

California Regional Water Quality Control Board  
North Coast Region

MONITORING AND REPORTING PROGRAM  
Order No. R1-2005-0010

For

**REDWOOD REST RV PARK**

Del Norte County

This monitoring and reporting program is enforceable under provision D.1.d of State Water Resources Control Board Water Quality Order No. 97-10-DWQ.

**MONITORING**

1. Wastewater Volume: The discharger shall determine and record monthly average waste flow in gallons per day discharged to the waste facilities.
2. Septic Tank: The sludge and scum levels in the septic tank shall be measured monthly whenever more than 12 months have elapsed since the septic tank was last pumped clean. Septic tanks shall be pumped clean if the bottom of the scum layer is within three inches of the bottom of the outlet baffle, or if the top of the sludge layer is within eight inches of the bottom of the outlet device, or if the combined thickness of sludge and scum exceeds one-third of the tank depth of the first compartment. The following values shall be reported for each observation:
  - a. Sludge depth in each compartment of the septic tank.
  - b. Scum thickness in each compartment of the septic tank.
  - c. Distance between the bottom of the scum layer and the bottom of the outlet baffle.
  - d. Distance between the top of the sludge layer and the bottom of the outlet opening or baffle (whichever is lower.)

The discharger shall report the date and disposal site whenever a septic tank is pumped

3. Groundwater Levels: The discharger shall monitor the performance of the leach field by observing and recording the elevation of the free water surface, once per month, in wells located as follows:
  - a. Trench monitoring wells shall be constructed in each leaching trench. The bottom of the wells shall be at the same elevation as the bottom of the leach field trench.
  - b. A monitoring well shall be constructed between leaching trenches near the center of the primary disposal field. This well shall extend to a depth at least five feet below the bottom of the leach trenches.
  - c. At least three perimeter monitoring wells shall be constructed near the property boundaries at depths adequate to reach groundwater during all seasons. These

wells are intended to establish ground-water gradients and measure down-gradient concentrations of pollutants. For optimum determination of ground-water gradients, well placement shall result in perpendicular distances between wells equal to or greater than the length or width of the property (whichever is less.) At least one well shall be directly down-gradient of the leach field at all times. Property and leach field geometry may require more than three wells to fulfill these conditions.

4. Pollutant concentrations: Samples shall be collected quarterly, during the months of February, May, August, and November from the down-gradient perimeter monitoring well. Three casing volumes of water should be purged from the well immediately prior to sample collection, and ground water level measurements should be completed prior to purging. These samples shall be analyzed for zinc, phenol, formaldehyde, and nitrogen as nitrate.

### **Well Construction**

All wells used for groundwater level determinations shall be surveyed to determine relative elevations, and all elevations shall be reported with respect to both sea level and ground surface at the well. All monitoring wells shall be constructed of three or four-inch diameter plastic pipe (or equivalent) equipped with a locking removable cap and sealed at the ground surface to prevent infiltration of surface water. A screw cap that requires a tool for removal will suffice as a locking cap. The trench monitoring wells shall be perforated at an interval that coincides with the depth of the leach field rock or infiltration chambers. Remaining wells shall be perforated beginning at a depth of 36 inches below ground surface and extending to the bottom of the well.

### **REPORTING**

A scale map of the property showing the leach field and all well locations shall be submitted upon completion of leach field construction and whenever new wells are installed. The map shall be accompanied by well logs for each well.

Monthly monitoring reports shall be submitted to the Board by the last day of the following month. Reports shall be submitted on a form similar to the attached example to clearly illustrate compliance with requirements.

Ordered by \_\_\_\_\_

Catherine E. Kuhlman  
Executive Officer

February 8, 2005