



IMPACT ENVIRONMENTAL SERVICES

June 19, 2012

Mr. Ross Wickham
Alameda County Health Care Services
Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

RECEIVED

4:22 pm, Jun 28, 2012

Alameda County
Environmental Health

Subject: Third & Fourth Quarter 2008 Groundwater Monitoring Report _RO0002933
1409 – 1417 12th Street, Oakland, California

Dear Mr. Wickman:

On behalf of Mrs. Shirley E. Thompson (property owner), Impact Environmental Services (IES) is pleased to submit this Third & Fourth Quarter 2008 Groundwater Monitoring Report for the property located at 1409 – 1417 12th Street, Oakland, California.

Funding for this project has been provided by a grant from the Orphan Site Cleanup Fund through an agreement with California State Water Resources Control Board.

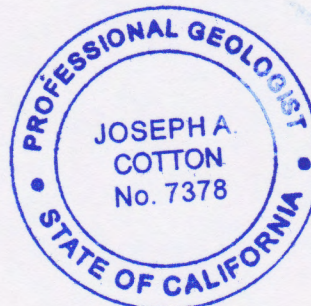
Certification

I certify under penalty of law that this document and attachments are prepared under my direction or supervision in accordance with the system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing the violations.

Please contact Joseph Cotton at (510)703-5420 if you have questions or comments.

Sincerely
Impact Environmental Services

Joseph Cotton, P.G.
Principal Geologist



June 19, 2012

Mr. Ross Wickham
Alameda County Health Care Services
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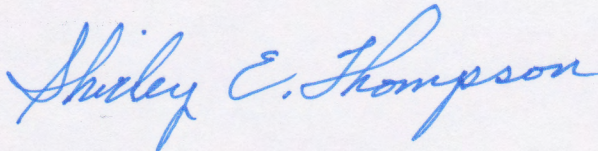
Attached is the Third & Fourth Quarter 2008 Groundwater Monitoring Report for the property located at 1409 – 1417 12th Street, Oakland, California.

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Please contact Joseph Cotton at (510)703-5420 if you have questions or comments.

Sincerely,



Shirley E. Thompson
Property Owner

THIRD & FOURTH QUARTER 2008 GROUNDWATER MONITORING REPORT

**1409 – 1417 12th Street
OAKLAND, CALIFORNIA**

Prepared for

**Shirley Thompson
1155 Hopkins Street
Berkeley, CA 94702**

December 13, 2010

Prepared by

IES
Impact Environmental Services

39120 Argonaut Way, Suite 223
Fremont, California 94538

**THIRD AND FOURTH QUARTER 2008
GROUNDWATER MONITORING REPORT
1409-1417 12TH STREET
OAKLAND CALIFORNIA
ACEH File No. RO2933**

On behalf of Mrs. Shirley E. Thompson, Impact Environmental Services (IMPACT) is presenting this Third and Fourth Quarter 2008 Groundwater Monitoring Report for the property located at 1409-1417 12th Street in Oakland, California (Figure 1). This report presents results of groundwater monitoring conducted at the subject property on July 27, 2008 and October 25, 2008. This document is being prepared at the request of Alameda County Environmental Health (ACEH) for a groundwater monitoring for the unauthorized release of fuel at the subject property¹.

SITE CONTACT INFORMATION

The site address and contact information is as follows:

Site Address:

1409-1417 12th Street
Oakland, CA
APN 004-063-06

Contact Information:

Mrs. Shirley Thompson
Edward C. and Shirley E. Thompson Trust
1155 Hopkins Street, Berkeley, CA 94702-1359

SITE BACKGROUND

The Subject Property is located in a predominately residential area in the western section of the city of Oakland, Alameda County, California (Figure 1). The subject Property comprises the Alameda County assessor parcel 004-063-06 and is bordered to the north by 12th Street and

¹ Alameda County Environmental Health Services Letter_Fuel Leak Case No. RO2933 Global ID T0600158621, Thompson Property, 1409-1417 12th Street, Oakland, CA 94607-2003, dated July 31, 2008.

residential development, to the south by a vacant lot, on the east by Mandela Parkway, and to the west by a residential development (Figure 2). The property is located approximately 1-mile southeast of San Francisco Bay and 1-mile north of Oakland Inner Harbor. The elevation of the site is approximately 17 feet above mean sea level (USGS West Oakland 7.5 Minute Quadrangle). Portions of the site are paved with asphalt and the remainder is covered by grass and soil.

Historical records indicate that the property was occupied by a service station from circa 1957 to circa 1969. The subject property was either vacant or occupied by residential dwellings from at least 1902 to circa 1956. Sanborn maps from 1957 to 1967 appear to show three underground fuel storage tanks (USTs) located in the southeast corner of the service station. The 1961 Sanborn map appears to show a fourth UST or AST along the west property boundary. According to a previous report, a magnetometer survey performed at the subject property (circa 1999) revealed no magnetic anomalies indicative of buried underground storage tanks. However, communications with the Oakland Fire Department Hazardous Materials Division, confirmed that no records exist of UST removal from the Subject Property².

Geologic Setting

The Subject Property is located in the East Bay Plain of the San Francisco Bay Area. This region is dominated by northwest trending topography enclosed in the Coast Range Province of California. The site is located in the “Merritt Sand Outcrop” groundwater subarea, which has a maximum thickness of 65 feet, and the regional gradient is directed toward the west to southwest³. Based on information provided by a previous investigation, soil beneath the property consists primarily of silty-sand to at least 20 feet bgs. Groundwater is first encountered between 10 and 13 feet below ground surface (bgs) and stabilizes between approximately 9 to 11 feet bgs.

² Verbal Communication, *LeRoy Griffin, Oakland Fire Department Hazardous Materials Division*, May 25, 2006.

³ Hickenbottom and Muir, *Geohydrology and Groundwater Quality Overview of the East Bay Plain Area, Alameda County, California*, 205 (J) Report, 1988.

Previous Phased Environmental Investigations

The 1409-1417 12th Street site has been the subject of numerous environmental investigations^{4,5,6,7,8} beginning in 1999. The suspected source of on-site contamination is believed to be from residual fuel from former underground storage tanks (USTs) associated with service station operations. Petroleum hydrocarbons have been detected in on-site soil, soil-vapor, and groundwater samples at concentrations that exceed environmental screening levels (ESLs)⁹ for residential land-use. Significant concentrations of (total petroleum hydrocarbons (TPH) as gasoline (TPHg) up to 20,000 milligrams per kilogram (mg/kg) and volatile organic compounds (VOCs) to 1,300 mg/kg were detected in soil samples collected from the site. TPHg was detected in groundwater samples at a maximum concentration of 52,000µg/L. Benzene, toluene, ethylbenzene, and total xylenes (BTEX) were detected in groundwater at maximum concentrations of 8,700µg/L, 2,200µg/L, 2,000µg/L, 7,200µg/L, respectively. 1,2-dichloroethane was detected at a maximum concentration of 570µg/L. Soil-vapor samples collected from the site were found to contain TPHg at a maximum concentration of 52,000ug/m³, benzene as high as 1,200 ug/m³, and vinyl chloride to 260ug/m³.

In March 2008, eleven groundwater-monitoring wells (MW-1 through MW-8 and GW-1 through GW-3) were installed at the subject property. Shallow groundwater elevations occur from 9 to 11 feet below ground surface. In general, shallow groundwater flow is toward the south towards San Francisco Bay.

A dual-phase vacuum extraction (DPE) pilot test was conducted at the subject property in October 2008. The pilot test was conducted to evaluate DPE technology as a viable method to cleanup petroleum hydrocarbons from soil and groundwater at the site. The results of pilot test

⁴ Blymer Engineers, Inc., *Subsurface Investigation Vacant Parcel 1409-1417 12th Street, Oakland, California*, August 25, 1999.

⁵ Impact Environmental Services, Phase I Environmental Site Assessment 1409-1417 12th Street Oakland California, August 25, 2006 (revised December 13, 2006).

⁶ Impact Environmental Services, Site Characterization Report 1409-1417 12th Street Oakland California, June 5, 2007.

⁷ Impact Environmental Services, Remediation Workplan Site 1409-1417 12th Street Oakland California, October 17, 2007.

⁸ Impact Environmental Services, Groundwater Well Installation & Initial Quarterly Groundwater Monitoring Report for 1409 - 1417 Street, Oakland, California, October 9, 2008.

⁹ San Francisco Bay Regional Water Quality Control Board, *Screening For Environmental Concerns at Sites with Contaminated Soil and Groundwater-Interim Final*, May 2008.

indicated that DPE was a viable technology for mitigating petroleum hydrocarbons from unsaturated soil and groundwater from the subject property.

THIRD AND FOURTH QUARTER 2008 GROUNDWATER MONITORING EVENTS

On July 27, 2008 and October 25, 2008, Impact conducted groundwater monitoring at the subject property. During both groundwater-monitoring events, groundwater samples were collected from groundwater monitoring wells MW-1 through MW-8 and GW-1 through GW-3. Prior to collecting groundwater samples, depth-to-water (DTW) measurements were collected from all eleven wells.

Groundwater samples were collected from groundwater monitoring and extraction/treatment wells in accordance with standard industry practices. Wells were purged of at least three casing volumes using a disposable bailer or a suction pump. During the purging of each well, field parameters (temperature, conductivity, pH, dissolved oxygen, and turbidity) were monitored and recorded on Groundwater Monitoring Data Sheets for the third and fourth quarters of 2008 are presented in Appendix A. Each well was purged until temperature, conductivity, and pH stabilized. Samples were collected using a disposable bailer, placed in laboratory-supplied containers, and properly preserved in an ice-cooled container. Chain-of-custody documentation accompanied the samples through collection and delivery to the analytical laboratory. Purge water was contained in a 55-gallon drum, which was left at the subject site pending disposal in accordance with groundwater analytical results. Groundwater samples were submitted to Torrent Laboratory and analyzed for several constituents of concern (COCs) including TPHd and TPHmo by EPA Method 8015; and TPHg, BTEX, and oxygenates methyl tert-butyl ether (MTBE), diisopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), tert-Amyl methyl ether (TAME), and t-butyl alcohol (t-Butanol) by EPA Method 8260.

Groundwater Elevations and Gradient

DTW measurements were recorded on the Well Gauging Data Sheet for both the third and fourth quarters of 2008 are included in Appendix A. Groundwater elevation data for wells for both quarters are also presented on Table 1. Groundwater contour maps for July 2008 and October 2008 are presented as Figures 3 and 4, respectively. Groundwater elevations were calculated by

subtracting the measured depth to water from the surveyed top of well casings elevations. Groundwater elevations for wells MW-8, GW-1, GW-2, and GW-3 were not used in developing groundwater contour maps because these wells were screened and constructed at deeper depths than monitoring wells MW-1 through MW-7. As a result, only groundwater elevations for wells MW-1 through MW-7 were used to calculate and construct groundwater contour maps and gradients.

The groundwater elevation contour map for the third quarter 2008 indicates that the direction of shallow groundwater flow is to the northwest at an approximate gradient of 0.00014. The groundwater elevation contour map for the fourth quarter 2008 indicates that the direction of shallow groundwater flow is to the northwest at an approximate gradient of 0.00013.

Groundwater Sample Results

Groundwater sample results for the third and fourth quarter 2008 groundwater monitoring events are summarized in Table 2 and certified laboratory analytical reports (CARs) are presented in Appendix B. Maps showing the concentrations of TPHg and benzene detected in groundwater samples during the third quarter 2008 are presented in Figures 5 and 6, respectively. Maps showing the concentrations of TPHg and benzene detected in groundwater samples during the fourth quarter 2008 are presented in Figures 7 and 8, respectively.

Third Quarter 2008

Constituents of concern were not detected at or above method detection limits (MDLs) in groundwater samples collected from wells MW-1 through MW-7. The groundwater sample collected from well MW-8 was found to contain TPHg at 198µg/L and benzene at 5.37µg/L. The groundwater sample from well GW-1 contained 18,000µg/L TPHg, 1,060µg/L TPHd, 3,360µg/L benzene, 146µg/L toluene, 533µg/L ethylbenzene, and 1,450µg/L total xylenes. The groundwater sample collected from well GW-2 was found to contain TPHg at 61µg/L. The groundwater sample collected from well GW-3 was found to contain 61µg/L of TPHg and 3.27µg/L of benzene.

Fourth Quarter 2008

TPHg was detected in ten of eleven groundwater samples collected from wells during the fourth quarter 2008. The only well where TPHg was not detected was in the groundwater sample

collected from well MW-3. Groundwater samples collected from wells MW-1, MW-2, MW-4, MW-5, MW-6 and MW-7 contained TPHg below the residential ESL of 100 µg/L. TPHg was detected above residential ESL in groundwater samples collected from wells MW-8 (240 µg/L), GW-1 (7,200 µg/L), GW-2 (100 µg/L), and GW-3 (100 µg/L).

TPHd was in the groundwater sample collected from well GW-1 and GW-2 at concentrations of 1,020µg/L and 126µg/L, respectively. Both TPHd detections exceeded the residential ESL of 100µg/L. TPHmo was in the groundwater sample collected from well GW-1 and GW-2 at concentrations of 296µg/L and 338µg/L, respectively. Both TPHmo detections exceeded the residential ESL of 100µg/L.

Benzene was detected in groundwater samples collected from well MW-1, MW-8, GW-1, and GW-3. All four benzene detections exceeded the residential ESL of 1µg/L. Groundwater samples collected from wells MW-1, MW-8, and GW-3 were found to contain benzene at 1.68µg/L, 1.41µg/L, and 8.47µg/L. The groundwater sample collected from well GW-1 contained the highest concentration of benzene (1,010 µg/L) detected during the fourth quarter 2008.

Toluene was detected in groundwater samples collected from well MW-1 and GW-1 at concentrations of 1.17µg/L and 161µg/L, respectively. The sample collected from well GW-1 contained toluene above the residential ESL of 40µg/L. Ethyl benzene was detected in the groundwater sample collected from GW-1 at a concentration of 89.8µg/L. Total xylenes were detected in the groundwater sample collected from GW-1 at a concentration of 693µg/L. The detections of toluene and xylenes exceeded the respective residential ESLs of 30µg/L and 20µg/L.

QUALITY CONTROL RESULTS

Quality control (QC) sample results and laboratory QC data for soil and groundwater samples were evaluated to assess the acceptability of the analytical data. Laboratory QC results are included with the CARs presented in Appendix B. All laboratory analyses occurred within EPA recommended sample holding times and all sample containers were received in acceptable condition by the laboratory. Based on the laboratory QA/QC summaries, all method blanks,

laboratory control samples (LCS), matrix spikes (MS), and matrix spike duplicates (MSD) were within laboratory control limits, with the following exceptions.

During the third quarter 2008, the TPHg chromatograms for samples collected from MW-8, GW-2, and GW-3 did not resemble the standard gasoline pattern. Although TPHg constituents were present in these samples, the TPHg value that was reported includes a significant portion of non-target hydrocarbons within the gasoline quantitative range.

The sample chromatogram for GW-1 does not resemble the typical diesel pattern. Hydrocarbons in sample GW-1 were quantified as diesel but appear to be weathered gasoline. In addition, the TPHg value reported in sample GW-1 includes a single peak that significantly biases the quantization.

During the fourth quarter 2008, the sample chromatograms for TPHg, TPHd, and TPHmo detections do not resemble the standard gasoline, diesel, and motor oil patterns. Discrete peaks were identified in the diesel and motor oil chromatograms. The reported TPHg values are due to the presence of non-gasoline compounds within the range of C5-C12, which were quantified as gasoline. The reported TPHd values are due to hydrocarbon peaks within the diesel range were quantified as diesel. The reported TPHmo values are due to hydrocarbon peaks within the motor oil range were quantified as motor oil.

DISCUSSION OF RESULTS

The results of groundwater samples collected during the third and fourth quarters of 2008 were compared to RWQCB ESLs for a residential land-use where shallow groundwater is a source of drinking water. The RWQCB developed ESLs for commercial/industrial and residential land-use scenarios to provide a measure of whether additional investigation, remedial action, or a more detailed risk assessment should be pursued.

Third Quarter 2008

During the third quarter 2008, one or more constituents of concern were detected above their respective ESLs in groundwater samples collected from wells MW-8, GW-1, and GW-3. Samples collected from wells MW-8 and GW-1 contained TPHg and benzene above their

respective ESLs of 100µg/L and 1µg/L. TPHd was also detected above the diesel ESL of 100µg/L in the sample from well GW-1. The groundwater sample collected from well GW-1 also contained concentrations of toluene (ESL of 40µg/L), ethylbenzene (ESL of 30µg/L), and total xylenes (20µg/L) above their ESLs. The groundwater sample collected from well GW-3 also contained benzene above its ESL.

Fourth Quarter 2008

During the fourth quarter 2008, one or more constituents of concern were detected above their respective ESLs in groundwater samples collected from wells MW-8, GW-1, GW-2, and GW-3. TPHg was detected above its ESL in samples collected from wells MW-8, GW-1, GW-2, and GW-3. TPHd and TPHmo were detected above their ESLs of 100µg/L in samples collected from wells GW-1 and GW-2. Benzene was detected above its ESLs in samples collected from wells MW-8, GW-1, and GW-3. The groundwater sample collected from well GW-1 also contained concentrations of toluene, ethyl benzene, and total above their respective ESLs.

Based on the comparison of site data with ESLs it appears the potential human health risks at the site include exposure from direct-contact with petroleum-impacted soils (i.e., during construction activities) and intrusion and subsequent inhalation (indoor) of petroleum-related vapors from impacted soil and groundwater in at and near wells MW-8, GW-1, GW-2, and GW-3.

CONCLUSIONS

Based on the results of soil and groundwater results collected from the wells and confirmation exploratory borings, the following are IMPACT's conclusions regarding the subject property.

- During the third and fourth quarters of 2008, groundwater samples collected from wells MW-8, GW-1, GW-2, and GW-3 contained several COCs above respective residential ESLs.
- During the third and fourth quarters of 2008, the highest concentrations of COCs significantly above residential ESLs where groundwater is a potential drinking water source were detected in groundwater samples collected from well GW-1 and MW-8.

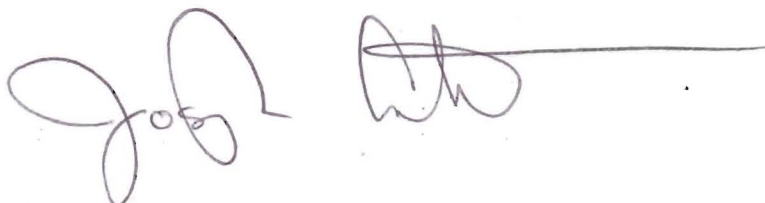
- The spatial extent of petroleum hydrocarbons in soil beneath the site has been well defined. Soil containing petroleum hydrocarbons in excess of respective ESLs appear to be outlined by wells GW-1 (per historical boring B-9), GW-3, and MW-8. In addition, the vertical extent of soil containing significant concentrations of petroleum hydrocarbons does not appear to extend deeper than approximately 22 feet.
- The groundwater elevation contour map for the third quarter 2008 indicates that the direction of shallow groundwater flow is to the northwest at an approximate gradient of 0.00014. The groundwater elevation contour map for the fourth quarter 2008 indicates that the direction of shallow groundwater flow is to the northwest at an approximate gradient of 0.00013.
- Based on the comparison of site data (including groundwater samples collected during the third and fourth quarters of 2008) with ESLs, it appears the potential human health risks at the site include exposure from direct contact with petroleum-impacted soils (i.e., during construction activities) and intrusion and subsequent inhalation of petroleum-related vapors from impacted soil and groundwater.

RECOMMENDATIONS

IMPACT recommends continuing quarterly groundwater monitoring to evaluate temporal changes in groundwater quality and to monitor groundwater plume migration.

PERJURY STATEMENT

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



Joseph A. Cotton, P.G.7378
Principal Environmental Geologist



Distribution:

- (1) Copies – Mrs. Shirley E. Thompson, 1155 Hopkins Way. Berkeley, CA
- (1) Copies – Mr. Steven Plunkett, Alameda County Environmental Health

Attachments:

Tables

Table 1 –Summary of Groundwater Elevations Measurements

Table 2 –Summary of Groundwater Analytical Results

Figures

Figure 1 -- Site Location Map

Figure 2 – Site Plan

Figure 3 – Groundwater Elevation Contour Map (July 27, 2008)

Figure 4 – Groundwater Elevation Contour Map (October 25, 2008)

Figure 5 – Map of TPH as Gasoline in Groundwater (July 27, 2008)

Figure 6 – Map of TPH as Benzene in Groundwater (July 27, 2008))

Figure 7 – Map of TPH as Gasoline in Groundwater (October 25, 2008)

Figure 8 – Map of TPH as Gasoline in Groundwater (October 25, 2008)

Appendices

Appendix A – Well Sampling Data Sheets

Appendix B – Certified Laboratory Analytical Report

LIMITATIONS

Impact Environmental's actions on this project were performed in accordance with current generally accepted environmental consulting principles and practices. This warranty is in lieu of all others, be it expressed or implied. Environmental conditions may exist at the site that could not be observed. Where the scope of services was limited to observations made during site reconnaissance, interviews, and/or review of readily available reports and literature, our conclusions and recommendations are necessarily based largely on information supplied by others, the accuracy and sufficiency of which may not have been independently reviewed by us. Our professional analyses are based in part on interpretation of data from discrete sampling locations that may not represent actual conditions between such sampling points. Additional data from future work or changing conditions may lead to modifications to our professional opinions and recommendations. Any reliance on this report, or portions thereof, by a third party shall be at such party's sole risk.

Table 1
Groundwater Elevations_Third & Fourth Quarter 2008
1409-1417 12th Street
Oakland, California

Well No.	Top-of-Casing Elevation (feet, MSL) ¹	Date Measured	Floating Product Thickness (feet)	Depth to Water (feet)	Groundwater Elevation (feet, MSL) ¹
MW-1	21.49	10/25/08	0.0	12.68	8.81
		07/27/08	0.0	11.99	9.50
		04/30/08	0.0	10.52	10.97
MW-2	20.61	10/25/08	0.0	11.90	8.71
		07/27/08	0.0	11.20	9.41
		04/30/08	0.0	9.64	10.97
MW-3	21.09	10/25/08	0.0	12.36	8.73
		07/27/08	0.0	11.65	9.44
		04/30/08	0.0	10.20	10.89
MW-4	20.35	10/25/08	0.0	11.55	8.80
		07/27/08	0.0	10.85	9.50
		04/30/08	0.0	9.43	10.92
MW-5	20.05	10/25/08	0.0	11.37	8.68
		07/27/08	0.0	10.68	9.37
		04/30/08	0.0	9.10	10.95
MW-6	19.67	10/25/08	0.0	10.92	8.75
		07/27/08	0.0	10.25	9.42
		04/30/08	0.0	8.60	11.07
MW-7	19.88	10/25/08	0.0	11.11	8.77
		07/27/08	0.0	10.41	9.47
		04/30/08	0.0	8.96	10.92
MW-8	20.71	10/25/08	0.0	12.00	8.71
		07/27/08	0.0	11.29	9.42
		04/30/08	0.0	9.82	10.89
GW-1	20.23	10/25/08	0.0	11.51	8.72
		07/27/08	0.0	10.81	9.42
		04/30/08	0.0	9.34	10.89
GW-2	20.57	10/25/08	0.0	11.82	8.75
		07/27/08	0.0	11.16	9.41
		04/30/08	0.0	9.7	10.87
GW-3	20.57	10/25/08	0.0	11.92	8.65
		07/27/08	0.0	11.12	9.45
		04/30/08	0.0	9.6	10.97

Table 2
Third and Fourth Quarter 2008 Groundwater Analytical Results
1409-1417 12th Street,
Oakland, California

Sample ID	Date Sampled	TPHg (ug/L)	TPHd (ug/L)	TPHmo (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	MtBE (ug/L)	t-Butanol (ug/L)	ETBE (ug/L)	DIPE (ug/L)	TAME (ug/L)
MW-1	10/25/08	95x	<100	<200	1.68	1.17	<0.500	<1.5	<0.500	<10.0	<0.500	<0.500	<0.500
	07/27/08	<64	<100	<200	<0.645	<0.645	<0.645	<1.94	<0.645	<12.9	<0.645	<0.645	<0.645
	04/30/08	54	<100	<200	<0.500	<0.500	<0.500	<1.5	<0.500	NA	NA	NA	NA
MW-2	10/25/08	71x	<100	<200	<0.500	<0.500	<0.500	<1.5	<0.500	<10.0	<0.500	<0.500	<0.500
	07/27/08	<50	<100	<200	<0.500	<0.500	<0.500	<1.5	<0.500	<10.0	<0.500	<0.0500	<0.500
	04/30/08	<50	<100	<200	<0.500	<0.500	<0.500	<1.5	<0.500	NA	NA	NA	NA
MW-3	10/25/08	<50	<100	<200	<0.500	<0.500	<0.500	<1.5	<0.500	<10.0	<0.500	<0.500	<0.500
	07/27/08	<58	<100	<200	<0.580	<0.580	<0.580	<1.74	<0.580	<11.6	<0.580	<0.580	<0.580
	04/30/08	<50	<100	<200	<0.500	<0.500	<0.500	<1.5	<0.500	NA	NA	NA	NA
MW-4	10/25/08	61x	<100	<200	<0.500	<0.500	<0.500	<1.5	<0.500	<10.0	<0.500	<0.500	<0.500
	07/27/08	<50	<100	<200	<0.500	<0.500	<0.500	<1.5	<0.500	<10.0	<0.500	<0.0500	<0.500
	04/30/08	<50	<100	<200	<0.500	<0.500	<0.500	<1.5	<0.500	NA	NA	NA	NA
MW-5	10/25/08	71x	<100	<200	<0.500	<0.500	<0.500	<1.5	<0.500	<10.0	<0.500	<0.500	<0.500
	07/27/08	<50	<100	<200	<0.500	<0.500	<0.500	<1.5	<0.500	<10.0	<0.500	<0.0500	<0.500
	04/30/08	<50	<100	<200	<0.500	<0.500	<0.500	<1.5	<0.500	NA	NA	NA	NA
MW-6	10/25/08	72x	<100	<200	<0.500	<0.500	<0.500	<1.5	<0.500	<10.0	<0.500	<0.500	<0.500
	07/27/08	<50	<100	<200	<0.500	<0.500	<0.500	<1.5	<0.500	<10.0	<0.500	<0.0500	<0.500
	04/30/08	53	<100	<200	<0.500	<0.500	<0.500	<1.5	<0.500	NA	NA	NA	NA
MW-7	10/25/08	71x	<100	<200	<0.500	<0.500	<0.500	<1.5	<0.500	<10.0	<0.500	<0.500	<0.500
	07/27/08	<50	<100	<200	<0.500	<0.500	<0.500	<1.5	<0.500	<10.0	<0.500	<0.0500	<0.500
	04/30/08	<50	<100	<200	<0.500	<0.500	<0.500	<1.5	<0.500	NA	NA	NA	NA
<i>Residential ESL (DWS)</i>		<i>100</i>	<i>100</i>	<i>100</i>	<i>1</i>	<i>40</i>	<i>30</i>	<i>20</i>	<i>5</i>	<i>12</i>	<i>na</i>	<i>na</i>	<i>na</i>
<i>Residential ESL (NDWS)</i>		<i>500</i>	<i>640</i>	<i>640</i>	<i>46</i>	<i>130</i>	<i>290</i>	<i>100</i>	<i>1,800</i>	<i>18,000</i>	<i>na</i>	<i>na</i>	<i>na</i>

Table 2
Third and Fourth Quarter 2008 Groundwater Analytical Results
1409-1417 12th Street,
Oakland, California

Sample ID	Date Sampled	TPHg (ug/L)	TPHd (ug/L)	TPHmo (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	MtBE (ug/L)	t-Butanol (ug/L)	ETBE (ug/L)	DIPE (ug/L)	TAME (ug/L)
MW-8	10/25/08	240x	<100	<200	1.41	<0.500	<0.500	3.13	<0.500	<10.0	<0.500	<0.500	<0.500
	07/27/08	198	<100	<200	5.37	1.25	3.77	13.3	<0.500	<10.0	<0.500	<0.0500	<0.500
	04/30/08	1,049	161	<200	13.9	12.4	9.76	160	<0.500	NA	NA	NA	NA
GW-1	10/25/08	7200x	1020x	296x	1,010	161	89.8	693	<2.20	<44.0	<2.20	<2.20	<2.20
	07/27/08	18,000	1,060	<200	3,360	146	533	1,450	<22.0	<440	<22.0	<22.0	<22.0
	04/30/08	37,000	7.25	<200	2,400	769	378	3,450	<0.500	NA	NA	NA	NA
GW-2	10/25/08	100x	126x	338x	<0.500	<0.500	<0.500	<1.5	<0.500	<10.0	<0.500	<0.500	<0.500
	07/27/08	61	<100	<200	<0.500	<0.500	<0.500	<1.5	<0.500	15.3	<0.500	<0.500	<0.500
	04/30/08	<50	<100	<200	<0.500	<0.500	<0.500	<0.500	<0.500	NA	NA	NA	NA
GW-3	10/25/08	100x	<100	<200	8.47	<0.500	<0.500	<1.5	<0.500	<10.0	<0.500	<0.500	<0.500
	07/27/08	63	<100	200	3.27	<0.500	<0.500	<1.5	<0.500	<10.0	<0.500	<0.500	<0.500
	04/30/08	250	<100	<200	46.5	1.36	2.16	<1.5	<0.500	NA	NA	NA	NA
<i>Residential ESL (DWS)</i>		<i>100</i>	<i>100</i>	<i>100</i>	<i>1</i>	<i>40</i>	<i>30</i>	<i>20</i>	<i>5</i>	<i>12</i>	<i>na</i>	<i>na</i>	<i>na</i>
<i>Residential ESL (NDWS)</i>		<i>500</i>	<i>640</i>	<i>640</i>	<i>46</i>	<i>130</i>	<i>290</i>	<i>100</i>	<i>1,800</i>	<i>18,000</i>	<i>na</i>	<i>na</i>	<i>na</i>

Abbreviations and Methods:

NA = Not analyzed for particular constituent of concern

na = Not applicable

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8260

TPHd= Total Petroleum Hydrocarbons as diesel by EPA Method 8015

TPHmo= Total Petroleum Hydrocarbons as motor oil by EPA Method 8015

DIPE= Diisopropyl Ether

ETBE= Ethyl tert-butyl ether

MTBE = methyl-tert-butyl ether (MTBE)

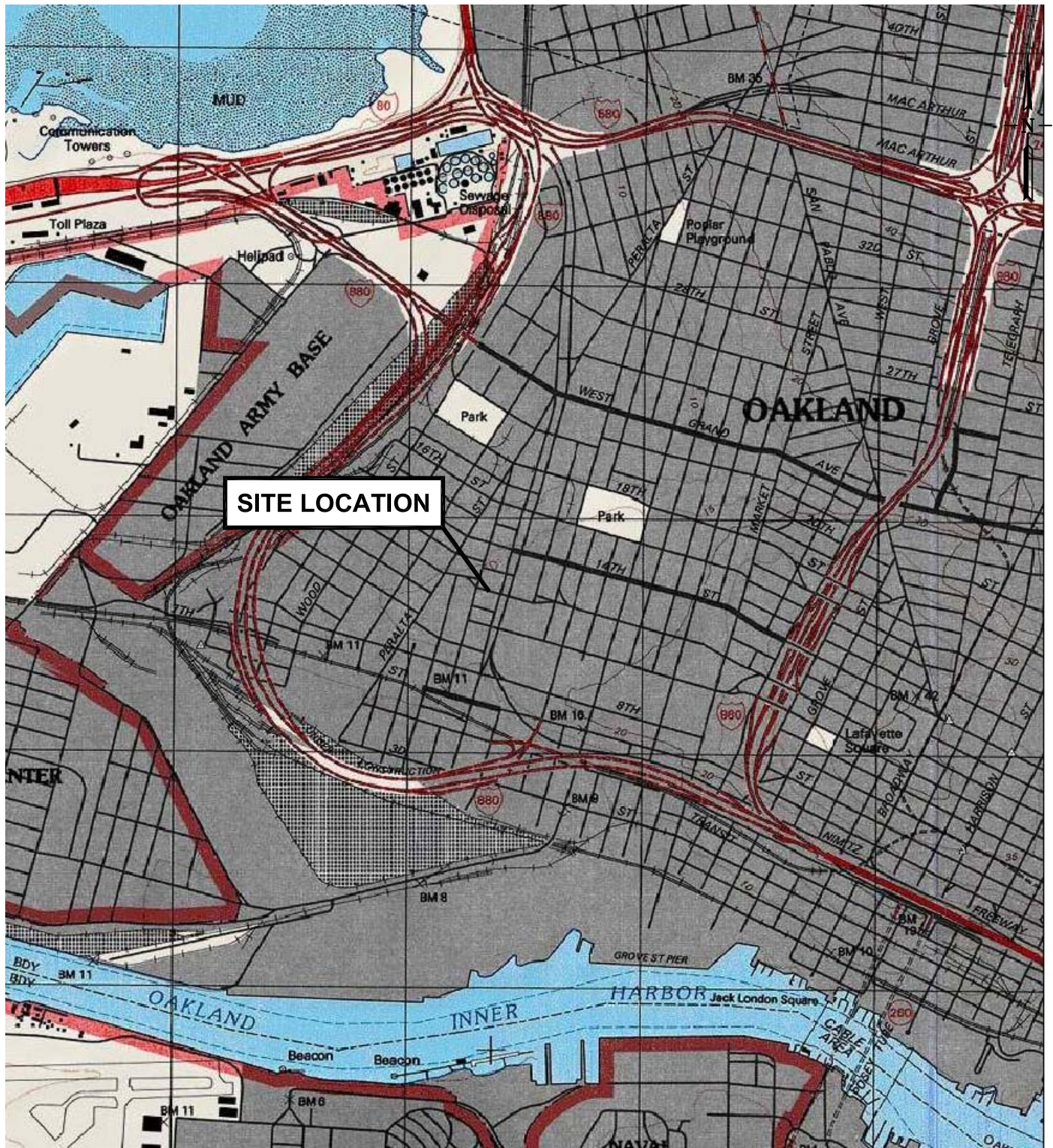
t-Butanol= t-Butyl Alcohol

TAME= tert-Amyl methyl ether

Benzene, , toluene, ethylbenzene, xylenes, MTBE, DIPE, ETBE, TAME, and t-Butanol by EPA Method 8260

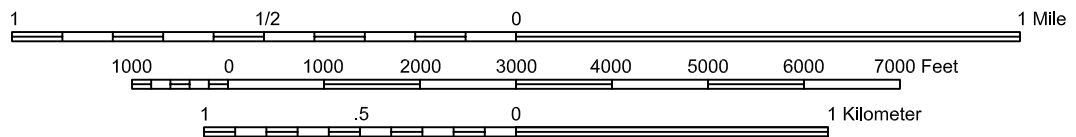
ESL= San Francisco Bay Regional Water Quality Control Board, Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater, May 2008.

DWS- Groundwater beneath site is a drinking water source NDWS- Groundwater beneath site is not a drinking water source



SITE LOCATION

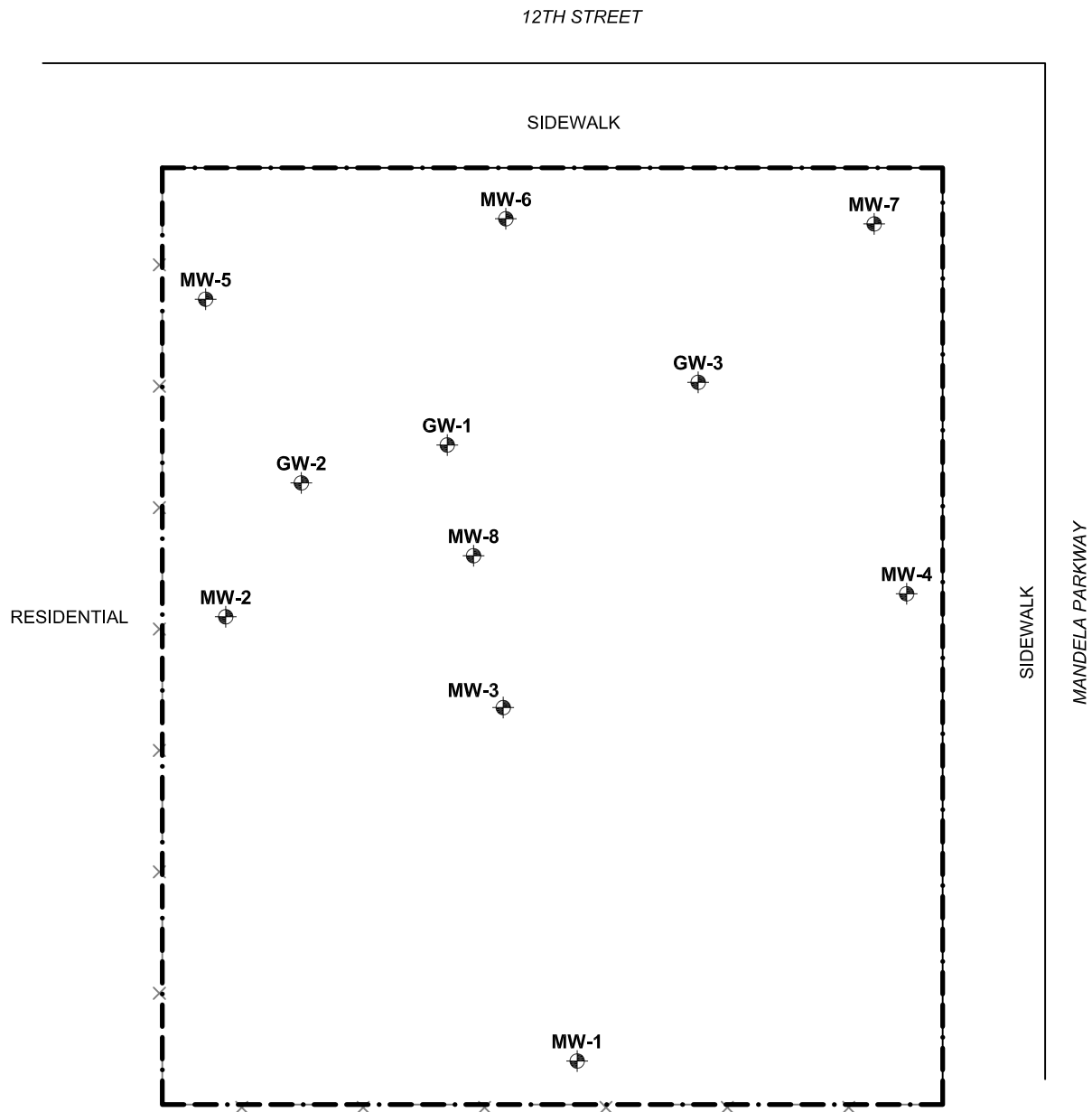
Scale 1:24,000



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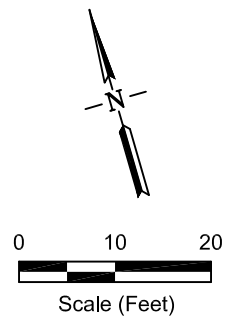
Figure 1
1409 to 1417 12TH STREET
OAKLAND, CALIFORNIA
SITE LOCATION MAP

C:\Work\EnviroCAD\IES\1409-1417 12th Street\3-4Q-08 GW_Mon_Rpt\Figure 3-8.dwg Layout: Fig 2 - Site Plan Dec 14, 2010 - 6:39pm



EXPLANATION:

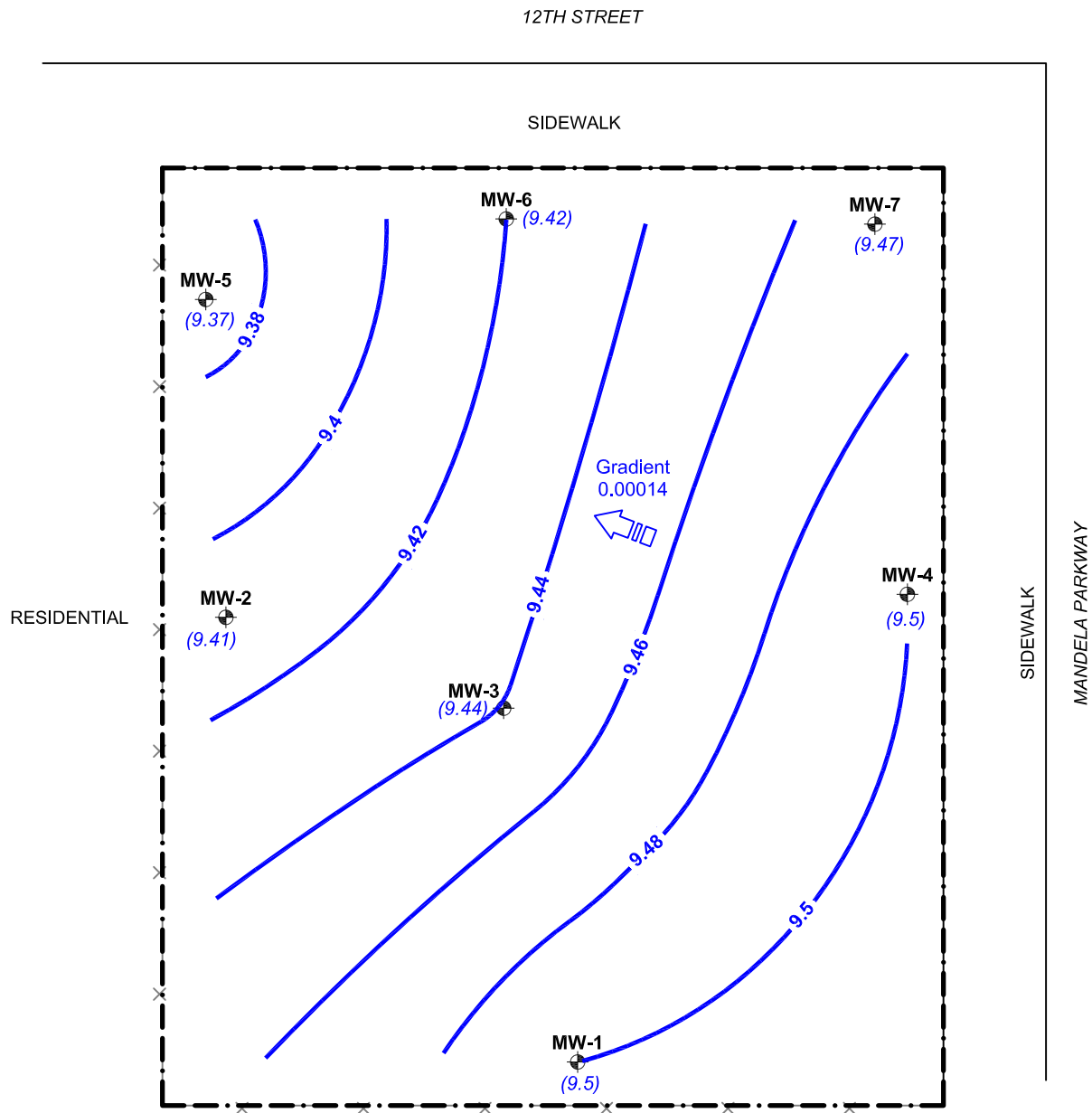
- Approximate Property Boundary
- MW-1 Monitoring Well Location



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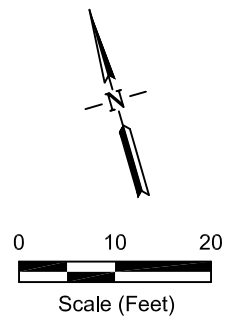
Figure 2
1409 to 1417 12TH STREET
OAKLAND, CALIFORNIA
SITE PLAN

C:\Work\EnviroCAD\IES1409-1417 12th Street\3-4Q-08 GW_Mon_Rpt\Figure 3-8.dwg Layout: Fig 3 - GW-elev_07-08 Dec 13, 2010 - 7:29pm



EXPLANATION:

- · — · — Approximate Property Boundary
- MW-1 Monitoring Well Location
- 9.48 — Groundwater Elevation Contour (ft.-MSL)
- (9.5) Groundwater Elevation (ft.-MSL);
- ➡ Groundwater Gradient

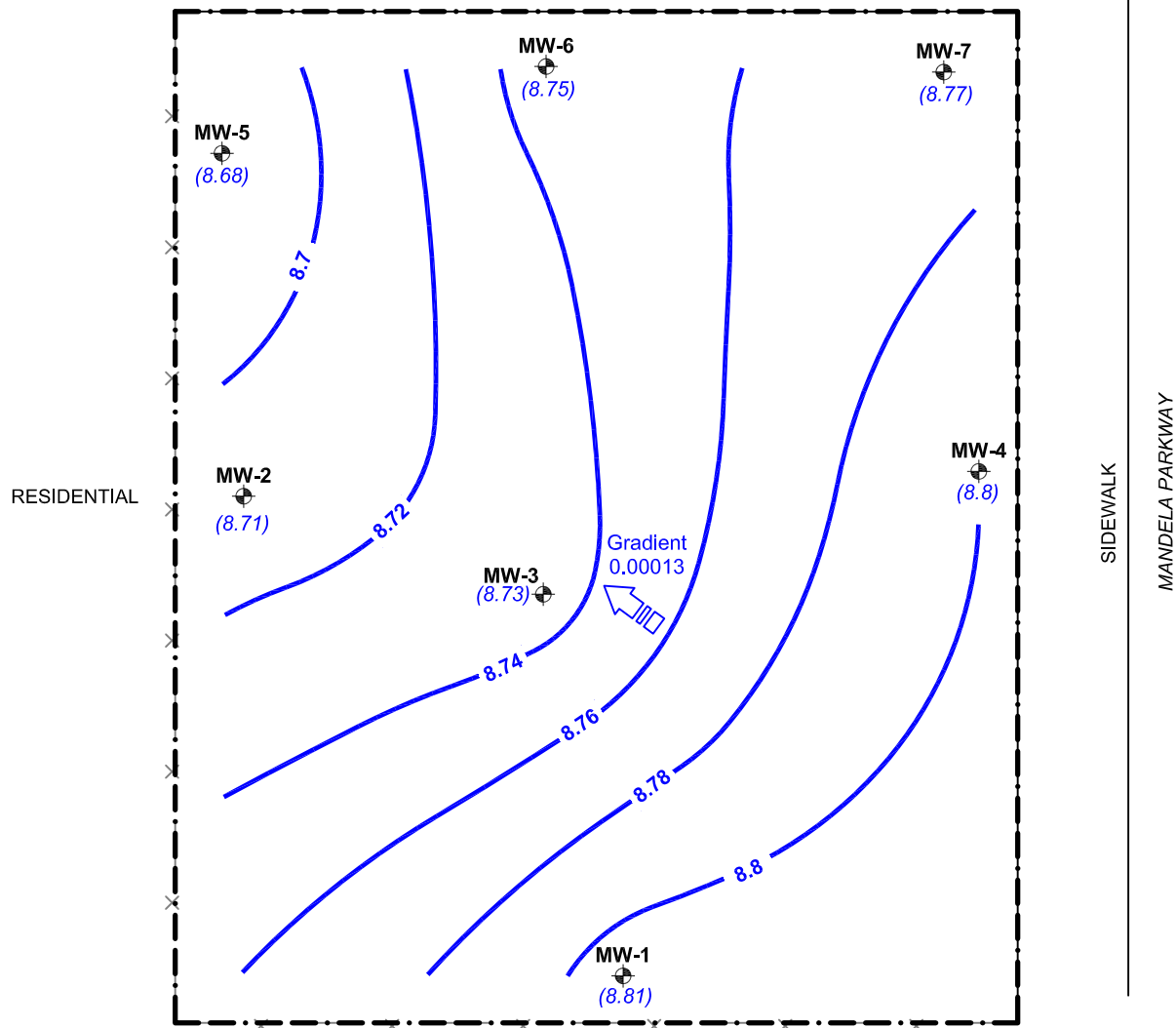


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Figure 3
1409 to 1417 12TH STREET
OAKLAND, CALIFORNIA
GROUNDWATER CONTOUR MAP (JULY 2008)

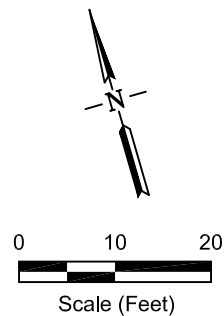
12TH STREET

SIDEWALK



EXPLANATION:

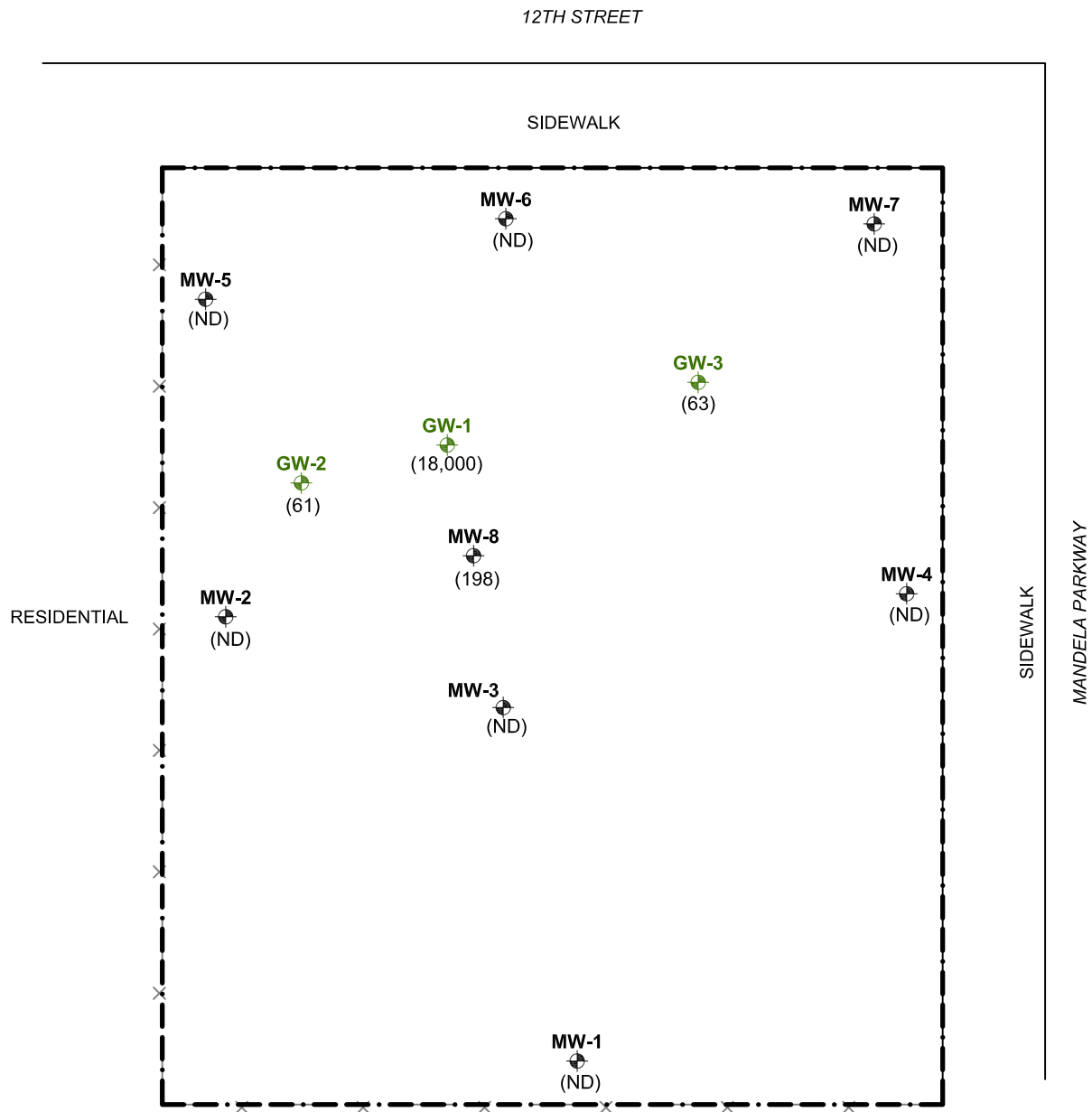
- · — · — Approximate Property Boundary
- MW-1 Monitoring Well Location
- 8.78 — Groundwater Elevation Contour (ft.-MSL)
- (8.81) Groundwater Elevation (ft.-MSL);
- ▢ ▢ ▢ ▢ ▢ Groundwater Gradient



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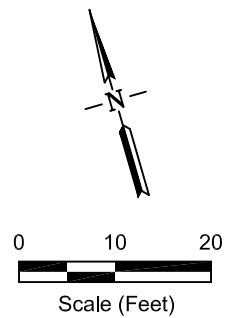
Figure 4
1409 to 1417 12TH STREET
OAKLAND, CALIFORNIA
GROUNDWATER CONTOUR MAP (OCTOBER 2008)

C:\Work\EnviroCAD\IES\1409-1417 12th Street\3-4Q-08 GW_Mon_Rpt\Figure 3-8.dwg Layout: Fig 5 - TPHg_GW-7-08 Dec 13, 2010 - 7:29pm



EXPLANATION:

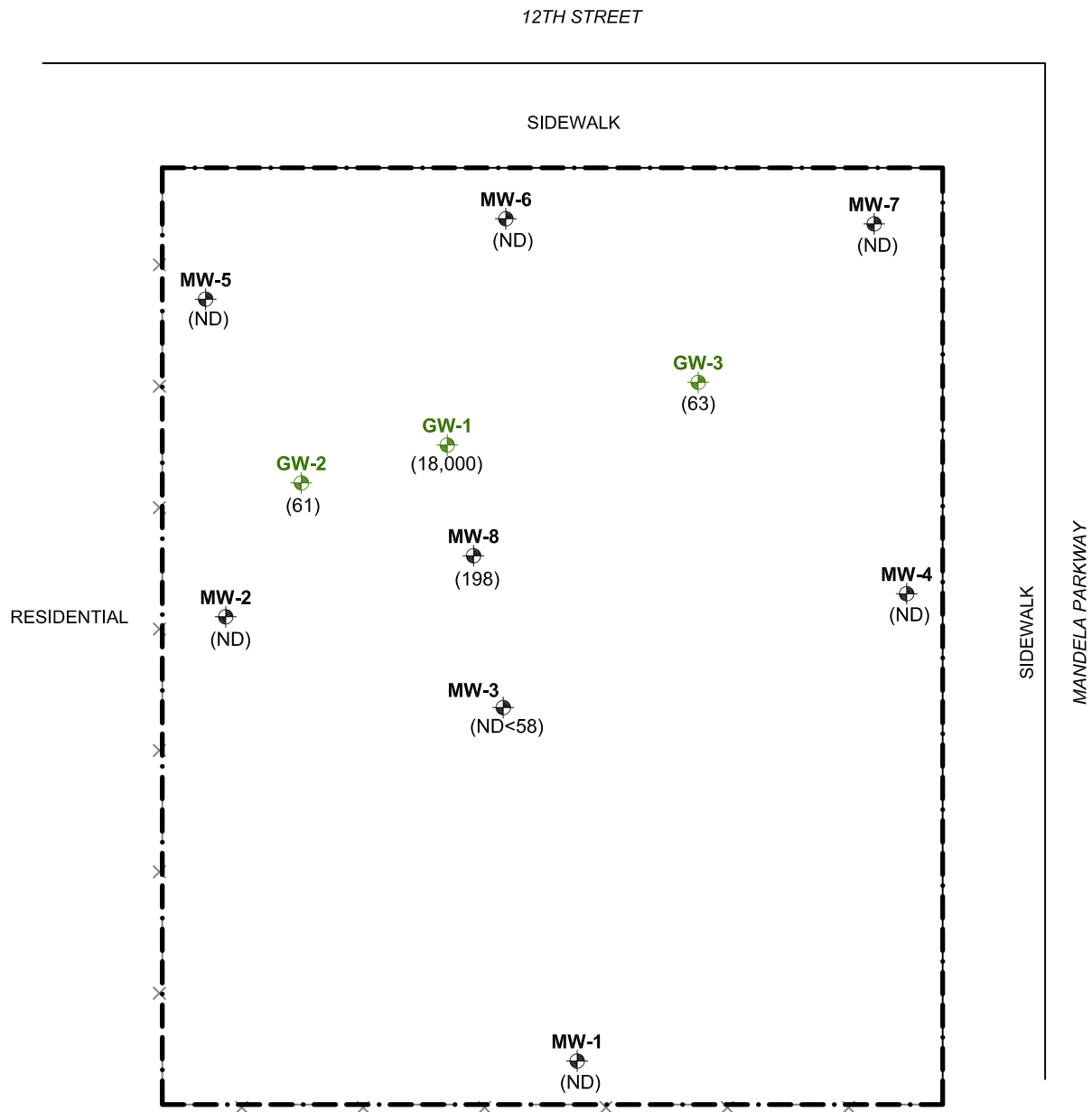
- Approximate Property Boundary
- MW-8 Monitoring Well Location
- (18,000) TPHg Results in micrograms per liter (ug/L)



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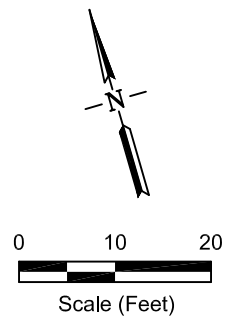
Figure 5
1409 to 1417 12TH STREET
OAKLAND, CALIFORNIA
TPHg IN GROUNDWATER (JULY 2008)

C:\Work\EnviroCAD\IES\1409-1417 12th Street\3-4Q-08 GW_Mon_Rpt\Figure 3-8.dwg Layout: Fig 5 - TPHg_GW-7-08 Dec 12, 2010 - 7:20pm



EXPLANATION:

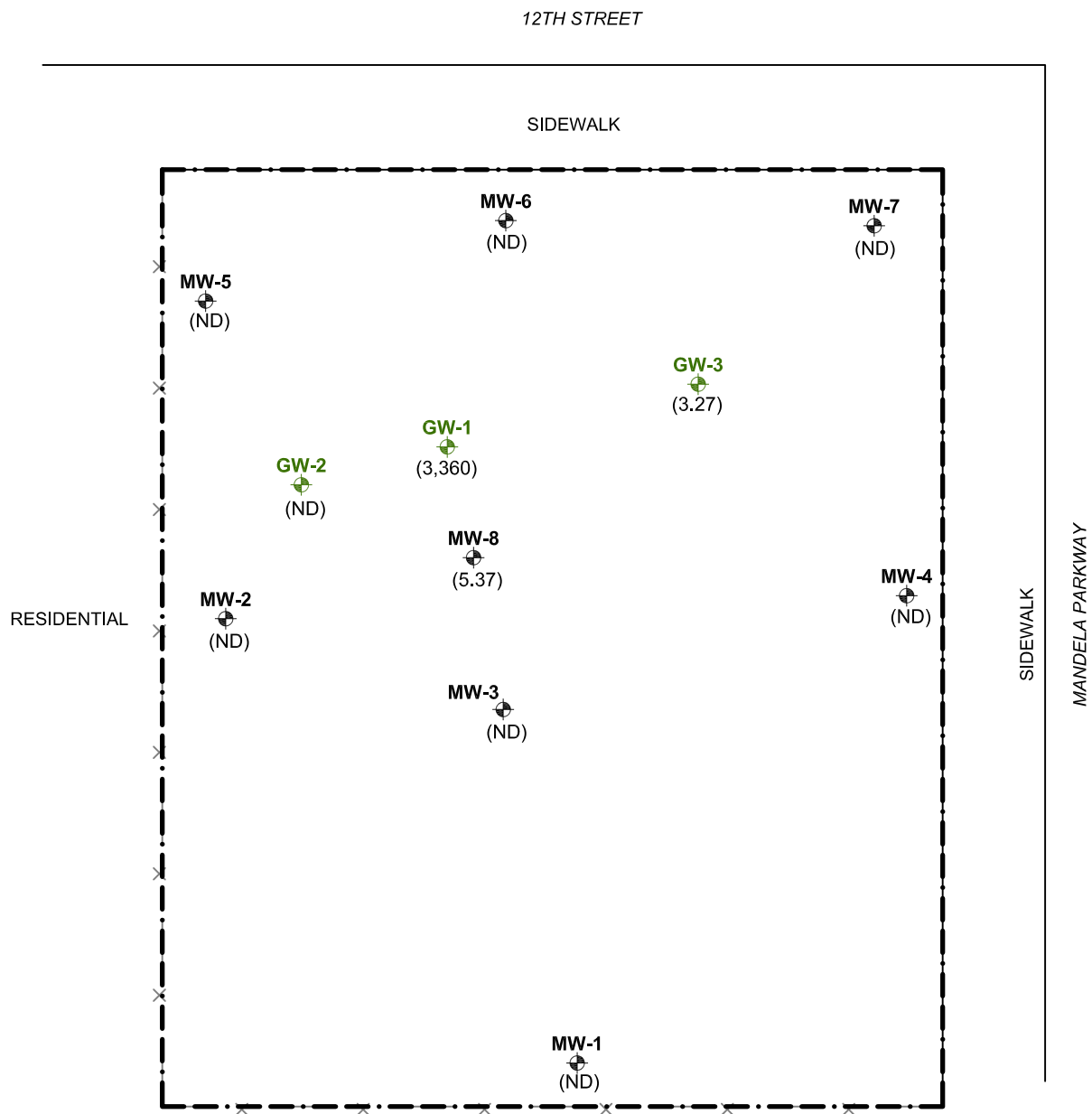
- Approximate Property Boundary
- MW-8 Monitoring Well Location
- (18,000) TPHg Results in micrograms per liter (ug/L)



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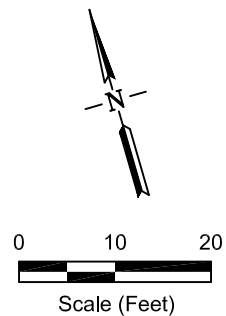
Figure 5
1409 to 1417 12TH STREET
OAKLAND, CALIFORNIA
TPHg IN GROUNDWATER (JULY 2008)

C:\Work\EnviroCAD\IES\1409-1417 12th Street\3-4Q-08 GW_Mon_Rpt\Figure 3-8.dwg Layout: Fig 6 - Benzene_GW-7-08 Dec 12, 2010 - 7:20pm



EXPLANATION:

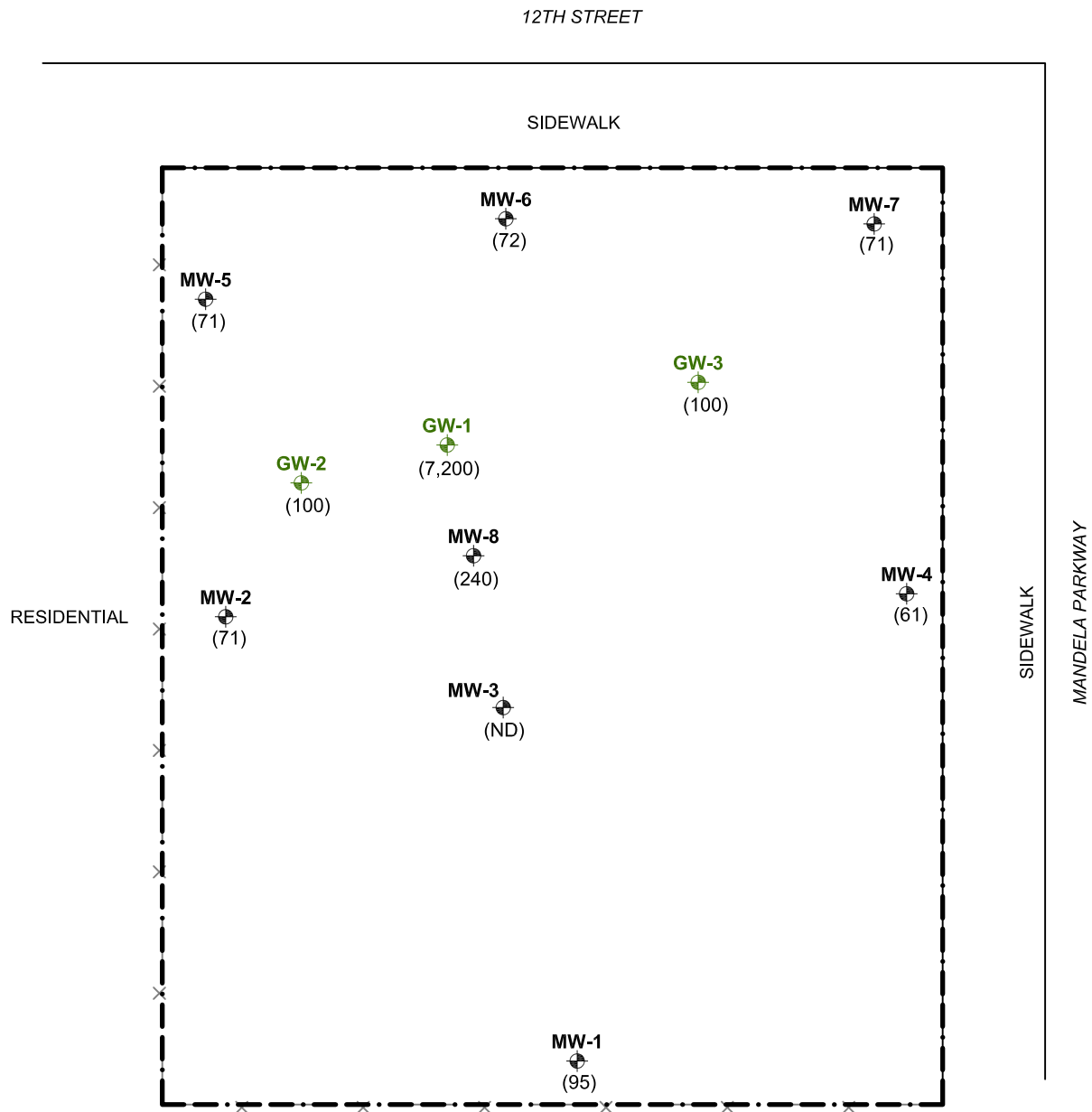
- Approximate Property Boundary
- MW-8 Monitoring Well Location
- (3,360) Benzene Results in micrograms per liter (ug/L)



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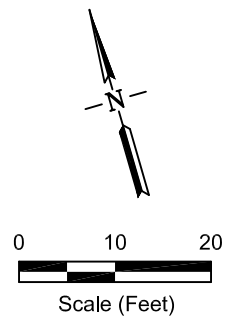
Figure 6
1409 to 1417 12TH STREET
OAKLAND, CALIFORNIA
BENZENE IN GROUNDWATER (JULY 2008)

C:\Work\EnviroCAD\IES\1409-1417 12th Street\3-4Q-08 GW_Mon_Rpt\Figure 3-8.dwg Layout: Fig 7 - TPHg_GW-10-08 Dec 12, 2010 - 7:20pm



EXPLANATION:

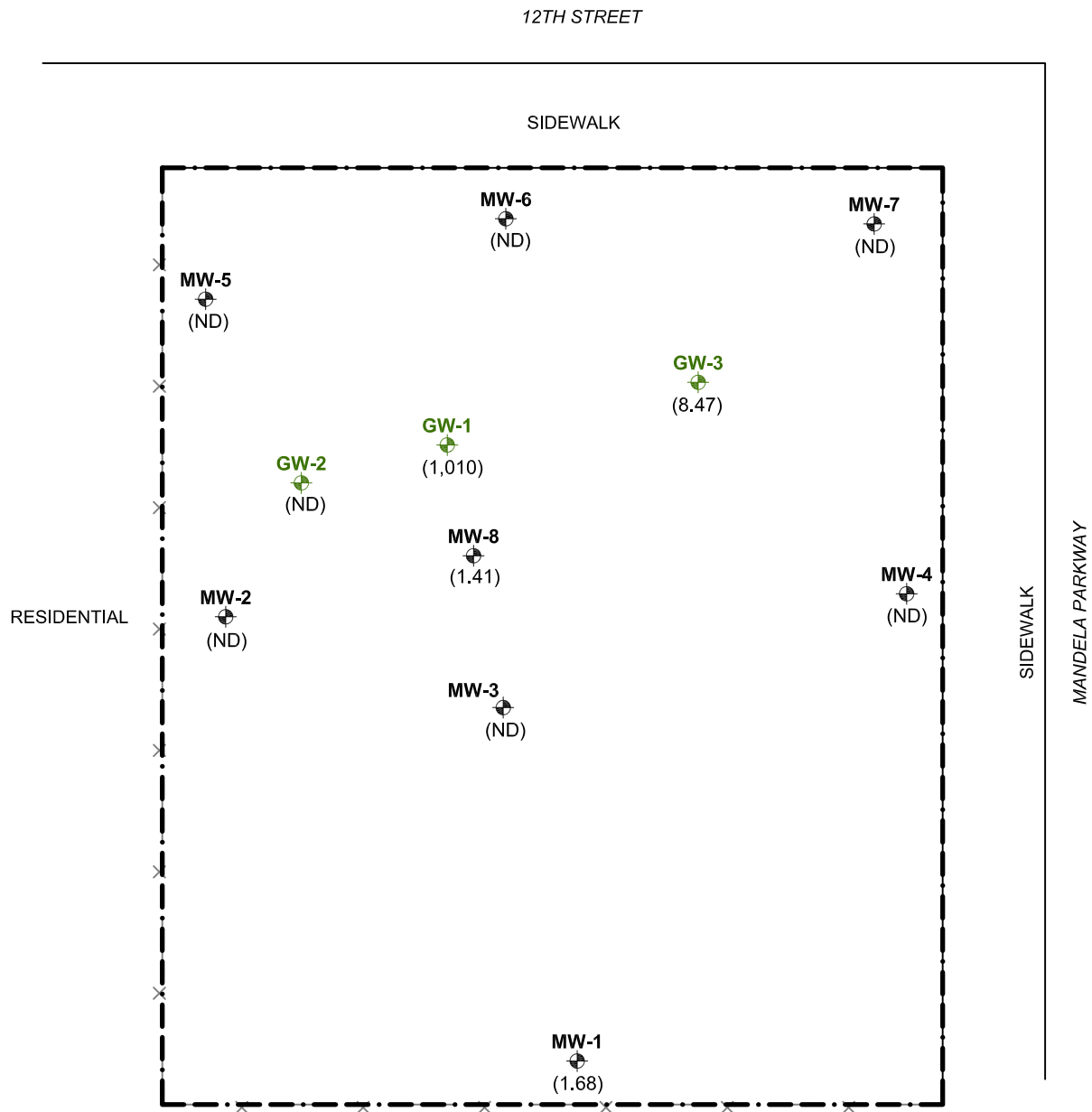
- Approximate Property Boundary
- MW-8 Monitoring Well Location
- (7,200) TPHg Results in micrograms per liter (ug/L)



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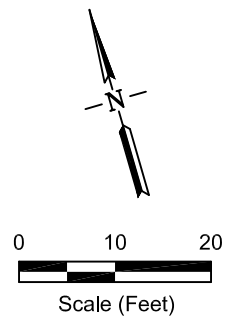
Figure 7
1409 to 1417 12TH STREET
OAKLAND, CALIFORNIA
TPHg IN GROUNDWATER (OCTOBER 2008)

C:\Work\EnviroCAD\IES1409-1417 12th Street\3-4Q-08 GW_Mon_Rpt\Figure 3-8.dwg Layout Fig 8 - Benzene_GW-10-08 Dec 12, 2010 - 7:20pm



EXPLANATION:

- Approximate Property Boundary
- MW-8 Monitoring Well Location
- (1,010) Benzene Results in micrograms per liter (ug/L)



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Figure 8
1409 to 1417 12TH STREET
OAKLAND, CALIFORNIA
BENZENE IN GROUNDWATER (OCTOBER 2008)

APPENDIX A

Well Sampling Data Sheets & Groundwater Elevation Measurements Sheets (Third and Fourth Quarters 2008)

WELL GAUGING DATA

Project Number _____ Date July 27
April 5, 2008

Site Location 1409- 1417 12th Street, Oakland, California

Well ID	Time	Well Size (inches)	Depth to Water	Depth to Well Bottom	Sheen/Odor	Depth to Immiscible Liquid	Thickness Immiscible Liquid	Survey Point	Notes:
MW-1		2"	11.99	14.07					
MW-2		2"	11.2	14.02					
MW-3		2"	11.05	14.72					
MW-4		2"	10.85	14.02					
MW-5		2"	10.08	13.89					
MW-6		2"	10.25	14.6					
MW-7		2"	10.41	13.95					
MW-8		2"	11.29	27.05					
GW-1		4"	10.81	17.11					Measure Last*
GW-2		4"	11.10	17.11					
GW-3		4"	11.12	18.08					Measure Last*

GROUNDWATER SAMPLING DATA SHEET

Project Name: 1409 12th Street, OAKLAND, CA Date: July 27, 2008
 Project Number: 1409 QGWM Sampler: _____
 Well Number: MW-1 Weather: _____
 Well Location: 1409 12th Street, OAKLAND, CA

Well Construction

Date Completed: _____
 Total Depth of Well: 14.67
 Diameter: 2"
 Well Elevation and Reference: _____

Sampling Equipment & Cleaning

Sampler Type: Suction Pump
 Method of Cleaning: Alconox and D.I. Water
 Pump/Bailer Type: Suction Pump
 Method of Cleaning: Alconox and D.I. Water
 pH Meter: HANNA
 Conductivity Meter: HANNA

Ground Water Levels:

Initial: 11.99
 Final: _____
 Reference Point: Black Mark on Top of Casing
 Well Volume of Water: _____

Comments: _____
 2" Well = 0.163 gallons per foot
 4" Well = 0.653 gallons per foot

PURGE MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°F) C	Spec. Conductance (mmhos/cm)		Color/ Turbidity (NTU)	Odor
	Per Time Period	Cumulative			Field	Dissolved Oxygen		
	start		0.92	20.0	2478			
	3		6.80	19.5	1128			

Total Discharge: _____ Comments: _____
 Casing Volumes Removed: _____
 Method of Disposal: _____

IMPACT ENVIRONMENTAL	GROUNDWATER SAMPLING DATA SHEET		
	1409 12th Street, Oakland, California		
	Project No.	Date	Well
	1409 QGWM	JULY 27, 2008	

GROUNDWATER SAMPLING DATA SHEET

Project Name: 1409 12th Street, OAKLAND, CA Date: July 27, 2008
 Project Number: 1409_QGWM Sampler: _____
 Well Number: MW-2 Weather: _____
 Well Location: 1409 12th Street, OAKLAND, CA

Well Construction

Date Completed: _____
 Total Depth of Well: 14.02
 Diameter: 2"
 Well Elevation and Reference: _____

Sampling Equipment & Cleaning

Sampler Type: Suction Pump
 Method of Cleaning: Alconox and D.I. Water
 Pump/Bailer Type: Suction Pump
 Method of Cleaning: Alconox and D.I. Water
 pH Meter: HANNA
 Conductivity Meter: HANNA

Ground Water Levels:

Initial: 11.26 Comments: _____
 Final: _____
 Reference Point: Black Mark on Top of Casing
 Well Volume of Water: _____

PURGE MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°F) °C	Spec. Conductance (mmhos/cm) <u>µS</u>		Color/ Turbidity (NTU)	Odor
	Per Time Period	Cumulative			Field	Dissolved Oxygen		
	start		<u>7.18</u>	<u>20.6</u>	<u>665</u>			<u>NO</u>
	<u>3</u>		<u>6.94</u>	<u>21.5</u>	<u>617</u>			<u>NO</u>

Total Discharge: _____ Comments: _____
 Casing Volumes Removed: _____
 Method of Disposal: _____

IMPACT ENVIRONMENTAL	GROUNDWATER SAMPLING DATA SHEET		
	1409 12th Street, Oakland, California		
	Project No.	Date	Well
	1409_QGWM	JULY 27, 2008	

GROUNDWATER SAMPLING DATA SHEET

Project Name: 1409 12th Street, OAKLAND, CA Date: July 27, 2008
 Project Number: 1409 QGWM Sampler: _____
 Well Number: HW-3 Weather: _____
 Well Location: 1409 12th Street, OAKLAND, CA

Well Construction

Date Completed: _____
 Total Depth of Well: 14.72
 Diameter: 2"
 Well Elevation and Reference: _____

Sampling Equipment & Cleaning

Sampler Type: Suction Pump
 Method of Cleaning: Alconox and D.I. Water
 Pump/Bailer Type: Suction Pump
 Method of Cleaning: Alconox and D.I. Water
 pH Meter: HANNA
 Conductivity Meter: HANNA

Ground Water Levels:

Initial: 11.65 2" Well = 0.163 gallons per foot
 Final: _____ 4" Well = 0.653 gallons per foot
 Reference Point: Black Mark on Top of Casing
 Well Volume of Water: _____

PURGE MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°F) C	Spec. Conductance (mmhos/cm) <u>45</u>		Color/ Turbidity (NTU)	Odor
	Per Time Period	Cumulative			Field	Dissolved Oxygen		
	start		7.20	21.3	937			NO
	3		7.22	21.1	902			NO

Total Discharge: _____ Comments: _____
 Casing Volumes Removed: _____
 Method of Disposal: _____

IMPACT ENVIRONMENTAL	GROUNDWATER SAMPLING DATA SHEET		
	1409 12th Street, Oakland, California		
	Project No.	Date	Well
	1409 QGWM	JULY 27, 2008	

GROUNDWATER SAMPLING DATA SHEET

Project Name: 1409 12th Street, OAKLAND, CA Date: July 27, 2008
 Project Number: 1409_QGWM Sampler: _____
 Well Number: MW-4 Weather: _____
 Well Location: 1409 12th Street, OAKLAND, CA

Well Construction

Date Completed: _____
 Total Depth of Well: 14.02
 Diameter: 2"
 Well Elevation and Reference: _____

Sampling Equipment & Cleaning

Sampler Type: Suction Pump
 Method of Cleaning: Alconox and D.I. Water
 Pump/Bailer Type: Suction Pump
 Method of Cleaning: Alconox and D.I. Water
 pH Meter: HANNA
 Conductivity Meter: HANNA

Ground Water Levels:

Initial: 10.85 Comments: _____
 Final: _____
 Reference Point: Black Mark on Top of Casing
 Well Volume of Water: _____

PURGE MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°F) °C	Spec. Conductance (mmhos/cm) <u>PS</u>		Color/ Turbidity (NTU)	Odor
	Per Time Period	Cumulative			Field	Dissolved Oxygen		
	start		<u>6.98</u>	<u>71.5</u>	<u>591</u>			
	<u>3</u>		<u>7.21</u>	<u>71.0</u>	<u>531</u>			

Total Discharge: _____ Comments: _____
 Casing Volumes Removed: _____
 Method of Disposal: _____

IMPACT ENVIRONMENTAL	GROUNDWATER SAMPLING DATA SHEET		
	1409 12th Street, Oakland, California		
	Project No.	Date	Well
	1409_QGWM	JULY 27, 2008	

GROUNDWATER SAMPLING DATA SHEET

Project Name: 1409 12th Street, OAKLAND, CA Date: July 27, 2008
 Project Number: 1409_QGWM Sampler: _____
 Well Number: NW-5 Weather: _____
 Well Location: 1409 12th Street, OAKLAND, CA

Well Construction

Date Completed: 13
 Total Depth of Well: 13.89
 Diameter: 2"
 Well Elevation and Reference: _____

Sampling Equipment & Cleaning

Sampler Type: Suction Pump
 Method of Cleaning: Alconox and D.I. Water
 Pump/Bailer Type: Suction Pump
 Method of Cleaning: Alconox and D.I. Water
 pH Meter: HANNA
 Conductivity Meter: HANNA

Ground Water Levels:

Initial: 10.48 Comments: 2" Well = 0.163 gallons per foot
 Final: _____ 4" Well = 0.653 gallons per foot
 Reference Point: Black Mark on Top of Casing
 Well Volume of Water: _____

PURGE MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°F) °C	Spec. Conductance (mmhos/cm) <u>15</u>		Color/ Turbidity (NTU)	Odor
	Per Time Period	Cumulative			Field	Dissolved Oxygen		
	start		7.14	22.0	924			NO
	3		6.75	22.0	1145			NO

Total Discharge: _____ Comments: _____
 Casing Volumes Removed: _____
 Method of Disposal: _____

IMPACT ENVIRONMENTAL	GROUNDWATER SAMPLING DATA SHEET		
	1409 12th Street, Oakland, California		
	Project No.	Date	Well
	1409_QGWM	JULY 27, 2008	

GROUNDWATER SAMPLING DATA SHEET

Project Name: 1409 12th Street, OAKLAND, CA Date: July 27, 2008
 Project Number: 1409_QGWM Sampler: _____
 Well Number: MW-0 Weather: _____
 Well Location: 1409 12th Street, OAKLAND, CA

Well Construction

Sampling Equipment & Cleaning

Date Completed: _____ Sampler Type: Suction Pump
 Total Depth of Well: 19.00 Method of Cleaning: Alconox and D.I. Water
 Diameter: 2" Pump/Bailer Type: Suction Pump
 Well Elevation and Reference: _____ Method of Cleaning: Alconox and D.I. Water
 pH Meter: HANNA
 Conductivity Meter: HANNA

Ground Water Levels:

Comments: _____
 2" Well = 0.163 gallons per foot
 4" Well = 0.653 gallons per foot

Initial: 10.25
 Final: _____
 Reference Point: Black Mark on Top of Casing
 Well Volume of Water: _____

PURGE MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°F) °C	Spec. Conductance (mmhos/cm) <u>MS</u>		Color/ Turbidity (NTU)	Odor
	Per Time Period	Cumulative			Field	Dissolved Oxygen		
	start		<u>7.18</u>	<u>22.1</u>	<u>681</u>			
	<u>3</u>		<u>7.19</u>	<u>21.4</u>	<u>090</u>			

Total Discharge: _____ Comments: _____
 Casing Volumes Removed: _____
 Method of Disposal: _____

IMPACT ENVIRONMENTAL	GROUNDWATER SAMPLING DATA SHEET		
	1409 12th Street, Oakland, California		
	Project No.	Date	Well
	1409_QGWM	JULY 27, 2008	

GROUNDWATER SAMPLING DATA SHEET

Project Name: 1409 12th Street, OAKLAND, CA Date: July 27, 2008
 Project Number: 1409_QGWM Sampler: _____
 Well Number: MW-7 Weather: _____
 Well Location: 1409 12th Street, OAKLAND, CA

Well Construction

Date Completed: _____
 Total Depth of Well: 13.95
 Diameter: 2"
 Well Elevation and Reference: _____

Sampling Equipment & Cleaning

Sampler Type: Suction Pump
 Method of Cleaning: Alconox and D.I. Water
 Pump/Bailer Type: Suction Pump
 Method of Cleaning: Alconox and D.I. Water
 pH Meter: HANNA
 Conductivity Meter: HANNA

Ground Water Levels:

Initial: 10.41 Comments: _____
 Final: _____
 Reference Point: Black Mark on Top of Casing
 Well Volume of Water: _____

PURGE MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°F) °C	Spec. Conductance (mmhos/cm) <u>NS</u>		Color/ Turbidity (NTU)	Odor
	Per Time Period	Cumulative			Field	Dissolved Oxygen		
	start		<u>7.32</u>	<u>22.5</u>	<u>600</u>			<u>NO</u>
	<u>3</u>		<u>7.27</u>	<u>21.8</u>	<u>593</u>			<u>NO</u>

Total Discharge: _____ Comments: _____
 Casing Volumes Removed: _____
 Method of Disposal: _____

IMPACT ENVIRONMENTAL	GROUNDWATER SAMPLING DATA SHEET		
	1409 12th Street, Oakland, California		
	Project No.	Date	Well
	1409_QGWM	JULY 27, 2008	

GROUNDWATER SAMPLING DATA SHEET

Project Name: 1409 12th Street, OAKLAND, CA Date: July 27, 2008
 Project Number: 1409_QGWM Sampler: _____
 Well Number: MW-8 Weather: _____
 Well Location: 1409 12th Street, OAKLAND, CA

Well Construction

Date Completed: _____
 Total Depth of Well: 27.45
 Diameter: 2"
 Well Elevation and Reference: _____

Sampling Equipment & Cleaning

Sampler Type: Suction Pump
 Method of Cleaning: Alconox and D.I. Water
 Pump/Bailer Type: Suction Pump
 Method of Cleaning: Alconox and D.I. Water
 pH Meter: HANNA
 Conductivity Meter: HANNA

Ground Water Levels:

Initial: 11.29 Comments: _____
 Final: _____
 Reference Point: Black Mark on Top of Casing
 Well Volume of Water: _____

PURGE MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°F)	Spec. Conductance (mmhos/cm) <u>NO</u>		Color/ Turbidity (NTU)	Odor
	Per Time Period	Cumulative			Field	Dissolved Oxygen		
	start		7.51	20.7	578			yes
	4		7.39	21.0	473			yes
	8		7.03	21.7	407			yes
	12		6.99	21.5	598			yes

Total Discharge: _____ Comments: _____
 Casing Volumes Removed: _____
 Method of Disposal: _____

IMPACT ENVIRONMENTAL	GROUNDWATER SAMPLING DATA SHEET		
	1409 12th Street, Oakland, California		
	Project No.	Date	Well
	1409_QGWM	JULY 27, 2008	

GROUNDWATER SAMPLING DATA SHEET

Project Name: 1409 12th Street, OAKLAND, CA Date: July 27, 2008
 Project Number: 1409_QGWM Sampler: _____
 Well Number: GW-1 Weather: _____
 Well Location: 1409 12th Street, OAKLAND, CA

Well Construction

Sampling Equipment & Cleaning

Date Completed: _____ Sampler Type: Suction Pump
 Total Depth of Well: 17.11 Method of Cleaning: Alconox and D.I. Water
 Diameter: 4" Pump/Bailer Type: Suction Pump
 Well Elevation and Reference: _____ Method of Cleaning: Alconox and D.I. Water
 pH Meter: HANNA

Conductivity Meter: HANNA

Ground Water Levels:

Comments: _____

Initial: 10.81 2" Well = 0.163 gallons per foot

Final: _____ 4" Well = 0.653 gallons per foot

Reference Point: Black Mark on Top of Casing

Well Volume of Water: _____

PURGE MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°F) °C	Spec. Conductance (mmhos/cm) <u>PS</u>		Color/ Turbidity (NTU)	Odor
	Per Time Period	Cumulative			Field	Dissolved Oxygen		
	start		6.66	26.8	1525			yes
	7		6.62	21.7	1441			yes
	14		6.61	22.1	1400			yes
	21		6.03	21.9	1420			yes

Total Discharge: _____ Comments: _____

Casing Volumes Removed: _____

Method of Disposal: _____

IMPACT ENVIRONMENTAL	GROUNDWATER SAMPLING DATA SHEET		
	1409 12th Street, Oakland, California		
	Project No.	Date	Well
	1409_QGWM	JULY 27, 2008	

GROUNDWATER SAMPLING DATA SHEET

Project Name: 1409 12th Street, OAKLAND, CA Date: July 27, 2008
 Project Number: 1409_QGWM Sampler: _____
 Well Number: GW-2 Weather: _____
 Well Location: 1409 12th Street, OAKLAND, CA

Well Construction

Date Completed: _____
 Total Depth of Well: 17.11
 Diameter: 4"
 Well Elevation and Reference: _____

Sampling Equipment & Cleaning

Sampler Type: Suction Pump
 Method of Cleaning: Alconox and D.I. Water
 Pump/Bailer Type: Suction Pump
 Method of Cleaning: Alconox and D.I. Water
 pH Meter: HANNA
 Conductivity Meter: HANNA

Ground Water Levels:

Initial: 11.16 Comments: 2" Well = 0.163 gallons per foot
4" Well = 0.653 gallons per foot
 Final: _____
 Reference Point: Black Mark on Top of Casing
 Well Volume of Water: _____

PURGE MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°F)	Spec. Conductance (mmhos/cm) <u>MS</u>		Color/ Turbidity (NTU)	Odor
	Per Time Period	Cumulative			Field	Dissolved Oxygen		
	start		<u>6.91</u>	<u>20.3</u>	<u>1368</u>			<u>yes</u>
	<u>7</u>		<u>6.77</u>	<u>21.2</u>	<u>1253</u>			<u>yes</u>
	<u>14</u>		<u>6.73</u>	<u>21.3</u>	<u>1185</u>			<u>yes</u>
	<u>21</u>		<u>6.67</u>	<u>21.5</u>	<u>1181</u>			<u>yes</u>
	<u>25</u>		<u>6.69</u>	<u>21.1</u>	<u>1102</u>			<u>NO</u>

Total Discharge: _____ Comments: _____
 Casing Volumes Removed: _____
 Method of Disposal: _____

GROUNDWATER SAMPLING DATA SHEET			
1409 12th Street, Oakland, California			
Project No.	Date	Well	
1409_QGWM	JULY 27, 2008		

IMPACT ENVIRONMENTAL

GROUNDWATER SAMPLING DATA SHEET

Project Name: 1409 12th Street, OAKLAND, CA Date: July 27, 2008
 Project Number: 1409 QGWM Sampler: _____
 Well Number: GW-3 Weather: _____
 Well Location: 1409 12th Street, OAKLAND, CA

Well Construction

Date Completed: _____
 Total Depth of Well: 18.08
 Diameter: 4"
 Well Elevation and Reference: _____

Sampling Equipment & Cleaning

Sampler Type: Suction Pump
 Method of Cleaning: Alconox and D.I. Water
 Pump/Bailer Type: Suction Pump
 Method of Cleaning: Alconox and D.I. Water
 pH Meter: HANNA
 Conductivity Meter: HANNA

Ground Water Levels:

Initial: 11.7
 Final: _____
 Reference Point: Black Mark on Top of Casing
 Well Volume of Water: _____

Comments: _____
 2" Well = 0.163 gallons per foot
 4" Well = 0.653 gallons per foot

PURGE MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°F) °C	Spec. Conductance (mmhos/cm) ^{MS}		Color/ Turbidity (NTU)	Odor
	Per Time Period	Cumulative			Field	Dissolved Oxygen		
	start		6.82	21.2	1169			yes
	3		6.93	21.2	1044			yes
	14		6.93	21.4	939			yes
	21		6.90	22.7	854			yes

Total Discharge: _____ Comments: _____
 Casing Volumes Removed: _____
 Method of Disposal: _____

IMPACT ENVIRONMENTAL	GROUNDWATER SAMPLING DATA SHEET		
	1409 12th Street, Oakland, California		
	Project No.	Date	Well
	1409 QGWM	JULY 27, 2008	

WELL GAUGING DATA

Project Number THOMPSON PROPERTY Date OCTOBER 25, 2008

Site Location 1409- 1417 12th Street, Oakland, California

Well ID	Time	Well Size (inches)	Depth to Water	Depth to Well Bottom	Sheen/Odor	Depth to Immiscible Liquid	Thickness Immiscible Liquid	Survey Point	Notes:
MW-1	8:20	2	12.68'			N/A	N/A	BLACK CASING MARK ON	
MW-2	8:25	2	11.90'			N/A			
MW-3	8:27	2	12.36'			N/A			
MW-4	8:34	2	11.55'			N/A			
MW-5	8:40	2	11.37'			N/A			
MW-6	8:44	2	10.92			N/A			
MW-7	8:52	2	11.11'			N/A			
MW-8	9:05	2	12.00'		Yes	N/A			
GW-1	9:10	4	11.51'		Yes	N/A			Measure Last*
GW-2	8:55	4	11.82'			N/A			
GW-3	9:03	4	11.92			N/A			Measure Last*

GROUNDWATER SAMPLING DATA SHEET

Project Name: 1409 12th Street, OAKLAND, CA Date: October 25, 2008
 Project Number: 1409 QGWM Sampler: _____
 Well Number: 1 Weather: _____
 Well Location: 1409 12th Street, OAKLAND, CA

Well ConstructionSampling Equipment & Cleaning

Date Completed: _____ Sampler Type: Suction Pump
 Total Depth of Well: _____ Method of Cleaning: Alconox and D.I. Water
 Diameter: _____ Pump/Bailer Type: Suction Pump
 Well Elevation and Reference: _____ Method of Cleaning: Alconox and D.I. Water
 pH Meter: HANNA
 Conductivity Meter: HANNA

Ground Water Levels:

Comments: _____

2" Well = 0.163 gallons per foot

4" Well = 0.653 gallons per foot

Initial: _____
 Final: _____

Reference Point: Black Mark on Top of Casing

Well Volume of Water: _____

PURGE MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°F) °C	Spec. Conductance (mmhos/cm)		Color/ Turbidity (NTU)	Odor
	Per Time Period	Cumulative			Field	Dissolved Oxygen		
	start	0	6.66	20.4	1139			
		0.5	6.80	20.5	1038			
		1.0 ^d	6.76	20.8	1047			
		1.5	6.82	22.6	1048			
		2.0	6.73	26.4	1004			

Total Discharge: _____ Comments: _____

Casing Volumes Removed: _____

Method of Disposal: _____

IMPACT ENVIRONMENTAL

GROUNDWATER SAMPLING DATA SHEET

1409 12th Street, Oakland, California

Project No.

Date

Well

1409_QGWM

OCTOBER 2008

MW-1

GROUNDWATER SAMPLING DATA SHEET

Project Name: 1409 12th Street, OAKLAND, CA Date: October 25, 2008
 Project Number: 1409 QGWM Sampler: _____
 Well Number: MW-2 Weather: _____
 Well Location: 1409 12th Street, OAKLAND, CA

Well Construction

Sampling Equipment & Cleaning

Date Completed: _____ Sampler Type: Suction Pump
 Total Depth of Well: _____ Method of Cleaning: Alconox and D.I. Water
 Diameter: _____ Pump/Bailer Type: Suction Pump
 Well Elevation and Reference: _____ Method of Cleaning: Alconox and D.I. Water
 pH Meter: HANNA
 Conductivity Meter: HANNA
 Comments: _____

Ground Water Levels:

Initial: _____ 2" Well = 0.163 gallons per foot
 Final: _____ 4" Well = 0.653 gallons per foot
 Reference Point: Black Mark on Top of Casing
 Well Volume of Water: _____

PURGE MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°F)	Spec. Conductance (mmhos/cm)		Color/ Turbidity (NTU)	Odor
	Per Time Period	Cumulative			Field	Dissolved Oxygen		
	start	0	6.74	21.1	509			
		0.5	6.92	21.8	634			
		1.0 ^d	6.71	22.1	614			
		1.5	6.74	21.7	613			
		2.0	6.78	22.5	587			

Total Discharge: _____ Comments: _____
 Casing Volumes Removed: _____
 Method of Disposal: _____

IMPACT ENVIRONMENTAL

GROUNDWATER SAMPLING DATA SHEET

1409 12th Street, Oakland, California

Project No.	Date	Well
1409 QGWM	OCTOBER 2008	MW 2

GROUNDWATER SAMPLING DATA SHEET

Project Name: 1409 12th Street, OAKLAND, CA Date: October 25, 2008
 Project Number: 1409_QGWM Sampler: _____
 Well Number: MW-3 Weather: _____
 Well Location: 1409 12th Street, OAKLAND, CA

Well Construction

Date Completed: _____
 Total Depth of Well: _____
 Diameter: _____
 Well Elevation and Reference: _____

Sampling Equipment & Cleaning

Sampler Type: Suction Pump
 Method of Cleaning: Alconox and D.I. Water
 Pump/Bailer Type: Suction Pump
 Method of Cleaning: Alconox and D.I. Water
 pH Meter: HANNA
 Conductivity Meter: HANNA

Ground Water Levels:

Initial: _____
 Final: _____
 Reference Point: Black Mark on Top of Casing
 Well Volume of Water: _____

Comments: _____
 2" Well = 0.163 gallons per foot
 4" Well = 0.653 gallons per foot

PURGE MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°F) °C	Spec. Conductance (mmhos/cm)		Color/ Turbidity (NTU)	Odor
	Per Time Period	Cumulative			Field	Dissolved Oxygen		
11:43	start	0	7.04	21.6	795			
11:52		0.5	7.07	22.1	854			
12:43		1.0 ^d	6.99	23.2	864			
2:20		1.5	7.04	24.2	844			
3:33		2.0	7.00	22.8	809			

Total Discharge: _____ Comments: _____
 Casing Volumes Removed: _____
 Method of Disposal: _____

IMPACT ENVIRONMENTAL

GROUNDWATER SAMPLING DATA SHEET

1409 12th Street, Oakland, California

Project No.

Date

Well

1409_QGWM

OCTOBER 2008

MW-3

GROUNDWATER SAMPLING DATA SHEET

Project Name: 1409 12th Street, OAKLAND, CA Date: October 25, 2008
 Project Number: 1409 QGWM Sampler: _____
 Well Number: MW 5 Weather: _____
 Well Location: 1409 12th Street, OAKLAND, CA

Well ConstructionSampling Equipment & Cleaning

Date Completed: _____ Sampler Type: Suction Pump
 Total Depth of Well: _____ Method of Cleaning: Alconox and D.I. Water
 Diameter: _____ Pump/Bailer Type: Suction Pump
 Well Elevation and Reference: _____ Method of Cleaning: Alconox and D.I. Water
 pH Meter: HANNA
 Conductivity Meter: HANNA
 Comments: _____

Ground Water Levels:

Initial: _____ 2" Well = 0.163 gallons per foot
 Final: _____ 4" Well = 0.653 gallons per foot
 Reference Point: Black Mark on Top of Casing
 Well Volume of Water: _____

PURGE MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°F) °C	Spec. Conductance (mmhos/cm)		Color/ Turbidity (NTU)	Odor
	Per Time Period	Cumulative			Field	Dissolved Oxygen		
	start	0	6.88	21.5	1025			
		0.5	6.83	21.4	1050			
		1.0 d	6.76	21.8	1160			
		1.5	6.69	22.1	1156			
		2.0	6.65	23.1	1107			

Total Discharge: _____ Comments: _____
 Casing Volumes Removed: _____
 Method of Disposal: _____

IMPACT ENVIRONMENTAL	GROUNDWATER SAMPLING DATA SHEET		
	1409 12th Street, Oakland, California		
	Project No.	Date	Well
	1409 QGWM	OCTOBER 2008	MW 5

GROUNDWATER SAMPLING DATA SHEET

Project Name: 1409 12th Street, OAKLAND, CA Date: October 25, 2008
 Project Number: 1409 QGWM Sampler: _____
 Well Number: MW-4 Weather: _____
 Well Location: 1409 12th Street, OAKLAND, CA

Well Construction

Date Completed: _____
 Total Depth of Well: _____
 Diameter: _____
 Well Elevation and Reference: _____

Sampling Equipment & Cleaning

Sampler Type: Suction Pump
 Method of Cleaning: Alconox and D.I. Water
 Pump/Bailer Type: Suction Pump
 Method of Cleaning: Alconox and D.I. Water
 pH Meter: HANNA
 Conductivity Meter: HANNA

Ground Water Levels:

Initial: _____
 Final: _____
 Reference Point: Black Mark on Top of Casing
 Well Volume of Water: _____

Comments: _____
 2" Well = 0.163 gallons per foot
 4" Well = 0.653 gallons per foot

PURGE MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°F) °C	Spec. Conductance (mmhos/cm)		Color/ Turbidity (NTU)	Odor
	Per Time Period	Cumulative			Field	Dissolved Oxygen		
12:17	start	0	6.82	23.1	608			
12:29		0.5	7.00	23.2	653			
12:36		1.0 ^d	7.02	23.4	652			
12:59		1.5	6.93	23.7	653			
1:09		2.0	6.91	24.1	648			

Total Discharge: _____ Comments: _____
 Casing Volumes Removed: _____
 Method of Disposal: _____

IMPACT ENVIRONMENTAL

GROUNDWATER SAMPLING DATA SHEET

1409 12th Street, Oakland, California

Project No.

Date

Well

1409 QGWM

OCTOBER 2008

MW-4

GROUNDWATER SAMPLING DATA SHEET

Project Name: 1409 12th Street, OAKLAND, CA Date: October 25, 2008
 Project Number: 1409 QGWM Sampler: _____
 Well Number: MW 6 Weather: _____
 Well Location: 1409 12th Street, OAKLAND, CA

Well Construction

Sampling Equipment & Cleaning

Date Completed: _____ Sampler Type: Suction Pump
 Total Depth of Well: _____ Method of Cleaning: Alconox and D.I. Water
 Diameter: _____ Pump/Bailer Type: Suction Pump
 Well Elevation and Reference: _____ Method of Cleaning: Alconox and D.I. Water
 pH Meter: HANNA
 Conductivity Meter: HANNA
 Comments: _____
 2" Well = 0.163 gallons per foot
 4" Well = 0.653 gallons per foot

Ground Water Levels:

Initial: _____
 Final: _____
 Reference Point: Black Mark on Top of Casing
 Well Volume of Water: _____

PURGE MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°F)	Spec. Conductance (mmhos/cm)		Color/ Turbidity (NTU)	Odor
	Per Time Period	Cumulative			Field	Dissolved Oxygen		
	start	0	7.10	24.2	743			
		0.5	6.99	24.2	727			
		1.0 ^d	7.00	23.5	738			
		1.5	6.98	24.7	733			
		2.0	6.97	24.6	738			

Total Discharge: _____ Comments: _____
 Casing Volumes Removed: _____
 Method of Disposal: _____

IMPACT ENVIRONMENTAL

GROUNDWATER SAMPLING DATA SHEET

1409 12th Street, Oakland, California

Project No.

Date

Well

1409 QGWM

OCTOBER 2008

MW 6

GROUNDWATER SAMPLING DATA SHEET

Project Name: 1409 12th Street, OAKLAND, CA Date: October 25, 2008
 Project Number: 1409 QGWM Sampler: _____
 Well Number: MW 7 Weather: _____
 Well Location: 1409 12th Street, OAKLAND, CA

Well Construction

Sampling Equipment & Cleaning

Date Completed: _____ Sampler Type: Suction Pump
 Total Depth of Well: _____ Method of Cleaning: Alconox and D.I. Water
 Diameter: _____ Pump/Bailer Type: Suction Pump
 Well Elevation and Reference: _____ Method of Cleaning: Alconox and D.I. Water
 pH Meter: HANNA
 Conductivity Meter: HANNA
 Comments: _____
 2" Well = 0.163 gallons per foot
 4" Well = 0.653 gallons per foot

Ground Water Levels:

Initial: _____
 Final: _____
 Reference Point: Black Mark on Top of Casing
 Well Volume of Water: _____

PURGE MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°F)	Spec. Conductance (mmhos/cm)		Color/ Turbidity (NTU)	Odor
	Per Time Period	Cumulative			Field	Dissolved Oxygen		
	start	0	6.92	23.9	5.85			
		0.5	6.91	24.8	5.81			
		1.0 d	6.93	25.4	5.41			
		1.5	6.65	25.1	5.55			
		2.0	6.93	26.3	5.37			

Total Discharge: _____ Comments: _____
 Casing Volumes Removed: _____
 Method of Disposal: _____

IMPACT ENVIRONMENTAL

GROUNDWATER SAMPLING DATA SHEET

1409 12th Street, Oakland, California

Project No.

Date

Well

1409 QGWM

OCTOBER 2008

MW 7

GROUNDWATER SAMPLING DATA SHEET

Project Name: 1409 12th Street, OAKLAND, CA Date: October 25, 2008
 Project Number: 1409 QGWM Sampler: _____
 Well Number: MW-8 Weather: _____
 Well Location: 1409 12th Street, OAKLAND, CA

Well ConstructionSampling Equipment & Cleaning

Date Completed: _____ Sampler Type: Suction Pump
 Total Depth of Well: _____ Method of Cleaning: Alconox and D.I. Water
 Diameter: _____ Pump/Bailer Type: Suction Pump
 Well Elevation and Reference: _____ Method of Cleaning: Alconox and D.I. Water
 pH Meter: HANNA
 Conductivity Meter: HANNA

Ground Water Levels:

Comments: _____

2" Well = 0.163 gallons per foot

4" Well = 0.653 gallons per foot

Initial: _____

Final: _____

Reference Point: Black Mark on Top of Casing

Well Volume of Water: _____

PURGE MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°F)	Spec. Conductance (mmhos/cm)		Color/ Turbidity (NTU)	Odor
	Per Time Period	Cumulative			Field	Dissolved Oxygen		
	start	0	7.13	25.3	574			
		3	7.18	23.1	550			
		6 d	6.92	23.5	576			
		9	6.84	23.7	585			

Total Discharge: _____ Comments: _____

Casing Volumes Removed: _____

Method of Disposal: _____

IMPACT ENVIRONMENTAL

GROUNDWATER SAMPLING DATA SHEET

1409 12th Street, Oakland, California

Project No.

Date

Well

1409_QGWM

OCTOBER 2008

Mw-8

GROUNDWATER SAMPLING DATA SHEET

Project Name: 1409 12th Street, OAKLAND, CA Date: October 25, 2008
 Project Number: 1409 QGWM Sampler: _____
 Well Number: GW 2 Weather: _____
 Well Location: 1409 12th Street, OAKLAND, CA

Well Construction

Sampling Equipment & Cleaning

Date Completed: _____ Sampler Type: Suction Pump
 Total Depth of Well: _____ Method of Cleaning: Alconox and D.I. Water
 Diameter: _____ Pump/Bailer Type: Suction Pump
 Well Elevation and Reference: _____ Method of Cleaning: Alconox and D.I. Water
 pH Meter: HANNA
 Conductivity Meter: HANNA
 Comments: _____
 2" Well = 0.163 gallons per foot
 4" Well = 0.653 gallons per foot

Ground Water Levels:

Initial: _____
 Final: _____
 Reference Point: Black Mark on Top of Casing
 Well Volume of Water: _____

PURGE MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°F)	Spec. Conductance (mmhos/cm)		Color/ Turbidity (NTU)	Odor
	Per Time Period	Cumulative			Field	Dissolved Oxygen		
	start	0	6.35	25.2	1002			
		3	6.39	24.3	1040			
		6 d	6.42	23.6	1008			
		9	6.41	24.9	1035			

Total Discharge: _____ Comments: _____
 Casing Volumes Removed: _____
 Method of Disposal: _____

IMPACT ENVIRONMENTAL

GROUNDWATER SAMPLING DATA SHEET

1409 12th Street, Oakland, California

Project No.	Date	Well
1409 QGWM	OCTOBER 2008	<u>GW 2</u>

GW 2

GROUNDWATER SAMPLING DATA SHEET

Project Name: 1409 12th Street, OAKLAND, CA Date: October 25, 2008
 Project Number: 1409 QGWM Sampler: _____
 Well Number: GW-1 Weather: _____
 Well Location: 1409 12th Street, OAKLAND, CA

Well Construction

Sampling Equipment & Cleaning

Date Completed: _____ Sampler Type: Suction Pump
 Total Depth of Well: _____ Method of Cleaning: Alconox and D.I. Water
 Diameter: _____ Pump/Bailer Type: Suction Pump
 Well Elevation and Reference: _____ Method of Cleaning: Alconox and D.I. Water
 pH Meter: HANNA
 Conductivity Meter: HANNA
 Comments: _____
 2" Well = 0.163 gallons per foot
 4" Well = 0.653 gallons per foot

Ground Water Levels:

Initial: _____
 Final: _____
 Reference Point: Black Mark on Top of Casing
 Well Volume of Water: _____

PURGE MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°F)	Spec. Conductance (mmhos/cm)		Color/ Turbidity (NTU)	Odor
	Per Time Period	Cumulative			Field	Dissolved Oxygen		
	start	0	6.45	24.2	1074			
		3	6.51	24.0	1062			yes
		6 d	6.48	23.6	1094			yes
		9	6.61	22.8	1110			yes

Total Discharge: _____ Comments: _____
 Casing Volumes Removed: _____
 Method of Disposal: _____

IMPACT ENVIRONMENTAL

GROUNDWATER SAMPLING DATA SHEET

1409 12th Street, Oakland, California

Project No.

Date

Well

1409 QGWM

OCTOBER 2008

GROUNDWATER SAMPLING DATA SHEET

Project Name: 1409 12th Street, OAKLAND, CA Date: October 25, 2008
 Project Number: 1409 QGWM Sampler: _____
 Well Number: GW-3 Weather: _____
 Well Location: 1409 12th Street, OAKLAND, CA

Well ConstructionSampling Equipment & Cleaning

Date Completed: _____ Sampler Type: Suction Pump
 Total Depth of Well: _____ Method of Cleaning: Alconox and D.I. Water
 Diameter: _____ Pump/Bailer Type: Suction Pump
 Well Elevation and Reference: _____ Method of Cleaning: Alconox and D.I. Water
 pH Meter: HANNA
 Conductivity Meter: HANNA
 Comments: _____

Ground Water Levels:

Initial: _____ 2" Well = 0.163 gallons per foot
 Final: _____ 4" Well = 0.653 gallons per foot
 Reference Point: Black Mark on Top of Casing
 Well Volume of Water: _____

PURGE MEASUREMENTS

Time	Discharge (gal.)		pH	Temp (°F)	Spec. Conductance (mmhos/cm)		Color/ Turbidity (NTU)	Odor
	Per Time Period	Cumulative			Field	Dissolved Oxygen		
<u>2:38</u>	start	<u>0</u>	<u>6.83</u>	<u>24.5</u>	<u>741</u>			
<u>2:46</u>		<u>3</u>	<u>6.75</u>	<u>23.6</u>	<u>753</u>			
<u>2:56</u>		<u>6^d</u>	<u>6.74</u>	<u>24.5</u>	<u>751</u>			
<u>3:10</u>		<u>9</u>	<u>6.72</u>	<u>24.4</u>	<u>723</u>			

Total Discharge: _____ Comments: _____
 Casing Volumes Removed: _____
 Method of Disposal: _____

IMPACT ENVIRONMENTAL

GROUNDWATER SAMPLING DATA SHEET

1409 12th Street, Oakland, California

Project No.	Date	Well
1409 QGWM	OCTOBER 2008	GW-3

APPENDIX B

Certified Laboratory Analytical Reports **Third and Fourth Quarters 2008**



August 04, 2008

Mr. Joseph Cotton
Impact Environmental Services
39120 Arogonat Way, Suite 223
Fremont, CA 94538

TEL: 510-703-5420

FAX: 510-713-7790

RE: 1409 12th St, Oakland

Order No.: 0807186

Dear Mr. Joseph Cotton:

Torrent Laboratory, Inc. received 11 samples on 7/28/2008 for the analyses presented in the following report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

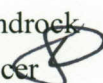
Reported data is applicable for only the samples received as part of the order number referenced above.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these tests results, please feel free to contact the Project Management Team at (408)263-5258;ext: 204.

Sincerely,


Laboratory Director


Date

Patti Sandrock
QA Officer 



Torrent Laboratory, Inc.**Date:** 04-Aug-08

CLIENT: Impact Environmental Services
Project: 1409 12th St, Oakland
Lab Order: 0807186

CASE NARRATIVE

Analytical Comment for Method TPHD/Mo, Note: The % recovery for the LCSD is outside of laboratory control limits (high bias) but within % RPD limits and method recovery limits. All associated samples were Non Detect for TPH as Diesel. No corrective action is required.



TORRENT LABORATORY, INC.

483 Sinclair Frontage Road • Milpitas, CA • Phone: (408) 263-5258 • Fax: (408) 263-8293

Visit us at www.torrentlab.com email: analysis@torrentlab.com

Report prepared for: Mr. Joseph Cotton
Impact Environmental Services

Date Received: 7/28/2008

Date Reported: 8/4/2008

Client Sample ID: MW-1
Sample Location: 1409 12th St, Oakland
Sample Matrix: GROUNDWATER
Date/Time Sampled 7/27/2008 8:50:00 AM

Lab Sample ID: 0807186-001
Date Prepared: 7/29/2008-7/30/2008

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	7/30/2008	0.1	1	0.100	ND	mg/L	R16990
TPH (Motor Oil-SG)	SW8015B	7/30/2008	0.2	1	0.200	ND	mg/L	R16990
Surr: Pentacosane	SW8015B	7/30/2008	0	1	40-120	111	%REC	R16990
Benzene	SW8260B	7/30/2008	0.5	1.29	0.645	ND	µg/L	A16989
Diisopropyl ether (DIPE)	SW8260B	7/30/2008	0.5	1.29	0.645	ND	µg/L	A16989
Ethyl tert-butyl ether (ETBE)	SW8260B	7/30/2008	0.5	1.29	0.645	ND	µg/L	A16989
Ethylbenzene	SW8260B	7/30/2008	0.5	1.29	0.645	ND	µg/L	A16989
Methyl tert-butyl ether (MTBE)	SW8260B	7/30/2008	0.5	1.29	0.645	ND	µg/L	A16989
t-Butyl alcohol (t-Butanol)	SW8260B	7/30/2008	10	1.29	12.9	ND	µg/L	A16989
tert-Amyl methyl ether (TAME)	SW8260B	7/30/2008	0.5	1.29	0.645	ND	µg/L	A16989
Toluene	SW8260B	7/30/2008	0.5	1.29	0.645	ND	µg/L	A16989
Xylenes, Total	SW8260B	7/30/2008	1.5	1.29	1.94	ND	µg/L	A16989
Surr: Dibromofluoromethane	SW8260B	7/30/2008	0	1.29	61.2-131	93.0	%REC	A16989
Surr: 4-Bromofluorobenzene	SW8260B	7/30/2008	0	1.29	64.1-120	98.3	%REC	A16989
Surr: Toluene-d8	SW8260B	7/30/2008	0	1.29	75.1-127	98.4	%REC	A16989

Note: Sample was diluted prior to analysis due to sediment in all voas.

TPH (Gasoline)	SW8260B(TPH)	7/30/2008	50	1.29	64	ND	µg/L	T16989
Surr: 4-Bromofluorobenzene	SW8260B(TPH)	7/30/2008	0	1.29	58.4-133	87.7	%REC	T16989

Note: See comment for 8260B analysis

Client Sample ID:	MW-2	Lab Sample ID:	0807186-002
Sample Location:	1409 12th St,Oakland	Date Prepared:	7/29/2008-7/30/2008
Sample Matrix:	GROUNDWATER		
Date/Time Sampled	7/27/2008 9:20:00 AM		

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	7/30/2008	0.1	1	0.100	ND	mg/L	R16990
TPH (Motor Oil-SG)	SW8015B	7/30/2008	0.2	1	0.200	ND	mg/L	R16990
Surr: Pentacosane	SW8015B	7/30/2008	0	1	40-120	107	%REC	R16990
Benzene	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Diisopropyl ether (DIPE)	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Ethyl tert-butyl ether (ETBE)	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Ethylbenzene	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Methyl tert-butyl ether (MTBE)	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
t-Butyl alcohol (t-Butanol)	SW8260B	7/30/2008	10	1	10.0	ND	µg/L	A16989
tert-Amyl methyl ether (TAME)	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Toluene	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Xylenes, Total	SW8260B	7/30/2008	1.5	1	1.50	ND	µg/L	A16989
Surr: Dibromofluoromethane	SW8260B	7/30/2008	0	1	61.2-131	102	%REC	A16989
Surr: 4-Bromofluorobenzene	SW8260B	7/30/2008	0	1	64.1-120	97.8	%REC	A16989
Surr: Toluene-d8	SW8260B	7/30/2008	0	1	75.1-127	108	%REC	A16989
TPH (Gasoline)	SW8260B(TPH)	7/30/2008	50	1	50	ND	µg/L	T16989
Surr: 4-Bromofluorobenzene	SW8260B(TPH)	7/30/2008	0	1	58.4-133	79.7	%REC	T16989

Client Sample ID:	MW-3	Lab Sample ID:	0807186-003
Sample Location:	1409 12th St,Oakland	Date Prepared:	7/29/2008-7/30/2008
Sample Matrix:	GROUNDWATER		
Date/Time Sampled	7/27/2008 10:02:00 AM		

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	7/30/2008	0.1	1	0.100	ND	mg/L	R16990
TPH (Motor Oil-SG)	SW8015B	7/30/2008	0.2	1	0.200	ND	mg/L	R16990
Surr: Pentacosane	SW8015B	7/30/2008	0	1	40-120	104	%REC	R16990
Benzene	SW8260B	7/30/2008	0.5	1.16	0.580	ND	µg/L	A16989
Diisopropyl ether (DIPE)	SW8260B	7/30/2008	0.5	1.16	0.580	ND	µg/L	A16989
Ethyl tert-butyl ether (ETBE)	SW8260B	7/30/2008	0.5	1.16	0.580	ND	µg/L	A16989
Ethylbenzene	SW8260B	7/30/2008	0.5	1.16	0.580	ND	µg/L	A16989
Methyl tert-butyl ether (MTBE)	SW8260B	7/30/2008	0.5	1.16	0.580	ND	µg/L	A16989
t-Butyl alcohol (t-Butanol)	SW8260B	7/30/2008	10	1.16	11.6	ND	µg/L	A16989
tert-Amyl methyl ether (TAME)	SW8260B	7/30/2008	0.5	1.16	0.580	ND	µg/L	A16989
Toluene	SW8260B	7/30/2008	0.5	1.16	0.580	ND	µg/L	A16989
Xylenes, Total	SW8260B	7/30/2008	1.5	1.16	1.74	ND	µg/L	A16989
Surr: Dibromofluoromethane	SW8260B	7/30/2008	0	1.16	61.2-131	110	%REC	A16989
Surr: 4-Bromofluorobenzene	SW8260B	7/30/2008	0	1.16	64.1-120	106	%REC	A16989
Surr: Toluene-d8	SW8260B	7/30/2008	0	1.16	75.1-127	111	%REC	A16989
Note: Sample was diluted prior to analysis due to sediment in all voas.								
TPH (Gasoline)	SW8260B(TPH)	7/30/2008	50	1.16	58	ND	µg/L	T16989
Surr: 4-Bromofluorobenzene	SW8260B(TPH)	7/30/2008	0	1.16	58.4-133	87.8	%REC	T16989

Note: See comment for 8260B analysis

Client Sample ID:	MW-4	Lab Sample ID:	0807186-004
Sample Location:	1409 12th St,Oakland	Date Prepared:	7/29/2008-7/30/2008
Sample Matrix:	GROUNDWATER		
Date/Time Sampled	7/27/2008 11:15:00 AM		

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	7/30/2008	0.1	1	0.100	ND	mg/L	R16990
TPH (Motor Oil-SG)	SW8015B	7/30/2008	0.2	1	0.200	ND	mg/L	R16990
Surr: Pentacosane	SW8015B	7/30/2008	0	1	40-120	104	%REC	R16990
Benzene	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Diisopropyl ether (DIPE)	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Ethyl tert-butyl ether (ETBE)	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Ethylbenzene	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Methyl tert-butyl ether (MTBE)	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
t-Butyl alcohol (t-Butanol)	SW8260B	7/30/2008	10	1	10.0	ND	µg/L	A16989
tert-Amyl methyl ether (TAME)	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Toluene	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Xylenes, Total	SW8260B	7/30/2008	1.5	1	1.50	ND	µg/L	A16989
Surr: Dibromofluoromethane	SW8260B	7/30/2008	0	1	61.2-131	113	%REC	A16989
Surr: 4-Bromofluorobenzene	SW8260B	7/30/2008	0	1	64.1-120	97.5	%REC	A16989
Surr: Toluene-d8	SW8260B	7/30/2008	0	1	75.1-127	106	%REC	A16989
TPH (Gasoline)	SW8260B(TPH)	7/30/2008	50	1	50	ND	µg/L	T16989
Surr: 4-Bromofluorobenzene	SW8260B(TPH)	7/30/2008	0	1	58.4-133	83.0	%REC	T16989

Client Sample ID:	MW-5	Lab Sample ID:	0807186-005
Sample Location:	1409 12th St,Oakland	Date Prepared:	7/29/2008-7/30/2008
Sample Matrix:	GROUNDWATER		
Date/Time Sampled	7/27/2008 12:10:00 PM		

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	7/30/2008	0.1	1	0.100	ND	mg/L	R16990
TPH (Motor Oil-SG)	SW8015B	7/30/2008	0.2	1	0.200	ND	mg/L	R16990
Surr: Pentacosane	SW8015B	7/30/2008	0	1	40-120	113	%REC	R16990
Benzene	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Diisopropyl ether (DIPE)	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Ethyl tert-butyl ether (ETBE)	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Ethylbenzene	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Methyl tert-butyl ether (MTBE)	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
t-Butyl alcohol (t-Butanol)	SW8260B	7/30/2008	10	1	10.0	ND	µg/L	A16989
tert-Amyl methyl ether (TAME)	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Toluene	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Xylenes, Total	SW8260B	7/30/2008	1.5	1	1.50	ND	µg/L	A16989
Surr: Dibromofluoromethane	SW8260B	7/30/2008	0	1	61.2-131	116	%REC	A16989
Surr: 4-Bromofluorobenzene	SW8260B	7/30/2008	0	1	64.1-120	91.5	%REC	A16989
Surr: Toluene-d8	SW8260B	7/30/2008	0	1	75.1-127	115	%REC	A16989
TPH (Gasoline)	SW8260B(TPH)	7/30/2008	50	1	50	ND	µg/L	T16989
Surr: 4-Bromofluorobenzene	SW8260B(TPH)	7/30/2008	0	1	58.4-133	83.0	%REC	T16989

Client Sample ID:	MW-6	Lab Sample ID:	0807186-006
Sample Location:	1409 12th St,Oakland	Date Prepared:	7/29/2008-7/30/2008
Sample Matrix:	GROUNDWATER		
Date/Time Sampled	7/27/2008 12:50:00 PM		

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	7/31/2008	0.1	1	0.100	ND	mg/L	R16990
TPH (Motor Oil-SG)	SW8015B	7/31/2008	0.2	1	0.200	ND	mg/L	R16990
Surr: Pentacosane	SW8015B	7/31/2008	0	1	40-120	108	%REC	R16990
Benzene	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Diisopropyl ether (DIPE)	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Ethyl tert-butyl ether (ETBE)	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Ethylbenzene	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Methyl tert-butyl ether (MTBE)	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
t-Butyl alcohol (t-Butanol)	SW8260B	7/30/2008	10	1	10.0	ND	µg/L	A16989
tert-Amyl methyl ether (TAME)	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Toluene	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Xylenes, Total	SW8260B	7/30/2008	1.5	1	1.50	ND	µg/L	A16989
Surr: Dibromofluoromethane	SW8260B	7/30/2008	0	1	61.2-131	113	%REC	A16989
Surr: 4-Bromofluorobenzene	SW8260B	7/30/2008	0	1	64.1-120	96.4	%REC	A16989
Surr: Toluene-d8	SW8260B	7/30/2008	0	1	75.1-127	107	%REC	A16989
TPH (Gasoline)	SW8260B(TPH)	7/30/2008	50	1	50	ND	µg/L	T16989
Surr: 4-Bromofluorobenzene	SW8260B(TPH)	7/30/2008	0	1	58.4-133	84.1	%REC	T16989

Client Sample ID:	MW-7	Lab Sample ID:	0807186-007
Sample Location:	1409 12th St,Oakland	Date Prepared:	7/29/2008-7/30/2008
Sample Matrix:	GROUNDWATER		
Date/Time Sampled	7/27/2008 1:15:00 PM		

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	7/31/2008	0.1	1	0.100	ND	mg/L	R16990
TPH (Motor Oil-SG)	SW8015B	7/31/2008	0.2	1	0.200	ND	mg/L	R16990
Surr: Pentacosane	SW8015B	7/31/2008	0	1	40-120	100	%REC	R16990
Benzene	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Diisopropyl ether (DIPE)	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Ethyl tert-butyl ether (ETBE)	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Ethylbenzene	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Methyl tert-butyl ether (MTBE)	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
t-Butyl alcohol (t-Butanol)	SW8260B	7/30/2008	10	1	10.0	ND	µg/L	A16989
tert-Amyl methyl ether (TAME)	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Toluene	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Xylenes, Total	SW8260B	7/30/2008	1.5	1	1.50	ND	µg/L	A16989
Surr: Dibromofluoromethane	SW8260B	7/30/2008	0	1	61.2-131	113	%REC	A16989
Surr: 4-Bromofluorobenzene	SW8260B	7/30/2008	0	1	64.1-120	99.3	%REC	A16989
Surr: Toluene-d8	SW8260B	7/30/2008	0	1	75.1-127	109	%REC	A16989
TPH (Gasoline)	SW8260B(TPH)	7/30/2008	50	1	50	ND	µg/L	T16989
Surr: 4-Bromofluorobenzene	SW8260B(TPH)	7/30/2008	0	1	58.4-133	87.7	%REC	T16989

Client Sample ID:	MW-8	Lab Sample ID:	0807186-008
Sample Location:	1409 12th St,Oakland	Date Prepared:	7/29/2008-7/30/2008
Sample Matrix:	GROUNDWATER		
Date/Time Sampled	7/27/2008 1:20:00 PM		

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	7/31/2008	0.1	1	0.100	ND	mg/L	R16990
TPH (Motor Oil-SG)	SW8015B	7/31/2008	0.2	1	0.200	ND	mg/L	R16990
Surr: Pentacosane	SW8015B	7/31/2008	0	1	40-120	102	%REC	R16990
Benzene	SW8260B	7/30/2008	0.5	1	0.500	5.37	µg/L	A16989
Diisopropyl ether (DIPE)	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Ethyl tert-butyl ether (ETBE)	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Ethylbenzene	SW8260B	7/30/2008	0.5	1	0.500	3.77	µg/L	A16989
Methyl tert-butyl ether (MTBE)	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
t-Butyl alcohol (t-Butanol)	SW8260B	7/30/2008	10	1	10.0	ND	µg/L	A16989
tert-Amyl methyl ether (TAME)	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Toluene	SW8260B	7/30/2008	0.5	1	0.500	1.25	µg/L	A16989
Xylenes, Total	SW8260B	7/30/2008	1.5	1	1.50	13.3	µg/L	A16989
Surr: Dibromofluoromethane	SW8260B	7/30/2008	0	1	61.2-131	111	%REC	A16989
Surr: 4-Bromofluorobenzene	SW8260B	7/30/2008	0	1	64.1-120	107	%REC	A16989
Surr: Toluene-d8	SW8260B	7/30/2008	0	1	75.1-127	110	%REC	A16989
TPH (Gasoline)	SW8260B(TPH)	7/30/2008	50	1	50	198x	µg/L	T16989
Surr: 4-Bromofluorobenzene	SW8260B(TPH)	7/30/2008	0	1	58.4-133	89.6	%REC	T16989

Note: x- Sample chromatogram does not resemble gasoline standard pattern. Although TPH as Gaslone constituents are present,TPHg value includes the significant portion of non-target hydrocarbons within gasoline quantitative range.

Client Sample ID:	GW-1	Lab Sample ID:	0807186-009
Sample Location:	1409 12th St,Oakland	Date Prepared:	7/29/2008-7/31/2008
Sample Matrix:	GROUNDWATER		
Date/Time Sampled	7/27/2008 2:05:00 PM		

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	7/31/2008	0.1	1	0.100	1.06x	mg/L	R16990
TPH (Motor Oil-SG)	SW8015B	7/31/2008	0.2	1	0.200	ND	mg/L	R16990
Surr: Pentacosane	SW8015B	7/31/2008	0	1	40-120	97.0	%REC	R16990
Note:x-Sample chromatogram does not resemble typical diesel pattern. Hydrocarbons within the diesel range quantitated as diesel. Sample appears to be weathered gasoline.								
Benzene	SW8260B	7/31/2008	0.5	44	22.0	3360	µg/L	A16989
Diisopropyl ether (DIPE)	SW8260B	7/31/2008	0.5	44	22.0	ND	µg/L	A16989
Ethyl tert-butyl ether (ETBE)	SW8260B	7/31/2008	0.5	44	22.0	ND	µg/L	A16989
Ethylbenzene	SW8260B	7/31/2008	0.5	44	22.0	533	µg/L	A16989
Methyl tert-butyl ether (MTBE)	SW8260B	7/31/2008	0.5	44	22.0	ND	µg/L	A16989
t-Butyl alcohol (t-Butanol)	SW8260B	7/31/2008	10	44	440	ND	µg/L	A16989
tert-Amyl methyl ether (TAME)	SW8260B	7/31/2008	0.5	44	22.0	ND	µg/L	A16989
Toluene	SW8260B	7/31/2008	0.5	44	22.0	146	µg/L	A16989
Xylenes, Total	SW8260B	7/31/2008	1.5	44	66.0	1450	µg/L	A16989
Surr: Dibromofluoromethane	SW8260B	7/31/2008	0	44	61.2-131	102	%REC	A16989
Surr: 4-Bromofluorobenzene	SW8260B	7/31/2008	0	44	64.1-120	97.6	%REC	A16989
Surr: Toluene-d8	SW8260B	7/31/2008	0	44	75.1-127	92.6	%REC	A16989
TPH (Gasoline)	SW8260B(TPH)	7/31/2008	50	44	2200	18000	µg/L	T16989
Surr: 4-Bromofluorobenzene	SW8260B(TPH)	7/31/2008	0	44	58.4-133	92.2	%REC	T16989

Note: Although TPH as Gasoline constituents are present,TPH value includes a single peaks that significantly biases the quantitation.

Client Sample ID:	GW-2	Lab Sample ID:	0807186-010
Sample Location:	1409 12th St,Oakland	Date Prepared:	7/29/2008-7/30/2008
Sample Matrix:	GROUNDWATER		
Date/Time Sampled	7/27/2008 2:15:00 PM		

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	7/31/2008	0.1	1	0.100	ND	mg/L	R16990
TPH (Motor Oil-SG)	SW8015B	7/31/2008	0.2	1	0.200	ND	mg/L	R16990
Surr: Pentacosane	SW8015B	7/31/2008	0	1	40-120	101	%REC	R16990
Benzene	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Diisopropyl ether (DIPE)	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Ethyl tert-butyl ether (ETBE)	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Ethylbenzene	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Methyl tert-butyl ether (MTBE)	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
t-Butyl alcohol (t-Butanol)	SW8260B	7/30/2008	10	1	10.0	15.3	µg/L	A16989
tert-Amyl methyl ether (TAME)	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Toluene	SW8260B	7/30/2008	0.5	1	0.500	ND	µg/L	A16989
Xylenes, Total	SW8260B	7/30/2008	1.5	1	1.50	ND	µg/L	A16989
Surr: Dibromofluoromethane	SW8260B	7/30/2008	0	1	61.2-131	108	%REC	A16989
Surr: 4-Bromofluorobenzene	SW8260B	7/30/2008	0	1	64.1-120	101	%REC	A16989
Surr: Toluene-d8	SW8260B	7/30/2008	0	1	75.1-127	93.5	%REC	A16989
TPH (Gasoline)	SW8260B(TPH)	7/30/2008	50	1	50	61x	µg/L	T16989
Surr: 4-Bromofluorobenzene	SW8260B(TPH)	7/30/2008	0	1	58.4-133	91.6	%REC	T16989

Note: x- Sample chromatogram does not resemble Gasoline standard pattern. Reported TPH value due to presence of non-gasoline compounds within gasoline range.

Client Sample ID:	GW-3	Lab Sample ID:	0807186-011
Sample Location:	1409 12th St,Oakland	Date Prepared:	7/29/2008-7/31/2008
Sample Matrix:	GROUNDWATER		
Date/Time Sampled	7/27/2008 3:00:00 PM		

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel-SG)	SW8015B	7/31/2008	0.1	1	0.100	ND	mg/L	R16990
TPH (Motor Oil-SG)	SW8015B	7/31/2008	0.2	1	0.200	ND	mg/L	R16990
Surr: Pentacosane	SW8015B	7/31/2008	0	1	40-120	101	%REC	R16990
Benzene	SW8260B	7/31/2008	0.5	1	0.500	3.27	µg/L	A16989
Diisopropyl ether (DIPE)	SW8260B	7/31/2008	0.5	1	0.500	ND	µg/L	A16989
Ethyl tert-butyl ether (ETBE)	SW8260B	7/31/2008	0.5	1	0.500	ND	µg/L	A16989
Ethylbenzene	SW8260B	7/31/2008	0.5	1	0.500	ND	µg/L	A16989
Methyl tert-butyl ether (MTBE)	SW8260B	7/31/2008	0.5	1	0.500	ND	µg/L	A16989
t-Butyl alcohol (t-Butanol)	SW8260B	7/31/2008	10	1	10.0	ND	µg/L	A16989
tert-Amyl methyl ether (TAME)	SW8260B	7/31/2008	0.5	1	0.500	ND	µg/L	A16989
Toluene	SW8260B	7/31/2008	0.5	1	0.500	ND	µg/L	A16989
Xylenes, Total	SW8260B	7/31/2008	1.5	1	1.50	ND	µg/L	A16989
Surr: Dibromofluoromethane	SW8260B	7/31/2008	0	1	61.2-131	89.1	%REC	A16989
Surr: 4-Bromofluorobenzene	SW8260B	7/31/2008	0	1	64.1-120	110	%REC	A16989
Surr: Toluene-d8	SW8260B	7/31/2008	0	1	75.1-127	96.6	%REC	A16989
TPH (Gasoline)	SW8260B(TPH)	7/31/2008	50	1	50	63x	µg/L	T16989
Surr: 4-Bromofluorobenzene	SW8260B(TPH)	7/31/2008	0	1	58.4-133	89.7	%REC	T16989

Note: x- Sample chromatogram does not resemble Gasoline standard pattern. Reported TPH value due to presence of non-gasoline compounds within gasoline range.

Definitions, legends and Notes

Note	Description
ug/kg	Microgram per kilogram (ppb, part per billion).
ug/L	Microgram per liter (ppb, part per billion).
mg/kg	Milligram per kilogram (ppm, part per million).
mg/L	Milligram per liter (ppm, part per million).
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate.
MDL	Method detection limit.
MRL	Modified reporting limit. When sample is subject to dilution, reporting limit times dilution factor yields MRL.
MS/MSD	Matrix spike/matrix spike duplicate.
N/A	Not applicable.
ND	Not detected at or above detection limit.
NR	Not reported.
QC	Quality Control.
RL	Reporting limit.
% RPD	Percent relative difference.
a	pH was measured immediately upon the receipt of the sample, but it was still done outside the holding time.
sub	Analyzed by subcontracting laboratory, Lab Certificate #

CLIENT: Impact Environmental Services
Work Order: 0807186
Project: 1409 12th St,Oakland

ANALYTICAL QC SUMMARY REPORT

BatchID: A16989

Sample ID: MB_A16989	SampType: MBLK	TestCode: 8260B_W_PE Units: µg/L			Prep Date: 7/30/2008			RunNo: 16989			
Client ID: ZZZZZ	Batch ID: A16989	TestNo: SW8260B			Analysis Date: 7/30/2008			SeqNo: 243641			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.500									
Diisopropyl ether (DIPE)	ND	0.500									
Ethyl tert-butyl ether (ETBE)	ND	0.500									
Ethylbenzene	ND	0.500									
Methyl tert-butyl ether (MTBE)	ND	0.500									
t-Butyl alcohol (t-Butanol)	ND	10.0									
tert-Amyl methyl ether (TAME)	ND	0.500									
Toluene	ND	0.500									
Xylenes, Total	ND	1.50									
Surr: Dibromofluoromethane	10.24	0	11.36	0	90.1	61.2	131				
Surr: 4-Bromofluorobenzene	12.01	0	11.36	0	106	64.1	120				
Surr: Toluene-d8	10.11	0	11.36	0	89.0	75.1	127				

Sample ID: LCS_A16989	SampType: LCS	TestCode: 8260B_W_PE Units: µg/L				Prep Date: 7/30/2008			RunNo: 16989		
Client ID: ZZZZZ	Batch ID: A16989	TestNo: SW8260B				Analysis Date: 7/30/2008			SeqNo: 243642		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	16.70	0.500	17.04	0	98.0	66.9	140				
Toluene	13.85	0.500	17.04	0	81.3	76.6	123				
Surr: Dibromofluoromethane	10.99	0	11.36	0	96.7	61.2	131				
Surr: 4-Bromofluorobenzene	12.38	0	11.36	0	109	64.1	120				
Surr: Toluene-d8	11.22	0	11.36	0	98.8	75.1	127				

Sample ID: LCSD_A16989	SampType: LCSD	TestCode: 8260B_W_PE Units: µg/L				Prep Date: 7/31/2008			RunNo: 16989		
Client ID: ZZZZZ	Batch ID: A16989	TestNo: SW8260B				Analysis Date: 7/31/2008			SeqNo: 243643		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	15.27	0.500	17.04	0	89.6	66.9	140	16.7	8.95	20	
Toluene	14.87	0.500	17.04	0	87.3	76.6	123	13.85	7.10	20	

Qualifiers: 3 Recovery of the MS and/or MSD was out of control due to 4 The MS/MSD RPD was out of control due to matrix inter Q Spike recovery and RPD control limits do not apply result
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: Impact Environmental Services
Work Order: 0807186
Project: 1409 12th St,Oakland

ANALYTICAL QC SUMMARY REPORT

BatchID: A16989

Sample ID: LCSD_A16989	SampType: LCSD	TestCode: 8260B_W_PE Units: µg/L				Prep Date: 7/31/2008			RunNo: 16989		
Client ID: ZZZZZ	Batch ID: A16989	TestNo: SW8260B				Analysis Date: 7/31/2008			SeqNo: 243643		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	11.49	0	11.36	0	101	61.2	131	0	0	0	
Surr: 4-Bromofluorobenzene	12.05	0	11.36	0	106	64.1	120	0	0	0	
Surr: Toluene-d8	10.29	0	11.36	0	90.6	75.1	127	0	0	0	

Qualifiers: 3 Recovery of the MS and/or MSD was out of control due to 4 The MS/MSD RPD was out of control due to matrix inter Q Spike recovery and RPD control limits do not apply result
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: Impact Environmental Services
Work Order: 0807186
Project: 1409 12th St,Oakland

ANALYTICAL QC SUMMARY REPORT

BatchID: R16990

Sample ID: WDSG080729A-MB	SampType: MBLK	TestCode: TPHDOSG_W Units: mg/L				Prep Date: 7/29/2008			RunNo: 16990		
Client ID: ZZZZZ	Batch ID: R16990	TestNo: SW8015B				Analysis Date: 7/30/2008			SeqNo: 243595		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel-SG)	ND	0.100									
TPH (Motor Oil-SG)	ND	0.200									
Surr: Pentacosane	0.1050	0	0.1	0	105	40	120				

Sample ID: WDSG080729A-LCS	SampType: LCS	TestCode: TPHDOSG_W Units: mg/L				Prep Date: 7/29/2008			RunNo: 16990		
Client ID: ZZZZZ	Batch ID: R16990	TestNo: SW8015B				Analysis Date: 7/30/2008			SeqNo: 243599		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel-SG)	0.6440	0.100	1	0	64.4	30	68.5				
Surr: Pentacosane	0.1100	0	0.1	0	110	40	120				

Sample ID: WDSG080729A-LCS	SampType: LCSD	TestCode: TPHDOSG_W Units: mg/L				Prep Date: 7/29/2008			RunNo: 16990		
Client ID: ZZZZZ	Batch ID: R16990	TestNo: SW8015B				Analysis Date: 7/30/2008			SeqNo: 243604		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel-SG)	0.7550	0.100	1	0	75.5	30	68.5	0.644	15.9	30	S
Surr: Pentacosane	0.1090	0	0.1	0	109	40	120	0	0	0	

Qualifiers: 3 Recovery of the MS and/or MSD was out of control due to 4 The MS/MSD RPD was out of control due to matrix inter Q Spike recovery and RPD control limits do not apply result
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: Impact Environmental Services
Work Order: 0807186
Project: 1409 12th St,Oakland

ANALYTICAL QC SUMMARY REPORT

BatchID: T16989

Sample ID: MB_T16989	SampType: MBLK	TestCode: TPH_GAS_W	Units: µg/L	Prep Date: 7/30/2008	RunNo: 16989						
Client ID: ZZZZZ	Batch ID: T16989	TestNo: SW8260B(TP	Analysis Date: 7/30/2008	SeqNo: 243655							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	ND	50									
Surr: 4-Bromofllurobenzene	8.170	0	11.36	0	71.9	58.4	133				

Sample ID: LCS_T16989	SampType: LCS	TestCode: TPH_GAS_W	Units: µg/L	Prep Date: 7/30/2008	RunNo: 16989						
Client ID: ZZZZZ	Batch ID: T16989	TestNo: SW8260B(TP	Analysis Date: 7/30/2008	SeqNo: 243656							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	214.0	50	227	0	94.3	52.4	127				
Surr: 4-Bromofllurobenzene	10.33	0	11.36	0	90.9	58.4	133				

Sample ID: LCSD_T16989	SampType: LCSD	TestCode: TPH_GAS_W	Units: µg/L	Prep Date: 7/30/2008	RunNo: 16989						
Client ID: ZZZZZ	Batch ID: T16989	TestNo: SW8260B(TP	Analysis Date: 7/30/2008	SeqNo: 243657							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	195.0	50	227	0	85.9	52.4	127	214	9.29	20	
Surr: 4-Bromofllurobenzene	10.41	0	11.36	0	91.6	58.4	133	0	0	0	

Qualifiers: 3 Recovery of the MS and/or MSD was out of control due to 4 The MS/MSD RPD was out of control due to matrix inter Q Spike recovery and RPD control limits do not apply result
R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits



483 Sinclair Frontage Road
Milpitas, CA 95035
Phone: 408.263.5258
FAX: 408.263.8293
www.torrentlab.com

RESET

CHAIN OF CUSTODY

LAB WORK ORDER NO

0807186

NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY

Company Name: IMPACT ENVIRONMENTAL			Location of Sampling: 1409 12th St., OAKLAND, CA		
Address: 39120 ARGONAUT WAY, #223			Purpose: Groundwater Monitoring		
City: FREMONT	State: CA	Zip Code: 94538	Special Instructions / Comments: Email results to jac21462@aol.com		
Telephone: (510) 7035420 FAX: (510) 791-0271					
REPORT TO: Joseph Cotton		SAMPLER: Joseph Cotton	P.O. #:	EMAIL: jac21462@aol.com	

TURNAROUND TIME:

- ☐ 10 Work Days ☐ 3 Work Days ☐ Noon - Nxt Day
☐ 7 Work Days ☐ 2 Work Days ☐ 2 - 8 Hours
☒ 5 Work Days ☐ 1 Work Day ☐ Other

SAMPLE TYPE:

- ☐ Storm Water ☐ Air
☐ Waste Water ☐ Other
☐ Ground Water
☐ Soil

REPORT FORMAT:

- ☐ QC Level IV
☐ EDF
☐ Excel / EDD

ANALYSIS
REQUESTED

LAB ID	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	TPH / BTEX / MTBE CPA 8260	TPH / TPH MU	SILICA GEL CLEANUP CPA 8260	FUEL OX / VIO WATER CPA 8260	REMARKS
001A	MW-1	7-27-8 8:50	W	3	VOAC 1 Lamber	X	X	X		
002A	MW-2	9:20								
003A	MW-3	10:02								
004A	MW-4	11:15								
005A	MW-5	12:10								
006A	MW-6	12:50								
007A	MW-7	1:15								
008A	MW-8	1:20								
009A	GW-1	2:05								
010A	GW-2	7-27-8 2:15	W	3	VOAC 1 Lamber	X	X	X		

1 Relinquished By: [Signature]	Print: JOSEPH COTTON	Date:	Time:	Received By: [Signature]	Print: PANKAJ	Date: 07/28/08	Time: 4:40 PM.
2 Relinquished By:	Print:	Date:	Time:	Received By:	Print:	Date:	Time:

Were Samples Received in Good Condition? ☐ Yes ☐ NO Samples on Ice? ☐ Yes ☐ NO Method of Shipment Sample seals intact? ☐ Yes ☐ NO ☐ N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made.

Page **1** of **2**

Log In By: Date: Log In Reviewed By: Date:

483 Sinclair Frontage Road
Milpitas, CA 95035
Phone: 408.263.5258 RES
FAX: 408.263.8293
www.torrentlab.com

CHAIN OF CUSTODY



LAB WORK ORDER NO

0807/86

• NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY •

Company Name: IMPACT ENVIRONMENTAL			Location of Sampling: 1409 12th St., OAKLAND, CA		
Address: 39120 ARGONAUT WAY, #223			Purpose: Ground water monitoring		
City: FIREMONT	State: CA	Zip Code: 94538	Special Instructions / Comments:		
Telephone: (510) 7035420 FAX: (510) 791-0271			Email results to: jac21462@aol.com		
REPORT TO: (510) 7035420 SAMPLER: Joseph Cotton			P.O. #: 2 EMAIL: jac21462@aol.com		

[illegible]

1	Relinquished By: 	Print: JOSEPH H COTTON	Date:	Time:	Received By: 	Print: PANKAJ	Date: 07/28/08	Time: 4:40 pm
2	Relinquished By:	Print:	Date:	Time:	Received By:	Print:	Date:	Time:

Were Samples Received in Good Condition? ☐ Yes ☐ NO Samples on Ice? ☐ Yes ☐ NO Method of Shipment _____ Sample seals intact? ☐ Yes ☐ NO ☐ N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made.

Log In By: _____ Date: _____ Log In Reviewed By: _____ Date: _____



November 03, 2008

Mr. Joseph Cotton
Impact Environmental Services
39120 Arogonat Way, Suite 223
Fremont, CA 94538

TEL: 510-703-5420

FAX 510-713-7790

RE: 1409-1417 12TH St. Oakland

Order No.: 0810191

Dear Mr. Joseph Cotton:

Torrent Laboratory, Inc. received 11 samples on 10/27/2008 for the analyses presented in the following report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Reported data is applicable for only the samples received as part of the order number referenced above.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these tests results, please feel free to contact the Project Management Team at (408)263-5258;ext: 204.

Sincerely,


Laboratory Director

11/3/08
Date

Patti Sandrock

QA Officer 



TORRENT LABORATORY, INC.

483 Sinclair Frontage Road • Milpitas, CA • Phone: (408) 263-5258 • Fax: (408) 263-8293

Visit us at www.torrentlab.com email: analysis@torrentlab.com

Report prepared for: Mr. Joseph Cotton
Impact Environmental Services

Date Received: 10/27/2008

Date Reported: 11/3/2008

Client Sample ID: MW-1
Sample Location: 1409-1417 12TH St. Oakland
Sample Matrix: GROUNDWATER
Date/Time Sampled 10/25/2008 10:00:00 AM

Lab Sample ID: 0810191-001

Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	10/28/2008	0.1	1	0.100	ND	mg/L	R17758
TPH (Motor Oil)	SW8015B	10/28/2008	0.2	1	0.200	ND	mg/L	R17758
Surr: Pentacosane	SW8015B	10/28/2008	0	1	57.9-125	100	%REC	R17758
Benzene	SW8260B	10/28/2008	0.5	1	0.500	1.68	µg/L	P17745
Toluene	SW8260B	10/28/2008	0.5	1	0.500	1.17	µg/L	P17745
Ethylbenzene	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Methyl tert-butyl ether (MTBE)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Diisopropyl ether (DIPE)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Ethyl tert-butyl ether (ETBE)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
tert-Amyl methyl ether (TAME)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
t-Butyl alcohol (t-Butanol)	SW8260B	10/28/2008	10	1	10.0	ND	µg/L	P17745
Xylenes, Total	SW8260B	10/28/2008	1.5	1	1.50	ND	µg/L	P17745
Surr: Dibromofluoromethane	SW8260B	10/28/2008	0	1	61.2-131	110	%REC	P17745
Surr: 4-Bromofluorobenzene	SW8260B	10/28/2008	0	1	64.1-120	105	%REC	P17745
Surr: Toluene-d8	SW8260B	10/28/2008	0	1	75.1-127	102	%REC	P17745
TPH (Gasoline)	SW8260B(TPH)	10/28/2008	50	1	50	95x	µg/L	G17745
Surr: 4-Bromofluorobenzene	SW8260B(TPH)	10/28/2008	0	1	58.4-133	84.2	%REC	G17745

Note: x- Sample chromatogram does not resemble gasoline standard pattern. Reported TPH value due to presence of non-gasoline compounds within range of C5-C12 quantified as Gasoline (heavy end).

Client Sample ID: MW-2	Lab Sample ID: 0810191-002
Sample Location: 1409-1417 12TH St. Oakland	Date Prepared: 10/28/2008
Sample Matrix: GROUNDWATER	
Date/Time Sampled 10/25/2008 10:30:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	10/28/2008	0.1	1	0.100	ND	mg/L	R17758
TPH (Motor Oil)	SW8015B	10/28/2008	0.2	1	0.200	ND	mg/L	R17758
Surr: Pentacosane	SW8015B	10/28/2008	0	1	57.9-125	99.0	%REC	R17758
Benzene	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Toluene	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Ethylbenzene	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Methyl tert-butyl ether (MTBE)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Diisopropyl ether (DIPE)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Ethyl tert-butyl ether (ETBE)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
tert-Amyl methyl ether (TAME)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
t-Butyl alcohol (t-Butanol)	SW8260B	10/28/2008	10	1	10.0	ND	µg/L	P17745
Xylenes, Total	SW8260B	10/28/2008	1.5	1	1.50	ND	µg/L	P17745
Surr: Dibromofluoromethane	SW8260B	10/28/2008	0	1	61.2-131	100	%REC	P17745
Surr: 4-Bromofluorobenzene	SW8260B	10/28/2008	0	1	64.1-120	98.1	%REC	P17745
Surr: Toluene-d8	SW8260B	10/28/2008	0	1	75.1-127	105	%REC	P17745
TPH (Gasoline)	SW8260B(TPH)	10/28/2008	50	1	50	71x	µg/L	G17745
Surr: 4-Bromofluorobenzene	SW8260B(TPH)	10/28/2008	0	1	58.4-133	91.8	%REC	G17745

Note: x- Sample chromatogram does not resemble gasoline standard pattern. Reported TPH value due to presence of non-gasoline compounds within range of C5-C12 quantified as Gasoline (heavy end).

Client Sample ID: MW-3	Lab Sample ID: 0810191-003
Sample Location: 1409-1417 12TH St. Oakland	Date Prepared: 10/28/2008
Sample Matrix: GROUNDWATER	
Date/Time Sampled 10/25/2008 10:52:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	10/28/2008	0.1	1	0.100	ND	mg/L	R17758
TPH (Motor Oil)	SW8015B	10/28/2008	0.2	1	0.200	ND	mg/L	R17758
Surr: Pentacosane	SW8015B	10/28/2008	0	1	57.9-125	96.0	%REC	R17758
Benzene	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Toluene	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Ethylbenzene	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Methyl tert-butyl ether (MTBE)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Diisopropyl ether (DIPE)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Ethyl tert-butyl ether (ETBE)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
tert-Amyl methyl ether (TAME)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
t-Butyl alcohol (t-Butanol)	SW8260B	10/28/2008	10	1	10.0	ND	µg/L	P17745
Xylenes, Total	SW8260B	10/28/2008	1.5	1	1.50	ND	µg/L	P17745
Surr: Dibromofluoromethane	SW8260B	10/28/2008	0	1	61.2-131	105	%REC	P17745
Surr: 4-Bromofluorobenzene	SW8260B	10/28/2008	0	1	64.1-120	102	%REC	P17745
Surr: Toluene-d8	SW8260B	10/28/2008	0	1	75.1-127	96.5	%REC	P17745
TPH (Gasoline)	SW8260B(TPH)	10/28/2008	50	1	50	ND	µg/L	G17745
Surr: 4-Bromofluorobenzene	SW8260B(TPH)	10/28/2008	0	1	58.4-133	79.2	%REC	G17745

Client Sample ID: MW-4	Lab Sample ID: 0810191-004
Sample Location: 1409-1417 12TH St. Oakland	Date Prepared: 10/28/2008
Sample Matrix: GROUNDWATER	
Date/Time Sampled 10/25/2008 12:30:00 PM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	10/28/2008	0.1	1	0.100	ND	mg/L	R17758
TPH (Motor Oil)	SW8015B	10/28/2008	0.2	1	0.200	ND	mg/L	R17758
Surr: Pentacosane	SW8015B	10/28/2008	0	1	57.9-125	91.0	%REC	R17758
Benzene	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Toluene	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Ethylbenzene	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Methyl tert-butyl ether (MTBE)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Diisopropyl ether (DIPE)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Ethyl tert-butyl ether (ETBE)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
tert-Amyl methyl ether (TAME)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
t-Butyl alcohol (t-Butanol)	SW8260B	10/28/2008	10	1	10.0	ND	µg/L	P17745
Xylenes, Total	SW8260B	10/28/2008	1.5	1	1.50	ND	µg/L	P17745
Surr: Dibromofluoromethane	SW8260B	10/28/2008	0	1	61.2-131	100	%REC	P17745
Surr: 4-Bromofluorobenzene	SW8260B	10/28/2008	0	1	64.1-120	118	%REC	P17745
Surr: Toluene-d8	SW8260B	10/28/2008	0	1	75.1-127	95.4	%REC	P17745
TPH (Gasoline)	SW8260B(TPH)	10/28/2008	50	1	50	61x	µg/L	G17745
Surr: 4-Bromofluorobenzene	SW8260B(TPH)	10/28/2008	0	1	58.4-133	92.7	%REC	G17745

Note: x- Sample chromatogram does not resemble gasoline standard pattern. Reported TPH value due to presence of non-gasoline compounds within range of C5-C12 quantified as Gasoline (heavy end).

Client Sample ID: MW-5	Lab Sample ID: 0810191-005
Sample Location: 1409-1417 12TH St. Oakland	Date Prepared: 10/28/2008
Sample Matrix: GROUNDWATER	
Date/Time Sampled 10/25/2008 1:07:00 PM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	10/30/2008	0.1	1	0.100	ND	mg/L	R17758
TPH (Motor Oil)	SW8015B	10/30/2008	0.2	1	0.200	ND	mg/L	R17758
Surr: Pentacosane	SW8015B	10/30/2008	0	1	57.9-125	69.0	%REC	R17758
Benzene	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Toluene	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Ethylbenzene	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Methyl tert-butyl ether (MTBE)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Diisopropyl ether (DIPE)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Ethyl tert-butyl ether (ETBE)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
tert-Amyl methyl ether (TAME)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
t-Butyl alcohol (t-Butanol)	SW8260B	10/28/2008	10	1	10.0	ND	µg/L	P17745
Xylenes, Total	SW8260B	10/28/2008	1.5	1	1.50	ND	µg/L	P17745
Surr: Dibromofluoromethane	SW8260B	10/28/2008	0	1	61.2-131	112	%REC	P17745
Surr: 4-Bromofluorobenzene	SW8260B	10/28/2008	0	1	64.1-120	110	%REC	P17745
Surr: Toluene-d8	SW8260B	10/28/2008	0	1	75.1-127	111	%REC	P17745
TPH (Gasoline)	SW8260B(TPH)	10/28/2008	50	1	50	71x	µg/L	G17745
Surr: 4-Bromofluorobenzene	SW8260B(TPH)	10/28/2008	0	1	58.4-133	104	%REC	G17745

Note: x- Sample chromatogram does not resemble gasoline standard pattern. Reported TPH value due to presence of non-gasoline compounds within range of C5-C12 quantified as Gasoline (heavy end).

Client Sample ID: MW-6 Sample Location: 1409-1417 12TH St. Oakland Sample Matrix: GROUNDWATER Date/Time Sampled 10/25/2008 2:12:00 PM	Lab Sample ID: 0810191-006 Date Prepared: 10/28/2008
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Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	10/30/2008	0.1	1	0.100	ND	mg/L	R17758
TPH (Motor Oil)	SW8015B	10/30/2008	0.2	1	0.200	ND	mg/L	R17758
Surr: Pentacosane	SW8015B	10/30/2008	0	1	57.9-125	79.0	%REC	R17758
Benzene	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Toluene	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Ethylbenzene	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Methyl tert-butyl ether (MTBE)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Diisopropyl ether (DIPE)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Ethyl tert-butyl ether (ETBE)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
tert-Amyl methyl ether (TAME)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
t-Butyl alcohol (t-Butanol)	SW8260B	10/28/2008	10	1	10.0	ND	µg/L	P17745
Xylenes, Total	SW8260B	10/28/2008	1.5	1	1.50	ND	µg/L	P17745
Surr: Dibromofluoromethane	SW8260B	10/28/2008	0	1	61.2-131	103	%REC	P17745
Surr: 4-Bromofluorobenzene	SW8260B	10/28/2008	0	1	64.1-120	115	%REC	P17745
Surr: Toluene-d8	SW8260B	10/28/2008	0	1	75.1-127	108	%REC	P17745
TPH (Gasoline)	SW8260B(TPH)	10/28/2008	50	1	50	72x	µg/L	G17745
Surr: 4-Bromofluorobenzene	SW8260B(TPH)	10/28/2008	0	1	58.4-133	105	%REC	G17745

Note: x- Sample chromatogram does not resemble gasoline standard pattern. Reported TPH value due to presence of non-gasoline compounds within range of C5-C12 quantified as Gasoline (heavy end).

Client Sample ID: MW-7	Lab Sample ID: 0810191-007
Sample Location: 1409-1417 12TH St. Oakland	Date Prepared: 10/28/2008
Sample Matrix: GROUNDWATER	
Date/Time Sampled 10/25/2008 3:15:00 PM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	10/30/2008	0.1	1	0.100	ND	mg/L	R17758
TPH (Motor Oil)	SW8015B	10/30/2008	0.2	1	0.200	ND	mg/L	R17758
Surr: Pentacosane	SW8015B	10/30/2008	0	1	57.9-125	43.0	%REC	R17758
Note: Surrogate recovery falls outside the control limit possibly due to nature of sample matrix (heavy emulsion generated during extraction). Note: Sample chromatogram does not resemble typical diesel or motor oil pattern. Hydrocarbons within the diesel range quantitated as diesel; hydrocarbons within the motor oil range quantitated as motor oil.								
Benzene	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Toluene	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Ethylbenzene	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Methyl tert-butyl ether (MTBE)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Diisopropyl ether (DIPE)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Ethyl tert-butyl ether (ETBE)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
tert-Amyl methyl ether (TAME)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
t-Butyl alcohol (t-Butanol)	SW8260B	10/28/2008	10	1	10.0	ND	µg/L	P17745
Xylenes, Total	SW8260B	10/28/2008	1.5	1	1.50	ND	µg/L	P17745
Surr: Dibromofluoromethane	SW8260B	10/28/2008	0	1	61.2-131	96.1	%REC	P17745
Surr: 4-Bromofluorobenzene	SW8260B	10/28/2008	0	1	64.1-120	112	%REC	P17745
Surr: Toluene-d8	SW8260B	10/28/2008	0	1	75.1-127	107	%REC	P17745
TPH (Gasoline)	SW8260B(TPH)	10/28/2008	50	1	50	71x	µg/L	G17745
Surr: 4-Bromofluorobenzene	SW8260B(TPH)	10/28/2008	0	1	58.4-133	105	%REC	G17745

Note: x- Sample chromatogram does not resemble gasoline standard pattern. Reported TPH value due to presence of non-gasoline compounds within range of C5-C12 quantified as Gasoline (heavy end).

Client Sample ID: MW-8 Sample Location: 1409-1417 12TH St. Oakland Sample Matrix: GROUNDWATER Date/Time Sampled 10/25/2008 4:20:00 PM	Lab Sample ID: 0810191-008 Date Prepared: 10/28/2008
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Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	10/30/2008	0.1	1	0.100	ND	mg/L	R17758
TPH (Motor Oil)	SW8015B	10/30/2008	0.2	1	0.200	ND	mg/L	R17758
Surr: Pentacosane	SW8015B	10/30/2008	0	1	57.9-125	61.0	%REC	R17758
Benzene	SW8260B	10/28/2008	0.5	1	0.500	1.41	µg/L	P17745
Toluene	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Ethylbenzene	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Methyl tert-butyl ether (MTBE)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Diisopropyl ether (DIPE)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
Ethyl tert-butyl ether (ETBE)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
tert-Amyl methyl ether (TAME)	SW8260B	10/28/2008	0.5	1	0.500	ND	µg/L	P17745
t-Butyl alcohol (t-Butanol)	SW8260B	10/28/2008	10	1	10.0	ND	µg/L	P17745
Xylenes, Total	SW8260B	10/28/2008	1.5	1	1.50	3.13	µg/L	P17745
Surr: Dibromofluoromethane	SW8260B	10/28/2008	0	1	61.2-131	97.5	%REC	P17745
Surr: 4-Bromofluorobenzene	SW8260B	10/28/2008	0	1	64.1-120	111	%REC	P17745
Surr: Toluene-d8	SW8260B	10/28/2008	0	1	75.1-127	113	%REC	P17745
TPH (Gasoline)	SW8260B(TPH)	10/28/2008	50	1	50	240x	µg/L	G17745
Surr: 4-Bromofluorobenzene	SW8260B(TPH)	10/28/2008	0	1	58.4-133	121	%REC	G17745

Note: x- Sample chromatogram does not resemble gasoline standard pattern. Reported TPH value due to presence of non-gasoline compounds within range of C5-C12 quantified as Gasoline (heavy end).

Client Sample ID: GW-1	Lab Sample ID: 0810191-009
Sample Location: 1409-1417 12TH St. Oakland	Date Prepared: 10/28/2008
Sample Matrix: GROUNDWATER	
Date/Time Sampled 10/25/2008 5:30:00 PM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	10/30/2008	0.1	1	0.100	1.02x	mg/L	R17758
TPH (Motor Oil)	SW8015B	10/30/2008	0.2	1	0.200	0.296x	mg/L	R17758
Surr: Pentacosane	SW8015B	10/30/2008	0	1	57.9-125	59.0	%REC	R17758
Note:x-Sample chromatogram does not resemble typical diesel or motor oil pattern. Lighter end hydrocarbons and hydrocarbon peaks within the diesel range quantitated as diesel; hydrocarbons and discrete hydrocarbon peaks within the motor oil range quantitated as motor oil.								
Benzene	SW8260B	10/30/2008	0.5	8.8	4.40	1010	µg/L	R17754
Toluene	SW8260B	10/29/2008	0.5	4.4	2.20	161	µg/L	R17739
Ethylbenzene	SW8260B	10/29/2008	0.5	4.4	2.20	89.8	µg/L	R17739
Methyl tert-butyl ether (MTBE)	SW8260B	10/29/2008	0.5	4.4	2.20	ND	µg/L	R17739
Diisopropyl ether (DIPE)	SW8260B	10/29/2008	0.5	4.4	2.20	ND	µg/L	R17739
Ethyl tert-butyl ether (ETBE)	SW8260B	10/29/2008	0.5	4.4	2.20	ND	µg/L	R17739
tert-Amyl methyl ether (TAME)	SW8260B	10/29/2008	0.5	4.4	2.20	ND	µg/L	R17739
t-Butyl alcohol (t-Butanol)	SW8260B	10/29/2008	10	4.4	44.0	ND	µg/L	R17739
Xylenes, Total	SW8260B	10/29/2008	1.5	4.4	6.60	693	µg/L	R17739
Surr: Dibromofluoromethane	SW8260B	10/29/2008	0	4.4	61.2-131	99.8	%REC	R17739
Surr: Dibromofluoromethane	SW8260B	10/30/2008	0	8.8	61.2-131	85.1	%REC	R17754
Surr: 4-Bromofluorobenzene	SW8260B	10/29/2008	0	4.4	64.1-120	115	%REC	R17739
Surr: 4-Bromofluorobenzene	SW8260B	10/30/2008	0	8.8	64.1-120	97.4	%REC	R17754
Surr: Toluene-d8	SW8260B	10/29/2008	0	4.4	75.1-127	114	%REC	R17739
Surr: Toluene-d8	SW8260B	10/30/2008	0	8.8	75.1-127	117	%REC	R17754
TPH (Gasoline)	SW8260B(TPH)	10/30/2008	50	8.8	440	7200x	µg/L	G17754
Surr: 4-Bromofluorobenzene	SW8260B(TPH)	10/30/2008	0	8.8	58.4-133	88.3	%REC	G17754

Note: x- Sample chromatogram does not resemble gasoline standard pattern. Although TPH as Gasoline compounds are present, TPH value includes the portion of non-gasoline compounds within range of C5-C12 quantified as Gasoline.

Client Sample ID: GW-2	Lab Sample ID: 0810191-010
Sample Location: 1409-1417 12TH St. Oakland	Date Prepared: 10/28/2008
Sample Matrix: GROUNDWATER	
Date/Time Sampled 10/25/2008 6:10:00 PM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	10/30/2008	0.1	1	0.100	0.126x	mg/L	R17758
TPH (Motor Oil)	SW8015B	10/30/2008	0.2	1	0.200	0.338x	mg/L	R17758
Surr: Pentacosane	SW8015B	10/30/2008	0	1	57.9-125	79.0	%REC	R17758
Note:x- Sample chromatogram does not resemble typical diesel or motor oil pattern (discrete peaks present). Hydrocarbon peaks within the diesel range quantitated as diesel; hydrocarbons and hydrocarbon peaks within the motor oil range quantitated as motor oil.								
Benzene	SW8260B	10/29/2008	0.5	1	0.500	ND	µg/L	P17745
Toluene	SW8260B	10/29/2008	0.5	1	0.500	ND	µg/L	P17745
Ethylbenzene	SW8260B	10/29/2008	0.5	1	0.500	ND	µg/L	P17745
Methyl tert-butyl ether (MTBE)	SW8260B	10/29/2008	0.5	1	0.500	ND	µg/L	P17745
Diisopropyl ether (DIPE)	SW8260B	10/29/2008	0.5	1	0.500	ND	µg/L	P17745
Ethyl tert-butyl ether (ETBE)	SW8260B	10/29/2008	0.5	1	0.500	ND	µg/L	P17745
tert-Amyl methyl ether (TAME)	SW8260B	10/29/2008	0.5	1	0.500	ND	µg/L	P17745
t-Butyl alcohol (t-Butanol)	SW8260B	10/29/2008	10	1	10.0	ND	µg/L	P17745
Xylenes, Total	SW8260B	10/29/2008	1.5	1	1.50	ND	µg/L	P17745
Surr: Dibromofluoromethane	SW8260B	10/29/2008	0	1	61.2-131	98.3	%REC	P17745
Surr: 4-Bromofluorobenzene	SW8260B	10/29/2008	0	1	64.1-120	117	%REC	P17745
Surr: Toluene-d8	SW8260B	10/29/2008	0	1	75.1-127	115	%REC	P17745
TPH (Gasoline)	SW8260B(TPH)	10/29/2008	50	1	50	100x	µg/L	G17745
Surr: 4-Bromofluorobenzene	SW8260B(TPH)	10/29/2008	0	1	58.4-133	98.2	%REC	G17745

Note: x- Sample chromatogram does not resemble gasoline standard pattern. Reported TPH value due to presence of non-gasoline compounds within range of C5-C12 quantified as Gasoline (heavy end).

Client Sample ID: GW-3	Lab Sample ID: 0810191-011
Sample Location: 1409-1417 12TH St. Oakland	Date Prepared: 10/28/2008
Sample Matrix: GROUNDWATER	
Date/Time Sampled 10/25/2008 7:02:00 PM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Diesel)	SW8015B	10/30/2008	0.1	1	0.100	ND	mg/L	R17758
TPH (Motor Oil)	SW8015B	10/30/2008	0.2	1	0.200	ND	mg/L	R17758
Surr: Pentacosane	SW8015B	10/30/2008	0	1	57.9-125	85.0	%REC	R17758
Benzene	SW8260B	10/29/2008	0.5	1	0.500	8.47	µg/L	P17745
Toluene	SW8260B	10/29/2008	0.5	1	0.500	ND	µg/L	P17745
Ethylbenzene	SW8260B	10/29/2008	0.5	1	0.500	ND	µg/L	P17745
Methyl tert-butyl ether (MTBE)	SW8260B	10/29/2008	0.5	1	0.500	ND	µg/L	P17745
Diisopropyl ether (DIPE)	SW8260B	10/29/2008	0.5	1	0.500	ND	µg/L	P17745
Ethyl tert-butyl ether (ETBE)	SW8260B	10/29/2008	0.5	1	0.500	ND	µg/L	P17745
tert-Amyl methyl ether (TAME)	SW8260B	10/29/2008	0.5	1	0.500	ND	µg/L	P17745
t-Butyl alcohol (t-Butanol)	SW8260B	10/29/2008	10	1	10.0	ND	µg/L	P17745
Xylenes, Total	SW8260B	10/29/2008	1.5	1	1.50	ND	µg/L	P17745
Surr: Dibromofluoromethane	SW8260B	10/29/2008	0	1	61.2-131	105	%REC	P17745
Surr: 4-Bromofluorobenzene	SW8260B	10/29/2008	0	1	64.1-120	103	%REC	P17745
Surr: Toluene-d8	SW8260B	10/29/2008	0	1	75.1-127	106	%REC	P17745
TPH (Gasoline)	SW8260B(TPH)	10/29/2008	50	1	50	100x	µg/L	G17745
Surr: 4-Bromofluorobenzene	SW8260B(TPH)	10/29/2008	0	1	58.4-133	96.8	%REC	G17745

Note: x- Sample chromatogram does not resemble gasoline standard pattern. Reported TPH value due to presence of non-gasoline compounds within range of C5-C12 quantified as Gasoline (heavy end).

Definitions, legends and Notes

Note	Description
ug/kg	Microgram per kilogram (ppb, part per billion).
ug/L	Microgram per liter (ppb, part per billion).
mg/kg	Milligram per kilogram (ppm, part per million).
mg/L	Milligram per liter (ppm, part per million).
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate.
MDL	Method detection limit.
MRL	Modified reporting limit. When sample is subject to dilution, reporting limit times dilution factor yields MRL.
MS/MSD	Matrix spike/matrix spike duplicate.
N/A	Not applicable.
ND	Not detected at or above detection limit.
NR	Not reported.
QC	Quality Control.
RL	Reporting limit.
% RPD	Percent relative difference.
a	pH was measured immediately upon the receipt of the sample, but it was still done outside the holding time.
sub	Analyzed by subcontracting laboratory, Lab Certificate #

CLIENT: Impact Environmental Services
Work Order: 0810191
Project: 1409-1417 12TH St. Oakland

ANALYTICAL QC SUMMARY REPORT

BatchID: G17745

Sample ID MB_G17745	SampType: MBLK	TestCode: TPH_GAS_W	Units: µg/L	Prep Date: 10/28/2008	RunNo: 17745
Client ID: ZZZZZ	Batch ID: G17745	TestNo: SW8260B(TP	Analysis Date: 10/28/2008	SeqNo: 254422	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
TPH (Gasoline)	ND	50			
Surr: 4-Bromofllurobenzene	12.22	0	11.36	0	108 58.4 133

Sample ID LCS_G17745	SampType: LCS	TestCode: TPH_GAS_W	Units: µg/L	Prep Date: 10/28/2008	RunNo: 17745
Client ID: ZZZZZ	Batch ID: G17745	TestNo: SW8260B(TP	Analysis Date: 10/28/2008	SeqNo: 254428	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
TPH (Gasoline)	242.0	50	227	0	107 52.4 127
Surr: 4-Bromofllurobenzene	13.96	0	11.36	0	123 58.4 133

Sample ID LCSD_G17745	SampType: LCSD	TestCode: TPH_GAS_W	Units: µg/L	Prep Date: 10/28/2008	RunNo: 17745
Client ID: ZZZZZ	Batch ID: G17745	TestNo: SW8260B(TP	Analysis Date: 10/28/2008	SeqNo: 254430	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
TPH (Gasoline)	265.0	50	227	0	117 52.4 127
Surr: 4-Bromofllurobenzene	12.50	0	11.36	0	110 58.4 133

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: Impact Environmental Services
Work Order: 0810191
Project: 1409-1417 12TH St. Oakland

ANALYTICAL QC SUMMARY REPORT

BatchID: G17754

Sample ID	MB_G17754	SampType:	MBLK	TestCode:	TPH_GAS_W	Units:	µg/L	Prep Date:	10/30/2008	RunNo:	17754		
Client ID:	ZZZZZ	Batch ID:	G17754	TestNo:	SW8260B(TP			Analysis Date:	10/30/2008	SeqNo:	254567		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Gasoline)	ND	50									
Surr: 4-Bromofllurobenzene	9.580	0	11.36	0	84.3	58.4	133				

Sample ID	LCS_G17754	SampType:	LCS	TestCode:	TPH_GAS_W	Units:	µg/L	Prep Date:	10/31/2008	RunNo:	17754		
Client ID:	ZZZZZ	Batch ID:	G17754	TestNo:	SW8260B(TP			Analysis Date:	10/31/2008	SeqNo:	254570		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Gasoline)	252.0	50	227	0	111	52.4	127				
Surr: 4-Bromofllurobenzene	12.26	0	11.36	0	108	58.4	133				

Sample ID	LCSD_G17754	SampType:	LCSD	TestCode:	TPH_GAS_W	Units:	µg/L	Prep Date:	10/31/2008	RunNo:	17754		
Client ID:	ZZZZZ	Batch ID:	G17754	TestNo:	SW8260B(TP			Analysis Date:	10/31/2008	SeqNo:	254573		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Gasoline)	226.0	50	227	0	99.6	52.4	127	252	10.9	20	
Surr: 4-Bromofllurobenzene	13.05	0	11.36	0	115	58.4	133	0	0	0	

Qualifiers:	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: Impact Environmental Services
Work Order: 0810191
Project: 1409-1417 12TH St. Oakland

ANALYTICAL QC SUMMARY REPORT

BatchID: P17745

Sample ID	MB_P17745	SampType:	MBLK	TestCode:	8260B_W_PE	Units:	µg/L	Prep Date:	10/28/2008	RunNo:	17745		
Client ID:	ZZZZZ	Batch ID:	P17745	TestNo:	SW8260B			Analysis Date:	10/28/2008	SeqNo:	254408		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	0.500									
Toluene	ND	0.500									
Ethylbenzene	ND	0.500									
Methyl tert-butyl ether (MTBE)	ND	0.500									
Diisopropyl ether (DIPE)	ND	0.500									
Ethyl tert-butyl ether (ETBE)	ND	0.500									
tert-Amyl methyl ether (TAME)	ND	0.500									
t-Butyl alcohol (t-Butanol)	ND	10.0									
Xylenes, Total	ND	1.50									
Surr: Dibromofluoromethane	11.77	0	11.36	0	104	61.2	131				
Surr: 4-Bromofluorobenzene	11.19	0	11.36	0	98.5	64.1	120				
Surr: Toluene-d8	12.79	0	11.36	0	113	75.1	127				

Sample ID	LCS_P17745	SampType:	LCS	TestCode:	8260B_W_PE	Units:	µg/L	Prep Date:	10/28/2008	RunNo:	17745		
Client ID:	ZZZZZ	Batch ID:	P17745	TestNo:	SW8260B			Analysis Date:	10/28/2008	SeqNo:	254410		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	15.84	0.500	17.04	0	93.0	66.9	140				
Toluene	17.41	0.500	17.04	0	102	76.6	123				
Surr: Dibromofluoromethane	12.65	0	11.36	0	111	61.2	131				
Surr: 4-Bromofluorobenzene	13.04	0	11.36	0	115	64.1	120				
Surr: Toluene-d8	11.06	0	11.36	0	97.4	75.1	127				

Sample ID	LCSD_P17745	SampType:	LCSD	TestCode:	8260B_W_PE	Units:	µg/L	Prep Date:	10/29/2008	RunNo:	17745		
Client ID:	ZZZZZ	Batch ID:	P17745	TestNo:	SW8260B			Analysis Date:	10/29/2008	SeqNo:	254412		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	14.58	0.500	17.04	0	85.6	66.9	140	15.84	8.28	20	
Toluene	18.00	0.500	17.04	0	106	76.6	123	17.41	3.33	20	
Surr: Dibromofluoromethane	13.26	0	11.36	0	117	61.2	131	0	0	0	
Surr: 4-Bromofluorobenzene	11.67	0	11.36	0	103	64.1	120	0	0	0	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: Impact Environmental Services
Work Order: 0810191
Project: 1409-1417 12TH St. Oakland

ANALYTICAL QC SUMMARY REPORT

BatchID: P17745

Sample ID LCSD_P17745	SampType: LCSD	TestCode: 8260B_W_PE Units: µg/L				Prep Date: 10/29/2008			RunNo: 17745		
Client ID: ZZZZZ	Batch ID: P17745	TestNo: SW8260B				Analysis Date: 10/29/2008			SeqNo: 254412		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	13.47	0	11.36	0	119	75.1	127	0	0	0	

Qualifiers:	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: Impact Environmental Services
Work Order: 0810191
Project: 1409-1417 12TH St. Oakland

ANALYTICAL QC SUMMARY REPORT

BatchID: R17739

Sample ID	MB_R17739	SampType:	MBLK	TestCode:	8260B_W	Units:	µg/L	Prep Date:	10/29/2008	RunNo:	17739		
Client ID:	ZZZZZ	Batch ID:	R17739	TestNo:	SW8260B			Analysis Date:	10/29/2008	SeqNo:	254385		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	0.500									
Diisopropyl ether (DIPE)	ND	0.500									
Ethyl tert-butyl ether (ETBE)	ND	0.500									
Ethylbenzene	ND	0.500									
Methyl tert-butyl ether (MTBE)	ND	0.500									
t-Butyl alcohol (t-Butanol)	ND	5.00									
tert-Amyl methyl ether (TAME)	ND	0.500									
Toluene	ND	0.500									
Xylenes, Total	ND	1.50									
Surr: Dibromofluoromethane	11.21	0	11.36	0	98.7	61.2	131				
Surr: 4-Bromofluorobenzene	13.68	0	11.36	0	120	64.1	120				
Surr: Toluene-d8	11.09	0	11.36	0	97.6	75.1	127				

Sample ID	LCS_R17739	SampType:	LCS	TestCode:	8260B_W	Units:	µg/L	Prep Date:	10/29/2008	RunNo:	17739		
Client ID:	ZZZZZ	Batch ID:	R17739	TestNo:	SW8260B			Analysis Date:	10/29/2008	SeqNo:	254386		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	19.46	0.500	17.04	0	114	66.9	140				
Toluene	19.90	0.500	17.04	0	117	76.6	123				
Surr: Dibromofluoromethane	9.920	0	11.36	0	87.3	61.2	131				
Surr: 4-Bromofluorobenzene	11.00	0	11.36	0	96.8	64.1	120				
Surr: Toluene-d8	11.97	0	11.36	0	105	75.1	127				

Sample ID	LCSD_R17739	SampType:	LCSD	TestCode:	8260B_W	Units:	µg/L	Prep Date:	10/29/2008	RunNo:	17739		
Client ID:	ZZZZZ	Batch ID:	R17739	TestNo:	SW8260B			Analysis Date:	10/29/2008	SeqNo:	254388		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	16.26	0.500	17.04	0	95.4	66.9	140	19.46	17.9	20	
Toluene	16.96	0.500	17.04	0	99.5	76.6	123	19.9	16.0	20	
Surr: Dibromofluoromethane	10.23	0	11.36	0	90.1	61.2	131	0	0	0	
Surr: 4-Bromofluorobenzene	13.19	0	11.36	0	116	64.1	120	0	0	0	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: Impact Environmental Services
Work Order: 0810191
Project: 1409-1417 12TH St. Oakland

ANALYTICAL QC SUMMARY REPORT

BatchID: R17739

Sample ID	LCSD_R17739	SampType:	LCSD	TestCode:	8260B_W	Units:	µg/L	Prep Date:	10/29/2008	RunNo:	17739		
Client ID:	ZZZZZ	Batch ID:	R17739	TestNo:	SW8260B			Analysis Date:	10/29/2008	SeqNo:	254388		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8		12.43		0	11.36	0	109	75.1	127	0	0	0	

Qualifiers:	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: Impact Environmental Services
Work Order: 0810191
Project: 1409-1417 12TH St. Oakland

ANALYTICAL QC SUMMARY REPORT

BatchID: R17754

Sample ID	MB_R17754	SampType: MBLK	TestCode: 8260B_W_PE	Units: µg/L	Prep Date: 10/30/2008	RunNo: 17754					
Client ID:	ZZZZZ	Batch ID: R17754	TestNo: SW8260B		Analysis Date: 10/30/2008	SeqNo: 254557					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	0.500									
Toluene	ND	0.500									
Ethylbenzene	ND	0.500									
Methyl tert-butyl ether (MTBE)	ND	0.500									
Diisopropyl ether (DIPE)	ND	0.500									
Ethyl tert-butyl ether (ETBE)	ND	0.500									
tert-Amyl methyl ether (TAME)	ND	0.500									
t-Butyl alcohol (t-Butanol)	ND	10.0									
Xylenes, Total	ND	1.50									
Surr: Dibromofluoromethane	10.15	0	11.36	0	89.3	61.2	131				
Surr: 4-Bromofluorobenzene	11.79	0	11.36	0	104	64.1	120				
Surr: Toluene-d8	12.08	0	11.36	0	106	75.1	127				

Sample ID	LCS_R17754	SampType:	LCS	TestCode:	8260B_W_PE	Units:	µg/L	Prep Date:	10/30/2008	RunNo:	17754		
Client ID:	ZZZZZ	Batch ID:	R17754	TestNo:	SW8260B			Analysis Date:	10/30/2008	SeqNo:	254558		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	17.67	0.500	17.04	0	104	66.9	140				
Toluene	19.98	0.500	17.04	0	117	76.6	123				
Surr: Dibromofluoromethane	12.24	0	11.36	0	108	61.2	131				
Surr: 4-Bromofluorobenzene	11.77	0	11.36	0	104	64.1	120				
Surr: Toluene-d8	13.14	0	11.36	0	116	75.1	127				

Sample ID	LCSD_R17754	SampType:	LCSD	TestCode:	8260B_W_PE	Units:	µg/L	Prep Date:	10/30/2008	RunNo:	17754		
Client ID:	ZZZZZ	Batch ID:	R17754	TestNo:	SW8260B			Analysis Date:	10/30/2008	SeqNo:	254559		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	16.65	0.500	17.04	0	97.7	66.9	140	17.67	5.94	20	
Toluene	18.90	0.500	17.04	0	111	76.6	123	19.98	5.56	20	
Surr: Dibromofluoromethane	12.51	0	11.36	0	110	61.2	131	0	0	0	
Surr: 4-Bromofluorobenzene	12.75	0	11.36	0	112	64.1	120	0	0	0	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: Impact Environmental Services
Work Order: 0810191
Project: 1409-1417 12TH St. Oakland

ANALYTICAL QC SUMMARY REPORT

BatchID: R17754

Sample ID	LCSD_R17754	SampType:	LCSD	TestCode:	8260B_W_PE	Units:	µg/L	Prep Date:	10/30/2008	RunNo:	17754		
Client ID:	ZZZZZ	Batch ID:	R17754	TestNo:	SW8260B			Analysis Date:	10/30/2008	SeqNo:	254559		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8		12.33		0	11.36	0	109	75.1	127	0	0	0	

Qualifiers: E Value above quantitation range
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

CLIENT: Impact Environmental Services
Work Order: 0810191
Project: 1409-1417 12TH St. Oakland

ANALYTICAL QC SUMMARY REPORT

BatchID: R17758

Sample ID	WD081028A-MB	SampType:	MBLK	TestCode:	TPHDO_W	Units:	mg/L	Prep Date:	10/28/2008	RunNo:	17758		
Client ID:	ZZZZZ	Batch ID:	R17758	TestNo:	SW8015B			Analysis Date:	10/28/2008	SeqNo:	254667		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel)	ND	0.100									
TPH (Motor Oil)	ND	0.200									
Surr: Pentacosane	0.1040	0	0.1	0	104	57.9	125				

Sample ID	WD081028A-LCS	SampType:	LCS	TestCode:	TPHDO_W	Units:	mg/L	Prep Date:	10/28/2008	RunNo:	17758		
Client ID:	ZZZZZ	Batch ID:	R17758	TestNo:	SW8015B			Analysis Date:	10/28/2008	SeqNo:	254668		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel)	0.9100	0.100	1	0	91.0	50.3	125				
Surr: Pentacosane	0.1000	0	0.1	0	100	57.9	125				

Sample ID	WD081028A-LCSD	SampType:	LCSD	TestCode:	TPHDO_W	Units:	mg/L	Prep Date:	10/28/2008	RunNo:	17758		
Client ID:	ZZZZZ	Batch ID:	R17758	TestNo:	SW8015B			Analysis Date:	10/28/2008	SeqNo:	254669		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel)	0.8100	0.100	1	0	81.0	50.3	125	0.91	11.6	30	
Surr: Pentacosane	0.09000	0	0.1	0	90.0	57.9	125	0	0	0	

Qualifiers:	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits



483 Sinclair Frontage Road
Milpitas, CA 95035
Phone: 408.263.5258
FAX: 408.263.8293
www.torrentlab.com

CHAIN OF CUSTODY

• NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY •

LAB WORK ORDER NO

0810191

Company Name: IMPACT ENVIRONMENTAL			Location of Sampling: 1409-1417 12th St., OAKLAND		
Address: 39120 ARGONAUT WAY, #223			Purpose: QUARTERLY GW MONITORING		
City: FREMONT	State: CA	Zip Code: 94538	Special Instructions / Comments:		
Telephone: 510 7035420 FAX: (510) 791-0271					
REPORT TO: Joseph Cotton SAMPLER: Joseph Cotton			P.O. #: EMAIL: ja21462@att.com		

TURNAROUND TIME:

- ☐ 10 Work Days ☐ 3 Work Days ☐ Noon - Nxt Day
☐ 7 Work Days ☐ 2 Work Days ☐ 2 - 8 Hours
☒ 5 Work Days ☐ 1 Work Day ☐ Other

SAMPLE TYPE:

- ☐ Storm Water ☐ Air
☐ Waste Water ☐ Other
☒ Ground Water
☐ Soil

REPORT FORMAT:

- ☐ QC Level IV
☒ EDF
☒ Excel / EDD

- ☐ EPA 8260B - Full List
☐ EPA 8260B - 8010 List
☒ THP gas ☒ BTEX ☒ MTBE
☒ Oxygenates ☐ Si-Gel
☒ THP Diesel ☐ Motor Oil
☐ Pesticide - 8081
☐ PCB - 8082
Metals ☐ CAM - 17
☐ LUFT 5 ☐ 7 Metals
☐ 8270 Full List
☐ PAHs Only

ANALYSIS
REQUESTED

LAB ID	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	EPA 8260B - Full List	EPA 8260B - 8010 List	THP gas	BTEX	Oxygenates	MTBE	THP Diesel	Si-Gel	Motor Oil	Pesticide - 8081	PCB - 8082	Metals CAM - 17	LUFT 5	7 Metals	8270 Full List	PAHs Only	REMARKS
001A	MW-1	10:00AM	W	4	1 AMBER 3 WORKS																	
002A	MW-2	10:30AM																				
003A	MW-3	10:52AM																				
004A	MW-4	12:30 PM																				
005A	MW-5	1:07 PM																				
006A	MW-6	2:12 PM																				
007A	MW-7	3:15 PM																				
008A	MW-8	4:20 PM																				
009A	GW-1	5:30 PM																				
010A	GW-2	6:10 PM																				

1 Relinquished By: Joseph Cotton	Print: Joseph Cotton	Date: 10-27-08	Time:	Received By: Joseph Cotton	Print:	Date: 10/27/08	Time: 9:15 am
2 Relinquished By:	Print:	Date:	Time:	Received By:	Print:	Date:	Time:

Were Samples Received in Good Condition? ☒ Yes ☐ NO Samples on Ice? ☒ Yes ☐ NO Method of Shipment

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made.

Log In By: Date: Log In Reviewed By: Date:

Sample seals intact? ☐ Yes ☐ NO ☐ N/A

Page 1 of 2

CHAIN OF CUSTODY

LAB WORK ORDER NO



0810191

• NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY •

Company Name: IMPACT ENVIRONMENTAL			Location of Sampling: 1409-1417 12th ST., OAKLAND		
Address: 39120 ARGONAUT WAY, #223			Purpose: QUARTERLY QW MONITORING		
City: FREMONT	State: CA	Zip Code: 94538	Special Instructions / Comments:		
Telephone: (510) 7035420 FAX: (510) 791-0271					
REPORT TO: Joseph Cotton SAMPLER: Joseph Cotton			P.O. #: EMAIL: jaz1462@aol.com		

TURNAROUND TIME:			SAMPLE TYPE:		REPORT FORMAT:		ANALYSIS REQUESTED	
<input type="checkbox"/> 10 Work Days	<input type="checkbox"/> 3 Work Days	<input type="checkbox"/> Noon - Nxt Day	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Air	<input type="checkbox"/> QC Level IV	<input type="checkbox"/> 8260B - Full List	<input type="checkbox"/> CAM - 17	<div> <div>ANALYSIS REQUESTED</div> </div>
<input type="checkbox"/> 7 Work Days	<input type="checkbox"/> 2 Work Days	<input type="checkbox"/> 2 - 8 Hours	<input type="checkbox"/> Waste Water	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> EDF	<input type="checkbox"/> 8260B - 8010 List	<input type="checkbox"/> 5 Metals	
<input checked="" type="checkbox"/> 5 Work Days	<input type="checkbox"/> 1 Work Day	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Ground Water		<input checked="" type="checkbox"/> Excel / EDD	gas <input checked="" type="checkbox"/> MTBE	Full List	
			<input type="checkbox"/> Soil			Denates <input checked="" type="checkbox"/> Diesel <input type="checkbox"/> Si-Gel	s Only	
						pesticide - 8081		

ANALYSIS REQUESTED[illegible]

1	Relinquished By: 	Print: Joseph C. O'Leary	Date: 10-27-8	Time:	Received By: 	Print: N. S. Davis	Date: 10/27/08	Time: 9:15am
2	Relinquished By:	Print:	Date:	Time:	Received By:	Print:	Date:	Time:

Were Samples Received in Good Condition? ☒ Yes ☐ NO Samples on Ice? ☒ Yes ☐ NO Method of Shipment Dry Ice Sample seals intact? ☐ Yes ☐ NO ☐ N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made.

Log In By: _____ Date: _____ Log In Reviewed By: _____ Date: _____

Page 2 of 2

TORRENTI AB