

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM ORDER NO. R5-2011-XXXX  
FOR

VON BARGEN RANCH SEPTAGE DISPOSAL AREA  
GLENN COUNTY

This Monitoring and Reporting Program (MRP) describes requirements for monitoring domestic septage, waste application area, and groundwater. 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 Executive Officer.

Central Valley Water Board staff shall approve specific sampling locations prior to any sampling activities. All samples shall be representative of the volume and nature of the discharge or matrix of material sampled. The time, date, and location of each sample shall be recorded on the sample chain of custody form.

Field test instruments (such as those used to test dissolved oxygen, pH, and electrical conductivity) may be used provided that:

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

Field calibration reports are submitted as described in the "Reporting" section of this MRP.

**SEPTAGE MONITORING**

A representative sample of septage to be applied to land shall be analyzed according to the following schedule:

Constituent	units	Frequency
Percent Solids	%	Annually
pH of Septage Applied*	S.U.	Semiannually
Nitrogen as Nitrate	mg/kg	Annually
Total Kjeldahl Nitrogen	mg/kg	Annually
Volatile Organic Compounds	µg/kg	Annually
Title 22 / CAM 17 Heavy Metals	mg/kg	Annually

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\*Each quarter the pH of septage to be applied shall be measured in each truck delivering septage during an 8-hour work day.

The hauler shall record the date, location of septic tank, type of waste, volume in gallons of septage pumped, and certification that pH has been adjusted to 12.0 for one-half hour prior to disposal.

**APPLICATION INFORMATION**

The Discharger shall record and quantify the following parameters:

	units	Frequency
Quantity of Septage Applied	gallons	Monthly
Application Area	Acres	Monthly
Crop planted	--	Annually
Amount of Crop Produced	--	Annually
Nitrogen Loading	lb / acre	Annually

**GROUNDWATER MONITORING**

The Discharger shall install a groundwater detection monitoring network. Groundwater monitoring shall include at a minimum, the following:

Constituent	Units	Type of Sample	Frequency
Groundwater Elevation	0.01 feet MSL	Measurement	Quarterly
Groundwater Gradient	feet/foot	Calculated	Quarterly
Groundwater Gradient Direction	degrees	Calculated	Quarterly
pH	S.U.	Grab	Quarterly
EC	µmhos/cm	Grab	Quarterly
Nitrogen	mg/L	Grab	Quarterly
Total Kjeldahl Nitrogen	mg/L	Grab	Quarterly
Total Coliform	MPN/100 mL	Grab	Quarterly
General Minerals <sup>1</sup>	mg/L	Grab	Quarterly
Title 22 Heavy Metals	µg/L	Grab	Quarterly
Total Dissolved Solids	mg/L	Grab	Quarterly
Chemical Oxygen Demand (COD)	mg/L	Grab	Quarterly

<sup>1</sup>General Minerals shall include, at a minimum, boron, bromide, calcium, chloride, fluoride, magnesium, phosphate, potassium, sodium, sulfate, total alkalinity, and hardness as CaCO<sub>3</sub>.

After two years of monitoring, if groundwater parameters and constituent concentrations are uniform and meet water quality objectives, the frequency of monitoring may be reduced following approval by the Executive Officer.

### REPORTING

The discharger shall submit **quarterly** monitoring reports with data arranged in tabular form so that the date, the constituents, and the concentrations are readily discernible. The results of any monitoring done more frequently than required at the locations specified in the Monitoring and Reporting Program shall be reported to the Central Valley Water Board. Quarterly monitoring reports shall be submitted on **15 April, 15 July, 15 October, and 15 January** respectively for the first, second, third, and fourth quarter.

All reports submitted in response to this Order shall comply with the signatory requirements of Standard Provision B.3.

The Discharger shall implement the above monitoring program as of the date of this Order.

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PAMELA C. CREEDON, Executive Officer

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Date