

California Regional Water Quality Control Board
North Coast Region

MONITORING AND REPORTING PROGRAM No. R1-2010-0094
(REPLACES MONITORING AND REPORTING PROGRAM No. R1-2009-0016)

For

UNOCAL EUREKA TERMINAL
TOSCO
TRC COMPANIES
and
MLRX2, LLC
1200 RAILROAD AVENUE
EUREKA

Humboldt County

This Monitoring and Reporting Program (MRP) 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 semi-annual 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 and off-site.

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

MONITORING

1. The presence of floating product shall be evaluated in monitoring wells MW-3, MW-12, MW-16, MW-26, MW-27, and MW-28, and in extraction wells EW-7, EW-9, EW-10, EW-11, and EW-12 monthly. All remaining monitoring wells shall be evaluated for floating product semiannually. If detected, the thickness shall be measured to at least 0.01 foot increments during each monitoring event.
2. The depth to groundwater shall be determined to at least 0.01 foot increments semiannually. The results of each elevation measurement shall be reported in tabular form indicating the surveyed elevations of each well reference point, depth to groundwater from reference point, and the actual groundwater elevation. The data generated from the elevation readings must be referenced to mean sea level.
3. Each monitoring well shall be sampled according to the following table. The analyses shall be performed as a certified laboratory for Total Petroleum Hydrocarbons as gasoline (TPH-G), Total Petroleum Hydrocarbons as diesel (TPH-D), benzene, toluene, ethylbenzene, total xylenes (collectively known as BTEX), oxygenates (MTBE), and halogenated volatile compounds (VOC).

WELL	1ST QUARTER	2ND QUARTER	3RD QUARTER	4TH QUARTER
MW-1	TPH-D		TPH-D	
MW-2	TPH-D		TPH-D	
MW-3	TPH-D, TPH-G, BTEX, MTBE		TPH-D, TPH-G, BTEX, MTBE	
MW-4	TPH-D, TPH-G, VOC		TPH-D, TPH-G, VOC	
MW-5	TPH-D, TPH-G		TPH-D, TPH-G	
MW-6	THP-D		THP-D	
MW-7	TPH-D		TPH-D	
MW-13	TPH-D		THP-D	
MW-15	TPH-G, BTEX		TPH-G, BTEX	
MW-16	TPH-D, TPH-G, BTEX, MTBE		TPH-D, TPH-G, BTEX, MTBE	
MW-17	TPH-D, TPH-G		TPH-D, TPH-G	
MW-19	TPH-D		THP-D	
MW-20	TPH-D			
MW-22	TPH-D		THP-D	
MW-24	TPH-D			
MW-25	TPH-D		THP-D	
MW-26	TPH-D, TPH-G, BTEX, MTBE		TPH-D, TPH-G, BTEX, MTBE	
MW-27	TPH-D, TPH-G, BTEX, MTBE		TPH-D, TPH-G, BTEX, MTBE	
MW-28	TPH-D, TPH-G, BTEX, MTBE		TPH-D, TPH-G, BTEX, MTBE	
MW-29	TPH-D, TPH-G, BTEX, MTBE, VOC		TPH-D, TPH-G, BTEX, MTBE, VOC	
MW-30	VOC		VOC	
MW-31	TPH-D, VOC		TPH-D	
MW-32	TPH-D, TPH-G, VOC		TPH-D, TPH-G, VOC	
MW-33	TPH-D			
MW-34	TPH-D, TPH-G		TPH-D, TPH-G	
EW-5	TPH-D, TPH-G, BTEX		TPH-D, TPH-G, BTEX	
EW-7	TPH-D, TPH-G, BTEX		TPH-D, TPH-G, BTEX	
EW-9	TPH-D, TPH-G, BTEX		TPH-D, TPH-G, BTEX	
EW-10	TPH-D, TPH-G, BTEX		TPH-D, TPH-G, BTEX	
EW-12	TPH-D, TPH-G, BTEX		TPH-D, TPH-G, BTEX	

4. All new monitoring wells will be sampled quarterly for TPH-G, TPH-D, BTEX, MTBE, and VOCs.
5. All investigation-derived waste (IDW) will be controlled and disposed of in a fashion consistent with California laws and regulations. Documentation regarding IDW disposal shall accompany each semiannual monitoring report.
6. All work shall be done under the direct supervision of a California-licensed Registered Civil Engineer or Professional Geologist with demonstrated experience in the implementation of monitoring and reporting programs required by the California Regional Water Board.

REPORTING

A ground water elevation contour map for each transmissive zone shall be submitted for each semiannual set of measurements and include the facility, groundwater flow pattern including the direction of the groundwater gradient, and the location of the wells measured.

A map for each transmissive zone shall be submitted for each semiannual set of measurements that indicates the boundary of the dissolved and separate phase hydrocarbon plumes. Individual maps will be submitted for TPH-G, TPH-D, BTEX, and VOCs.

Semiannual monitoring reports, including semiannual gradient data and sampling data, shall be submitted to this office in accordance with the following schedule:

<u>Reporting period</u>	<u>Due Date</u>
January, February, March, April, May, June	August 15
July, August, September, October, November, December	February 15

All data and reports shall be electronically submitted in the proper format to the State Water Resources Control Board's GeoTracker database.

Ordered by _____
Catherine Kuhlman
Executive Officer

October 20, 2010