

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 Environmental Health Services Environmental Protection 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

Subject:

Third & Fourth Quarter 2008 Groundwater Monitoring Report RO0002933

1409 – 1417 12th Street, Oakland, California

Dear Mr. Wickman:

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

Shuley 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



39120 Argonaut Way, Suite 223 Fremont, California 94538

Impact Environmental Services

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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: Contact Information: 1409-1417 12th Street Mrs. Shirley Thompson

Oakland, CA Edward C. and Shirley E. Thompson Trust APN 004-063-06 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

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 52,000μg/m³, benzene as high as 1,200 μg/m³, and vinyl chloride to 260μg/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), disopropyl 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 μ g/L. TPHg was detected above residential ESL in groundwater samples collected from wells MW-8 (240 μ g/L), GW-1 (7,200 μ g/L), GW-2 (100 μ g/L), and GW-3 (100 μ g/L).

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

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 $1\mu g/L$. Groundwater samples collected from wells MW-1, MW-8, and GW-3 were found to contain benzene at $1.68\mu g/L$, $1.41\mu g/L$, and $8.47\mu g/L$. The groundwater sample collected from well GW-1 contained the highest concentration of benzene (1,010 $\mu g/L$) detected during the fourth quarter 2008.

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

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 $100\mu g/L$ and $1\mu g/L$. TPHd was also detected above the diesel ESL of $100\mu g/L$ in the sample from well GW-1. The groundwater sample collected from well GW-1 also contained concentrations of toluene (ESL of $40\mu g/L$), ethylbenzene (ESL of $30\mu g/L$), and total xylenes ($20\mu g/L$) 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 it 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 IMPACTs 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 petroleumrelated 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

	Top-of-Casing Elevation	Date Measured	Floating Product Thickness	Depth to Water	Groundwater Elevation
Well No.	(feet, MSL) ¹	Measurea	(feet)	(feet)	(feet, MSL) ¹
MW-1	21.49	10/25/08	0.0	12.68	8.81
1,1,,	211.19	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
Residential E	SSL (DWS)	100	100	100	1	40	30	20	5	12	na	na	na
Residential E	SSL (NDWS)	500	640	640	46	130	290	100	1,800	18,000	na	na	na

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 07/27/08 04/30/08	7200x 18,000 37,000	1020x 1,060 7.25	296x <200 <200	1,010 3,360 2,400	161 146 769	89.8 533 378	693 1,450 3,450	<2.20 <22.0 <0.500	<44.0 <440 NA	<2.20 <22.0 NA	<2.20 <22.0 NA	<2.20 <22.0 NA
GW-2	10/25/08 07/27/08 04/30/08	100x 61 <50	126x <100 <100	338x <200 <200	<0.500 <0.500 <0.500	<0.500 <0.500 <0.500	<0.500 <0.500 <0.500	<1.5 <1.5 <0.500	<0.500 <0.500 <0.500	<10.0 15.3 NA	<0.500 <0.500 NA	<0.500 <0.500 NA	<0.500 <0.500 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
Residential E	,	100	100	100	1	40	30	20	5	12	na	na	na
Residential E		500	640	640	46	130	290	100	1,800	18,000	na	na	na

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

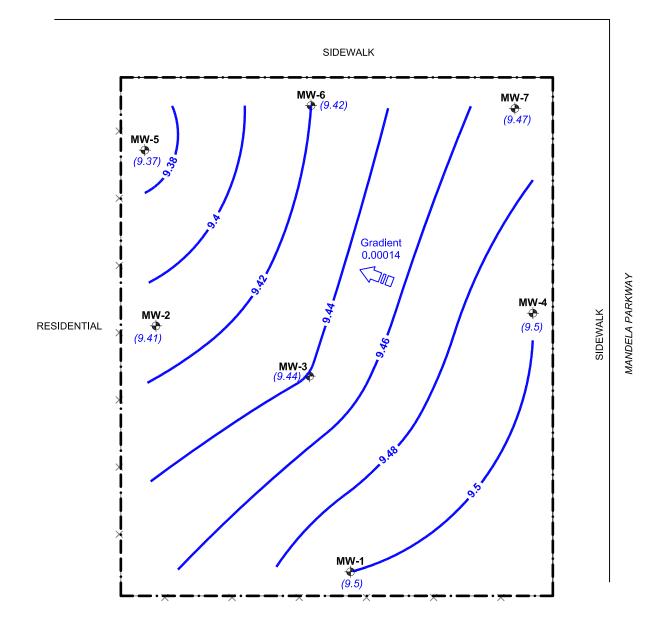
Impact Environmental Services 39120 Aronaut Way, Suite 223 Fremont, CA 94538 Figure 1 1409 to 1417 12TH STREET OAKLAND, CALIFORNIA

SITE LOCATION MAP

Impact Environmental Services 39120 Aronaut Way, Suite 223 Fremont, CA 94538 Figure 2 1409 to 1417 12TH STREET OAKLAND, CALIFORNIA

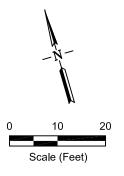
SITE PLAN

12TH STREET



EXPLANATION:

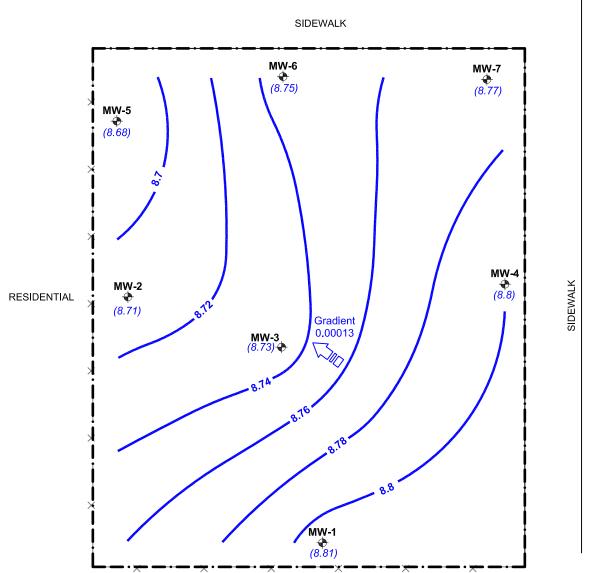
Approximate Property Boundary
 MW-1 → Monitoring Well Location
 9.48 — Groundwater Elevation Contour (ft.-MSL)
 (9.5) Groundwater Elevation (ft.-MSL);
 Groundwater Gradient



Impact Environmental Services 39120 Aronaut Way, Suite 223 Fremont, CA 94538 Figure 3 1409 to 1417 12TH STREET OAKLAND, CALIFORNIA

GROUNDWATER CONTOUR MAP (JULY 2008)

12TH STREET



MANDELA PARKWAY

EXPLANATION:

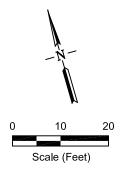
Approximate Property Boundary

Mw-1 → Monitoring Well Location

8.78 — Groundwater Elevation Contour (ft.-MSL)

(8.81) Groundwater Elevation (ft.-MSL);

Groundwater Gradient



Impact Environmental Services 39120 Aronaut Way, Suite 223 Fremont, CA 94538 Figure 4

1409 to 1417 12TH STREET OAKLAND, CALIFORNIA

GROUNDWATER CONTOUR MAP (OCTOBER 2008)

Impact Environmental Services 39120 Aronaut Way, Suite 223 Fremont, CA 94538

Figure 5 1409 to 1417 12TH STREET OAKLAND, CALIFORNIA

TPHg IN GROUNDWATER (JULY 2008)

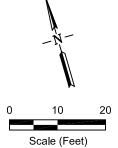
Impact Environmental Services 39120 Aronaut Way, Suite 223 Fremont, CA 94538

Figure 5 1409 to 1417 12TH STREET OAKLAND, CALIFORNIA

TPHg IN GROUNDWATER (JULY 2008)

Monitoring Well Location MW-8 🕀

Benzene Results in micrograms per liter (ug/L) (3,360)



Impact Environmental Services 39120 Aronaut Way, Suite 223 Fremont, CA 94538

C:Work/EnviroCAD/IES\1409-1417 12th Street\3-4Q-08 GW Mon RptlFigure 3-8.dwg Layout: Fig 6 - Benzene GW-7-08 Dec 12, 2010 - 7:20pm

Figure 6

1409 to 1417 12TH STREET OAKLAND, CALIFORNIA

BENZENE IN GROUNDWATER (JULY 2008)

Impact Environmental Services 39120 Aronaut Way, Suite 223 Fremont, CA 94538

TPHg Results in micrograms per liter (ug/L)

(7,200)

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

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Figure 8 1409 to 1417 12TH STREET OAKLAND, CALIFORNIA

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

WELL GAUGING DATA

Project Number_	[Date	April 5, 2008	
Site Location	1409- 1417 12 th Street, Oakland, Cal	ifornia_	· · · · · · · · · · · · · · · · · · ·	

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	13.99					
MW-8		2"	11.29	27.65					
GW-1		4"	10.81	17.11					Measure Last*
GW-2		4"	11.10	17.11					
GW-3		A''	11.12	18.08					Measure Last*

Project Nu Well Num	iect Name: 1409 12th Street, OAKLAND, CA 1409_QGWM Number: 1409_12th Street, OAKLAND, CA 1409_QGWM MW 1409_12th Street, OAKLAND				- - CA	Date: Sampler: Weather:	July 27, 2008			
Well Cons	struction				Sampling E	quipment &	Cleaning			
Diameter:	th of Well:	2"			Sampler Ty Method of 0 Pump/Baile Method of 0 pH Meter:	Cleaning: or Type:	Suction Pump Alconox and D.I. Water Suction Pump Alconox and D.I. Water HANNA			
Initial: Final: Reference	Point: BI	ack Mark on To	op of Casing			-				
			P	URGE ME.	ASUREMEN	NTS				
Time	Discharge (gal.) Per Time Cumulative Period start 3		pH U.92 L.50	Temp (CB) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	Spec. Cc Spec.	Dissolved Oxygen	Color/ Solved Turbidity C			
				/						
	lumes Remov	ed:			Comments:					
					GRO	DUNDWATI	ER SAMPLING DATA S	неет		
IM	PACT F	ENVIRO	NMENT	AL		1409 12th ect No. QGWM	Street, Oakland, California Date JULY 27, 2008	Well		

Project Na Project No Well Num Well Loca	umber: $\frac{14}{\text{M}}$	09 12th Street, 09_QGWM NW - Z 1409 12	OAKLAND 2th Street, O		Date: July 27, 2008 Sampler: Weather:					
Well Cons	struction				Sampling E	Equipment &	Cleanin	g		
Diameter	th of Well:				Sampler Type: Method of Cleaning: Pump/Bailer Type: Method of Cleaning: Method of Cleaning: Method of Cleaning: PH Meter: Method of Cleaning: Alconox and D.I. HANNA			ox and D.I. Water in Pump ox and D.I. Water NA		
Ground W	ater Levels:				Conductivity Comments:		HANN			
						0.163 gallons				
Initial:	11.26				4" Well = 0	0.653 gallons	per foot			
	Point: Blume of Water:	ack Mark on To								
			P	URGE ME	ASUREME	NTS				
Time	Discharge		"II	Temp	Spec. Conductance (mmhos/cm) Spec. Conductance (mmhos/cm) Special Dissolved		Color/	Odor		
Time	Per Time Period		pН	°C	rield	Dissolved Oxygen	Turbidity (NTU)		Odor	
	start		7.18	20.6	665				NO	
	3		6.94	21.5	617				No	
						"				
	lumes Remov	ed:			Comments:					
					GRO	OUNDWAT	ER SAN	IPLING DATA	SHEET	
IM	PACT E	NVIRON	IMENT	AL		1409 12th	Street, (Dakland, Californ	ia	
						ect No.		Date	Well	
					1409	QGWM	Л	JLY 27, 2008		

Project Number: Well Number: Well Location: Well Construction Date Completed: Total Depth of Well: Well Elevation and Reference: Well Elevation and Reference: Diameter: Diameter: Diameter: Diameter: Diameter: Diameter: Diameter: Diameter: Well Elevation and Reference: Method of Cleaning: Diameter: Diameter: Diameter: Well Elevation and Reference: Method of Cleaning: Diameter: Diameter: Diameter: Diameter: Diameter: Well Elevation and Reference: Method of Cleaning: Diameter: Diameter:	Project Na	ame:	1409 12th Street,	OAKLAND	, CA		Date:	July 27, 2008		
Well Number: Well Location: Well Construction Date Completed: Total Depth of Well: LU.72 Method of Cleaning: PUMP/Baller Type: Method of Cleaning: PH Meter: PH Manna Conductivity Meter: Conductivity Meter: Conductivity Meter: Period Well = 0.653 gallons per foot Time Period Discharge (gal.) Per Time Period Start Purgle MEASUREMENTS PURGE MEASUREMENTS ALC		-					Sampler:			
Well Location:		_	MW-3			_				
Date Completed: Total Depth of Well: U.72	Well Loca	ition:		2th Street, O	AKLAND,	CA				
Total Depth of Well: U.72 Method of Cleaning: Pump/Bailer Type: Suction Pump Method of Cleaning: Pump/Bailer Type: Suction Pump Method of Cleaning: PH Met	Well Cons	struction				Sampling E	Equipment &	Cleaning		
Method of Cleaning: Alconox and D.I. Water Diameter: 7.5 Pump/Bailer Type: Suction Pump Method of Cleaning: pH Meter: HANNA	Date Com	pleted:				Sampler Ty	/pe:	Suction Pump		
Diameter: Pump/Bailer Type: Suction Pump			14.72							
PH Meter: HANNA HANNA Conductivity Meter: Comments: 2" Well = 0.163 gallons per foot 4" Well = 0.653 gallon		_	2"							
Conductivity Meter: HANNA	Well Eleva	ation and R	eference:			Method of	Cleaning:	Alconox and D.I. Water		
Comments:						pH Meter:		HANNA		
Comments:						Conductivi	ty Meter:	HANNA		
1	Ground W	ater Levels					-			
Final: Reference Point: Black Mark on Top of Casing Well Volume of Water: PURGE MEASUREMENTS PURGE MEASUREMENTS Per Time Per Time Cumulative PH C Field Dissolved Oxygen (NTU) start 7.20 21.3 937 NO 3 17.22 21.1 967 NO Total Discharge: Comments: Casing Volumes Removed: Method of Disposal: GROUNDWATER SAMPLING DATA SHEET						2" Well = 0	0.163 gallons	per foot		
Final: Reference Point: Black Mark on Top of Casing Well Volume of Water: PURGE MEASUREMENTS PURGE MEASUREMENTS Per Time Per Time Cumulative PH C Field Dissolved Oxygen (NTU) start 7.20 21.3 937 NO 3 17.22 21.1 967 NO Total Discharge: Comments: Casing Volumes Removed: Method of Disposal: GROUNDWATER SAMPLING DATA SHEET	Initial:	11.45				4" Well = 0	0.653 gallons	per foot		
Well Volume of Water: Purge Measurements										
## Purge Measurements Discharge (gal.)	Reference	Point:	Black Mark on To	op of Casing						
Time Per Time Cumulative PH CH C Period Period Pariod Period Peri	Well Volu	-								
Time Per Time Cumulative PH CH C Period Period Pariod Period Peri										
Total Discharge: Casing Volumes Removed: Mer Time Per Time Per Time Per Time Per Time Period Perio				P	URGE ME					
Period C Oxygen (NTU)		Disc	harge (gal.)		(P)			Color/		
Total Discharge: Comments: Casing Volumes Removed: Method of Disposal: GROUNDWATER SAMPLING DATA SHEET	Time		Time Cumulative	рН					Odor	
Total Discharge: Comments: Casing Volumes Removed: Method of Disposal: GROUNDWATER SAMPLING DATA SHEET		start		7.20	21.3	9:37			NO	
Total Discharge: Comments: Casing Volumes Removed: Method of Disposal: GROUNDWATER SAMPLING DATA SHEET		3			21.1				NO	
Total Discharge:										
Casing Volumes Removed: Method of Disposal: GROUNDWATER SAMPLING DATA SHEET						100				
Casing Volumes Removed: Method of Disposal: GROUNDWATER SAMPLING DATA SHEET									Page 20 To 10 To 1	
Casing Volumes Removed: Method of Disposal: GROUNDWATER SAMPLING DATA SHEET			_				-			
Casing Volumes Removed: Method of Disposal: GROUNDWATER SAMPLING DATA SHEET										
Casing Volumes Removed: Method of Disposal: GROUNDWATER SAMPLING DATA SHEET					1					
Casing Volumes Removed: Method of Disposal: GROUNDWATER SAMPLING DATA SHEET										
	Casing Vol	lumes Remo	oved:			-				
					-	CD	OUNDWAT	ED CAMDI INC DATA	SHEET	
	TAT	DACT	ENVIDA	IMPRIT	CAT	GRO				
	IIVI	PACI	ENVIRO	JIMIEN I	AL	n. ·				
Project No. Date Well 1409_QGWM JULY 27, 2008									well	

Project Na Project Nu Well Num Well Loca	Number: 1409_QGWM Imber: 1409_12th Street, OAKLANI 1409_12th Street, OAKLANI				- - CA	Date: Sampler: Weather:	July 27, 2008	
Well Cons	struction				Sampling I	Equipment &	Cleaning	
Diameter:	th of Well:	2"			Sampler Ty Method of Pump/Baild Method of pH Meter:	Cleaning: er Type:	Suction Pump Alconox and D.I. Water Suction Pump Alconox and D.I. Water HANNA	
	/ater Levels:				Conductivi Comments 2" Well = 0		HANNA per foot	
Final: Reference Well Volu	Point: B	ack Mark on To	op of Casing					
			P	URGE ME	ASUREME	NTS	4	
Time	Disch Per Time Period	arge (gal.) Cumulative	pН	Temp (%)	Spec. Co	Dissolved Oxygen	Color/ Turbidity (NTU)	Odor
	start 3	/	6.98 7.21	21.5	591	Oxygen	(112)	
	lumes Remov	red:			Comments:			
Y N #	DACTI		INCONT	7 A F	GR		ER SAMPLING DATA S	
	PACTI	ENVIRO	NMENT	AL		1409 12th ect No.	Street, Oakland, California Date JULY 27, 2008	Well

Project Na	ame: 14	09 12th Street,	OAKLAND	, CA		Date:	July 27, 2008		
Project Nu	_	09_QGWM				Sampler:			
Well Num	ber:	MW-5				Weather:			
Well Loca			2th Street, O.	AKLAND, (CA				
Well Cons	struction				Sampling I	Equipment &	Cleaning		
Date Com	pleted:	3			Sampler Ty	vpe:	Suction Pump		
	th of Well:	3.49			Method of				
Diameter:		24			Method of Cleaning: Alconox and D.I. Water Pump/Bailer Type: Suction Pump				
	ation and Refe	erence:			Method of Cleaning: Alconox and D.I. Water				
					pH Meter:	8	HANNA		
					Conductivi	tv Meter:	HANNA		
Ground W	ater Levels:				Comments			7.7	
0.000.00						0.163 gallons	per foot		
Initial:	10.48					0.653 gallons			
Final:	10.00					8			
Reference	Point: B1	ack Mark on To	op of Casing						
	me of Water:		F						
			P			onductance			
		arge (gal.)	Temp			hos/em)	Color/		
Time	Per Time	Cumulative	pН	(°P)	Field	Dissolved	Turbidity	Odor	
	Period	-			201	Oxygen	(NTU)	4.16	
	start		7.14	22.0	924			No	
	3		6.75	22.6	1145			NO	
				-					
								THE RESIDEN	
	110 110								
		7						177724	
Total Disc	harge:				Comments:				
		ed:			•				
		ed							
viculou of	Disposai.								
					GR	OUNDWAT	ER SAMPLING DATA S	SHEET	
INA	DACTE	NVIDAN	IMENIT	TAT	- GR				
1171	FACIE	ENVIRO	AIATE/IA I	AL	D!		Street, Oakland, California Date		
						ogwm	JULY 27, 2008	Well	

Project Na	_	409 12th Street,	OAKLANI	O, CA	_	Date:	July 27, 2008	
Project No	_	409_QGWM_			_	Sampler:		
Well Num	_	MM-A			_	Weather:		
Well Loca	ation:	1409 1	2th Street, C	AKLAND,	CA			
Well Cons	struction				Sampling I	Equipment &	Cleaning	
Date Com	pleted:				_Sampler Ty	ype:	Suction Pump	
Total Dep	oth of Well:_	19.40			Method of	Cleaning:	Alconox and D.I. Water	
Diameter:		2"			Pump/Baile	er Type:	Suction Pump	
Well Elev	ation and Re	ference:			_Method of	Cleaning:	Alconox and D.I. Water	
					pH Meter:		HANNA	
					Conductivi	ity Meter:	HANNA	
Ground W	later Levels:				Comments	1		
					2'' Well = (0.163 gallons	per foot	
Initial:	10.25)			4" Well = (0.653 gallons	per foot	
Final:								
Reference	Point: E	lack Mark on T	op of Casing	5				
Well Volu	ime of Water	:						
			P	PURGE ME	ASUREME	NTS		
	Discl	narge (gal.)		Temp	Spec. C			
Time	Per Time	Cumulative	pН	(°P)	Field	Dissolved	Turbidity	Odor
	Period			°C		Oxygen	(NTU)	
	start		7.18	221	681			
	3		7.19	014	494			
				71.1	0 10			
	-	+		-		-		
A								
Total Disc	harge:				Comments:			
		ved:						
					GR	OUNDWAT	ER SAMPLING DATA S	HEET
IM	PACT	ENVIRO	NMEN	ΓAL		1409 12th	Street, Oakland, California	
				Transaction of the second	Proje	ect No.	Date	Well
						QGWM	JULY 27, 2008	

Project Na	_	1409 12th Street, OAKLAND, CA 1409_QGWM 1409 12th Street, OAKLAND, C				Date:	July 27, 2008			
Project Nu Well Num						Sampler: Weather:				
Well Loca						weather:				
Well Loca		1407 12	till Street, Oz	IKLAND, C						
Well Construction						Sampling Equipment & Cleaning				
Date Completed:						er Type: Suction Pump				
Total Dep	th of Well:	13.95			Method of	_	Alconox and D.I. Water			
Diameter:		2"			Pump/Baile	er Type:	Suction Pump			
Well Elev	ation and Refe	erence:			Method of	Cleaning:	Alconox and D.I. Water			
					pH Meter:	Meter: HANNA				
					Conductivi	ty Meter:	HANNA			
Ground W	ater Levels:				Comments:	:				
					2" Well = 0.163 gallons per foot					
Initial:	10.91				4" Well = 0.653 gallons per foot					
Final:			· ·							
Reference		ack Mark on To	p of Casing							
Well Volu	ime of Water:									
			PU	URGE MEA	ASUREME	NTS				
	Discha	rge (gal.)	(gal.) Cumulative pH	Temp	Spec. Conductance (mmhos/em)		Color/			
Time	Per Time Period	Cumulative			Field	Dissolved Oxygen	Turbidity (NTU)	Odor		
	start		7.32	22.5	600			OEW		
	3		7.27	21.8	593			ND		
					1.13			100		
		-								
Total Disc					Comments:					
		ed:								
Method of	Disposal:									
					GR	OUNDWATI	ER SAMPLING DATA S	SHEET		
IM	PACTE	NVIRON	IMENT	AI.	1409 12th Street, Oakland, California					
1141	IACIE		TATELY I	AL	Project No.		Date	Well		
						QGWM	JULY 27, 2008			

Project Nu Well Num	Project Name: 1409 12th Street, OAKLAND, CA Project Number: 1409_QGWM Well Number: 1409 12th Street, OAKLAND, CA 1409_QGWM 1409_12th Street, OAKLAND, CA			- - CA	Date: Sampler: Weather:	July 27, 2008			
Well Cons	struction				Sampling E	Equipment &	Cleaning		
Diameter:	th of Well:	L"			Sampler Ty Method of Pump/Baile Method of pH Meter:	Cleaning: er Type: Cleaning:	Suction Pump Alconox and D.I. Water Suction Pump Alconox and D.I. Water HANNA		
	ater Levels:				Conductivity Meter: HANNA Comments: 2" Well = 0.163 gallons per foot 4" Well = 0.653 gallons per foot				
Final: Reference	Point: Blaume of Water:	ack Mark on To	op of Casing			Sullolls	per root		
			P	URGE ME	ASUREME	NTS			
Time	Discha Per Time Period	rge (gal.) Cumulative	pН	Temp (P)	Spec. Conductance (mmhos/cm) Field Dissolved Oxygen		Color/ Turbidity (NTU)	Odor	
	start		1.51	20.1	578	01,78011	(1.20)	Ves	
	4		7.39	21.0	473			tes	
	9		7.03	217	407			yes	
	12		6-99	21.5	598			yes	
	lumes Remove	ed:							
					GR	OUNDWAT	ER SAMPLING DATA	SHEET	
IM	PACT E	NVIRO	NMEN	ΓAL		1409 12th	Street, Oakland, Californi	a	
						ect No.	Date	Well	
					1409	OGWM	ILILY 27 2008		

Project Na	ame:	1409 12th Street,	, OAKLAND	, CA	Date: July 27, 2008				
Project Nu	ject Number: 1409_QGWM					Sampler:			
Well Num	nber:	GW-1				Weather:			
Well Loca	ation:		2th Street, O	AKLAND,	CA				
Well Cons	struction				Sampling E	Equipment &	Cleaning		
Date Com	pleted:				Sampler Ty	/pe:	Suction Pump		
Total Depth of Well: \7 - \(Method of	Method of Cleaning: Alconox and D.I. Water			
Diameter:		21"			Pump/Baile	Pump/Bailer Type: Suction Pump			
Well Elev	ation and R	eference:			Method of	Cleaning:	Alconox and D.I. Water		
					pH Meter:		HANNA		
					Conductivi	ty Meter:	HANNA		
Ground W	ater Levels	<u>:</u>			Comments:				
					2" Well = 0.163 gallons per foot				
Initial:	10.8	1				0.653 gallons			
Final:									
Reference	Point:	Black Mark on T	op of Casing						
Well Volu	ime of Wate								
	Dis	scharge (gal.) Tem			Spec. Co	onductance	Color/		
Time	Per Time		pН	(°P)	Field	Dissolved	Turbidity	Odor	
	Period			oc		Oxygen	(NTU)		
1	start		6.66	74.8	1525			ves	
	7		10.02	21.7	1441			ues	
	14		1.61	22.1	1400			105	
	21		4.03	21.9	1420			yes	
	1	-	0.05	LIT	1420			963	
				-	-			U	
				-	-				
				4-1-1					
Total Disc	_				Comments:				
		oved:							
Method of	Disposal:								
					CDA	OUNDWAT	ED CAMPI INC DATA	CHEET	
TNA		ENVIDA		DAT	GRO		ER SAMPLING DATA		
IIVI	PACT	ENVIRO	NIVIENT	AL		1409 12th Street, Oakland, California			
						ect No.	Date	Well	
					1409	QGWM	JULY 27, 2008	1	

Project Na	me: 14	09 12th Street,	OAKLAND	, CA		Date:	July 27, 2008			
Project Nu		09_QGWM				Sampler:				
Well Num	_	JW-2				Weather:				
Well Loca			2th Street, O.	AKLAND, O	CA					
Well Cons	struction				Sampling Equipment & Cleaning					
Date Comp	pleted:				Sampler Ty	pe:	Suction Pump			
	th of Well:	17.11			Method of C		Alconox and D.I. Wate	r		
Diameter:		U"			Pump/Bailer Type: Suction Pump					
	ation and Refe	erence:			Method of C		Alconox and D.I. Wate	r		
					pH Meter:		HANNA			
					Conductivit	y Meter:	HANNA			
round W	ater Levels:				Comments:					
					2" Well = 0.	.163 gallons	per foot			
nitial:	11.16				4" Well = 0.	.653 gallons	per foot			
inal:										
Reference	Point: Bla	ack Mark on To	op of Casing							
Vell Volu	me of Water:									
			P	URGE ME	ASUREMEN					
	Discha	rge (gal.)		Temp	Spec. Conductance (mmhos/cm)		Color/			
Time	Per Time Period	Cumulative	рН	(F)	Field	Dissolved Oxygen	Turbidity (NTU)	Odor		
	start		6.91	20.3	1368			Ves		
	9		4.77	21.2	12.53			yes		
	14		V-13	21.3	1185			ves		
	21		6.67	715	1181			yes		
	25			21-1			The last transfer	40		
	45	-	6.69	21-1	1102			NO		
					Comment					
otal Disch		ad:			Comments:					
	lumes Remove									
emod of	Disposar:									
					GRO	DUNDWAT	ER SAMPLING DATA	SHEET		
IM	PACTE	NVIRON	MENT	TAT	- ORC					
1141	IACIE	ATTINO	AIVI DIA I	AL	Duo!		Street, Oakland, Californ	Well		

1409_QGWM

JULY 27, 2008

Project Na		09 12th Street, 09 QGWM	OAKLAND	, CA	_	Date: Sampler:	July 27, 2008	-
Well Num		1W-3			-	Weather:		
Well Loca			2th Street, O	AKLAND,	CA			
Well Cons	struction				Sampling E	quipment &	Cleaning	
Date Com	pleted:				Sampler Ty	pe:	Suction Pump	
	th of Well:	8.08			Method of Cleaning: Alconox and D.I. Water			
Diameter:	The state of the s	4"			- Pump/Baile	_	Suction Pump	
	ation and Refe	erence:			Method of (• •	Alconox and D.I. Water	r
					pH Meter:		HANNA	
					Conductivit	y Meter:	HANNA	
Ground W	ater Levels:				Comments:			
					2" Well = 0	.163 gallons	per foot	
Initial:	11.12					.653 gallons		
Final:								
Reference	Point: Bl	ack Mark on To	op of Casing					
Well Volu	ime of Water:							
			P			onductance		
		arge (gal.)		Temp		nos/cm) U	Color/	
Time	Per Time Period	Cumulative	pН	(PF)	Field	Dissolved Oxygen	Turbidity (NTU)	Odor
	start		6.82	21.2	1169			Yes
	3		6.93	21.2	1044			yes
	14		10-43	21.4	939			YES
	4		6.90	22.1	854			126
				00.			7.2.1.	1
	- 2						1	
	lumes Remov	ed:						
					GRO	DUNDWAT	ER SAMPLING DATA	SHEET
\mathbf{IM}	PACT F	ENVIRO	IMENT	AL		1409 12th	Street, Oakland, Californ	ia
					Proje	ct No.	Date	Well
					1409 (QGWM	JULY 27, 2008	

WELL GAUGING DATA

Project Number	THOMPSON	PROPERTY	_ Date	OCTOBER 25, 2008	
Site Location	1409- 1417 1	2 th Street, Oakland	, California		

Well ID	Time	Well Size (inches)	Depth to	Depth to Well	Sheer Odor	Depth to Immiscible	Thickness Immiscible	Survey Point	Notes:
			Water	Bottom		Liquid	Liquid		
MW-1	8:20	2	12.68			NIA	NIA	BLACK CK	25120
MW-2	8:25	2	11.90			NIA		1	
MW-3	8:27	2	12.36			NIA			
MW-4	8:34	2	11,55			N/A			
MW-5	8:40	2	11.37			NIA			
MW-6	8144	2	10.92			NIA			
MW-7	8:52	2	11.11			NIA			
MW-8	91.05	2	12.00		Yes	NIA			
GW-1	91.10	4	12.51		Yes	NIA			Measure Last*
GW-2	8:55	+	11,82			NA			
GW-3	9:03	4	11.92			NJA	>		Measure Last*

Project Na	ame: 1	409 12th Street,	OAKLAND,	CA		Date:	October 25, 200)8		
roject Nu	ımber: 1	409_QGWM				Sampler:				
Well Num	_	1				Weather:				
Well Loca	t Number: Number: Number: Number: Number: Nocation: Construction Completed: Depth of Well: Iter: Clevation and Reference: Clevation and Reference: Discharge (gal.) Per Time Cumulative Period Start O O Signharge: Construction Completed: Discharge (gal.) Per Time Cumulative Period Start O O O O O O O O O O O O O	2th Street, OA	KLAND, C	CA	-					
Well Cons	struction				Sampling Eq	quipment &	Cleaning			
Date Comp	pleted:				Sampler Typ	e:	Suction Pump			
	-				Method of C		Alconox and D.	I. Water		
Diameter:					Pump/Bailer Type: Suction Pump					
Well Eleva	ation and Re	ference:			Method of C	I. Water				
T 4 8					pH Meter: HANNA					
					Conductivity	Meter:	HANNA			
Ground Wa	ater Levels:				Comments:					
					2" Well = 0.					
nitial:					4" Well = 0.0	653 gallons	per foot			
Final:										
Reference	Point: B	lack Mark on T	op of Casing							
Well Volu	me of Water								TARTE	
				Temp	Spec. Cor (mmho	os/cm)	Color/		Odor	
Time		Cumulative	pH _	F	Field	Dissolved Oxygen	Turbidity (NTU)	1	Odor	
	start	0	6.66	2014	1139	1				
TRI		0.5	6,80	20.5	1038					
		1,0 d	6.76	800	1047					
			6.82							
			6.73	2604	1004					
		210	01.0	200	190					
4										
otal Dia-l	haras				Commente					
	_				Comments:			-		
_	Disposal:									
retnod of	Disposai:									
					GRO	UNDWAT	ER SAMPLING	DATA SE	IEET	
IM	PACT	ENVIRO	NMENT	AI.			Street, Oakland, O			
ALVA.			, , , , , , , , , , , , , , , , , , ,	~~~	Projec		Date	- International	Well	
						CWM	OCTOBER	2000	Mar-	

Project Na	me:	409 12th Street,	OAKLAND	, CA		Date:	October 25, 2008	
roject Nu	mber:	409_QGWM				Sampler:		
Vell Num!	ber:	incl	1-2			Weather:		
ell Locat	ect Number: 1409_QGW Number: // Location: 14 Construction Completed: 1 Depth of Well: 1 Depth of Water Levels: 1 Discharge (gal.)		2th Street, O.	AKLAND, O	CA			
ell Cons	truction				Sampling E	quipment &	Cleaning	
ate Comp	oleted:				Sampler Ty	pe:	Suction Pump	
otal Dept	h of Well:				Method of	Cleaning:	Alconox and D.I. Wate	r
iameter:					Pump/Baile	er Type:	Suction Pump	
ell Eleva	tion and Re	ference:			Method of	Cleaning:	Alconox and D.I. Wate	r
					pH Meter: HANNA			
					Conductivit	y Meter:	HANNA	
round Wa	ater Levels:		/		Comments:			
					2" Well = 0	.163 gallons	per foot	
itial:						.653 gallons		
nal:								
eference l	Point: E	Black Mark on To	op of Casing					
ell Volur	me of Water	:						
			113					
	Disc	harge (gal.)		Temp		onductance nos/cm)	Color/	
Time	Per Time	Cumulative	рН	(°F)	Field	Dissolved Oxygen	Turbidity (NTU)	Odor
	start	6	674	21.1	569			
NTA V	TOTAL	0.5	6.92	21.8	634			
THE PARTY		1.0 d	6.71	22./	614			
		1.5	6.74	21.7	613			1
		20	678	22,5	5-87			Maria .
TO. 1	-	7.0	0.0	Harv	0 , /			
		The same of the sa						
		-						
otal Disch	narge:				Comments:			
		ved:				-		
	Disposal:							
ciliod of	Disposai.	17 19 9						
AND T	A 1				GRO	DUNDWAT	ER SAMPLING DATA	SHEET
IM	PACT	ENVIRO	MENT	TAL			Street, Oakland, Californ	
					Proje	ect No.	Date	Well

1409_QGWM

OCTOBER 2008

Project Na	-		OAKLAND	, CA	_	Date:	October 25, 2008		
roject Nu	-				-	Sampler:			
Vell Num					_	Weather:			
Vell Loca	tion:	1409 12	2th Street, O	AKLAND, (CA				
ell Cons	Discharge (gal.) Per Time Cumulative Period start 6 7-07 7 1-0 d 6-91 1-0 d 6-91 1-0 d 6-91 1-0 d 6-91 1-5 7-07 1-0 d 6-91 1-5 7-09 1-0 d 6-91			Sampling I	Equipment &	Cleaning			
ate Comp	oleted:				Sampler Ty	ype:	Suction Pump		
- 10	h of Well:				Method of Cleaning: Alconox and D.I. Water				
iameter:					Pump/Bailer Type: Suction Pump				
ell Eleva	tion and Refe	rence:			Method of	Cleaning:	Alconox and D.I. Water	er	
					pH Meter:		HANNA		
				17.7	Conductivi	ty Meter:	HANNA		
round Wa	ater Levels:				Comments	:			
					2" Well = (0.163 gallons	per foot		
itial:						0.653 gallons			
nal:									
eference	Point: Bla	ck Mark on To	op of Casing						
ell Volu	me of Water:								
			Pl	URGE ME.	ASUREME	NTS	4		
30.					Spec. Conductance			MATE AT	
Vike				Temp		hos/cm)	Color/		
Time		Cumulative	рН	(X)	Field	Dissolved Oxygen	Turbidity (NTU)	Odor	
1:43		6	1.04	21.6	795				
1:52		0.5	7-07	22-1	854				
2:43		1.0 d		23.2	864				
1:20				24.2	844		The same of the		
3:33		-		22.8	809				
7 0 1	- 60	2.0	1.00	00.0	101				
				A					
							1		
			×						
tal Disch	aaraa:				Comments:				
		-d·	7 145.7	200	- Comments.				
	The state of the s		Law year			-			
cuiod of	Disposai.								
			178		GR	OUNDWATI	ER SAMPLING DATA	SHEET	
IM	PACTE	NVIRON	MENT	TAT			Street, Oakland, Californ		
ALVA.	MOIL	TATINOI	ATANTALIA T	AL	Proje	ect No.	Date	Well	
						QGWM	OCTOBER 2008	MW-	
							00.000		

oject Name:	: 14	09 12th Street,	OAKLAND,	CA		Date:	October 25, 2008			
oject Numbe	per: 14	09_QGWM				Sampler:				
ell Number:	Number: 1409_QGWM umber: 1409 construction ompleted: eepth of Well: eer: evation and Reference: Water Levels: Discharge (gal.) Per Time Cumulative Period start O	MW 5			Weather:					
ell Location	n:	1409 12	2th Street, OA	KLAND, O	CA		Suction Pump Alconox and D.I. Water Suction Pump Alconox and D.I. Water HANNA HANNA er foot er foot Color/ Turbidity (NTU)			
ell Construc	ction				Sampling Ed	quipment &	Cleaning			
te Complete	ted:				Sampler Typ	oe:	Suction Pump			
					-	Method of Cleaning: Alconox and D.I. Water				
ameter:					Pump/Bailer					
ell Elevation	n and Refe	rence:			Method of C	leaning:	Alconox and D.I. Water	er		
					pH Meter:		HANNA			
					Conductivity	y Meter:	HANNA			
ound Water	r Levels:				Comments:					
					2" Well = 0 .	163 gallons	per foot			
tial:					4" Well = 0.	653 gallons	per foot			
nal:										
ference Poin	int: Bla	ick Mark on To	op of Casing							
ell Volume	of Water:									
			PU	JRGE MEA	ASUREMEN	TS				
						nductance				
_				Temp		os/cm)				
Time 1		Cumulative	рН	TF)	Field	Dissolved Oxygen		Odor		
	start	0	6.88	21.5	1025					
		0.5	6.83	2/14	1050					
			6.76		160					
1 - 100			6.69	22.(1156					
					1107					
		2.0	6165	231	1101					
al Discharg					Comments:					
		ed:								
thod of Dis										
	sposal:									
	sposal:			19546 1951	ana	TIMIPANIA PO	ED CAMPI INO DATA	CHEER		
TREE		AUTUROS	A Maria Year	AT	GRO		ER SAMPLING DATA			
IMPA		NVIRON	NMENT	AL	GRO	1409 12th	ER SAMPLING DATA Street, Oakland, Californ Date			
	sposal:									

Project Nar	ne: <u>14</u>	09 12th Street,	OAKLAND	, CA	9	Date:	October 25, 2008				
Project Nur	mber: 14	09_QGWM				Sampler:					
Well Numb	er:	1(1)-4				Weather:	90				
Well Locat	ion:	1409 1	2th Street, O.	AKLAND, O	D, CA						
Well Const	mber: 1409 QGWM				Sampling E	quipment &	Cleaning				
Date Comp	leted:				Sampler Ty	pe:	Suction Pump				
Total Depth	of Well:				Method of Cleaning: Alconox and D.I. Water						
Diameter:					Pump/Bailer Type: Suction Pump						
Vell Elevat	tion and Refe	erence:			Method of Cleaning: Alconox and D.I. Water						
					pH Meter:		HANNA				
	The second live of				Conductivit	y Meter:	HANNA	falsal state in			
Ground Wa	ter Levels:				Comments:						
					2" Well = 0	.163 gallons	per foot				
nitial:					4" Well = 0	.653 gallons	per foot				
inal:											
Reference F	Point: Bla	ack Mark on To	op of Casing								
Well Volun	ne of Water:										
					N. L.						
	Discha	rge (gal.)		Temp		onductance nos/cm)	Color/				
Time			pН	CP	Field	Dissolved	Turbidity	Odor			
	Period			°C		Oxygen	(NTU)				
12:17	start	0	6-82	23.1	608	in the					
12:29			7.00	23.2	653						
12:36		1.0 d	7.62	23-4	652						
12:59		1.5	6.93	23.7	653	85.					
1:09		12.0		24.1	648	101					
,	5,070				2	110					
2 1											
					2.1						
otal Disch	aroe:				Comments:						
	57.0				·	-					
1ethod of I											
					GRO	DUNDWAT	ER SAMPLING DATA	SHEET			
IMI	PACT E	NVIRO	NMENT	CAL		1409 12th	Street, Oakland, Californi	ia			
			4			ct No.	Date	Well			
			100	~	1400 (OGWM	OCTORER 2008	1//////////////////////////////////////			

Project Name	e: 14	409 12th Street,	OAKLAND	O, CA		Date:	October 25, 2008			
roject Num	ber: 14	409_QGWM				Sampler:				
ell Numbe	Number: 1409_QGWM fumber: 1409_In the street ocation: 1409 12th Street, on the street ocation: 1409 12th Street, on the street ocation of the street ocation and Reference: I Water Levels: I Water Levels: Discharge (gal.)			Weather:						
ell Locatio		1409 1	2th Street, O	AKLAND,	O, CA					
ell Constru	uction				Sampling E	Equipment &	Cleaning			
ate Comple	eted:				Sampler Ty	pe:	Suction Pump			
otal Depth	of Well:				Method of	Cleaning:	Alconox and D.I. Wat	er		
iameter:					Pump/Bailer Type: Suction Pump					
ell Elevation	on and Ref	erence:			Method of Cleaning: Alconox and D.I. Water			er		
					pH Meter: HANNA					
					Conductivi	ty Meter:	HANNA			
round Wate	er Levels:				Comments:					
						0.163 gallons	per foot			
itial:						0.653 gallons				
nal:						<u> </u>				
eference Po	oint: B	lack Mark on To	op of Casing							
			,							
			P	URGE ME	ASUREMEN	NTS				
				T T		14/2				
	D: 1	(1)		T.	Spec. Conductance (mmhos/cm)		0.1.7			
Time				Temp (°F)	Field	Dissolved	Color/ Turbidity	Odor		
Time		Cullinative	pri	(1)	ricid	Oxygen	(NTU)	Odol		
		6	711	7167	100	Oxygen	(110)			
	Start	100	6.00	21/2	727					
-			1111	272	730					
1020		1.0	700	23,5	158					
		1.5	698	24,7	733	10 7 7				
		20	6.97	24.6	738					
			0		4					
		The Market	-	THE REAL PROPERTY.	10 - O	1				
-										
ntal Dischar	roe.				Comments					
	_									
					GRO	DUNDWAT	ER SAMPLING DATA	SHEET		
IMP.	ACT I	ENVIRO	MENT	IAL			Street, Oakland, Califor			
						ect No.	Date	Well		
					1409	OGWM	OCTOBER 2008	Mas		

Project Nar	me: 14	09 12th Street,	OAKLAND,	CA		Date:	October 25, 2008	
Project Nur	mber: 14	09_QGWM				Sampler:		
Vell Numb	er:	NW7				Weather:		
Vell Locat	ion:		th Street, OA	AKLAND, C	CA			
ell Const	ruction				Sampling Ed	quipment &	Cleaning	
ate Comp	leted:				Sampler Typ	oe:	Suction Pump	
	_				Method of C	Cleaning:	Alconox and D.I. Water	er
iameter:					Pump/Bailer	r Type:	Suction Pump	
ell Elevat	tion and Refe	erence:			Method of C	Cleaning:	Alconox and D.I. Water	er
					pH Meter:		HANNA	
					Conductivity	y Meter:	HANNA	
round Wa	ter Levels:				Comments:			
					2" Well = 0 .	163 gallons	per foot	
itial:					4" Well = 0.	653 gallons	per foot	
nal:								
eference F	Point: Bla	ack Mark on To	p of Casing					
ell Volun	ne of Water:							
	Discha	rge (gal.)			-36-00-00-00-00-00-00-00-00-00-00-00-00-00	nductance os/cm)	Color/	
Time	Per Time Period	Cumulative	pН	OC TO	Field	Dissolved Oxygen	Turbidity (NTU)	Odor
V. 1	start	0	6,92	23.9	5.85			
		0.5	6.91	24.8	5.81			
		le d	6,93	25.4	5.41			
	- 17	1.5	10605	2511	555			
	100	2.0	6.93	26.3	537	60 - 11		
	-	2.	6173	2013	, , ,			
	-							
otal Disch	orge:				Comments:			
		ed:	-					
						S. Horas		
	-				GRO	OUNDWAT	ER SAMPLING DATA	SHEET
IMI	PACT F	NVIRON	MENT	AL			Street, Oakland, Californ	nio.
					Projec		Date	NWell 7
						OGWM	OCTOBER 2008	NW /

Project Na	ame:	1409 12th Street	, OAKLANI	D, CA		Date:	October 25, 2008	
roject Ni	umber:	409_QGWM -				Sampler:		
ell Num	nber:	MW.S	}			Weather:		
ell Loca	ation:	1409 1	2th Street, C	DAKLAND,	CA			
ell Cons	struction				Sampling E	Equipment &	Cleaning	
ate Com	pleted:				Sampler Ty	pe:	Suction Pump	
	th of Well:				Method of Cleaning: Alconox and D.I. Water			
iameter:	_				Pump/Bailer Type: Suction Pump			
ell Elev	ation and Re	ference:			Method of	Cleaning:	Alconox and D.I. Wat	er
				75-100	pH Meter:		HANNA	
					Conductivit	ty Meter:	HANNA	
ound W	ater Levels:				Comments:			
					2" Well = 0	.163 gallons	per foot	
itial:				1		.653 gallons		
nal:								
eference	Point: E	Black Mark on T	op of Casing	g				
ell Volu	ime of Water	:						
	Disc	harge (gal.)		Temp		onductance nos/cm)	Color/	
Time	Per Time		pH	(°F)	Field	Dissolved	Turbidity	Odor
	Period					Oxygen	(NTU)	
	start	05	7,13	25.3	579			
		(3	7,18	23/	550			
		6 d	692	275	576	1000		
		G	0 00	23.7	585	100		
		7	Car 87	23.1	3 00			
131								
tal Disc	_				Comments:			
		ved:						
ethod of	Disposal: _							
\	n . ~				GRO	DUNDWAT	ER SAMPLING DATA	SHEET
IM	PACT.	ENVIRO!	NMEN'	IAL			Street, Oakland, Califor	
						ect No.	Date	Well
					1400	OGWM	OCTOBED 2008	Min-8

Project Name	e: 140	9 12th Street,	OAKLAND,	CA		Date:	October 25, 2008			
Project Numb	ber: 140	9_QGWM				Sampler:				
Well Number	r:	GW	2			Weather:				
Vell Location	n:	1409 13	2th Street, OA	KLAND, C	CA					
ell Constru	iction				Sampling Ed	quipment &	Cleaning			
ate Complet	ted:				Sampler Typ	e:	Suction Pump			
otal Depth o					Method of C		Alconox and D.I. Water	er		
iameter:					Pump/Bailer Type: Suction Pump					
ell Elevatio	on and Refer	ence:			Method of Cleaning: Alconox and D.I. Water					
					pH Meter: HANNA			7-11		
					Conductivity	y Meter:	HANNA			
ound Water	er Levels:				Comments:					
					2" Well = 0.	163 gallons	per foot			
itial:	ial:				4" Well = 0.					
nal:										
eference Poi	int: Blac	ck Mark on To	p of Casing							
ell Volume	-									
			PU	TRGE MEA	ASUREMEN	TS				
					Spec. Conductance					
	Dischar	ge (gal.)		Temp	(mmhos/cm)		Color/			
Time	Per Time Period	Cumulative	pН	(°F)	Field	Dissolved Oxygen	Turbidity (NTU)	Odor		
	start	(2	6.35	25.2	1002	70				
		3	6.39	24,3	1040					
				-11/						
		(a u	1,47	72.6						
		-	6,42	23.6	1008	•				
		9	6.47	23.6						
	_	-			1008					
		-			1008					
		-			1008					
		-			1008					
tal Discharg	ge:	-			1008					
	ge:	9			1008					
sing Volum	nes Remove	9			1008					
sing Volum	nes Remove	9			1008 1035 Comments:	UNDWAT	ER SAMPLING DATA	SHEET		
sing Volumethod of Dis	nes Remove sposal:	d:	6.41	24.9	1008 1035 Comments:		ER SAMPLING DATA			
ethod of Dis	nes Remove sposal:	9	6.41	24.9	1008 1035 Comments:	1409 12th	ER SAMPLING DATA Street, Oakland, Californ Date			

Cowz

Project Name: 1409 12th Street, OAKLAND, CA				, CA		Date:	October 25, 2008	
roject Nu	umber: 14	09_QGWM				Sampler:		
Vell Num	nber:	GW.	- (Weather:		
Vell Loca	ation:	1409 12	2th Street, O	AKLAND, C	CA			
ell Cons	struction				Sampling E	quipment &	Cleaning	
ate Com	pleted:				Sampler Typ	pe:	Suction Pump	
	th of Well:				Method of C		Alconox and D.I. Wat	er
iameter:					Pump/Baile		Suction Pump	
ell Eleva	ation and Refe	rence:		January 1	Method of C	Cleaning:	Alconox and D.I. Wat	er
					pH Meter:		HANNA	
					Conductivit	y Meter:	HANNA	
round W	ater Levels:				Comments:			
					2" Well = 0.	.163 gallons	per foot	
itial:					4" Well = 0.			
nal:			- Duline	- 8				
eference	Point: Bla	ck Mark on To	op of Casing					
	me of Water:							
	Discha	rge (gal.)		Temp	100	nductance os/cm)	Color/	
Time	Per Time Period	Cumulative	pН	(°F)	Field	Dissolved Oxygen		Odor
	start	0	645	24.2	1074	3.1,784.1	(4.4.5)	
		3	6.51	240	1062			1/25
		6 d	648	23.6	1094			Ves
		9	9.11	27.8	1110			1/5
			0.61	d-718	1110			1./
		4.5 × 1.00 p.					5	
-		-						
4-1 D!I	l				C			
tal Discl					Comments:			
	lumes Remove							
ethod of	Disposal:							
					GRO	UNDWAT	ER SAMPLING DATA	SHEET
IM	PACT E	NVIRON	MENT	TAL		1409 12th	Street, Oakland, Califor	nia
					Projec	ct No.	Date	Well
					1400 6	201111	OCTOBER 2000	-

Project Na	roject Name: 1409 12th Street, OAKLAND, O					Date:	October 25, 2008			
Project Nu	mber:	1409_QGWM				Sampler:				
Well Numl	ber:	GW-3				Weather:				
Well Locat	tion:	1409 1	2th Street, C	AKLAND,	CA					
Well Cons	truction				Sampling E	Equipment &	Cleaning			
Date Comp	oleted:				Sampler Ty	ype:	Suction Pump			
Total Dept					Method of	Cleaning:	Alconox and D.I. Wate	er		
Diameter:					Pump/Baile					
Well Eleva	tion and R	eference:			Pump/Bailer Type: Suction Pump Method of Cleaning: Alconox and D.I. Water					
					pH Meter: HANNA					
					Conductivi	ty Meter:	HANNA			
Ground Wa	ater Levels	<u>:</u>			Comments	:				
					2" Well = 0	0.163 gallons	per foot			
Initial:						0.653 gallons	per foot			
Final:										
Reference l		Black Mark on T	op of Casing	,						
Well Volur	ne of Wate	er:								
			<u> </u>	Г		onductance				
		charge (gal.)	٠,,	Temp		hos/cm)	Color/	0.1		
Time	Per Tim Period	e Cumulative	рН	24.5°C	Field	Dissolved Oxygen	Turbidity (NTU)	Odor		
2:38	start	0	6.83	1000	741	Oxygen	(NTC)			
2:46	ottar	3	10-75	23.6	753					
2:56		6 d	6.74	24.5	151					
		9		144	202	000				
3.10		17	6.72	29.9	723					
			-							
		-						r r - L - X		
Total Disch					Comments:					
_		oved:								
Method of I	Disposal:									
					GR	OUNDWAT	ER SAMPLING DATA	SHEET		
IM	PACT	ENVIRO	NMENT	ΓAL		1409 12th	Street, Oakland, Californ	nia		
					Proje	ect No.	Date	Well		
					1400	OOWA	OCHORER 2000	1/21.1 2		

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

Dear Mr. Joseph Cotton:

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

Order No.: 0807186

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,

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 Reported:** 8/4/2008

Client Sample ID: MW-1

Sample Location:1409 12th St,OaklandSample Matrix:GROUNDWATERDate/Time Sampled7/27/2008 8:50:00 AM

Lab Sample ID: 0807186-001

Date Received: 7/28/2008

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 an	alysis due to sediment i	n all voas.						
TPH (Gasoline)	SW8260B(TPH)	7/30/2008	50	1.29	64	ND	μg/L	T16989
Surr: 4-Bromofllurobenzene	SW8260B(TPH)	7/30/2008	0	1.29	58.4-133	87.7	%REC	T16989

Note: See comment for 8260B analysis

Impact Environmental Services

Date Received: 7/28/2008

Date Reported: 8/4/2008

Client Sample ID: MW-2

1409 12th St,Oakland

GROUNDWATER

Date/Time Sampled

Sample Location:

Sample Matrix:

7/27/2008 9:20:00 AM

Lab Sample ID: 0807186-002

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	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-Bromofllurobenzene	SW8260B(TPH)	7/30/2008	0	1	58.4-133	79.7	%REC	T16989

Impact Environmental Services

SW8260B(TPH)

Date Received: 7/28/2008

Lab Sample ID: 0807186-003

Date Reported: 8/4/2008

Client Sample ID: MW-3

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 a	analysis due to sediment i	n all voas.						
TPH (Gasoline)	SW8260B(TPH)	7/30/2008	50	1.16	58	ND	μg/L	T16989

7/30/2008

1.16

58.4-133

87.8

%REC

T16989

Note: See comment for 8260B analysis

Surr: 4-Bromofllurobenzene

Impact Environmental Services

Date Received: 7/28/2008

Date Reported: 8/4/2008

Lab Sample ID: 0807186-004

Client Sample ID: MW-4

1409 12th St,Oakland

Sample Location:

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-Bromofllurobenzene	SW8260B(TPH)	7/30/2008	0	1	58.4-133	83.0	%REC	T16989

Impact Environmental Services

Date Received: 7/28/2008

Date Reported: 8/4/2008

Client Sample ID: MW-5

1409 12th St,Oakland

Lab Sample ID: 0807186-005

Sample Location: Sample Matrix

GROUNDWATER

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-Bromofllurobenzene	SW8260B(TPH)	7/30/2008	0	1	58.4-133	83.0	%REC	T16989

Impact Environmental Services

Date Received: 7/28/2008

Date Reported: 8/4/2008

Client Sample ID: MW-6

1409 12th St,Oakland

Lab Sample ID: 0807186-006

Sample Location: Sample Matrix:

GROUNDWATER

Date Prepared: 7/29/2008-7/30/2008

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-Bromofllurobenzene	SW8260B(TPH)	7/30/2008	0	1	58.4-133	84.1	%REC	T16989

Impact Environmental Services

Date Received: 7/28/2008

Date Reported: 8/4/2008

Client Sample ID: MW-7

1409 12th St,Oakland

Lab Sample ID: 0807186-007

Sample Matrix:
Date/Time Sampled

Sample Location:

GROUNDWATER 7/27/2008 1:15:00 PM

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	7/31/2008	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-Bromofllurobenzene	SW8260B(TPH)	7/30/2008	0	1	58.4-133	87.7	%REC	T16989

Impact Environmental Services

Date Received: 7/28/2008

Lab Sample ID: 0807186-008

Date Reported: 8/4/2008

Client Sample ID: MW-8

Sample Location:

1409 12th St,Oakland

Sample Matrix: GROUNDWATER **Date Prepared:** 7/29/2008-7/30/2008

7/27/2008 1:20:00 PM **Date/Time Sampled**

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-Bromofllurobenzene	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.

Impact Environmental Services

Date Received: 7/28/2008 Date Reported: 8/4/2008

Client Sample ID: GW-1

Lab Sample ID: 0807186-009

Sample Location: Sample Matrix:

1409 12th St,Oakland **GROUNDWATER**

Date Prepared: 7/29/2008-7/31/2008

7/27/2008 2:05:00 PM **Date/Time Sampled**

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 n appears to be weathered gasoline.	ot resemble typical die	sel pattern. Hydro	ocarbons w	ithin the diese	l range quan	titated as dies	el. Sample	
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-Bromofllurobenzene	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.

Impact Environmental Services

Date Received: 7/28/2008

Date Reported: 8/4/2008

Client Sample ID: GW-2

1409 12th St,Oakland

Lab Sample ID: 0807186-010 **Date Prepared:** 7/29/2008-7/30/2008

Sample Location: Sample Matrix: GROUNDWATER 7/27/2008 2:15:00 PM **Date/Time Sampled**

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-Bromofllurobenzene	SW8260B(TPH)	7/30/2008	0	1	58.4-133	91.6	%REC	T16989

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

Impact Environmental Services

Date Received: 7/28/2008

Date Reported: 8/4/2008

Client Sample ID: GW-3

1409 12th St,Oakland

GROUNDWATER

Date/Time Sampled

Sample Location:

Sample Matrix:

7/27/2008 3:00:00 PM

Lab Sample ID: 0807186-011

Date Prepared: 7/29/2008-7/31/2008

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-Bromofllurobenzene	SW8260B(TPH)	7/31/2008	0	1	58.4-133	89.7	%REC	T16989

Note: x- Sample chroamtogram 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.
а	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 #

Date: 04-Aug-08

ANALYTICAL QC SUMMARY REPORT

CLIENT: Impact Environmental Services

Work Order: 0807186

Project:

BatchID: A16989 1409 12th St,Oakland

SampType: MBLK	TestCoo	le: 8260B_W _	_PE Units: μg/L		Prep Date	e: 7/30/20	08	RunNo: 169	89	
Batch ID: A16989	TestN	lo: SW8260B			Analysis Date	e: 7/30/20	08	SeqNo: 243	641	
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
ND	0.500									
ND	0.500									
ND	0.500									
ND	0.500									
ND	0.500									
ND	10.0									
ND	0.500									
ND	0.500									
ND	1.50									
10.24	0	11.36	0	90.1	61.2	131				
12.01	0	11.36	0	106	64.1	120				
10.11	0	11.36	0	89.0	75.1	127				
SampType: LCS	TestCoo	le: 8260B_W _	_PE Units: μg/L		Prep Date	e: 7/30/20	08	RunNo: 169	89	
Batch ID: A16989	TestN	lo: SW8260B			Analysis Dat	e: 7/30/20	08	SeqNo: 243	8642	
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
16.70	0.500	17.04	0	98.0	66.9	140				
16.70 13.85	0.500 0.500	17.04 17.04	0 0	98.0 81.3	66.9 76.6	140 123				
13.85	0.500	17.04	0	81.3	76.6	123				
13.85 10.99	0.500 0	17.04 11.36	0 0	81.3 96.7	76.6 61.2	123 131				
13.85 10.99 12.38	0.500 0 0 0	17.04 11.36 11.36 11.36	0 0 0	81.3 96.7 109	76.6 61.2 64.1 75.1	123 131 120	08	RunNo: 169	989	
13.85 10.99 12.38 11.22	0.500 0 0 0	17.04 11.36 11.36 11.36	0 0 0 0	81.3 96.7 109 98.8	76.6 61.2 64.1 75.1	123 131 120 127 e: 7/31/20		RunNo: 169 SeqNo: 243		
13.85 10.99 12.38 11.22 SampType: LCSD	0.500 0 0 0	17.04 11.36 11.36 11.36 20: 8260B_W_	0 0 0 0	81.3 96.7 109 98.8	76.6 61.2 64.1 75.1 Prep Date Analysis Date	123 131 120 127 e: 7/31/20 e: 7/31/20				Qual
13.85 10.99 12.38 11.22 SampType: LCSD Batch ID: A16989	0.500 0 0 0 TestCoo	17.04 11.36 11.36 11.36 20: 8260B_W_	0 0 0 0	81.3 96.7 109 98.8	76.6 61.2 64.1 75.1 Prep Date Analysis Date	123 131 120 127 e: 7/31/20 e: 7/31/20	08	SeqNo: 243	8643	Qual
	Result ND	Result	Result PQL SPK value ND 0.500 ND 0.500 ND 0.500 ND 0.500 ND 0.500 ND 0.500 ND 10.0 ND 0.500 ND 0.500 ND 1.50 10.24 0 11.36 12.01 0 11.36 10.11 0 11.36 SampType: LCS TestCode: 8260B_W_ Batch ID: A16989 TestNo: SW8260B	Result PQL SPK value SPK Ref Val ND 0.500 ND 0.500 ND 0.500 ND 0.500 ND 0.500 ND 10.0 ND 0.500 ND 0.500 ND 1.50 10.24 0 11.36 0 10.24 0 11.36 0 10.11 0 11.36 0 SampType: LCS TestCode: 8260B_W_PE Units: μg/L Batch ID: A16989 TestNo: SW8260B	Result PQL SPK value SPK Ref Val %REC ND 0.500 ND 0.500 ND 1.50 0.11.36 0.90.1 12.01 0.11.36 0.090.1 12.01 0.11.36 0.090.1 SampType: LCS TestCode: 8260B_W_PE Units: μg/L Batch ID: A16989 TestNo: SW8260B	Result PQL SPK value SPK Ref Val %REC LowLimit ND 0.500 ND 1.50 10.24 0 11.36 0 90.1 61.2 12.01 0 11.36 0 106 64.1 10.11 0 11.36 0 89.0 75.1 SampType: LCS TestCode: 8260B_W_PE Units: μg/L Prep Date Batch ID: A16989 TestNo: SW8260B Analysis Date	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit ND 0.500 ND 1.50 10.24 0 11.36 0 90.1 61.2 131 12.01 0 11.36 0 106 64.1 120 10.11 0 11.36 0 89.0 75.1 127 SampType: LCS TestCode: 8260B_W_PE Units: μg/L Prep Date: 7/30/20 Batch ID: A16989 TestNo: SW8260B Analysis Date: 7/30/20	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val ND 0.500 ND 1.50 10.24 0 11.36 0 90.1 61.2 131 120 131 120 10.11 0 11.36 0 89.0 75.1 127 7/30/2008 SampType: LCS TestCode: 8260B_W_PE Units: μg/L Prep Date: 7/30/2008 7/30/2008 Analysis Date: 7/30/2008 7/30/2008 10	Batch ID: A16989 TestNo: SW8260B SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD ND 0.500 ND 10.0 ND 0.500 ND 10.500 ND 10.500 ND 10.500 ND 1.50 10.24 0 11.36 0 90.1 61.2 131 12.01 0 11.36 0 106 64.1 120 10.11 0 11.36 0 89.0 75.1 127 SampType: LCS Batch ID: A16989 TestNo: SW8260B PLE Units: μg/L PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD Republication Republ	Batch ID: A16989 TestNo: SW8260B SPK Ref Val SPK

Qualifiers:

Recovery of the MS and/or MSD was out of control due t 4

The MS/MSD RPD was out of control due to matrix inter Q Spike recovery and RPD control limits do not apply result

RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

CLIENT: Impact Environmental Services

Work Order: 0807186

BatchID: A16989 Project: 1409 12th St,Oakland

Sample ID: LCSD_A16989	SampType: LCSD	TestCo	de: 8260B_W _	_PE Units: μg/L		Prep Da	te: 7/31/20	08	RunNo: 169	989	
Client ID: ZZZZZ	Batch ID: A16989	Test	No: SW8260B			Analysis Da	te: 7/31/20	08	SeqNo: 243	3643	
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	

ANALYTICAL QC SUMMARY REPORT

The MS/MSD RPD was out of control due to matrix inter Q Spike recovery and RPD control limits do not apply result

RPD outside accepted recovery limits

CLIENT: Impact Environmental Services

Work Order: 0807186

Project: 1409 12th St,Oakland BatchID: R16990

SampType: MBLK	TestCod	e: TPHDOSG	G_W Units: mg/L		Prep Dat	e: 7/29/20	08	RunNo: 169	90	
Batch ID: R16990	TestN	o: SW8015B			Analysis Dat	e: 7/30/20	08	SeqNo: 243	595	
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
ND	0.100									
ND	0.200									
0.1050	0	0.1	0	105	40	120				
SampType: LCS	TestCod	e: TPHDOSG	G_W Units: mg/L		Prep Dat	e: 7/29/20	08	RunNo: 169	90	
Batch ID: R16990	TestN	o: SW8015B			Analysis Dat	te: 7/30/20	08	SeqNo: 243	599	
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
0.6440	0.100	1	0	64.4	30	68.5				
0.1100	0	0.1	0	440	40	400				
			<u> </u>	110	40	120				
SampType: LCSD	TestCod		G_W Units: mg/L	110	Prep Dat		08	RunNo: 169	90	
SampType: LCSD Batch ID: R16990						e: 7/29/20		RunNo: 169 SeqNo: 243		
		e: TPHDOS G	6_W Units: mg/L		Prep Dat	re: 7/29/20				Qual
Batch ID: R16990	TestN	e: TPHDOSG o: SW8015B	6_W Units: mg/L		Prep Dat	re: 7/29/20	08	SeqNo: 243	604	Qual
	Batch ID: R16990 Result ND ND 0.1050 SampType: LCS Batch ID: R16990 Result 0.6440	Batch ID: R16990 TestN Result PQL ND 0.100 ND 0.200 0.1050 0 SampType: LCS Batch ID: R16990 TestN Result PQL 0.6440 0.100	Batch ID: R16990 TestNo: SW8015B Result PQL SPK value ND 0.100 0.200 0.1050 0 0.1 SampType: LCS TestCode: TPHDOSG Batch ID: R16990 TestNo: SW8015B Result PQL SPK value 0.6440 0.100 1	Batch ID: R16990 TestNo: SW8015B Result PQL SPK value SPK Ref Val ND 0.100 0.200 0.1050 0 0.1 0 SampType: LCS TestCode: TPHDOSG_W Units: mg/L Batch ID: R16990 TestNo: SW8015B Result PQL SPK value SPK Ref Val 0.6440 0.100 1 0	Batch ID: R16990 TestNo: SW8015B Result PQL SPK value SPK Ref Val %REC ND 0.100 0.200 0.1050 0 0.1 0 105 SampType: LCS TestCode: TPHDOSG_W Units: mg/L Batch ID: R16990 TestNo: SW8015B Result PQL SPK value SPK Ref Val %REC 0.6440 0.100 1 0 64.4	Batch ID: R16990 TestNo: SW8015B Analysis Date Result PQL SPK value SPK Ref Val %REC LowLimit ND 0.100 0.200 0.1050 0 0.1 0 105 40 SampType: LCS TestCode: TPHDOSG_W Units: mg/L Prep Date Analysis Date Batch ID: R16990 TestNo: SW8015B Analysis Date Analysis Date Result PQL SPK value SPK Ref Val %REC LowLimit 0.6440 0.100 1 0 64.4 30	Batch ID: R16990 TestNo: SW8015B Analysis Date: 7/30/20 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit ND 0.100 0.200 0.1050 0 0.1 0 105 40 120 SampType: LCS TestCode: TPHDOSG_W Units: mg/L Prep Date: 7/29/20 Batch ID: R16990 TestNo: SW8015B Analysis Date: 7/30/20 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit 0.6440 0.100 1 0 64.4 30 68.5	Batch ID: R16990 TestNo: SW8015B Analysis Date: 7/30/20⊍8 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val ND 0.100 0.200 0.200 0.105 40 120 SampType: LCS TestCode: TPHDOSG_W Units: Prep Date: 7/29/2008 Batch ID: R16990 TestNo: SW8015B Analysis Date: 7/30/2008 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val 0.6440 0.100 1 0 64.4 30 68.5	Batch ID: R16990 TestNo: SW8015B Analysis Date: 7/30/2008 SeqNo: 243 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD ND 0.1050 0 0.1 0 105 40 120 40 120 40 120 40 120 40 120 40 120 40 120 40 120 40 120 40 120 40 120 40 120 40 120 40 120 40 120 40 40 120 40 <td>Batch ID: R16990 TestNo: SW8015B Analysis Date: 7/30/20B SeqNo: 243595 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit ND 0.1000 0.2000 0.1050 0 0.1 0 105 40 120 Free Date: 7/29/208 RunNo: 16990 RunNo: 16990 Analysis Date: 7/30/208 SeqNo: 243599 PRDLimit Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit 0.6440 0.100 1 0 64.4 30 68.5 FROTE FROTE</td>	Batch ID: R16990 TestNo: SW8015B Analysis Date: 7/30/20B SeqNo: 243595 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit ND 0.1000 0.2000 0.1050 0 0.1 0 105 40 120 Free Date: 7/29/208 RunNo: 16990 RunNo: 16990 Analysis Date: 7/30/208 SeqNo: 243599 PRDLimit Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit 0.6440 0.100 1 0 64.4 30 68.5 FROTE FROTE

ANALYTICAL QC SUMMARY REPORT

Qualifiers:

³ Recovery of the MS and/or MSD was out of control due t 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

CLIENT: Impact Environmental Services

Work Order: 0807186

Project: 1409 12th St,Oakland BatchID: T16989

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

ANALYTICAL QC SUMMARY REPORT

Qualifiers: 3 Recovery of the MS and/or MSD was out of control due t 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



483 Sinclair Frontage Road Milpitas, CA 95035 Phone: 408.263.5258 RESET

FAX: 408.263.8293 www.torrentlab.com



CHAIN OF CUSTODY



ONOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY

Company Name: IMPACT ENVIRONME	~TRC	Location of Sampling	1409 12th	St, UAKLA	ND, CA
Address: 39120 AKGONET WAY, #					
City: FREMONT State: CA	Zip Code: 94538	Special Instructions /	Comments: Emu	il results	to
Telephone(510) 7035420 FAX: (510) 791	-0271	Jac 214	62@aulicon		
REPORT TO: Joseph Cotton SAMPLER:	Joseph Cotta	P.O.#:	EMA	1L: Jac21462	20001.com
TURNAROUND TIME: SAMPLE T	YPE: REPORT F	ORMAT:	Br. 8.		
☐ 10 Work Days ☐ 3 Work Days ☐ Noon - Nxt Day ☐ Storm W ☐ 7 Work Days ☐ 2 Work Days ☐ 2 - 8 Hours ☐ Ground III	/ater Other EDF	15 3 6 5	826C		ANALYSIS REQUESTED
Work Days 1 Work Day Other Soil		14 (B)	15 #		\
LAB ID CLIENT'S SAMPLE I.D. DATE / TIME SAMPLED	MATRIA CONT	CONT TYPE TYPE	2 9		REMARKS
2019 MM-1 7-27-8 8:50		LIBMEN X	\times		
9929 MW-2)9:2	0)))) (1		÷
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Relir quished By: Print: Date JOSEPH Cotton	e: Time:	Received By:	PANKA:	Date: 07/28/01	Time: 4:40 pm.
2 Relinguished By: Print: Date	e: Time:	Received By:	Print:	Date:	Time:
Were Samples Received in Good Condition?	Samples on Ice? Yes	NO Method of Ships	ment	Sample seals intac	ct? Yes NO N/A
NOTE: Samples are discarded by the laboratory 30 days from					e of
Log In By: Date:	Log In Review	wed By:	Date:	and a second of the second of the second of the second of the	



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

CHAIN OF CUSTODY

LAB WORK ORDER NO OSO7/86

ONOTE: SHADED AREAS ARE FOR TORRENT LABUSE ONLY

Company Name: IMPACT ENVIRONMENTEL	Location of Sampling:	409 12th	St., OSKUAND, CA
Address: 39120 ARGONOUT WAY, # 223	Purpose: Grand	d warter Ma	niterino
City: FIZEMONT State: CA Zip Code: 94538	Special Instructions / Com	ments:	•
Telephone (510) 7035420 FAX: (510) 791-027/	Emil pos	sults to Jac	21462@ adi com
REPORT TO: (510) 7035420 SAMPLER: JUSEUPL Cotton	P.O. #:	EMAIL: Ja	1214620 adica
TURNAROUND TIME: SAMPLE TYPE: REPORT FO	RMAT:		
10 Work Days 3 Work Days Noon - Nxt Day Storm Water Air QC Level	BIEX/MIBS 8260 OXX/(BubTe	2	ANALYSIS
7 Work Days 2 Work Days 2 - 8 Hours Waste Water Other EDF Excel / EDF			REQUESTED
Work Days 1 Work Day Other Soil	4 S & S	.	
SAMPLED WATRIX CONT	ONT TO TO		REMARKS
	SANUX XX		
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Print: Date: Time:	Received By:	Print:	Date: Time: 4:40 pm
2 Relinquished By: Print: Date: Time:	Received By:	Print:	07/18/08 4:40 pm Date: Time:
	NO Mashad of Chieses		annula acada intenta (C. Ves C. No. C. No.
Were Samples Received in Good Condition?	NO Method of Shipment_range -ments are made.	S	ample seals intact? Yes NO N/A
Log In By: Date: Log In Review	Charles and the control of the contr	Date:	Page or



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

Dear Mr. Joseph Cotton:

following report.

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

Order No.: 0810191

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,

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 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 Received: 10/27/2008

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-Bromofllurobenzene	SW8260B(TPH)	10/28/2008	0	1	58.4-133	84.2	%REC	G17745

Impact Environmental Services

Date Received: 10/27/2008

Date Reported: 11/3/2008

Client Sample ID: MW-2

Sample Location: 1409-1417 12TH St. Oakland

Sample Matrix: GROUNDWATER **Date/Time Sampled** 10/25/2008 10:30:00 AM

Lab Sample ID: 0810191-002 **Date Prepared:** 10/28/2008

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-Bromofllurobenzene	SW8260B(TPH)	10/28/2008	0	1	58.4-133	91.8	%REC	G17745

Impact Environmental Services

Date Received: 10/27/2008 **Date Reported:** 11/3/2008

MW-3

Lab Sample ID: 0810191-003

Sample Location:

1409-1417 12TH St. Oakland

Date Prepared: 10/28/2008

Sample Matrix:
Date/Time Sampled

Client Sample ID:

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-Bromofllurobenzene	SW8260B(TPH)	10/28/2008	0	1	58.4-133	79.2	%REC	G17745

Impact Environmental Services

Date Received: 10/27/2008

Date Reported: 11/3/2008

Client Sample ID: MW-4

Sample Location: 1409-1417 12TH St. Oakland

Sample Matrix: GROUNDWATER **Date/Time Sampled** 10/25/2008 12:30:00 PM

Lab Sample ID: 0810191-004 **Date Prepared:** 10/28/2008

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-Bromofllurobenzene	SW8260B(TPH)	10/28/2008	0	1	58.4-133	92.7	%REC	G17745

Impact Environmental Services

Date Received: 10/27/2008

Date Reported: 11/3/2008

Client Sample ID: MW-5

Sample Location: 1409-1417 12TH St. Oakland

Sample Matrix: GROUNDWATER **Date/Time Sampled** 10/25/2008 1:07:00 PM

Lab Sample ID: 0810191-005 **Date Prepared:** 10/28/2008

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-Bromofllurobenzene	SW8260B(TPH)	10/28/2008	0	1	58.4-133	104	%REC	G17745

Impact Environmental Services

Date Received: 10/27/2008

Date Reported: 11/3/2008

Client Sample ID: MW-6

Sample Location: 1409-1417 12TH St. Oakland

Sample Matrix: GROUNDWATER 10/25/2008 2:12:00 PM **Date/Time Sampled**

Lab Sample ID: 0810191-006 **Date Prepared:** 10/28/2008

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-Bromofllurobenzene	SW8260B(TPH)	10/28/2008	0	1	58.4-133	105	%REC	G17745

Impact Environmental Services

Date Received: 10/27/2008

Date Reported: 11/3/2008

Client Sample ID: MW-7

1409-1417 12TH St. Oakland

Lab Sample ID: 0810191-007

Sample Location: Sample Matrix

GROUNDWATER

Date Prepared: 10/28/2008

Sample Matrix.	GROOND WITTER
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	e quantitated as motor	•					,	
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-Bromofllurobenzene	SW8260B(TPH)	10/28/2008	0	1	58.4-133	105	%REC	G17745

Impact Environmental Services

Date Received: 10/27/2008

Date Reported: 11/3/2008

Client Sample ID: MW-8

Sample Location:

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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

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-Bromofllurobenzene	SW8260B(TPH)	10/28/2008	0	1	58.4-133	121	%REC	G17745

Impact Environmental Services

Date Received: 10/27/2008

Date Reported: 11/3/2008

Client Sample ID: GW-1

Sample Location:

1409-1417 12TH St. Oakland

Sample Matrix: GROUNDWATER **Date/Time Sampled** 10/25/2008 5:30:00 PM

Lab Sample ID: 0810191-009 **Date Prepared:** 10/28/2008

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-Bromofllurobenzene	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.

Impact Environmental Services

Date Received: 10/27/2008

Date Reported: 11/3/2008

Client Sample ID: GW-2

Sample Location: 1409-1417 12TH St. Oakland

Sample Matrix: GROUNDWATER **Date/Time Sampled** 10/25/2008 6:10:00 PM

Lab Sample ID: 0810191-010 **Date Prepared:** 10/28/2008

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 doe diesel range quantitated as diesel;							s within the	
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-Bromofllurobenzene	SW8260B(TPH)	10/29/2008	0	1	58.4-133	98.2	%REC	G17745

Impact Environmental Services

Date Received: 10/27/2008 **Date Reported:** 11/3/2008

Client Sample ID: GW-3

1409-1417 12TH St. Oakland

Sample Location: Sample Matrix:

Surr: 4-Bromofllurobenzene

GROUNDWATER

10/25/2008 7:02:00 PM **Date/Time Sampled**

Lab Sample ID: 0810191-011 **Date Prepared:** 10/28/2008

58.4-133

96.8

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

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 quantofied as Gasoline (heavy end).

10/29/2008

SW8260B(TPH)

%REC

G17745

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.
а	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 #

Date: 03-Nov-08

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) Surr: 4-Bromofllurobenzene	ND 12.22	50 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	

Holding times for preparation or analysis exceeded

RPD outside accepted recovery limits

Analyte detected below quantitation limits

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

Value above quantitation range Qualifiers:

ND Not Detected at the Reporting Limit

Holding times for preparation or analysis exceeded

RPD outside accepted recovery limits

Analyte detected below quantitation limits

Spike Recovery outside accepted recovery limits

Page 2 of 9

Work Order: 0810191

Project: 1409-1417 12TH St. Oakland

ANALYTICAL QC SUMMARY REPORT

BatchID: P17745

Sample ID MB_P17745	SampType: MBLK	TestCod	de: 8260B_W	_PE Units: μg/L		Prep Da	te: 10/28/	2008	RunNo: 17	745	
Client ID: ZZZZZ	Batch ID: P17745	TestN	No: SW8260B			Analysis Da	te: 10/28/	2008	SeqNo: 25	4408	
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	TestCod	de: 8260B_W	_PE Units: μg/L		Prep Da	ite: 10/28/	2008	RunNo: 17	745	
Client ID: ZZZZZ	Batch ID: P17745	TestN	lo: SW8260B			Analysis Da	te: 10/28/	2008	SeqNo: 25	4410	
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	TestCod	de: 8260B_W	_PE Units: μg/L		Prep Da	ite: 10/29/	2008	RunNo: 17	745	
Client ID: ZZZZZ	Batch ID: P17745	TestN	lo: SW8260B			Analysis Da	ite: 10/29/	2008	SeqNo: 25	4412	
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 Holdi	ng times for preparation	n or analys	is exceeded	J	Analyte detected l	pelow quantitation	on limits	
=	at the Reporting Limit			outside accepted recov	-			Spike Recovery or	_		

Work Order: 0810191

Project: 1409-1417 12TH St. Oakland ANALYTICAL QC SUMMARY REPORT

BatchID: P17745

Sample ID LCSD_P17745	SampType: LCSD	TestCoo	de: 8260B_W	_PE Units: µg/L		•	te: 10/29/2		RunNo: 17 7	745	
Client ID: ZZZZZ	Batch ID: P17745	TestN	lo: SW8260B			Analysis Da	te: 10/29/2	008	SeqNo: 254	4412	
Analyte	Result	PQL		SPK Ref Val	%REC			RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	13.47	0	11.36	0	119	75.1	127	0	0	0	

RPD outside accepted recovery limits

Work Order: 0810191

Project: 1409-1417 12TH St. Oakland

ANALYTICAL QC SUMMARY REPORT

BatchID: R17739

Sample ID MB_R17739	SampType: MBLK	TestCod	de: 8260B_W	Units: µg/L		Prep Da	te: 10/29/	2008	RunNo: 17	739	
Client ID: ZZZZZ	Batch ID: R17739	TestN	lo: SW8260B			Analysis Da	te: 10/29/	2008	SeqNo: 25	4385	
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									
ert-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	TestCod	de: 8260B_W	Units: µg/L		Prep Da	te: 10/29/	2008	RunNo: 17	739	
Client ID: ZZZZZ	Batch ID: R17739	TestN	lo: SW8260B			Analysis Da	te: 10/29/	2008	SeqNo: 25	4386	
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	TestCod	de: 8260B_W	Units: µg/L		Prep Da	te: 10/29/ :	2008	RunNo: 17	739	
Client ID: ZZZZZ	Batch ID: R17739	TestN	lo: SW8260B			Analysis Da	te: 10/29/	2008	SeqNo: 25	4388	
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 Holdin	ng times for preparation	n or analysi	is exceeded	J	Analyte detected l	elow quantitation	on limits	
ND Not Detected	at the Reporting Limit		R RPD o	outside accepted recov			S	Spike Recovery o			

Work Order: 0810191

BatchID: R17739 **Project:** 1409-1417 12TH St. Oakland

Sample ID LCSD_R17739	SampType: LCSD	TestCode: 8	260B_W	Units: µg/L		Prep Da	te: 10/29/2	008	RunNo: 17	739	
Client ID: ZZZZZ	Batch ID: R17739	TestNo: S	W8260B			Analysis Da	te: 10/29/2	800	SeqNo: 254	4388	
Analyte	Result	PQL SP	K 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	

ANALYTICAL QC SUMMARY REPORT

Work Order: 0810191

Project: 1409-1417 12TH St. Oakland

ANALYTICAL QC SUMMARY REPORT

BatchID: R17754

Sample ID MB_R17754	SampType: MBLK	TestCod	de: 8260B_W	_PE Units: μg/L		Prep Dat	e: 10/30/ 2	2008	RunNo: 17 7	754	
Client ID: ZZZZZ	Batch ID: R17754	TestN	No: SW8260B	}		Analysis Dat	e: 10/30/ 2	2008	SeqNo: 254	4557	
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	TestCod	de: 8260B_W	_PE Units: μg/L		Prep Dat	e: 10/30/ 2	2008	RunNo: 17 7	754	
Sample ID LCS_R17754 Client ID: ZZZZZ	SampType: LCS Batch ID: R17754		de: 8260B_W No: SW8260B			Prep Dat Analysis Dat			RunNo: 17 7 SeqNo: 25 4		
. –			lo: SW8260B		%REC	Analysis Dat	e: 10/30/ 2				Qual
Client ID: ZZZZZ	Batch ID: R17754	TestN	lo: SW8260B			Analysis Dat	e: 10/30/ 2	2008	SeqNo: 254	4558	Qual
Client ID: ZZZZZ Analyte	Batch ID: R17754 Result	TestN PQL	No: SW8260B SPK value	SPK Ref Val	%REC	Analysis Dat	e: 10/30/2 HighLimit	2008	SeqNo: 254	4558	Qual
Client ID: ZZZZZ Analyte Benzene	Result 17.67	TestN PQL 0.500	SPK value 17.04	SPK Ref Val	%REC	Analysis Dat LowLimit 66.9	e: 10/30/2 HighLimit 140	2008	SeqNo: 254	4558	Qual
Client ID: ZZZZZ Analyte Benzene Toluene	Result 17.67 19.98	PQL 0.500 0.500	SPK value 17.04 17.04	SPK Ref Val 0 0	%REC 104 117	Analysis Dat LowLimit 66.9 76.6	e: 10/30/2 HighLimit 140 123	2008	SeqNo: 254	4558	Qual
Client ID: ZZZZZ Analyte Benzene Toluene Surr: Dibromofluoromethane	Result 17.67 19.98 12.24	PQL 0.500 0.500 0	SPK value 17.04 17.36	SPK Ref Val 0 0 0	%REC 104 117 108	Analysis Dat LowLimit 66.9 76.6 61.2	e: 10/30/ HighLimit 140 123 131	2008	SeqNo: 254	4558	Qual
Client ID: ZZZZZ Analyte Benzene Toluene Surr: Dibromofluoromethane Surr: 4-Bromofluorobenzene	Result 17.67 19.98 12.24 11.77	PQL 0.500 0.500 0 0 0	SPK value 17.04 11.36 11.36	SPK Ref Val 0 0 0 0	%REC 104 117 108 104	Analysis Date LowLimit 66.9 76.6 61.2 64.1 75.1	e: 10/30/ 2 HighLimit 140 123 131 120	RPD Ref Val	SeqNo: 254	RPDLimit	Qual
Client ID: ZZZZZ Analyte Benzene Toluene Surr: Dibromofluoromethane Surr: 4-Bromofluorobenzene Surr: Toluene-d8	Result 17.67 19.98 12.24 11.77 13.14	PQL 0.500 0.500 0 0 0 TestCoo	SPK value 17.04 11.36 11.36	SPK Ref Val 0 0 0 0 0 0 0 0 0 0	%REC 104 117 108 104 116	Analysis Date LowLimit 66.9 76.6 61.2 64.1 75.1	e: 10/30/2 HighLimit 140 123 131 120 127 e: 10/30/2	2008 RPD Ref Val	SeqNo: 254 %RPD	RPDLimit	Qual
Client ID: ZZZZZ Analyte Benzene Toluene Surr: Dibromofluoromethane Surr: 4-Bromofluorobenzene Surr: Toluene-d8 Sample ID LCSD_R17754	Result 17.67 19.98 12.24 11.77 13.14 SampType: LCSD	PQL 0.500 0.500 0 0 0 TestCoo	SPK value 17.04 17.04 11.36 11.36 de: 8260B_W No: SW8260B	SPK Ref Val 0 0 0 0 0 0 0 0 0 0	%REC 104 117 108 104 116	Analysis Date LowLimit 66.9 76.6 61.2 64.1 75.1 Prep Date Analysis Date	e: 10/30/2 HighLimit 140 123 131 120 127 e: 10/30/2	2008 RPD Ref Val	SeqNo: 254 %RPD	RPDLimit	Qual
Client ID: ZZZZZ Analyte Benzene Toluene Surr: Dibromofluoromethane Surr: 4-Bromofluorobenzene Surr: Toluene-d8 Sample ID LCSD_R17754 Client ID: ZZZZZ	Result 17.67 19.98 12.24 11.77 13.14 SampType: LCSD Batch ID: R17754	PQL 0.500 0.500 0 0 0 TestCoo	SPK value 17.04 17.04 11.36 11.36 de: 8260B_W No: SW8260B	SPK Ref Val 0 0 0 0 0 0 -PE Units: μg/L	%REC 104 117 108 104 116	Analysis Date LowLimit 66.9 76.6 61.2 64.1 75.1 Prep Date Analysis Date	e: 10/30/2 HighLimit 140 123 131 120 127 e: 10/30/2	2008 RPD Ref Val	SeqNo: 254 %RPD RunNo: 177 SeqNo: 254	RPDLimit 754 4559	
Client ID: ZZZZZ Analyte Benzene Toluene Surr: Dibromofluoromethane Surr: 4-Bromofluorobenzene Surr: Toluene-d8 Sample ID LCSD_R17754 Client ID: ZZZZZ Analyte	Result 17.67 19.98 12.24 11.77 13.14 SampType: LCSD Batch ID: R17754 Result	PQL 0.500 0.500 0 0 0 TestCoo	SPK value 17.04 17.04 11.36 11.36 11.36 de: 8260B_W No: SW8260B	SPK Ref Val 0 0 0 0 0 0 PE Units: µg/L	%REC 104 117 108 104 116	Analysis Date LowLimit 66.9 76.6 61.2 64.1 75.1 Prep Date Analysis Date LowLimit	e: 10/30/2 HighLimit 140 123 131 120 127 e: 10/30/2 HighLimit	2008 RPD Ref Val 2008 2008 RPD Ref Val	SeqNo: 254 %RPD RunNo: 177 SeqNo: 254 %RPD	RPDLimit 754 4559 RPDLimit	
Client ID: ZZZZZ Analyte Benzene Toluene Surr: Dibromofluoromethane Surr: 4-Bromofluorobenzene Surr: Toluene-d8 Sample ID LCSD_R17754 Client ID: ZZZZZ Analyte Benzene	Result 17.67 19.98 12.24 11.77 13.14 SampType: LCSD Batch ID: R17754 Result 16.65	PQL 0.500 0.500 0 0 TestCoo TestN PQL 0.500	SPK value 17.04 17.04 11.36 11.36 de: 8260B_W No: SW8260B SPK value 17.04	SPK Ref Val 0 0 0 0 0 0 -PE Units: μg/L SPK Ref Val 0	%REC 104 117 108 104 116 %REC 97.7	Analysis Date LowLimit 66.9 76.6 61.2 64.1 75.1 Prep Date Analysis Date LowLimit 66.9	e: 10/30/2 HighLimit 140 123 131 120 127 e: 10/30/2 e: 10/30/2 HighLimit	2008 RPD Ref Val 2008 2008 RPD Ref Val 17.67	SeqNo: 254 %RPD RunNo: 177 SeqNo: 254 %RPD 5.94	754 4559 RPDLimit	

Qualifiers: Value above quantitation range

ND Not Detected at the Reporting Limit

Holding times for preparation or analysis exceeded

RPD outside accepted recovery limits

Analyte detected below quantitation limits

Spike Recovery outside accepted recovery limits

Page 7 of 9

Work Order: 0810191

BatchID: R17754 **Project:** 1409-1417 12TH St. Oakland

Sample ID LCSD_R17754 Client ID: ZZZZZ	SampType: LCSD Batch ID: R17754		de: 8260B_W No: SW8260B	_ PE Units: µg/L		•	te: 10/30/2 te: 10/30/2		RunNo: 17 7 SeqNo: 25 4		
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	

RPD outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

Work Order: 0810191

Project: 1409-1417 12TH St. Oakland

ANALYTICAL QC SUMMARY REPORT

BatchID: R17758

Sample ID WD081028A-MB	SampType: MBLK	TestCode: TPHDO_W U	nits: 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 R	tef Val %REC	LowLimit HighLimit RPI	D 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 U	nits: 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 R	tef Val %REC	LowLimit HighLimit RPI	D 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 U	nits: 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 R	tef Val %REC	LowLimit HighLimit RPI	D Ref Val %RPD RPDLimit Qual
TPH (Diesel)	0.8100	0.100 1	0 81.0	50.3 125	0.91 11.6 30

Value above quantitation range Qualifiers:

ND Not Detected at the Reporting Limit

Holding times for preparation or analysis exceeded

RPD outside accepted recovery limits

Analyte detected below quantitation limits

Spike Recovery outside accepted recovery limits

Page 9 of 9



483 Sinclair Frontage Road Milpitas, CA 95035 Phone: 408.263.5258 FAX: 408.263.8293

CHAIN OF CUSTODY

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

0810191

LABORATORY, INC. www.torrentlab.com	V	A Continue to the second secon								
Company Name: IMPACT ENVIRONMENTA	a	Location of Sampling: 146	1-147 12th	St. CA	KLOND					
Address: 39120 DRGONOUT WAY AT	Purpose: QUARTERLY GW MONTORING									
	Special Instructions / Comments:									
Telephone: 500 7035420 FAX: (500) 791-0	0271									
REPORT TO: Joseph Cotton SAMPLER: Joseph	eigh Cotton	P.O. #:	EMAIL:	2214620	adli com					
TURNAROUND TIME: SAMPLE TYPE:	REPORT FOR	TAMS	<u>0</u>							
	Air QC Level IV	3 - Full List 3 - 8010 List 5 K MTBE 5 K MTBE	3081 - 17] 7 Metals		ANALYSIS					
7 Work Days 2 Work Days 2 - 8 Hours Waste Water Ground Water	Other Excel / EDD	8 - 8 B - 8 B - F	- 808 32 M - 1 M - 1 List V		REQUESTED					
5-Work Days 1 Work Day Other Soil	Z Cei / EDD	EPA 8260B EPA 8260B THP gas Coxygenates THP Diesel Motor Oil								
LAB ID CLIENT'S SAMPLE I.D. DATE / TIME SAMPLED MA		THP gas CONSTHER CONS	Pesticide - 8081		REMARKS					
00/A MW-1 10:00AM 10-25-8 - U		MBS								
002 A MW-Z 10.30km	1									
003A MW-3 10:52A	7									
004A MW-4 12:30 PM										
05A MW-5 1107PM)			·							
006A MW-6 2:12 PM										
207A MW-7 3:15Pm										
08 A MW-8 41.20 Pm										
009A GW-1 5:307M)										
510A GNO-2 6:10 PM (10-25-8				1	# 12/2 #					
Relinquished By: Print: Date: 1 0 0 16 -27	Time:	Received By:	Print:	Date: (0/27/08	Time: 9215au					
2 Relinquished By: Print: Date:	Time:	Received By:	Print:	Date!	Time:					
Were Samples Received in Good Condition? Yes NO Sample	les on Ice? Yes	NO Method of Shipment	Dall:	Sample goals intest?	Yes NO N/A					
NOTE: Samples are discarded by the laboratory 30 days from date of r	Z	- <i>/</i>	y y	Page						

Log In Reviewed By



483 Sinclair Frontage Road Milpitas, CA 95035 Phone: 408.263.5258 FAX: 408.263.8293

CHAIN OF CUSTODY

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

LAB WORK ORDER NO 08 10 19/

	www.torrentiab.com			1,							. 9				
Company Name: IMPIRCT ENVIRONMENTES			Locati	Purpose: OUNCERLY QW MONITORING									_		
Address: 39120 ARGONA	"YERW TON	#223		Purpo	se: 💍	SP42	The	_Y_	Qu	<u> </u>	Lon	TOP	12	5	_
City: FREMONT SI	tate: CA	Zip Code:	94538	Specia	al Instru	ctions /	Comm	ents:	3.				٠.		
Telephone: (510) 7035420FA	(50) 791	-027	1 .	.											
REPORT TO: Joseph Cotto	SAMPLER:	seph (Jotton	P.O. #	¥:				. 6	EMAIL:	. 10	レンド	462	eadiron	.
TURNAROUND TIME:	SAMPLE TYPE	•	REPORT FO		t st	器	e		. •					1	· .
10 Work Days 3 Work Days Noon - N	Ixt Day Storm Water	Air	QC'Level	IV ·	\ 8260B - Full List \ 8260B - 8010 List	CONTRACT SOURCE SOURCE	∏Si-Gel			Metals ☐ CAM - 17 ☐ LUFT 5 ☐ 7 Metals				ANALYSIS	
7 Work Days 2 Work Days 2 - 8 Hou	Waste Water	Other	⊠ EDF		3-80 8-80			Pesticide - 8081	8	1-17	ist			REQUESTED	•
5 Work Days 1 Work Day 0ther	Ground Wate	r	Excel / El	OD	3260	jas enate	Jiese r Oil	- ojde	808	CAN					
	,	· · · · · · · · · · · · · · · · · · ·			EPA (XIHP gas DOXygenates	THP Diesel	Pestii	PCB - 8082	ls	3270 2AHs		1.		-
LAB ID CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE		Z Z	图图			Meta □	270 Full List			REMARKS	ŀ
ONA GW-3	7:02	Ph		AMBER	1	V	X								
orum GW-3	10-25-8	M	7 3	UORS!											
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Reimouished By Print:	Date:		Time:		Receiv	red By:	Ja	hù	Print:	1		Date:	[`	Time:	<u> </u>
1 10000 3800		27-8	Time				***	***	D.:	an in the	e war gareaar)O	120	92150	
2 Relinguished By: Print.	Date:		Time:		Receiv	ed By:	-	- NAL	Print:	A.,		Date:		Time:	
Were Samples Received in Good Condition?															
NOTE: Samples are discarded by the lab	_					s are ma			ا ا -	4				ge <u>2 (of 2</u>	_
Log in By:	Date:	Annual Control of Cont	og In Review	7		a piddin gare ngarani	And the second s	- Tanana ang managan da	Da	ite:		NO DE LA COMP	ı aç	<u> </u>	-