

California Regional Water Quality Control Board  
North Coast Region

MONITORING AND REPORTING PROGRAM NO. R1-2010-0068  
(Rescinding and Replacing Revised Monitoring and Reporting Program No. 98-31)

FOR

MCPHAIL FUEL COMPANY

McPhails  
975-1000 Wright Street  
Santa Rosa  
CASE NO. 1NSR159

Sonoma County

This Monitoring and Reporting Program (M&RP) is issued pursuant to California Water Code Section (CWC) 13267 (b) and requires monitoring of groundwater and submission of technical reports. Reports are required on a semiannual basis. The objective of monitoring conducted under this monitoring program is to provide the Dischargers and the Regional Water Board with information concerning groundwater quality and contaminant trends at the site.

Under the authority of CWC section 13267, the Dischargers named above are required to comply with the following:

**MONITORING**

1. Prior to purging, the depth to groundwater shall be determined to at least 0.01 foot increments in all groundwater monitoring wells semiannually. The data generated from the elevation readings must be referenced to the same elevation datum used for the electronic GeoTracker survey values.
2. Measurements for free product thickness shall be collected from each groundwater monitoring well, prior to sample collection. If detected, the thickness of floating product shall be measured to at least 0.01 foot increments. Floating product measurements, and the presence of sheen, shall be reported in each semiannual monitoring report. Groundwater from monitoring wells containing measurable free product shall not be analyzed.
3. In conjunction with floating product measurements, replacement and/or adjustment of absorbent sock recovery systems in MW-3, MW-4 and MW-5 shall occur monthly, or as needed.
4. Groundwater samples shall be collected for analysis from groundwater monitoring wells MW-3, MW-4, MW-5, MW-8, MW-9, and MW-10 on a semiannual basis during the second and fourth quarters of the year. Groundwater samples shall be collected for analysis from MW-1, MW-2, MW-6 and MW-7 on a biennial basis during the second quarter of the year, except as noted in the Table below.

5. The water samples collected per Monitoring Item 4 above shall be analyzed for TPH-gasoline, TPH-fuel oil/diesel/kerosene, TPH motor oil/TRPH, benzene, toluene, ethylbenzene, total xylenes, and the fuel oxygenate methyl-tert-butyl ether (MTBE). Groundwater from monitoring wells containing sheen shall be analyzed per Monitoring Item 4.
6. All laboratory analyses shall be performed at a laboratory certified by the California Department of Public Health. Analytical methods for sample analyses shall achieve practical quantification reporting limits that are adequate for evaluating regulatory action levels for each constituent.

### REPORTING

1. Semiannual monitoring reports shall be submitted to the Regional Water Board in accordance with the following schedule:

| <u>Quarter</u> | <u>Reporting Period</u>     | <u>Due Date</u> |
|----------------|-----------------------------|-----------------|
| 2              | April, May ,June            | August 1        |
| 4              | October, November, December | February 1      |

| Monitoring Well | Sampling Frequency | Sampling Period            |
|-----------------|--------------------|----------------------------|
| MW-1            | Biennial           | Second Quarter             |
| MW-2            | Biennial           | Second Quarter             |
| MW-3            | Semiannual         | Second and Fourth Quarters |
| MW-4            | Semiannual         | Second and Fourth Quarters |
| MW-5            | Semiannual         | Second and Fourth Quarters |
| MW-6*           | Biennial           | Second Quarter             |
| MW-7*           | Biennial           | Second Quarter             |
| MW-8            | Semiannual         | Second and Fourth Quarters |
| MW-9            | Semiannual         | Second and Fourth Quarters |
| MW-10           | Semiannual         | Second and Fourth Quarters |

\*These wells shall be sampled semiannually, upon detection of contamination in either MW-9 or MW-10.

2. A groundwater elevation contour map shall be included for each set of measurements and shall include the following:
  - a) location of the former facilities, UST, dispenser area and ASTs;
  - b) location of the monitoring wells with elevation measurements shown for each well; and
  - c) groundwater flow pattern including the direction of the groundwater gradient.
3. A contamination isogram map shall be included for each significant pollutant detected during the monitoring events and shall include the following:

- a) location of the facilities;
  - b) location of the monitoring wells with groundwater contaminant concentrations shown for each well; and
  - c) location of former underground storage tank and dispenser area.
4. 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;
  - d) quantification limits employed for non-detect analytical results; and
  - e) analytical method.
5. Each report shall contain copies of the well purging and sampling field logs; chain of custody documents showing the time and date of sample collection, and field sampling technician; 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. Past monitoring well analytical results shall be incorporated with the current results.
7. Monitoring reports shall be prepared by or under the supervision of a California Registered Engineer or Geologist.
8. The monitoring reports, analytical data, and depth to water measurements shall also be submitted electronically to the State Water Resources Control Board's GeoTracker database as required by Title 23, Division 3, Chapter 30 of the California Code of Regulations.

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

Catherine Kuhlman  
Executive Officer

July 23, 2010