ORO LOMA SANITARY DISTRICT

August 9, 2011

Mr. Mark Detterman, PG, CEG
Hazardous Materials Specialist
Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

SUBJECT: SUBMITTAL OF GROUNDWATER MONITORING REPORT: 2010 SECOND SEMIANNUAL MONITORING EVENT. ORO LOMA SANITARY DISTRICT, 2600 GRANT AVENUE, SAN LORENZO, CA 94580. FUEL LEAK CASE NO. RO0000288

Dear Mr. Detterman:

Attached is the Groundwater Monitoring Report for the 2010 Second Semiannual Monitoring Event, prepared for the Oro Loma Sanitary District facility, located at 2600 Grant Avenue in San Lorenzo, California. The report was prepared by Trihydro Corporation and previously submitted (via electronic upload) to the State of California Geotracker website.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached report are true and correct to the best of my knowledge.

Please feel free to contact me at 510-481-6965 if you have any questions or need additional information.

Sincerely,

Jason Warner, P.E.
General Manager

Trihydro
CORPORATION

July 14, 2011

Mr. Jason Warner
District Manager
Oro Loma Sanitary District
2655 Grant Avenue
San Lorenzo, CA 94580

RE: Groundwater Monitoring Report for the 2010 Second Semiannual Monitoring Event
Oro Loma Sanitary District
2655 Grant Avenue, San Lorenzo, CA
LOP Site No. RO0000288

Dear Mr. Warner:

Trihydro Corporation (Trihydro) is pleased to present the 2010 Second Semiannual Groundwater Monitoring Report for the Oro Loma Sanitary District Site (LOP Site No. RO0000288) located at 2655 Grant Avenue in San Lorenzo, California. The Oro Loma Sanitary District (District) operates the Publicly Owned Treatment Works (POTW).

This work was performed in general accordance with our Scope of Work dated December 18, 2008. Our proposal was based on a discussion with you and our review of previously quarterly monitoring reports prepared by The Sutton Group. We understand that the scope of work described by you and previously reported by the Sutton Group is in accordance to the Work Plan that was approved by the Alameda County Health Care Agency's Environmental Protection Division (ACEP) in their letter dated April 18, 2003, as amended.

The purpose of the ongoing groundwater monitoring program is to evaluate the effect that the soil excavation (source removal) has on shallow groundwater quality. In accordance with approval from ACEP, Trihydro modified the original quarterly sampling schedule to a semi-annual sampling frequency. This report presents the results of the second semiannual groundwater monitoring event for 2010.

Background

A 1,000-gallon underground storage tank (UST) was formerly located in the parking lot adjacent to the vehicle maintenance building at the District's Service Center at 2655 Grant Avenue in San Lorenzo, California. The former UST was used to store gasoline for the District's fleet vehicles and was located south of the Maintenance Building and west of the Engineering building. The site is located

approximately 1,000 feet inland of the San Francisco Bay shoreline. The land located west of the former UST site to the San Francisco shoreline is associated with the District's POTW.

The former 1,000-gallon gasoline UST was installed in 1978, which replaced a similar volume UST that was installed at the same location in 1961. Inventory control suggested that the original UST may have leaked (The Sutton Group, 2002). The 1,000-gallon UST installed in 1978 was used to store leaded gasoline until 1985 when it was converted to store unleaded gasoline. The UST remained in use until it was removed in May 1995. No leakage was observed with the UST installed in 1978 (The Sutton Group, 2004).

The shallow soils (from the ground surface to approximately 15 feet below grade) consist of an engineered fill up to several feet thick placed over shoreline deposits consisting soil of thin, interbedded sand, silt and clay horizons. The native soil contains organic material, such as plant debris and peat, which causes a noticeable decaying organic odor and also causes a dark brown to black staining to the soil and groundwater.

The depth to the shallow groundwater typically ranges from 4 to 9 feet below ground surface (bgs), depending on the season. The regional groundwater flow direction is west towards the San Francisco Bay. However, because of the large underground utility and sewer piping corridor immediately south of the site (beneath Grant Avenue), the local groundwater flow appears to be to the south and is apparently influenced by the sewer pipe corridor.

Monitoring wells MW-1, MW-2, and MW-3 were installed in January 1999 after several previous investigations, using hydropunch grab groundwater samples, indicated the presence of petroleum hydrocarbons in the shallow soil and groundwater. In 2001, monitoring wells MW-4 and MW-5 were installed at the request of ACEP to further define the hydrocarbon plume. Monitoring well MW-4 was subsequently closed and removed in April 2008 because of a planned excavation to remove soil with residual petroleum hydrocarbons. In June 2008 after the excavation was complete and backfilled, monitoring well MW-6 was installed about 40 feet downgradient of the former location of MW-4 as a replacement location to monitor the effectiveness of the soil excavation on groundwater quality.

Groundwater Monitoring and Sampling

On December 27, 2010, each of the five existing monitoring wells (MW-1, MW-2, MW-3, MW-5, and MW-6) were gauged to measure groundwater levels and to check for the presence of free-phase floating hydrocarbons. As presented on Table 1, the depth to groundwater measured in the wells ranged from 3.85 feet bgs to 6.21 feet bgs. Since the similar monitoring event last year (June 3, 2009), the groundwater elevation has increased in the range of 0.57 to 1.54 feet. All groundwater levels are in a normal range.

Based on the water-level measurements, groundwater flow at the site is generally to the south-south-east with a gradient of approximately 0.022 foot/foot (ft/ft). This interpreted groundwater flow direction is consistent with the previous monitoring events, and the gradient is within the historical range.

An oil/water interface probe was lowered into each of the five monitoring wells to check for the presence of free-phase hydrocarbons. The oil/interface probe can detect a layer of floating hydrocarbon layer 0.01-feet thick or greater. The groundwater was also visually examined in the bailers and purge water bucket to detect free-phase product less than 0.01-feet thick (referred to as a sheen). No free-phase hydrocarbons were detected in the five groundwater monitoring wells.

The groundwater in the monitoring wells was typically stained dark grey to black and exhibited a hydrogen sulfide odor. This suggests that the naturally occurring organic material (plants and peat) are biologically decomposing and creating an anaerobic condition by using the available oxygen dissolved in the groundwater. Two of the wells, MW-5 and MW-6 also exhibited a slight to moderate petroleum hydrocarbon odor.

Groundwater samples were collected from each of the five monitoring wells. Before sampling, the wells were purged of stagnant water to allow formation water to enter the well. Approximately three well casing volumes of water were purged from the well using a disposable bailer. While purging, the following groundwater parameters were measured and recorded: pH, conductivity, turbidity, dissolved oxygen, and temperature. Groundwater samples were collected from each well in three, 40-millileter volatile organic analysis (VOA) vials. The vials were labeled and placed in an ice-chilled cooler. The samples were delivered to the analytical laboratory (BC Labs in Bakersfield, CA) under chain-of-custody protocol. The samples arrived at the lab in good condition, at the appropriate temperature, and within the holding time for analysis.

Groundwater Analytical Results

The groundwater analytical results for the 2010 Second Semiannual Monitoring Event are presented on Table 2. The historical groundwater analytical results are summarized on Table 3.

During this monitoring event, benzene, toluene, ethylbenzene, xylene (BTEX) and total petroleum hydrocarbons as gasoline (TPHg) were non-detect in monitoring wells MW-1 and MW-2. These results are typical for these wells. Analytical results for benzene, toluene, ethylbenzene, and xylene (BTEX) in MW-3 were also non-detect; however, 70 µg/L of TPHg was detected in MW-3. Wells MW-5 and MW-6 contained TPHg at concentrations of 15,000 micrograms per liter (µg/L, equivalent to parts per billion [ppb]) and 8,200 µg/L, respectively. These wells have historically contained very high TPHg concentrations. The current concentrations represent a decrease since the last monitoring event. TPHg concentrations detected in MW-5 is consistent with the most recent (6/3/2009, 12/30/2009, and 6/30/2010) analytical results.

Wells MW-5 and MW-6 also contain concentrations of benzene (1,300 µg/L and 3,400 µg/L); toluene (340 µg/L and 78 µg/L); and xylene (1,500 µg/L and 1,600 µg/L). MW-5 showed concentrations of 900 µg/L while MW-6 was non-detect for Ethyl-Benzene these values are within the historical ranges for these constituents in these wells. Concentrations of the BTEX constituent ethylbenzene which had been decreasing since routine monitoring began showed slight change or remained constant. Concentrations of

toluene and xylene are similar to previous results. Benzene results showed a significant decrease to previous levels.

Monitoring well MW-3 contained detectable concentrations of methyl tert-butyl ether (MTBE). The concentration of MTBE in MW-3 (23 µg/L) is similar to previous detections. MTBE had only been previously detected in MW-2 and MW-6 prior to 2009; however, the previous laboratory reporting limits were greater than the values detected. Trihydro noted that the monitoring wells displayed analytical results that were either consistent with previous monitoring. Several of wells displayed a non-detection result where previous monitoring displayed a detection result. Trihydro believes that this is a result of changes of groundwater level.

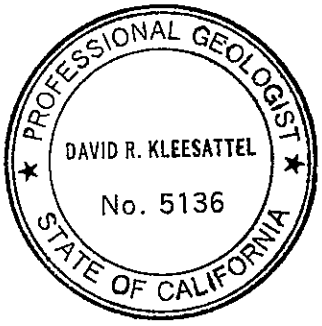
Planned Activities for Next Semiannual (2Q 2011)

The next semiannual groundwater monitoring and sampling event is planned for June 2011. Each of the five groundwater monitoring wells will be gauged for water levels, checked for the presence of free-phase product, and sampled for testing at a California-certified analytical laboratory. Each of the groundwater samples will be tested for BTEX, TPHg, and MTBE. The quarterly monitoring and sampling results will be presented in a technical report and posted on the State of California's Geotracker website.

If you have any questions or require additional information regarding this Semiannual Groundwater Monitoring Report, please contact us at (925) 270-4674.

Sincerely,
Trihydro Corporation

David Kleesattel, P.G.
Senior Geologist



05P-001-001

Attachments

Figure 1.	Oro Loma Service Center Base map
Table 1.	Summary of Groundwater Elevations
Table 2.	Current Summary of Groundwater Sample Analyses
Table 3.	Historical Summary of Groundwater Analytical Results
Appendix:	Analytical Laboratory Data Sheets (BC Analytical)

TABLES

TABLE 1. SUMMARY of GROUNDWATER ELEVATIONS
LOP SITE NO. RO0000288
ORO LOMA SANITARY DISTRICT
2655 GRANT AVENUE, SAN LORENZO, CA

	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6
Casing Elevation*	8.37	8.48	10.10	9.40	8.66	8.98
Measurement Date						
10/21/2002	1.72	2.04	3.21	3.58	2.84	- - -
1/28/2003	2.23	2.65	4.94	5.35	4.42	- - -
4/28/2003	nm	3.16	nm	5.8	5.2	- - -
7/25/2003	0.45	2.35	3.44	3.58	3.52	- - -
10/30/2003	1.82	2.75	3.61	4.18	4.09	- - -
1/23/2004	2.20	3.27	5.27	5.47	5.17	- - -
4/27/2004	2.25	3.55	4.99	5.08	4.92	- - -
7/29/2004	1.55	2.43	3.77	4.11	4.14	- - -
10/28/2004	-0.08	0.96	4.17	4.5	4.69	- - -
12/8/2004	-0.74	-0.83	nm	nm	nm	- - -
1/24/2005	0.79	2.75	5.64	5.83	4.74	- - -
4/28/2005	1.37	3.02	5.15	5.19	4.52	- - -
7/19/2005	1.18	2.37	4.31	4.48	4.32	- - -
10/26/2005	0.79	1.72	3.69	4.10	4.20	- - -
1/30/2006	1.72	3.17	4.85	4.92	4.24	- - -
4/18/2006	2.17	3.44	5.94	5.09	4.25	- - -
7/19/2006	1.56	2.88	4.41	4.57	4.13	- - -
10/26/2006	1.17	2.63	3.47	3.92	5.36	- - -
1/15/2007	1.35	3.20	4.84	4.73	4.37	- - -
4/19/2007	1.72	3.39	6.06	5.20	4.05	- - -
7/19/2007	1.10	1.70	3.38	3.52	3.35	- - -
10/17/2007	1.02	2.96	3.38	3.61	4.08	- - -
1/15/2008	1.34	3.00	4.61	4.73	4.02	- - -
4/15/2008	1.33	2.47	4.16	4.43	3.64	- - -
7/17/2008	1.51	1.58	3.72	nm	3.93	4.00
10/14/2008	0.85	1.08	2.71	- - -	2.93	2.92
3/30/2009	1.89	3.28	5.32	- - -	4.45	5.15
6/3/2009	1.59	1.93	4.46	- - -	3.75	4.40
12/30/2009	1.77	3.37	5.12	- - -	4.49	4.77
6/30/2010	1.96	3.16	4.83	- - -	4.14	4.67
Current Reading on December 27, 2010						
Depth to Groundwater	6.21	5.01	4.51	- - -	3.85	3.89
Groundwater Elevation	2.16	3.47	5.59	- - -	4.81	5.09
Change since last year	0.57	1.54	1.13	- - -	1.06	0.69

Double line?

Notes:
"nm" = Not measured
" - - - " = Well not available. MW-4 removed on 4/17/2008. Well MW-6 installed on 6/27/2008.
* All depths and elevations are in feet relative to the NGS Station Loma (HT3751)

TABLE 2. SUMMARY OF GROUNDWATER SAMPLE ANALYSES
LOP SITE NO. RO0000288
ORO LOMA SANITARY DISTRICT
2655 GRANT AVENUE, SAN LORENZO, CA

Sample Location	Sample Date	TPH as Gasoline	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
MW-1	12/27/2010	< 50	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5
MW-2	12/27/2010	<50	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5
MW-3	12/27/2010	**70**	< 0.5	< 0.5	< 0.5	< 1.0	**23**
MW-5	12/27/2010	**15,000**	**1,300**	**340**	**900**	**1,500**	<.5
MW-6	12/27/2010	**8,200**	**3,400**	**78**	< 0.5	**1,600**	< 0.5

MTBE = Methyl tert Butyl Ether
Sample results reported as micrograms per liter (µg/L, equivalent to parts per billion)

TABLE 3. SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
LOP SITE NO. RO0000288
ORO LOMA SANITARY DISTRICT
2655 GRANT AVENUE, SAN LORENZO, CA

Sample Location	Sample Date	TPH as Gasoline	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE
MW-1	2/19/1999	ND	ND	ND	ND	ND	ND
	5/10/1999	ND	ND	ND	ND	ND	ND
	8/30/1999	- - -	ND	ND	ND	ND	ND
	11/23/1999	ND	ND	ND	ND	ND	ND
dup	11/23/1999	ND	ND	ND	ND	ND	ND
	7/25/2003	ND	ND	ND	ND	ND	ND
	10/30/2003	- - -	- - -	- - -	- - -	- - -	- - -
	1/23/2004	ND	ND	ND	ND	ND	ND
	4/27/2004	- - -	- - -	- - -	- - -	- - -	- - -
	7/29/2004	ND	ND	ND	ND	ND	ND
mp	10/28/2004	- - -	- - -	- - -	- - -	- - -	- - -
	12/8/2004	ND	ND	ND	ND	ND	ND
mp	1/24/2005	ND	ND	ND	ND	ND	ND
	4/28/2005	- - -	- - -	- - -	- - -	- - -	- - -
	7/19/2005	ND	ND	ND	ND	ND	ND
	10/6/2005	- - -	- - -	- - -	- - -	- - -	- - -
	1/30/2006	ND	ND	ND	ND	ND	ND
	4/18/2006	- - -	- - -	- - -	- - -	- - -	- - -
	7/19/2006	ND	ND	ND	ND	ND	ND
	10/26/2006	- - -	- - -	- - -	- - -	- - -	- - -
	1/15/2007	ND	ND	ND	ND	ND	ND
	4/19/2007	- - -	- - -	- - -	- - -	- - -	- - -
	7/19/2007	ND	ND	ND	ND	ND	ND
	10/17/2007	- - -	- - -	- - -	- - -	- - -	- - -
	1/15/2008	ND	ND	ND	ND	ND	ND
	4/15/2008	- - -	- - -	- - -	- - -	- - -	- - -
	7/17/2008	ND	ND	ND	ND	ND	ND
	10/14/2008	- - -	- - -	- - -	- - -	- - -	- - -
	3/30/2009	< 50	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5
	6/3/2009	< 50	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5
	12/30/2009	< 50	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5
	6/30/2010	< 50	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5
	12/27/2010	< 50	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5
MW-2	2/19/1999	ND	ND	ND	ND	ND	ND
	5/10/1999	ND	ND	ND	ND	ND	ND
	8/30/1999	- - -	ND	ND	ND	ND	ND
	11/23/1999	ND	ND	ND	ND	ND	ND
	7/25/2003	ND	ND	ND	ND	ND	< 1
	10/30/2003	- - -	- - -	- - -	- - -	- - -	- - -
	1/23/2004	ND	ND	ND	ND	ND	ND
	4/27/2004	- - -	- - -	- - -	- - -	- - -	- - -
	7/29/2004	ND	ND	ND	ND	ND	ND
mp	10/28/2004	ND	ND	ND	ND	ND	ND
	12/8/2004	ND	ND	ND	ND	ND	1.5
mp	1/24/2005	ND	ND	ND	ND	ND	9
	4/28/2005	- - -	- - -	- - -	- - -	- - -	- - -
	7/19/2005	ND	ND	ND	ND	ND	ND

TABLE 3. SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
LOP SITE NO. RO0000288
ORO LOMA SANITARY DISTRICT
2655 GRANT AVENUE, SAN LORENZO, CA

Sample Location	Sample Date	TPH as Gasoline	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE
	10/6/2005	- - -	- - -	- - -	- - -	- - -	- - -
	1/30/2006	ND	ND	ND	ND	ND	ND
	4/18/2006	- - -	- - -	- - -	- - -	- - -	- - -
	7/19/2006	ND	ND	ND	ND	ND	ND
	10/26/2006	- - -	- - -	- - -	- - -	- - -	- - -
	1/15/2007	ND	ND	1.3	ND	ND	ND
	4/19/2007	- - -	- - -	- - -	- - -	- - -	- - -
	7/19/2007	ND	ND	ND	ND	ND	ND
	10/17/2007	- - -	- - -	- - -	- - -	- - -	- - -
	1/15/2008	ND	ND	ND	ND	ND	ND
	4/15/2008	- - -	- - -	- - -	- - -	- - -	- - -
	7/17/2008	ND	ND	ND	ND	ND	ND
	10/14/2008	- - -	- - -	- - -	- - -	- - -	- - -
	3/30/2009	< 50	< 0.5	< 0.5	< 0.5	< 1.0	0.5
	6/3/2009	< 50	< 0.5	< 0.5	< 0.5	< 1.0	0.57
	12/30/2009	51	< 0.5	< 0.5	< 0.5	< 1.0	0.54
	6/30/2010	<50	< 0.5	< 0.5	< 0.5	< 1.0	0.76
	12/27/2010	**<50**	**< 0.5**	**< 0.5**	**< 0.5**	**< 1.0**	**0.76**
MW-3	2/19/1999	ND	ND	ND	ND	ND	1.5
dup	2/19/1999	ND	ND	ND	ND	ND	- - -
	5/10/1999	ND	ND	ND	ND	ND	1.5
	8/30/1999	- - -	ND	ND	ND	ND	ND
	11/23/1999	ND	ND	ND	0.69	0.58	1.3
	1/6/2000	ND	ND	ND	ND	ND	ND
dup	1/6/2000	ND	ND	ND	ND	ND	3.14
trip blank	2/10-22/99	ND	ND	ND	ND	ND	2.64
	5/8-20/99	- - -	- - -	- - -	- - -	- - -	- - -
	8/27-31/99	- - -	- - -	- - -	- - -	- - -	- - -
	7/25/2003	ND	ND	ND	ND	ND	1.1
	10/30/2003	- - -	- - -	- - -	- - -	- - -	- - -
	1/23/2004	- - -	- - -	- - -	- - -	- - -	- - -
	4/27/2004	- - -	- - -	- - -	- - -	- - -	- - -
	7/29/2004	ND	6.4	ND	ND	ND	8.8
mp	10/28/2004	390	170	0.7	ND	2.4	57
	12/8/2004	- - -	- - -	- - -	- - -	- - -	- - -
mp	1/24/2005	520	260	0.53	ND	1.9	89
	4/28/2005	220	110	ND	ND	0.63	54
	7/19/2005	760	370	0.68	ND	2.6	92
	10/6/2005	190	71	ND	ND	ND	49
	1/30/2006	300	130	0.74	ND	2.5	71
	4/18/2006	380	190	1.0	ND	4.0	66
	7/19/2006	140	61	ND	0.57	0.89	44
	10/26/2006	91	20	ND	0.55	3.5	46
	1/15/2007	ND	3.8	ND	ND	ND	32
	4/19/2007	52	2.9	ND	ND	ND	57
	7/19/2007	ND	2.6	ND	ND	ND	47
	10/17/2007	55	1.5	ND	ND	1.3	42

TABLE 3. SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
LOP SITE NO. RO0000288
ORO LOMA SANITARY DISTRICT
2655 GRANT AVENUE, SAN LORENZO, CA

Sample Location	Sample Date	TPH as Gasoline	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE
	1/15/2008	ND	ND	ND	ND	ND	40
	4/15/2008	- - -	- - -	- - -	- - -	- - -	- - -
	7/17/2008	ND	ND	ND	ND	ND	ND
	10/14/2008	- - -	- - -	- - -	- - -	- - -	34
	3/30/2009	< 50	< 0.5	< 0.5	< 0.5	< 1.0	39
	6/3/2009	< 50	< 0.5	< 0.5	< 0.5	< 1.0	31
	12/30/2009	65	< 0.5	< 0.5	< 0.5	< 1.0	38
	6/30/2010	51	< 0.5	< 0.5	< 0.5	< 1.0	28
	12/27/2010	**70**	**< 0.5**	**< 0.5**	**< 0.5**	**< 1.0**	**23**
MW-4	10/21/2002	- - -	5,800	6,200	3,500	18,000	140
	1/28/2003	- - -	7,200	3,500	2,700	15,000	130
	4/28/2003	- - -	5,700	850	< 120	10,000	200
	7/25/2003	97,000	11,000	8,400	4,900	24,000	< 250
	10/30/2003	77,000	12,000	9,300	3,200	16,000	< 200
	1/23/2004	100,000	16,000	10,000	1,100	19,000	< 1,200
	4/27/2004	78,000	13,000	7,800	3,200	17,000	< 1,000
	7/29/2004	46,000	8,300	2,100	2,000	7,900	< 500
mp	10/28/2004	80,000	15,000	7,100	3,500	14,000	< 1,000
	12/8/2004	- - -	- - -	- - -	- - -	- - -	- - -
mp	1/24/2005	70	9,900	850	2,500	11,000	< 1,000
	4/28/2005	79,000	9,400	690	4,000	16,000	< 900
	7/19/2005	35,000	7,500	92	1,900	3,900	< 500
	10/6/2005	65,000	12,000	2,100	3,200	11,000	< 500
	1/30/2006	45,000	9,800	380	2,400	6,500	< 130
	4/18/2006	58,000	7,100	420	3,900	13,000	< 500
	7/19/2006	71,000	10,000	520	4,900	18,000	< 500
	10/26/2006	89,000	13,000	1,600	4,300	19,000	< 800
	1/15/2007	65,000	10,000	570	3,300	13,000	< 250
	4/19/2007	52,000	9,400	300	3,600	8,900	< 600
	7/19/2007	21,000	4,500	26	1,100	370	< 240
	10/17/2007	28,000	5,900	87	1,700	1,400	< 240
	1/15/2008	46,000	9,200	220	2,600	5,800	< 250
	4/15/2008	32,000	8,300	89	1,900	2,400	< 210
	Well Abandoned/Decommissioned on 4/17/2008 for soil excavation						
MW-5	10/21/2002	65,000	12,000	20,000	1,600	7,100	< 100
	1/28/2003	- - -	9,100	6,600	720	4,000	< 100
	4/28/2003	- - -	12,000	8,300	< 250	2,100	< 250
	7/25/2003	62,000	13,000	14,000	1,300	5,200	< 250
	10/30/2003	33,000	7,500	2,200	490	1,600	< 100
	1/23/2004	97,000	18,000	20,000	< 120	7,900	< 1,200
	4/27/2004	39,000	12,000	11,000	920	4,300	< 1,000
	7/29/2004	47,000	11,000	5,500	690	2,800	< 1,000
mp	10/28/2004	130,000	23,000	25,000	2,000	9,700	ND
	12/8/2004	- - -	- - -	- - -	- - -	- - -	- - -
mp	1/24/2005	150,000	22,000	25,000	2,100	12,000	< 1,000
	4/28/2005	89,000	18,000	11,000	1,600	8,900	< 500

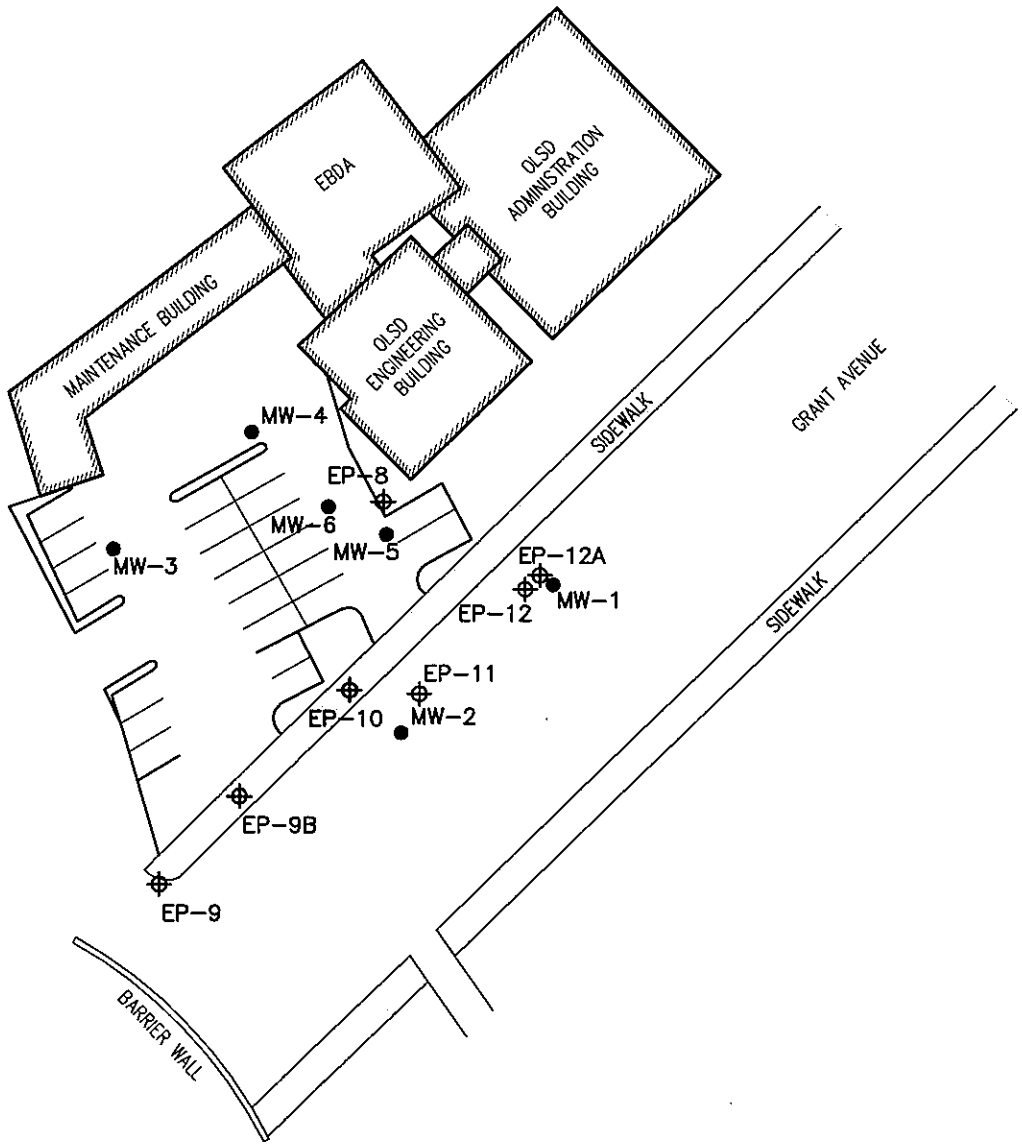
TABLE 3. SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
LOP SITE NO. RO0000288
ORO LOMA SANITARY DISTRICT
2655 GRANT AVENUE, SAN LORENZO, CA

Sample Location	Sample Date	TPH as Gasoline	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE
	7/19/2005	39,000	11,000	200	710	1,700	< 500
	10/6/2005	58,000	17,000	410	1,000	6,600	< 500
	1/30/2006	61,000	15,000	5,500	1,100	5,600	< 500
	4/18/2006	36,000	13,000	490	660	3,300	< 500
	7/19/2006	49,000	16,000	460	< 50	7,700	< 500
	10/26/2006	55,000	14,000	430	1,200	6,700	< 1,000
	1/15/2007	34,000	11,000	88	720	2,600	< 250
	4/19/2007	29,000	11,000	63	700	2,200	< 130
	7/19/2007	25,000	8,300	36	600	1,700	< 50
	10/17/2007	32,000	9,200	57	650	1,900	< 100
	1/15/2008	33,000	12,000	51	800	1,900	< 250
	4/15/2008	30,000	11,000	36	690	1,700	< 50
	7/17/2008	21,000	8,000	30	560	1,600	< 50
	10/14/2008	23,000	6,700	65	580	2,000	< 100
	3/30/2009	8,400	8,500	92	800	1,500	8.3
	6/3/2009	14,000	6,200	95	540	1,600	< 0.5
	12/30/2009	18,000	5,900	240	840	2,400	10.0
	6/30/2010	20,000	8,700	170	980	2,700	<.5
	12/27/2010	**15,000**	**1,300**	**340**	**900**	**1,500**	<.5
MW-6	7/17/2008	110,000	9,800	14,000	970	6,900	< 500
	10/14/2008	31,000	5,600	4,300	170	3,600	< 250
	3/30/2009	20,000	11,000	4,500	1,300	5,000	47
	6/3/2009	2,000	930	910	500	190	39
	12/30/2009	19,000	3,500	890	ND	2,200	92
	6/30/2010	15,000	7,000	980	690	1,600	42
	12/27/2010	**8,200**	**3,400**	**78**	< 5	**1,600**	<5

Notes:

All results reported as microgram per liter (µg/L), equivalent to parts per billion
mp = Sampled using the "micro-purge" (low flow) technique
dup = Duplicate sample to evaluate analytical laboratory precision
MTBE = Methyl-tert-Butyl Ether
- - - = Groundwater Sample not analyzed
ND = Groundwater sample analyzed, but constituents less than laboratory detection limits

FIGURE



EXPLANATION

MW-3 — MONITORING WELL LOCATION

EP-12 — BORING LOCATION, SUTTON GROUP, 1998

N

TRUE NORTH

N

PLANT NORTH

0 ~60'

Trihydro CORPORATION
1252 Commerce Drive
Laramie, Wyoming 82070
www.trihydro.com
(P) 307/745.7474 (F) 307/745.7729

FIGURE 1

ORO LOMA SERVICE CENTER BASEMAP

ORO LOMA SANITARY DISTRICT
2600 GRANT AVENUE
SAN LORENZO, CALIFORNIA

Drawn By: RES	Checked By: SV	Scale: 1" = ~60'	Date: 5/12/09	File: 05P-BASEMAP200905

APPENDIX

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 06/17/2011

Dave Kleesattel

Trihydro
2520 Stanwell Dr, Suite 200
Concord, CA 94520

Project:	Oro Loma Sanitary District
BC Work Order:	1018174
Invoice ID:	B092872

Enclosed are the results of analyses for samples received by the laboratory on 12/28/2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Meyers

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

Table of Contents

BC Laboratories, Inc.

Chain of Custody Form

Page 1 of 1

Report To:
Client: TRINYDRO CORPORATION
Attn: DAVID JAMESSMITH
Street Address: 2520 STANWELL DR #200
City, State, Zip: CONCORD, CA 94520
Phone: (925) 270-4674 Fax: (925) 270-4645
Email Address: DJAMESSMITH@TRINYDRO.COM JBARKER@TRINYDRO.COM
Work Order #: 10-1817 4

Project #: DSP-001-001
Project Name: Oakdale Sanitary District
Global ID #:
Sampler(s): JOHN BARKER

Analysis Requested

Please refer to the back of this page for completion instructions and method legend.

Sample #	Description	Date Sampled	Time Sampled	8260 MTBE, TPHG, BTEX	Sample Matrix: Soil	Sludge	Drinking Water	Ground Water	Waste Water	Other	Turnaround # of work days*	Notes
-1	MW-1	12/27/10	1252	3				X				NON PRESERVED
-2	MW-2	12/27/10	1316	3				X				
-3	MW-3	12/27/10	1319	3				X				
-4	MW-5	12/27/10	1435	3				X				
-5	MW-6	12/27/10	1353	3				X				
-6	TRIP BLANK	12/27/10	1445	1						X		HCL PRESERVED

Comments: ALL SAMPLES ARE UNPRESERVED

Are there any tests with holding times less than or equal to 48 hours? ☐ Yes ☐ No

* Standard Turnaround = 10 work days

CHK-BY [illegible] DISTRIBUTION WHITE SUB-OUT

Billing ☒ Same as above
Client:
Address:
City: State Zip
Attn:
PO#:

EDF Required? ☒ Yes ☐ No

Send Copy to State of CA? (EDT) ☐ Yes ☐ No

Global ID (Needed for EDF):
System # (Needed for EDT):

	Relinquished By	Date	Time	Received By	Date	Time
1.	[signature]	12/27/10	1600	[signature]	12-28-10	1413
2.	[signature]	12-28-10	1710	[signature]	12-28-10	1710
3.	[signature]	12-28-10	1745	[signature]	12-28-10	1745

Chain of Custody and Cooler Receipt Form for 1018174 Page 2 of 2

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 1 Of 1

Submission #: 10-18174

SHIPPING INFORMATION	SHIPPING CONTAINER
Federal Express ☐ UPS ☐ Hand Delivery ☐	Ice Chest ☒ None ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____	Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ (Intact? Yes ☐ No ☐) Containers ☐ (Intact? Yes ☐ No ☐) None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: VOA Thermometer ID: IR3 Date/Time: 12/8 2000

Temperature: A 2.6 °C / C 2.6 °C Analyst Init: R

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK						A(1)				
40ml VOA VIAL	A3	A3	A3	A3	A3					
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ JAR										
32 OZ JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:

Sample Numbering Completed By: _____ Date/Time: 12/08/10 2055

A = Actual / C = Corrected

[N:\DOCS\WP60\LAB_DOCS\FORMS\SAMREC2.WPD]

Trihydro
2520 Stanwell Dr, Suite 200
Concord, CA 94520

Reported: 06/17/2011 9:30
Project: Oro Loma Sanitary District
Project Number: [none]
Project Manager: Dave Kleesattel

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1018174-01	**COC Number:**	---	**Receive Date:** 12/28/2010 19:45
	Project Number:	Oro Loma	**Sampling Date:** 12/27/2010 12:52
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-1	**Lab Matrix:** Water
	Sampled By:	THCL	**Sample Type:** Water
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): MW-1
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1018174-02	**COC Number:**	---	**Receive Date:** 12/28/2010 19:45
	Project Number:	Oro Loma	**Sampling Date:** 12/27/2010 12:16
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-2	**Lab Matrix:** Water
	Sampled By:	THCL	**Sample Type:** Water
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): MW-2
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1018174-03	**COC Number:**	---	**Receive Date:** 12/28/2010 19:45
	Project Number:	Oro Loma	**Sampling Date:** 12/27/2010 13:19
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-3	**Lab Matrix:** Water
	Sampled By:	THCL	**Sample Type:** Water
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): MW-3
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

Trihydro
2520 Stanwell Dr, Suite 200
Concord, CA 94520

Reported: 06/17/2011 9:30
Project: Oro Loma Sanitary District
Project Number: [none]
Project Manager: Dave Kleesattel

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1018174-04	**COC Number:**	---	**Receive Date:** 12/28/2010 19:45
	Project Number:	Oro Loma	**Sampling Date:** 12/27/2010 14:35
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-5	**Lab Matrix:** Water
	Sampled By:	THCL	**Sample Type:** Water
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): MW-5
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1018174-05	**COC Number:**	---	**Receive Date:** 12/28/2010 19:45
	Project Number:	Oro Loma	**Sampling Date:** 12/27/2010 13:53
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-6	**Lab Matrix:** Water
	Sampled By:	THCL	**Sample Type:** Water
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): MW-6
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1018174-06	**COC Number:**	---	**Receive Date:** 12/28/2010 19:45
	Project Number:	Oro Loma	**Sampling Date:** 12/27/2010 14:45
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	Trip Blank	**Lab Matrix:** Water
	Sampled By:	THCL	**Sample Type:** Water
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): QCTB
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

Trihydro
2520 Stanwell Dr, Suite 200
Concord, CA 94520

Reported: 06/17/2011 9:30
Project: Oro Loma Sanitary District
Project Number: [none]
Project Manager: Dave Kleesattel

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1018174-01 | **Client Sample Name:** Oro Loma, MW-1, 12/27/2010 12:52:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.9	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	106	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	01/03/11	01/03/11 12:31	JCC	MS-V4	1	BTL1948

Trihydro
2520 Stanwell Dr, Suite 200
Concord, CA 94520

Reported: 06/17/2011 9:30
Project: Oro Loma Sanitary District
Project Number: [none]
Project Manager: Dave Kleesattel

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1018174-02 | **Client Sample Name:** Oro Loma, MW-2, 12/27/2010 12:16:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	99.9	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	01/03/11	01/03/11 13:00	JCC	MS-V4	1	BTL1948

Trihydro
2520 Stanwell Dr, Suite 200
Concord, CA 94520

Reported: 06/17/2011 9:30
Project: Oro Loma Sanitary District
Project Number: [none]
Project Manager: Dave Kleesattel

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1018174-03 | **Client Sample Name:** Oro Loma, MW-3, 12/27/2010 1:19:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**23**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	**70**	**ug/L**	**50**	**Luft-GC/MS**	**ND**		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	102	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	102	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	01/03/11	01/03/11 13:28	JCC	MS-V4	1	BTL1948

Trihydro
2520 Stanwell Dr, Suite 200
Concord, CA 94520

Reported: 06/17/2011 9:30
Project: Oro Loma Sanitary District
Project Number: [none]
Project Manager: Dave Kleesattel

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1018174-04 | **Client Sample Name:** Oro Loma, MW-5, 12/27/2010 2:35:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**1300**	**ug/L**	**50**	**EPA-8260**	**ND**	**A01**	1
Ethylbenzene	**900**	**ug/L**	**5.0**	**EPA-8260**	**ND**	**A01**	2
Methyl t-butyl ether	ND	ug/L	5.0	EPA-8260	ND	A01	2
Toluene	**340**	**ug/L**	**5.0**	**EPA-8260**	**ND**	**A01**	2
Total Xylenes	**1500**	**ug/L**	**20**	**EPA-8260**	**ND**	**A01**	3
Total Purgeable Petroleum Hydrocarbons	**15000**	**ug/L**	**500**	**Luft-GC/MS**	**ND**	**A01**	2
1,2-Dichloroethane-d4 (Surrogate)	112	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	84.1	%	76 - 114 (LCL - UCL)	EPA-8260			2
1,2-Dichloroethane-d4 (Surrogate)	92.6	%	76 - 114 (LCL - UCL)	EPA-8260			3
Toluene-d8 (Surrogate)	97.4	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	95.3	%	88 - 110 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)	EPA-8260			3
4-Bromofluorobenzene (Surrogate)	110	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	106	%	86 - 115 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	99.4	%	86 - 115 (LCL - UCL)	EPA-8260			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	12/30/10	01/03/11 18:07	JSK	HPCHEM	100	BTL1923
2	EPA-8260	12/30/10	12/30/10 19:58	KEA	MS-V12	10	BTL1912
3	EPA-8260	01/06/11	01/06/11 19:06	JSK	HPCHEM	20	BTL1923

Trihydro
2520 Stanwell Dr, Suite 200
Concord, CA 94520

Reported: 06/17/2011 9:30
Project: Oro Loma Sanitary District
Project Number: [none]
Project Manager: Dave Kleesattel

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1018174-05 | **Client Sample Name:** Oro Loma, MW-6, 12/27/2010 1:53:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**3400**	**ug/L**	**50**	**EPA-8260**	**ND**	**A01**	1
Ethylbenzene	ND	ug/L	50	EPA-8260	ND	A01	1
Methyl t-butyl ether	ND	ug/L	50	EPA-8260	ND	A01	1
Toluene	**78**	**ug/L**	**50**	**EPA-8260**	**ND**	**A01**	1
Total Xylenes	**1600**	**ug/L**	**100**	**EPA-8260**	**ND**	**A01**	1
Total Purgeable Petroleum Hydrocarbons	**8200**	**ug/L**	**5000**	**Luft-GC/MS**	**ND**	**A01**	1
1,2-Dichloroethane-d4 (Surrogate)	106	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.8	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	108	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	12/30/10	01/03/11 17:46	JSK	HPCHEM	100	BTL1923

Trihydro
2520 Stanwell Dr, Suite 200
Concord, CA 94520

Reported: 06/17/2011 9:30
Project: Oro Loma Sanitary District
Project Number: [none]
Project Manager: Dave Kleesattel

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1018174-06 | **Client Sample Name:** Oro Loma, Trip Blank, 12/27/2010 2:45:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.2	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.3	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	01/03/11	01/03/11 12:02	JCC	MS-V4	1	BTL1948

Trihydro
2520 Stanwell Dr, Suite 200
Concord, CA 94520

Reported: 06/17/2011 9:30
Project: Oro Loma Sanitary District
Project Number: [none]
Project Manager: Dave Kleesattel

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTL1912						
Ethylbenzene	BTL1912-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BTL1912-BLK1	ND	ug/L	0.50		
Toluene	BTL1912-BLK1	ND	ug/L	0.50		
Total Purgeable Petroleum Hydrocarbons	BTL1912-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BTL1912-BLK1	91.3	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BTL1912-BLK1	95.9	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BTL1912-BLK1	101	%	86 - 115 (LCL - UCL)		
QC Batch ID: BTL1923						
Benzene	BTL1923-BLK1	ND	ug/L	0.50		
Ethylbenzene	BTL1923-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BTL1923-BLK1	ND	ug/L	0.50		
Toluene	BTL1923-BLK1	ND	ug/L	0.50		
Total Xylenes	BTL1923-BLK1	ND	ug/L	1.0		
Total Purgeable Petroleum Hydrocarbons	BTL1923-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BTL1923-BLK1	105	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BTL1923-BLK1	98.2	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BTL1923-BLK1	106	%	86 - 115 (LCL - UCL)		
QC Batch ID: BTL1948						
Benzene	BTL1948-BLK1	ND	ug/L	0.50		
Ethylbenzene	BTL1948-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BTL1948-BLK1	ND	ug/L	0.50		
Toluene	BTL1948-BLK1	ND	ug/L	0.50		
Total Xylenes	BTL1948-BLK1	ND	ug/L	1.0		
Total Purgeable Petroleum Hydrocarbons	BTL1948-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BTL1948-BLK1	99.8	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BTL1948-BLK1	101	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BTL1948-BLK1	97.9	%	86 - 115 (LCL - UCL)		

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Concord, CA 94520

Reported: 06/17/2011 9:30
Project: Oro Loma Sanitary District
Project Number: [none]
Project Manager: Dave Kleesattel

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BTL1912										
Toluene	BTL1912-BS1	LCS	21.810	25.000	ug/L	87.2		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BTL1912-BS1	LCS	8.9800	10.000	ug/L	89.8		76 - 114		
Toluene-d8 (Surrogate)	BTL1912-BS1	LCS	9.6600	10.000	ug/L	96.6		88 - 110		
4-Bromofluorobenzene (Surrogate)	BTL1912-BS1	LCS	10.210	10.000	ug/L	102		86 - 115		
QC Batch ID: BTL1923										
Benzene	BTL1923-BS1	LCS	27.010	25.000	ug/L	108		70 - 130		
Toluene	BTL1923-BS1	LCS	27.240	25.000	ug/L	109		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BTL1923-BS1	LCS	10.640	10.000	ug/L	106		76 - 114		
Toluene-d8 (Surrogate)	BTL1923-BS1	LCS	9.7100	10.000	ug/L	97.1		88 - 110		
4-Bromofluorobenzene (Surrogate)	BTL1923-BS1	LCS	10.240	10.000	ug/L	102		86 - 115		
QC Batch ID: BTL1948										
Benzene	BTL1948-BS1	LCS	25.940	25.000	ug/L	104		70 - 130		
Toluene	BTL1948-BS1	LCS	26.970	25.000	ug/L	108		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BTL1948-BS1	LCS	10.690	10.000	ug/L	107		76 - 114		
Toluene-d8 (Surrogate)	BTL1948-BS1	LCS	10.110	10.000	ug/L	101		88 - 110		
4-Bromofluorobenzene (Surrogate)	BTL1948-BS1	LCS	9.9600	10.000	ug/L	99.6		86 - 115		

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BTL1912	Used client sample: N										
Toluene	MS	1016633-83	ND	25.010	25.000	ug/L		100		70 - 130	
	MSD	1016633-83	ND	26.470	25.000	ug/L	5.7	106	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1016633-83	ND	8.8000	10.000	ug/L		88.0		76 - 114	
	MSD	1016633-83	ND	8.8600	10.000	ug/L	0.7	88.6		76 - 114	
Toluene-d8 (Surrogate)	MS	1016633-83	ND	9.7500	10.000	ug/L		97.5		88 - 110	
	MSD	1016633-83	ND	9.6700	10.000	ug/L	0.8	96.7		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1016633-83	ND	10.580	10.000	ug/L		106		86 - 115	
	MSD	1016633-83	ND	10.390	10.000	ug/L	1.8	104		86 - 115	
QC Batch ID: BTL1923	Used client sample: N										
Benzene	MS	1016633-85	ND	26.570	25.000	ug/L		106		70 - 130	
	MSD	1016633-85	ND	27.760	25.000	ug/L	4.4	111	20	70 - 130	
Toluene	MS	1016633-85	ND	27.580	25.000	ug/L		110		70 - 130	
	MSD	1016633-85	ND	27.760	25.000	ug/L	0.7	111	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1016633-85	ND	10.930	10.000	ug/L		109		76 - 114	
	MSD	1016633-85	ND	10.620	10.000	ug/L	2.9	106		76 - 114	
Toluene-d8 (Surrogate)	MS	1016633-85	ND	10.220	10.000	ug/L		102		88 - 110	
	MSD	1016633-85	ND	9.9400	10.000	ug/L	2.8	99.4		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1016633-85	ND	10.130	10.000	ug/L		101		86 - 115	
	MSD	1016633-85	ND	10.200	10.000	ug/L	0.7	102		86 - 115	
QC Batch ID: BTL1948	Used client sample: N										
Benzene	MS	1016633-81	ND	24.360	25.000	ug/L		97.4		70 - 130	
	MSD	1016633-81	ND	26.210	25.000	ug/L	7.3	105	20	70 - 130	
Toluene	MS	1016633-81	ND	27.410	25.000	ug/L		110		70 - 130	
	MSD	1016633-81	ND	26.450	25.000	ug/L	3.6	106	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1016633-81	ND	9.5800	10.000	ug/L		95.8		76 - 114	
	MSD	1016633-81	ND	9.6000	10.000	ug/L	0.2	96.0		76 - 114	
Toluene-d8 (Surrogate)	MS	1016633-81	ND	10.260	10.000	ug/L		103		88 - 110	
	MSD	1016633-81	ND	9.9500	10.000	ug/L	3.1	99.5		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1016633-81	ND	10.370	10.000	ug/L		104		86 - 115	
	MSD	1016633-81	ND	10.420	10.000	ug/L	0.5	104		86 - 115	

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Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.