

California Regional Water Quality Control Board
North Coast Region

MONITORING AND REPORTING PROGRAM NO. R1-2010-0002

FOR

SEA RANCH LODGE
WASTEWATER TREATMENT AND DISPOSAL FACILITY
WDID No. 1B06006RSON

Sonoma County

California Water Code section 13267 authorizes the Regional Water Quality Control Board (Regional Water Board) to require technical and monitoring reports. This monitoring and reporting program establishes monitoring and reporting requirements, which implement the state regulations. Any person failing to furnish technical or monitoring reports or falsifying any information therein is guilty of a misdemeanor, and may be subject to civil liability. (Water Code section 13268)

FLOW MEASUREMENT

Wastewater flow to the wastewater treatment system facility, the pressure distributed leachfield, and the subsurface drip irrigation system shall be measured and recorded daily. If there is no discharge during a required reporting period, the Permittee shall indicate in the monthly report that there has been no activity during the required reporting period. All flow measurement devices shall be tested annually and their accuracy verified. Verification shall be submitted with the annual monitoring report.

VISUAL MONITORING

The Permittee shall conduct visual inspections of all septic tanks, grease traps, treatment equipment, cleanouts, and pump stations, no less than monthly. Disposal areas shall be inspected no less than monthly to record any odors, evidence of surfacing effluent, or other signs of malfunction or improper operation.

EFFLUENT MONITORING

The Permittee shall collect samples of the effluent discharge no less than monthly from the waste stream after completion of treatment and prior to discharge to the leachfield and subsurface irrigation systems. Samples shall be collected in accordance with the following table:

Table 1. Effluent Monitoring

| Constituent | Units | Type of Sample | Frequency |
|---------------------------|--------------|-----------------------|------------------|
| Biochemical Oxygen Demand | mg/L | Grab | Monthly |
| Total Suspended Solids | mg/L | Grab | Monthly |
| Total Coliform Organisms | MPN/ 100 mL | Grab | Monthly |
| Total Nitrogen | mg/L as N | Grab | Monthly |
| Nitrate-Nitrogen | mg/L as N | Grab | Monthly |

GROUNDWATER MONITORING

The Permittee shall conduct routine groundwater monitoring in the vicinity of its subsurface disposal areas. The routine groundwater monitoring program shall consist of the following:

1. **Monitoring Well Construction**

Monitoring wells shall be constructed to yield representative samples year-round from the uppermost layer of the uppermost aquifer and to comply with applicable well standards. The Permittee shall submit for approval by the Regional Water Board Executive Officer a report detailing relevant subsurface stratigraphy and lithology, a diagram of the well showing total drilled depth, well installation depth, construction details including screened interval, surveyed top of casing elevation, and a location map for all installed wells, surveyed to the nearest 0.1 foot.

2. **Monitoring Locations**

Groundwater monitoring wells shall be located to allow evaluation of the impact of the waste discharge on groundwater quality in comparison to background groundwater quality and for evaluation of compliance with water quality objectives for groundwater. Additional monitoring wells constructed at the site shall be added to the monitoring network as needed. Samples shall be collected from all installed wells for the constituents specified in Table 2.

3. **Monitoring Schedule**

Groundwater samples shall be collected from monitoring wells on at least a quarterly basis. Prior to sampling, the groundwater elevations shall be measured and the wells shall be purged of at least three well volumes until temperature, pH and electrical conductivity have stabilized. Depth to groundwater shall be measured prior to purging to the nearest 0.01 feet. Groundwater samples shall be collected and analyzed for the following constituents:

Table 2. Groundwater Monitoring

| Constituent | Units | Type of Sample | Frequency |
|--------------------------|-------------|----------------|-----------|
| Groundwater Elevation | 0.01 ft | Calculation | Quarterly |
| Depth to Groundwater | 0.01 ft | Measurement | Quarterly |
| Total Dissolved Solids | mg/L | Grab | Quarterly |
| Total Coliform Organisms | MPN/ 100 mL | Grab | Quarterly |
| Fecal Coliform Organisms | MPN/ 100 mL | Grab | Quarterly |
| Nitrate-Nitrogen | mg/L as N | Grab | Quarterly |

SPILLS AND OVERFLOWS NOTIFICATION

1. All spills and sanitary sewer overflows (SSOs) in excess of 1,000 gallons or any size spill or SSO that results in a discharge to a drainage channel or a surface water:
 - a. As soon as possible, but not later than **two (2) hours** after becoming aware of the discharge, the Discharger shall notify the State Office of Emergency Services (OES), the local health officer or directors of environmental health with jurisdiction over affected water bodies or land areas, and the Regional Water Board¹.

Information to be provided verbally to the Regional Water Board includes:

- i. Name and contact information of caller;
 - ii. Date, time and location of spill occurrence;
 - iii. Estimates of spill volume, rate of flow, and spill duration;
 - iv. Surface water bodies impacted, if any;
 - v. Cause of spill;
 - vi. Cleanup actions taken or repairs made; and
 - vii. Responding agencies.
- b. As soon as possible, but not later than **twenty-four (24) hours** after becoming aware of a discharge, the Discharger shall submit to the Regional Water Board a certification that the State Office of Emergency Services and the local health officer or directors of environmental health with jurisdiction over affected water bodies or land areas have been notified of the discharge. For the purpose of this requirement, "certification" means an OES certification number and, for the local health department, name of local health staff, department name, phone number and date and time contacted.

¹ The contact number for spill reporting for the Office of Emergency Services is (800) 852-7550. The contact number of the Regional Water Board during normal business hours is (707) 576-2220. After normal business hours, spill reporting to OES will satisfy the 2 hour notification requirement for the Regional Water Board.

- c. Within **five (5) business days**, the Discharger shall submit a written report to the Regional Water Board office. The report must include all available details related to the cause of the spill and corrective action taken, as well as copies of reports submitted to other agencies.

Information to be provided in writing includes:

- i. Information provided in verbal notification;
 - ii. Other agencies notified by phone;
 - iii. Detailed description of cleanup actions and repairs taken; and
 - iv. Description of actions that will be taken to minimize or prevent future spills.
- d. In the cover letter of the monthly monitoring report, the Discharger shall include a brief written summary of the event and any additional details related to the cause or resolution of the event, including, but not limited to results of any water quality monitoring conducted.
2. Discharges less than 1,000 gallons that do not reach a drainage channel or a surface water:
 - a. As soon as possible, but not later than **twenty-four (24) hours** after becoming aware of the discharge, the Discharger shall notify the Regional Water Board and provide the applicable information specified in requirement 1.A of this section.
 - b. In the cover letter of the monthly monitoring report, the Discharger shall include a written description of the event.

MONTHLY MONITORING REPORT

The Permittee shall submit monthly reports. Reports shall be submitted by the first day of the second month following sampling. The report shall include, at a minimum, the following:

1. **A Letter of Transmittal:** Each report shall be submitted with a letter of transmittal. This letter shall include the following:
 - a. Identification of facility: Name, address, Order number, and WDID number;
 - b. Date of report and monitoring period;
 - c. Identification of all violations of permit conditions found during the monitoring period, including, but not limited to exceedances of average and maximum effluent limitations, system upsets, surfacing effluent, and failure to conduct required monitoring.
 - d. Details of the violations: parameters, magnitude, test results, frequency, and dates;

- e. The cause of the violation;
- f. Discussion of corrective actions taken or planned to resolve violations and prevent recurrence, and dates or time schedule of action implementation;
- g. Other relevant information including, but not limited to, incidents of wastewater treatment and collection system equipment failure, results of visual observations, system adjustments and cleaning, significant repairs, and reports of wastewater spills or surfacing effluent;
- h. Authorized signature and certification statement.

2. **Report Submittal:** Copies of each monitoring report shall be mailed to:

North Coast Regional Water Quality Control Board
5550 Skylane Boulevard, Suite A
Santa Rosa, CA 95403

ANNUAL MONITORING REPORT

By January 31 of each year, the Permittee shall present an evaluation of the previous year's data, system performance in relation to design capacity, system maintenance, and a review of noncompliance, effluent limitation exceedances and system alterations. The report shall include, at a minimum, the following:

1. **Influent and Effluent Monitoring Data.** A summary of influent and effluent monitoring data from the previous year shall be provided in a tabular format.
2. **Groundwater Monitoring.** The results of groundwater monitoring shall be provided as follows:
 - a. A narrative description of all preparatory, monitoring, sampling, and analytical testing activities for the groundwater monitoring. The narrative shall be sufficiently detailed to verify compliance with waste discharge requirements and this monitoring and reporting program. The narrative shall be supported by field logs for each well documenting depth to groundwater; parameters measured before, during, and after purging; method of purging; calculation of casing volume; and total volume of water purged;
 - b. Calculation of groundwater elevations;
 - c. A narrative discussion of the analytical results for all groundwater locations monitored including spatial and temporal trends, with reference to summary data tables, graphs, and appended analytical reports (as applicable);
 - d. A comparison of monitoring data to the groundwater limitations and an explanation of any violation of those requirements;
 - e. A scaled map showing relevant structures and features of the facility, the locations of monitoring wells and any other sampling stations; and
 - f. Copies of laboratory analytical report(s) for groundwater monitoring.

3. **Compliance Evaluation Summary** The Permittee shall provide a comprehensive discussion of the facility's compliance with all effluent and receiving water limitations and other waste discharge requirements, and the corrective actions taken or planned, which may be needed to bring the discharge into full compliance with the Permit.

Ordered by: _____

Catherine Kuhlman
Executive Officer

January 21, 2010