

California Regional Water Quality Control Board  
North Coast Region

MONITORING AND REPORTING PROGRAM ORDER NO. R1-2011-0071  
SURFACE WATER and GROUNDWATER

[Rescinds and Replaces Monitoring and Reporting Program Order  
No. R1-2007-0109]

FOR

SIMPSON TIMBER COMPANY  
1200 West Del Norte Avenue  
Eureka, California  
Case No. 1NHU103

Humboldt County

This Monitoring and Reporting Program is issued pursuant to California Water Code (CWC) Section 13267(b) and requires monitoring of groundwater and surface water, and the submission of technical reports. Submission of groundwater and surface water monitoring data is required semi-annually and groundwater and surface water monitoring reports are required annually. The objective of monitoring conducted under this monitoring program is to provide the Discharger and the Regional Water Board with information concerning groundwater quality and contaminant trends at the site.

Under the authority of the California Water Code Section 13267, the Discharger named above is required to comply with the following:

**SURFACE WATER MONITORING**

1. Surface water monitoring stations are shown in Attachment 1.
2. Each surface water monitoring station (ES-1 and ES-2) shall be sampled twice per wet season (October 1 through May 31). Surface water monitoring points located in the eastern drainage swale, ES-1 and ES-2 shall be sampled at a relatively low tide when there has been surface water flow out (south) of the eastern drainage swale for a minimum of 1 hour. The following parameters shall be analyzed: Dioxin and furan congeners, chlorinated phenols, total suspended solids, pH, and specific conductance.
3. Surface water samples shall not be filtered prior to analysis.

**GROUNDWATER MONITORING**

4. At least semi-annually, the depth to groundwater in each monitoring well shall be determined to at least 0.01 foot increments. Groundwater elevation data must be referenced to the North American Vertical Datum of 1988.

5. The tidal elevation and cycle at the time of sample collection and groundwater elevation measurements shall be recorded.
6. Each groundwater monitoring well shall be sampled in accordance with the schedule shown in Table 1. At each monitoring event, the groundwater monitoring wells shown in Table 1 shall be sampled for the chemical parameters indicated and also for temperature, pH, and electrical conductivity.
7. Monitoring wells that cannot produce enough sample volume to perform the analyses listed in Table 1 within 24 hours following purging shall be sampled first for dioxin congeners, then chlorinated phenols, then TPHMS or TPHg, BTEX and MTBE, as required in Table 1.
8. Samples from monitoring wells that cannot produce relatively sediment free groundwater (less than 5.0 nephelometric turbidity units) may be filtered by the analytical laboratory using a 0.7 micron glass fiber filter prior to analysis.
9. Monitoring wells that contain measurable floating product will not be purged and sampled.
10. Analytical results from groundwater sampling shall be submitted to this office within 30 days of receipt of the analytical laboratory results.
11. All laboratory analyses shall be performed at a laboratory certified by the California Department of Public Health.

### **REPORTING**

12. Within 30 days of receipt of the analytical laboratory results, analytical results from groundwater and surface water monitoring shall be submitted electronically to the State Water Resources Control Board GeoTracker database as required by Title 23, Division 3, Chapter 30 of the California Code of Regulations.
13. An annual groundwater and surface water monitoring report, including groundwater gradient, tide, field-measured parameters, and analytical data, shall be submitted to this office by June 15 of each year.
14. A groundwater elevation contour map shall be submitted for each monitoring event and shall show the facility, groundwater flow pattern including the direction of the groundwater gradient in both the A- and B-Zones, and the location of monitoring wells.
15. The annual groundwater and surface water monitoring report shall contain current and previous analytical results and field parameter measurements in tabular format. The current results shall also be reported on a site plan, including the following:

- a. sampling point;
  - b. date of sample collection;
  - c. constituents and analytical results; and
  - d. quantification limits employed for non-detect analytical results.
16. Each annual groundwater and surface water monitoring report shall contain copies of the sampling field logs and well purging logs; chain-of-custody documents indicating the time and date of sample collection and the person collecting the samples; and signed laboratory sheets including quality control data, reporting limits, and explanations of analytical anomalies, if any. These supporting documents may be included as appendices to the report.
  17. If one or more requirements of this program cannot be provided, the annual groundwater monitoring report shall state the reason for the omission and explain what corrective actions shall be employed to prevent future omissions.
  18. The annual groundwater monitoring report shall be submitted in hard copy form. In addition, the annual groundwater monitoring report and the monitoring data shall be submitted electronically to the State Water Resources Control Board GeoTracker database as required by Title 23, Division 3, Chapter 30 of the California Code of Regulations.

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

Catherine Kuhlman  
Executive Officer

June 14, 2011

**Table 1: Groundwater Monitoring Wells Analytes & Required Schedule**

	TPH-g	TPH-ms	THP-d	BTEX	MtBE	Chlorinated Phenols	Dioxins
<b>A Zone Wells</b>							
GP-01A							
GP-02A						A	
GMW-01A	S	S					
MW-101A	S	S		S		S	A
MW-102A						S	
MW-103AR						S	B
MW-104A		S	S			S	
MW-105A							
MW-106A							
MW-107A						A	
MW-108A	S			S	S		
MW-109A	S			S	S		
MW-110A	S	S	S				
<b>B Zone Wells</b>							
GP-01B							
GP-02B							
GMW-01B							
MW-101B	A	A		A		A	B
MW-102B						A	
MW-103B						A	B
MW-104B		S					
MW-105B							
MW-106B							
MW-107B						A	
MW-108B	S			S	S		
MW-109B	S	S	S	S	S		
MW-110B		S	S				

**Frequency Requirements:**

S = Semi-annual (twice per year) A = Annual (once per year) B = Biennial (once every two years)

**Parameter Definitions:**

TPH-g: Total petroleum hydrocarbons, gasoline range  
 TPH-ms: Total petroleum hydrocarbons, mineral spirits range  
 TPH-d: Total petroleum hydrocarbons, diesel range  
 BTEX: Benzene, toluene, ethylbenzene, total xylenes  
 MtBE: Methyl *tert*-butyl ether  
 Chlorinated Phenols: Pentachlorophenol, 2,3,4,6-Tetrachlorophenol  
 Dioxins: Dioxin and furan congeners

**Attachment 1:  
Surface Water Monitoring Points – ES1 and ES2**



Monitoring Points  
Simpson Timber Company, 1200 West Del Norte Avenue, Eureka, California

📍 Surface Water Monitoring Points, locations approximate

**Attachment 2:  
Groundwater Monitoring Wells**



Monitoring Points  
Simpson Timber Company, 1200 West Del Norte Avenue, Eureka, California

★ Monitoring Wells, locations approximate