

California Regional Water Quality Control Board
North Coast Region

MONITORING AND REPORTING PROGRAM NO R1-2004-0006
REPLACING
ORDER NO. R1-2003-0135
FOR
HEWLETT-PACKARD COMPANY
FOUNTAIN GROVE SITE
1400 FOUNTAIN GROVE PARKWAY
SANTA ROSA, CALIFORNIA

Sonoma County

MONITORING AND SAMPLING

1. Groundwater elevations shall be measured in all monitoring wells semi-annually. The depth to groundwater shall be measured to nearest 0.01-foot increment. 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.

2. The subsurface drainage effluent sampling stations shall be sampled monthly for the first four months of 2004, and quarterly thereafter. Groundwater and sub-drain effluent sampling and shall be conducted according to the schedule presented in Table 1 below, commencing in the first quarter of 2004.

Table 1 Sampling and Analysis Schedule

Groundwater Zone	Monitoring Station	Sampling Frequency
Upper Zone	PB-1	Annually
	PB-2	Annually
	18	Semi-annually
	28	Semi-annually
	25	Semi-annually
	26	Semi-annually
	32	Semi-annually
	33	Semi-annually
	10	Every 5 Years
	20	Every 5 Years
	14U	Every 5 Years
Upper / Lower Zone	1	Annually
	3	Semi-annually
	14L	Semi-annually
	21	Semi-annually
	22	Semi-annually
	8L	Every 5 Years
Lower Zone	11L	Semi-annually
	24	Semi-annually
	31	Semi-annually
	34	Semi-annually
	27	Every 5 Years

Table 1 (continued) Sampling and Analysis Schedule

Groundwater Zone	Monitoring Station	Sampling Frequency
Deep Zone	12	Annually
	16	Semi-annually
	17	Semi-annually
	29	Semi-annually
	19	Every 5 Years
Sub-drain Effluent	Outfall East	Quarterly
	Outfall Central	Quarterly
	Outfall West	Quarterly

3. Flow rates from each sub-drain out-fall shall be measured at the time of sampling. Flow rates shall be reported to the nearest gallon-per-minute increment.
4. Groundwater and sub-drain effluent samples shall be analyzed for volatile organic compounds by EPA Method 8021. All analyses shall be performed at a laboratory certified for such analyses by the State Department of Health Services.

REPORTING

1. The results of groundwater monitoring and analysis shall be submitted to the Regional Water Board in accordance with the following schedule:

Reporting Period

First Semi-annual Event
Second Semi-annual Event

Due Date

April 30
October 31

2. Each semi-annual monitoring report shall include the following elements:
 - a. A narrative description of the work conducted;
 - b. Field notes and/or sampling logs documenting such activities as well purging, aquifer parameter testing, well recharge prior to sampling;
 - c. Chain-of-custody documentation;
 - d. Laboratory reports, including QA/QC data;
 - e. An accurately scaled site plan showing all sampling points in relation to significant site features;
 - f. Groundwater elevation contours plotted at the same scale as the site plan;
 - g. Groundwater TCE concentrations plotted at the same scale as the site plan;
 - h. Data tables showing all historical analytical data for each sampling station.
3. The first 2009 monitoring event shall include monitoring wells 10, 20, 14U, 8L, 27, 12, and 19. Following a review the data from that monitoring event, a report shall be submitted evaluating the effectiveness of monitored natural attenuation as a final remedy to achieve water quality objectives at the site.

Ordered by

Catherine Kuhlman

Catherine Kuhlman
Executive Officer

January 5, 2004