

California Regional Water Quality Control Board
North Coast Region

**MONITORING AND REPORTING PROGRAM No. R1-2020-0036
FOR
KNIGHTS BRIDGE WINERY DOMESTIC WASTEWATER SYSTEM
Sonoma County
(WDID No. 1B190006RSON)**

This Monitoring and Reporting Program (MRP) describes requirements for monitoring a wastewater treatment system. California Water Code sections 13267 authorize the Regional Water Quality Control Board (Regional Water Board) to require technical and monitoring reports. This MRP establishes monitoring and reporting requirements, which implement California regulations.

Knights Bridge Vineyards, LLC (Discharger) owns and operates the wastewater system that is subject to the Notice of Applicability (NOA) of General Waste Discharge Requirements for Small Domestic Wastewater Treatment Systems, Order WQ 2014-0153-DWQ (General Order). The reports required by the MRP are necessary to ensure the Discharger complies with the NOA and General Order.

I. GENERAL MONITORING PROVISIONS

- A.** If the Discharger monitors any pollutant more frequently than required by this MRP, using test procedures as specified in this MRP, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the quarterly and annual self-monitoring reports.
- B.** Analysis of monitoring samples shall be performed by Laboratories certified by the State Water Resources Control Board, Division of Drinking Water, in accordance with the provision of Water Code section 13176, and must include quality assurance/quality control data with their reports.
- C.** Compliance and monitoring analyses shall be conducted using commercially available and reasonably achievable detection limits that are lower than the applicable effluent limitation. If no minimum level (ML) value is below the effluent limitation, the lowest ML shall be selected as the reporting level (RL).

II. MONITORING LOCATIONS

The Discharger shall establish the following monitoring locations to demonstrate compliance with the discharge prohibitions, discharge specifications, and other requirements in this Order:

Table 1. Monitoring Station Locations

Monitoring Location Name	Monitoring Location Description
DWST	Domestic waste septic tank located north of winery
BMTS	BioMicrobics treatment system
METER-001	Effluent flow meter located between BioMicrobics aerobic tank and effluent storage tank.
METER-002	Effluent flow meter located between UV disinfection unit and surface disposal drip irrigation field
EFF-001	Effluent sampling port located between ultraviolet light disinfection system and surface disposal drip irrigation field.
SD-FIELD	Visual observation of surface disposal drip irrigation field.

III. SEPTIC TANK MONITORING

A. The Discharger shall monitor the domestic waste septic tank at monitoring location DWST as follows:

Table 2. Septic Tank Monitoring

<u>Parameter</u>	<u>Units</u>	<u>Sample Type</u>	<u>Inspection 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 (clean as needed)	--	--	Annually

B. The Discharger shall pump the domestic waste septic tank when any of the following conditions exist:

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 the 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.

IV. BIOMICROBICS TREATMENT UNIT MONITORING

- A. The Discharger shall monitor the volume of treated effluent at monitoring location METER-001 as follows:

Table 3. BioMicrobics Effluent Flow Monitoring

<u>Parameter</u>	<u>Units</u>	<u>Sample Type</u>	<u>Monitoring Frequency</u>
Average Daily Flow	Gallons per day (gpd)	Metered	Monthly

- B. The Discharger shall monitor the BioMicrobics treatment system at monitoring location BMTS as follows:

Table 4. BioMicrobics Treatment System Monitoring

<u>Parameter</u>	<u>Units</u>	<u>Sample Type</u>	<u>Inspection Frequency</u>
Odors	--	Observation	Monthly
Effluent screen condition (clean as needed)	--	--	Monthly

The Discharger shall maintain the BioMicrobic treatment system in accordance with the manufacturer’s manual, including but not limited to solids removal. If the treatment system 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.

V. ULTRAVIOLET (UV) DISINFECTION SYSTEM MONITORING

- A. The Discharger shall monitor the volume of UV disinfected effluent at monitoring location METER-002 as follows:

Table 5. UV Disinfection Effluent Flow Monitoring

<u>Parameter</u>	<u>Units</u>	<u>Sample Type</u>	<u>Monitoring Frequency</u>
Average Daily Flow	Gallons per day (gpd)	Metered	Monthly

B. The Discharger shall monitor the quality of UV disinfected effluent at monitoring location EFF-001 as follows:

Table 6. UV Disinfection Effluent Quality Monitoring

<u>Parameter</u>	<u>Units</u>	<u>Sample Type</u>	<u>Monitoring Frequency</u>
Total Coliform Organisms	MPN/100mL	Grab	Quarterly
Turbidity	NTU	Grab/Metered	Quarterly
Biochemical Oxygen Demand	mg/L	Grab	Quarterly ¹
Total Suspended Solids	mg/L	Grab	Quarterly ²

VI. SURFACE DISPOSAL DRIP IRRIGATION FIELD MONITORING

The Discharger shall monitor the operation of and discharge to the surface disposal irrigation field at monitoring location SD-FIELD as follows:

Table 7. Surface Disposal Drip Irrigation Field Monitoring

<u>Parameter</u>	<u>Sample Type</u>	<u>Monitoring Frequency</u>
Pump Controllers, Automatic Valves, Irrigation Line, etc.	Observation	Quarterly
Soil Erosion Evidence	Observation	Quarterly
Containment Berm Condition	Observation	Quarterly
Soil Saturation/Ponding	Observation	Quarterly
Nuisance Odors/Vectors	Observation	Quarterly
Discharge Off-Site	Observation	Quarterly

VII. 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.

¹ Quarterly monitoring results will be used to determine compliance with the 7-day and monthly average effluent limits

² Quarterly monitoring results will be used to determine compliance with the 7-day and monthly average effluent limits

VIII. REPORTING REQUIREMENTS

A. Monitoring Periods and Reporting Schedule

All monitoring results shall be reported in the quarterly monitoring reports. Quarterly monitoring reports shall be received by the Regional Water Board by the first day of the second month after the quarterly reporting period, as follows:

Table 8. Monitoring Periods and Reporting Schedule

<u>Report</u>	<u>Reporting Period</u>	<u>Report Due Date</u>
1 st Quarter SMR	January through March	May 1st
2 nd Quarter SMR	April through June	August 1st
3 rd Quarter SMR	July through September	November 1st
4 th Quarter SMR	October through December	February 1st

B. Annual Report

The Discharger shall submit an annual report to the Regional Water Board for each calendar year. The report shall be submitted by March 1 of the following year. The report shall, at a minimum, include the following:

1. Monitoring Data Summaries. Both tabular and, where appropriate, graphical summaries of the monitoring data and disposal records from the previous year.
2. Compliance Reporting. A comprehensive discussion of the facility's compliance (or lack thereof) with all effluent limitations and other General Order requirements and conditions, and the corrective actions taken or planned, which may be needed to bring the discharge into full compliance.

C. Electronic Submittal of Documents

All monitoring reports shall be submitted to the Regional Water Board via e-mail to NorthCoast@waterboards.ca.gov or on disk (CD or DVD) in a Portable Document Format (PDF) file in lieu of paper-sourced documents. The guidelines for electronic submittal of documents can be found on the Regional Water Board website at: <http://www.waterboards.ca.gov/northcoast>.

At any time during the term of this permit, the Regional Water Board may notify the Discharger to electronically submit both technical and Self-Monitoring Reports (SMRs) to the State Water Board's GeoTracker database in searchable Portable Document Format (pdf). In addition, analytical data will be required to be uploaded to the GeoTracker database under a site-specific global identification number that will be assigned to the Discharger. Information on the GeoTracker database is provided on the State Water Board website at: https://www.waterboards.ca.gov/resources/data_databases/groundwater.shtml

D. Transmittal Letter

A transmittal letter, identifying the facility name, address and WDID number shall accompany each monitoring report. The transmittal letter shall discuss any violations that occurred during the reporting period and all actions taken or planned for correcting the violations, such as operation or system modifications. If the Discharger previously submitted to the Regional Water Board a report describing the corrective action or time schedule for implementing the corrective actions, reference to the previous report is satisfactory.

E. Quarterly Report Format

The Discharger shall arrange the monitoring results in tabular form so that the date, the constituents, and the concentrations are readily discernible. The results shall be summarized in such a manner as to illustrate clearly whether the discharge complies with the Order.

Records of monitoring information shall include:

1. The date, exact place, and time of sampling or measurement(s);
2. The individual(s) who performed the sampling or measurement(s);
3. The date(s) analysis were performed;
4. The individual(s) who performed the analysis;
5. The analytical techniques or method used;
6. The results of such analysis; and
7. The complete laboratory data sheets for each analysis.

F. Signature and Certification

The quarterly and annual reports shall be signed by a person described in subsection 66270.11 (a) of Title 22, Division 4.5, Chapter 20, Article 2 of the California Code of Regulations (CCR) or a duly authorized representative of that person as per subsection 66270.11(b) of Title 22, Division 4.5, Chapter 20, Article 2 of the CCR. The person signing the reports shall make the following certification:

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

G. Spills and Unauthorized Discharges Notification

Information regarding all spills and unauthorized discharges that may endanger health or the environment shall be provided orally to the Regional Water Board³ within 24 hours from the time the Discharger becomes aware of the circumstances and a written report shall also be provided within ten (10) days of the time the Discharger.

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

1. Name and contact information of caller;
2. Date, time and location of spill occurrence;
3. Estimates of spill volume, rate of flow, and spill duration, if available and reasonably accurate;
4. Surface water bodies impacted, if any;
5. Any adverse impacts observed, if any;
6. Cause of spill, if known at the time of the notification;
7. Cleanup actions taken or repairs made at the time of the notification; and
8. Responding agencies.

Ordered By: _____
Matthias St. John
Executive Officer

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³ The contact number of the Regional Water Board during normal business hours is (707) 576-2220. After normal business hours, spill reporting to the State Warning Center will satisfy the 24-hour spill reporting requirement for the Regional Water Board. The contact number for spill reporting for the State Warning Center is (800) 852-7550.