sup> Setback established by the Onsite Wastewater Treatment System Policy, section 7.5.5.

<sup>y</sup> Setback established by Onsite Wastewater Treatment System Policy, section 7.5.6.

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. Current facility and billing information



Mr. John Arroyo  
USDI National Park Service  
Whiskeytown Lake  
Oak Bottom Recreational Area

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26 March 2018

Attachments: Technical Memorandum  
Monitoring and Reporting Program  
Oak Bottom Recreational Area Location Map  
General Order 2014-0153-DWQ

cc w/o encl.: Shasta County Department of Environmental Health, Redding  
Tim O'Brien, State Water Board, Sacramento  
Patrick Pulupa, SWRCB, Office of Chief Counsel, Sacramento  
Sally-jo McAllister, Whiskeytown National Park Service, Whiskeytown

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Central Valley Regional Water Quality Control Board

**TECHNICAL MEMORANDUM**

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

**FROM:** Heidi Bauer  
Sanitary Engineering Associate

**DATE:** 26 March 2018

**SIGNATURE:** Original signed by George Low

**SUBJECT: REVIEW OF NITRATE AND SETBACK CONDITIONS FOR USDI NATIONAL PARK SERVICE, OAK BOTTOM RECREATIONAL AREA, WHISKEYTOWN LAKE, GENERAL ORDER WQ 2014-0153-DWQ-R5261 ENROLLMENT, SHASTA COUNTY**

Staff has reviewed the case file and the 9 January 2018 Inspection Report for USDI National Park Service, Oak Bottom Recreational Area, Whiskeytown Lake, Shasta County. The report assesses the general condition of the wastewater treatment system and land application area. The Discharger has kept adequate documentation of maintenance activities, and all treatment and collection infrastructure appears in good order.

Oak Bottom Recreational Area is a public beach located approximately 8 miles west of Redding in Whiskeytown, Shasta County. The Facility is in Section 6, T32N, R6W, MDB&M in Shasta County. The Facility is comprised of a marina with an amphitheater, concession office and public bathroom, a boat launch with a fish cleaning station and grinder, public bathrooms, a fire resource center, Oak Bottom store, a snack bar, and the upper and lower campgrounds with two self-service RV dump stations. Wastewater from all of these locations combines at lift station 6, located in the boat launch area, and is pumped to the wastewater treatment plant. The wastewater treatment plant is made up of a 20,000 gallon primary tank, two 6,500 gallon equalization tanks, a biofiltration recirculating filter system, a chlorine dosing system, and a one million gallon final holding tank equipped with a recirculation and aeration (R&A) pump. Wastewater from the holding tank can be dosed with chlorine a second time or be sent directly to the sprayfield, which is located on a dirt road off of Highway 299 in a gated and fenced area of five acres.

**Potential Threats to Water Quality**

The closest distance from the land application areas (sprayfields) to the nearest property line is greater than 25 feet. The closest potable water well is greater than 150 feet from the onsite septic tanks and greater than 50 feet of the leachfields. The facility flow based on a 12 month average is 5,629 gpd.

Completion of the Nitrate Checklist in Attachment 1 of Order 2014-0153-DWQ indicates the following flow and rationale:

A1 Exceed 20,000 gpd? Yes.

KARL E. LONGLEY ScD, P.E., CHAIR | PAMELA C. CREEDON P.E., BCEE, EXECUTIVE OFFICER

Wastewater flow is generally greater than 20,000 gpd (on days which discharge occurs). The average 12 month flow rate in 2016 was approximately 5,629 gpd. The facility is allowed seasonal discharge to their sprayfield and average peak monthly flow was 33,399 gpd.

A2 Shallow Groundwater? No.

Groundwater is generally more than 20 feet below ground surface level.

Conclusion: No nitrogen removal is required.

### **Monitoring Requirements**

To protect water quality, General Order monitoring requirements will be sufficient. In summary, staff recommends quarterly reporting of effluent monitoring, disinfection system monitoring, recreational vehicle discharge monitoring, and land application area monitoring; and annual reporting of septic tank 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 is due 1 March following the monitoring year (e.g. 2018 report is due 1 March 2019).

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM 2014-0153-DWQ-R5261

FOR

USDI NATIONAL PARK SERVICE  
OAK BOTTOM RECREATIONAL AREA  
WHISKEYTOWN LAKE

SHASTA 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](mailto: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.

### SEPTIC TANK MONITORING

Monitoring of septic tank shall include the following:

| <u>Parameter</u> | <u>Units</u> | <u>Sample Type</u>   | <u>Sampling Frequency</u> | <u>Reporting Frequency</u> |
|------------------|--------------|----------------------|---------------------------|----------------------------|
| Flow Rate        | gpd          | Metered <sup>a</sup> | Continuous                | Annually                   |

gpd denotes gallons per day.

<sup>a</sup> Flow rate may be metered or estimated based on potable water supply meter readings or other approved method.

Septic 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.

| <u>Parameter</u>  | <u>Units</u> | <u>Measurement Type</u> | <u>Inspection/Reporting Frequency</u> |
|---|--------------|-------------------------|---------------------------------------|
| Sludge depth and scum thickness in each compartment of each tank  | Feet         | Staff Gauge             | Annually                              |
| Distance between bottom of scum layer and bottom of outlet device | Inches       | Staff Gauge             | Annually                              |
| Distance between top of sludge layer and bottom of outlet device  | Inches       | Staff Gauge             | Annually                              |
| Effluent filter condition (if equipped, clean as needed)          | N/A          | N/A                     | Annually                              |

N/A denotes not applicable.

Septic 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 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.

## AEROBIC TREATMENT UNIT MONITORING

### 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:

| <u>Parameter</u>          | <u>Units</u> | <u>Sample Type</u>   | <u>Sampling Frequency</u> | <u>Reporting Frequency</u> |
|---------------------------|--------------|----------------------|---------------------------|----------------------------|
| Flow Rate                 | gpd          | Metered <sup>a</sup> | Continuous                | Quarterly                  |
| Biochemical Oxygen Demand | mg/L         | Grab                 | Monthly                   | Quarterly                  |

gpd denotes gallons per day. mg/L denotes milligrams per liter.

<sup>a</sup> Flow rate may be metered or estimated based on potable water supply meter readings or other approved method. Flow rates may be measured as influent or effluent flow.

Aerobic treatment units may be integrated in a treatment train and all components shall be inspected to verify operational status. It is highly recommended that a service agreement with a qualified service provider/vendor be required by the Regional Water Board's Executive Officer.

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. 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. Inspections of sludge and scum depth are not required if the tanks are pumped at least annually.

| <u>Parameter</u>  | <u>Units</u> | <u>Measurement Type</u> | <u>Inspection/Reporting Frequency</u> |
|---|--------------|-------------------------|---------------------------------------|
| Sludge depth and scum thickness in each compartment of each tank  | Feet         | Staff Gauge             | Quarterly                             |
| Distance between bottom of scum layer and bottom of outlet device | Inches       | Staff Gauge             | Quarterly                             |
| Distance between top of sludge layer and bottom of outlet device  | Inches       | Staff Gauge             | Quarterly                             |
| Effluent filter condition (if equipped, clean as needed)          | N/A          | N/A                     | Quarterly                             |

N/A denotes not applicable.

### DISINFECTION SYSTEM MONITORING

If disinfection is performed, samples shall be collected from immediately downstream of the disinfection system. Depending upon the level of disinfection and wastewater disposal, monitoring requirements vary. Disinfection monitoring shall be customized to the site-specific conditions from the following:

| <u>Constituent</u>       | <u>Units</u> | <u>Sample Type</u> | <u>Sample Frequency</u> | <u>Reporting Frequency</u> |
|--------------------------|--------------|--------------------|-------------------------|----------------------------|
| Total Coliform Organisms | MPN/100 mL   | Grab               | TBD <sup>a</sup>        | Quarterly                  |
| Turbidity                | NTU          | Grab/Meter         | TBD <sup>a</sup>        | Quarterly                  |

MPN/100 mL denotes most probable number per 100 mL sample. NTU denotes nephelometric turbidity unit.

<sup>a</sup> TBD (to be determined) shall be specified in the NOA or as required by California Code of Regulations, title 22 section 60321.

### RECREATIONAL 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 stored in wastewater ponds or that will be applied to a disposal area. Wastewater shall be monitored as specified below:

| <u>Constituent</u> | <u>Units</u> | <u>Sample Type</u> | <u>Sample Frequency</u>                                | <u>Reporting Frequency</u> |
|--------------------|--------------|--------------------|--|----------------------------|
| Zinc               | mg/L         | Grab               | 3 <sup>rd</sup> & 4 <sup>th</sup> Quarter <sup>a</sup> | Annually <sup>b</sup>      |
| Phenol             | mg/L         | Grab               | 3 <sup>rd</sup> & 4 <sup>th</sup> Quarter <sup>a</sup> | Annually <sup>b</sup>      |
| Formaldehyde       | mg/L         | Grab               | 3 <sup>rd</sup> & 4 <sup>th</sup> Quarter <sup>a</sup> | Annually <sup>b</sup>      |

mg/L denotes milligrams per liter.

<sup>a</sup> Sampling shall be conducted in the 3<sup>rd</sup> (July – Sept.) and 4<sup>th</sup> Quarters (Oct., or the last month of operation).

<sup>b</sup> Annual reporting shall be submitted with the 1 March Annual Report.

### 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 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 <sup>a</sup>           | Monthly                   | Quarterly                  |
| Wastewater Flow <sup>a</sup>  | gpd          | Meter <sup>a</sup>           | Monthly                   | Quarterly                  |
| Local Rainfall                | Inches       | Weather Station <sup>b</sup> | Monthly                   | Quarterly                  |
| Acreage Applied <sup>c</sup>  | Acres        | Calculated                   | Monthly                   | Quarterly                  |
| Application Rate <sup>d</sup> | 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.

<sup>a</sup> Meter requires meter reading, a pump run time meter, or other approved method.

<sup>b</sup> Weather station may be site-specific station or nearby governmental weather reporting station.

<sup>c</sup> Acreage applied denotes the acreage to which wastewater is applied.

<sup>d</sup> Application rate may also be reported as inch/acre/month.

### 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. If disinfection with ultraviolet light is performed, describe disinfection system maintenance activities performed in the calendar year. The description shall address inspections performed, lamp bulb replacement, lamp sleeve cleaning, and manufacturer recommended maintenance activities.
4. 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.
5. A discussion of any data gaps and potential deficiencies/redundancies in the monitoring system or reporting program.
6. The name and contact information for the wastewater operator responsible for operation, maintenance, and system monitoring.
7. A groundwater monitoring report prepared by a California licensed professional. This report may be prepared separately from the rest of the Annual Report. The report shall contain an analysis of groundwater data collected during the year. The analysis shall

include a description of the sample events, copies of the field logs, purge method and volume, groundwater elevation and trend, a groundwater elevation map for each sample event, summary tables showing results for parameters measured, comparison of groundwater quality parameters to standards in the NOA, chain-of-custody forms, calibration logs for field equipment used, and a general evaluation of any impacts the wastewater discharge is having on groundwater quality.

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 Smith*

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PAMELA C. CREEDON, Executive Officer

3/26/2018

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DATE

**LOCATION MAP**



DRAWING REFERENCE:  
GOOGLE EARTH  
MAP DATA: © 2017 GOOGLE  
NO SCALE

LOCATION MAP  
OAK BOTTOM RECREATIONAL AREA  
SHASTA COUNTY