

California Regional Water Quality Control Board
North Coast Region

MONITORING AND REPORTING PROGRAM NO. R1-2005-0068

FOR

SHELL OIL COMPANY,
HUMBOLDT PETROLEUM, INC.,
ROBERT H. WOTHERSPOON, JOY A. WOTHERSPOON, AND JAMES SEILER
WOTHERSPOON AND WOTHERSPOON
AND
ROBERT E. IMPERIALE, JR.
400 EIGHTH STREET
FORTUNA, CALIFORNIA

Humboldt County

MONITORING

1. Prior to purging, the depth to groundwater shall be determined quarterly in all groundwater monitoring wells to at least 0.01 foot increments. The data generated from the elevation readings must be referenced to mean sea level.
2. Water samples shall be collected for analysis on a quarterly schedule from all monitoring wells located within the UST investigation area. Water samples shall be analyzed for TPH-gasoline, TPH-diesel, benzene, toluene, ethylbenzene, xylenes, and MtBE. Sample analysis must be performed at a certified laboratory. Each well shall be measured for field parameters temperature, pH, conductivity, dissolved oxygen and oxidation/reduction potential during each sampling event.
3. Monitoring wells MW-27, MW-28, MW-30, MW-33 MW-34, MW-38, MW-43 and MW-44 shall be sampled for analysis of the following additional parameters: bromide; bromate; dissolved hexavalent chromium; dissolved vanadium; dissolved selenium; and dissolved molybdenum. The laboratory reporting limit for hexavalent chromium should be no higher than 5 µg/l and the laboratory reporting limit for bromate should be no higher than 10 µg/l.

REPORTING

1. Quarterly monitoring reports shall be submitted to this office in accordance with the following schedule:

<u>Reporting Period</u>	<u>Due Date</u>
January, February, March	May 1
April, May, June	August 1
July, August, September	November 1
October, November, December	February 1

2. A groundwater elevation contour map shall be included for each set of measurements and shall include the following:
 - a) location of on-site facilities;
 - b) location of the monitoring wells;
 - c) location of the former underground tanks; and
 - d) groundwater flow pattern including the direction of the groundwater gradient.
3. Current and previous analytical results shall be reported in tables which include the following:
 - a) sampling point;
 - b) date of sample collection;
 - c) constituents and analytical results; and
 - d) quantification limits for non-detect analytical results.
4. Current and previous remedial system operation and maintenance activities shall be reported in the monitoring reports.
5. Each report shall contain copies of the well purging and sampling field logs; chain of custody documents showing the time and date of collection and person collecting; and signed laboratory sheets including quality control data and explanations of analytical anomalies, if any. These supporting documents may be included as appendices to the report.
6. Monitoring data and reports shall also be submitted electronically to the State Water Resources Control Board's GeoTracker database.

Ordered by _____

Catherine Kuhlman
Executive Officer

June 27, 2005