

California Regional Water Quality Control Board
North Coast Region

MONITORING AND REPORTING PROGRAM NO R1-2003-0002

FOR

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Sonoma County

MONITORING AND SAMPLING

1. Monitoring wells MW-1, through MW-12 shall be sampled within one month prior to the startup of groundwater extraction and re-injection to confirm baseline and background groundwater characteristics that may be affected by the treatment process.
2. All groundwater analyses shall be performed at a California certified laboratory.
3. Groundwater samples shall be analyzed for dissolved iron, oxidation-reduction potential, pH, conductivity, temperature, dissolved oxygen, total organic carbon, nitrite, nitrate as nitrogen, ammonia, potassium, phosphate, total petroleum hydrocarbons as gasoline, total petroleum hydrocarbons as diesel, and full range EPA Method 8260B scan for volatile organic compounds including fuel oxygenates.
4. The groundwater-treatment system shall be sampled at the following points in the system:
 - Influent sampling port prior to treatment
 - Mid-point sampling port between the first and the second treatment vessels
 - Effluent sampling port downstream from aeration and nutrient addition and prior to subsurface re-injection.
5. The treatment system samples shall be analyzed for total petroleum hydrocarbons as gasoline, total petroleum hydrocarbons as diesel, and the full range EPA Method 8260B scan for volatile organic compounds including fuel oxygenates. In addition, the treatment system effluent shall be analyzed for pH, conductivity, temperature, dissolved oxygen, total organic carbon, nitrite, nitrate as nitrogen, ammonia, and phosphate.
6. The groundwater treatment system shall be sampled for laboratory analyses daily for a minimum 5 consecutive day period following startup to assure compliance with the permit limits. The daily treatment system samples shall be analyzed within 24 hours of sampling. The analytical results shall be transmitted to Regional Water Board staff within 36 hours of

each sampling event. If any two consecutive effluent samples exceed the permit limits, groundwater re-injection must be stopped immediately. If the treatment system process or facilities require modification and adjustment under operating conditions to achieve permit compliance, a holding vessel shall be added to the system to contain the treatment system effluent until compliance can be achieved.

7. The groundwater treatment system shall be sampled for laboratory analysis weekly for a period of 60 days following the 5-day startup evaluation.
8. Each groundwater monitoring well shall be sampled for laboratory analyses at least monthly for a minimum period of 180 days following system startup. Thereafter, each groundwater monitoring well shall be sampled and analyzed quarterly.
9. The depth to groundwater shall be measured to nearest 0.01-foot increment in each monitoring well one month prior to the startup of groundwater extraction and re-injection. Groundwater measurements shall be taken biweekly, for a minimum 60-day period following system startup and then monthly for a period ending twelve months after system startup. The results shall be reported in tabular form indicating the surveyed elevation of each well reference point, depth to groundwater from the reference point and the actual groundwater elevation. The data generated from the elevation readings shall be referenced to mean sea level. Elevation contour maps shall be prepared for each monitoring event showing the direction of groundwater flow.

REPORTING

1. A groundwater elevation contour map shall be submitted for each set of groundwater elevation measurements and shall include the elevation data and the location of the wells measured.
2. For the first six months of operation, monthly progress reports, including groundwater treatment system analytical data and groundwater elevation contour maps, shall be submitted to Regional Water Board staff summarizing the treatment system operation for the previous month. The monthly progress reports shall be submitted by the last day of each month for the previous month of operation.

3. Quarterly monitoring reports shall be submitted to the Regional Water Board summarizing all monitoring data collected for two years subsequent to the operation of the groundwater extraction and treatment system in accordance with the following schedule:

Reporting Period	Due Date
January, February, March	April 30
April May, June	July 31
July, August, September	October 31
October, November, December	January 31

Ordered by _____

Susan A. Warner
Executive Officer

March 27, 2003

(Prestige M&R)