



**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**  
  
4:20 pm, Jun 28, 2012  
Alameda County  
Environmental Health

Subject: Third & Fourth Quarter 2009 Groundwater Monitoring Report \_RO0002933  
1409 – 1417 12<sup>th</sup> 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 2009 Groundwater Monitoring Report for the property located at 1409 – 1417 12<sup>th</sup> 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 2009 Groundwater Monitoring Report \_RO0002933  
1409 – 1417 12<sup>th</sup> Street, Oakland, California

Dear Mr. Wickman:

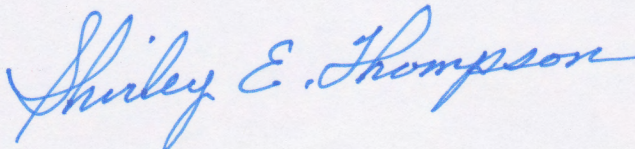
Attached is the Third & Fourth Quarter 2009 Groundwater Monitoring Report for the property located at 1409 – 1417 12<sup>th</sup> Street, Oakland, California.

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

Sincerely,



Shirley E. Thompson  
Property Owner

**THIRD & FOURTH QUARTER 2009  
GROUNDWATER MONITORING REPORT**

**1409 – 1417 12<sup>th</sup> Street  
OAKLAND, CALIFORNIA**

Prepared for

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

January 10, 2011

Prepared by

**IES**  
**Impact Environmental Services**

39120 Argonaut Way, Suite 223  
Fremont, California 94538



**THIRD AND FOURTH QUARTER 2009  
GROUNDWATER MONITORING REPORT  
1409-1417 12<sup>TH</sup> 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 2009 Groundwater Monitoring Report for the property located at 1409-1417 12<sup>th</sup> Street in Oakland, California (Figure 1). This report presents results of groundwater monitoring conducted at the subject property on July 26, 2009 and November 6, 2009. 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 property<sup>1</sup>.

**SITE CONTACT INFORMATION**

The site address and contact information is as follows:

**Site Address:**  
1409-1417 12<sup>th</sup> Street  
Oakland, CA  
APN 004-063-06

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

**SITE BACKGROUND**

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

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<sup>1</sup> Alameda County Environmental Health Services Letter\_Fuel Leak Case No. RO2933 Global ID T0600158621, Thompson Property, 1409-1417 12<sup>th</sup> 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 Property<sup>2</sup>.

### **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 southwest<sup>3</sup>. 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.

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

<sup>3</sup> 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 12<sup>th</sup> Street site has been the subject of numerous environmental investigations<sup>4,5,6,7,8</sup> 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)<sup>9</sup> 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 120 mg/kg were detected in soil samples collected from the site. TPHg was detected in groundwater samples at a maximum concentration of 52,000µg/L. Benzene, toluene, ethylbenzene, and total xylenes (BTEX) were detected in groundwater at maximum concentrations of 8,700µg/L, 2,200µg/L, 2,000µg/L, 7,200µg/L, respectively. 1,2-Dichloroethane was detected at a maximum concentration of 570µg/L. Soil-vapor samples collected from the site were found to contain TPHg at a maximum concentration of 52,000ug/m<sup>3</sup>, benzene as high as 1,200 ug/m<sup>3</sup>, and vinyl chloride to 260ug/m<sup>3</sup>.

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

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

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

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

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

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

<sup>9</sup> 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 2009 GROUNDWATER MONITORING EVENTS**

On July 26, 2009 and November 6, 2009, 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 quarter of 2009 are presented in Appendix A. Each well was purged until temperature, conductivity, and pH stabilized. Samples were collected using a disposable bailer, placed in laboratory-supplied containers, and properly preserved in an ice-cooled container. Chain-of-custody documentation accompanied the samples through collection and delivery to the analytical laboratory. Purge water was contained in a 55-gallon drum, which was left at the subject site pending disposal in accordance with groundwater analytical results. Groundwater samples were submitted to Torrent Laboratory and analyzed for several constituents of concern (COCs) including TPHd and TPHmo by EPA Method 8015; and TPHg, BTEX, and oxygenates methyl tert-butyl ether (MTBE), diisopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), tert-Amyl methyl ether (TAME), and t-butyl alcohol (t-Butanol) by EPA Method 8260. During the third quarter 2009, silica-gel cleanup applied during analysis of samples analyzed for TPHd.

### **Groundwater Elevations and Gradient**

DTW measurements were recorded on the Well Gauging Data Sheet for both the third and fourth quarters of 2009 are included in Appendix A. Groundwater elevation data for wells for both quarters are also presented on Table 1. 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.

Groundwater contour maps for July 2009 and November 2009 are presented as Figures 3 and 4, respectively. The groundwater elevation contour map for the third quarter (July) 2009 indicates that the direction of shallow groundwater flow is to the northwest at an approximate gradient of 0.0009. The groundwater elevation contour map for the fourth quarter (November) 2009 indicates that the direction of shallow groundwater flow is to the northwest at an approximate gradient of 0.0015.

### **Groundwater Sample Results**

Groundwater sample results for the third and fourth quarter 2009 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/TPHd/TPHmo and benzene detected in groundwater samples during the third quarter 2009 are presented in Figures 5 and 6, respectively. Maps showing the concentrations of TPHg/TPHd/TPHmo and benzene detected in groundwater samples during the fourth quarter 2009 are presented in Figures 7 and 8, respectively.

#### Third Quarter 2009

During the third quarter 2009, constituents of concern were not detected at or above method detection limits (MDLs) in groundwater samples collected from wells MW-1 through MW-8, and well GW-3. The groundwater sample from well GW-1 contained 5,700µg/L TPHg, 540µg/L TPHd, 1,100µg/L benzene, 54µg/L toluene, 120µg/L ethylbenzene, and 100µg/L total xylenes. The groundwater sample collected from well GW-2 was found to contain 550µg/L TPHg, 0.740µg/L of benzene, 9.5µg/L toluene, 12µg/L ethylbenzene, and 79µg/L total xylenes.

#### Fourth Quarter 2009

During the fourth quarter 2009, constituents of concern were not detected at or above method detection limits (MDLs) in groundwater samples collected from wells MW-1 through MW-7,



and GW-2. The groundwater sample collected from well MW-8 was found to contain 220µg/L TPHg. The groundwater sample from well GW-1 contained 120µg/L TPHg, 138µg/L TPHd, 3.9µg/L benzene, 2.1µg/L ethylbenzene, and 12µg/L total xylenes. The groundwater sample collected from well GW-3 was found to contain 0.72µg/L MTBE.

## **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 2009, the TPHg detected in groundwater samples collected from wells GW-2 and GW-3 contained TPH as gasoline, but also contained significant portions of heavier hydrocarbons non-gasoline hydrocarbons within the C5-C12 range that were quantified as gasoline. As a result, the TPHg value reported at these samples may be biased. The sample chromatogram for TPHd detected in the sample collected from well GW-1 does not resemble the typical diesel pattern due to detections of fuel lighter than diesel. However, hydrocarbons within the diesel range were quantified as diesel.

During the fourth quarter 2009, the sample chromatograms for TPHg detected in groundwater sample collected from wells MW-8 and GW-3 did not resemble the standard gasoline pattern. The sample chromatogram for TPHd detected in the sample collected from well GW-1 does not resemble the typical diesel pattern due to detections of fuel lighter than diesel. However, hydrocarbons within the diesel range were quantified as diesel.

## **MANUAL IN-SITU CHEMICAL OXIDATION TREATMENT OF GROUNDWATER**

From July 2009 to November 2009, groundwater wells MW-8, GW-1, and GW-3 were treated with a total of 205 gallons of 8% hydrogen peroxide. On July 3<sup>rd</sup> wells MW-8, GW-1, and GW-

3 were treated with approximately 7 gallons, 12 gallons, and 16 gallons, respectively. On September 12<sup>th</sup> wells MW-8, GW-1, and GW-3 were treated with approximately 22 gallons, 26 gallons, and 18 gallons, respectively. On October 10<sup>th</sup> wells MW-8, GW-1, and GW-3 were treated with approximately 13 gallons, 17 gallons, and 20 gallons, respectively. On November 7<sup>th</sup> wells MW-8, GW-1, and GW-3 were treated with approximately 13 gallons, 17 gallons, and 24 gallons, respectively. Field Log Sheets for Hydrogen Peroxide injection are included in Appendix C.

## **DISCUSSION OF RESULTS**

The results of groundwater samples collected during the third and fourth quarters of 2009 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 2009

During the third quarter 2009, no constituents of concern were detected above their respective ESLs in groundwater samples collected from wells MW-1 through MW-8 and GW-3. The groundwater sample collected from well GW-1 contained concentrations of TPHg (ESL of 100µg/L), TPHd (ESL of 100µg/L), benzene (ESL of 1µg/L), toluene (ESL of 40µg/L), ethylbenzene (ESL of 30µg/L), and total xylenes (20µg/L) above their respective ESLs. The groundwater sample total collected from wells GW-2 was found to contain concentrations of TPHg, benzene, and total xylenes above their respective ESLs.

### Fourth Quarter 2009

During the fourth quarter 2009, no constituents of concern were detected above their respective ESLs in groundwater samples collected from wells MW-1 through MW-7 and wells GW-2 and GW-3. The groundwater sample collected from well GW-1 contained concentrations of TPHg, TPHd and benzene above their respective ESLs. The groundwater sample total collected from well MW-8 was found to contain TPHg at a concentration above its respective ESLs.



It should be noted that during the third and fourth quarter 2009, concentrations of constituents of concern in wells MW-8, GW-1, and GW-3 have decreased significantly from previous sampling events. However, groundwater in wells MW-8, GW-1, and GW-3 were treated with 8% hydrogen peroxide on November 7, 2009, five days before groundwater samples were collected from these wells. It is possible that the hydrogen peroxide introduced into these wells had not dissipated within the five days and as a result to reported values of TPH and VOCs in these well may have been biased low during this sampling episode.

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 and GW-1.

## 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 quarter of 2009, groundwater samples collected from wells GW-1 and GW-2 contained at least one COCs above respective residential ESLs.
- During the fourth quarter of 2009, groundwater samples collected from wells MW-8 and GW-1 contained at least one COCs above respective residential ESLs.
- It should be noted that during the third and fourth quarter 2009, concentrations of constituents of concern in wells MW-8, GW-1, and GW-3 have decreased significantly from previous sampling events. However, groundwater in wells MW-8, GW-1, and GW-3 were treated with 8% hydrogen peroxide on November 7, 2009, five days before groundwater samples were collected from these wells. It is possible that the hydrogen peroxide introduced into these wells had not dissipated within the five days and as a result to reported values of TPH and VOCs in these well may have been biased low during this sampling episode.

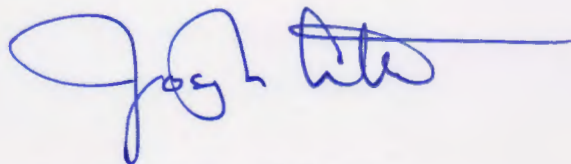
- The groundwater elevation contour map for the third quarter (July) 2009 indicates that the direction of shallow groundwater flow is to the northwest at an approximate gradient of 0.0009. The groundwater elevation contour map for the fourth quarter (November) 2009 indicates that the direction of shallow groundwater flow is to the northwest at an approximate gradient of 0.0015.
- 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 and GW-1.
- Construction of the DPE system and soil-vapor and groundwater remediation systems were completed at the site during the fourth quarter 2009. System testing and full-scale operation of the DPE system commenced during the first quarter 2010.

### RECOMMENDATIONS

IMPACT recommends continuing quarterly groundwater monitoring to evaluate temporal changes in groundwater quality and to monitor groundwater plume migration. Impact further recommends instituting full-scale operation of the dual-phase vacuum-enhanced extraction (DPE) to remove petroleum hydrocarbons from soil and groundwater at the subject property.

### 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 26, 2009)

Figure 4 – Groundwater Elevation Contour Map (November 6, 2009)

Figure 5 – Map of TPHg/TPHd/TPHmo in Groundwater (July 2009)

Figure 6 – Map of Benzene in Groundwater (July 2009)

Figure 7 – Map of TPHg/TPHd/TPHmo in Groundwater (November 2009)

Figure 8 – Map of Benzene in Groundwater (November 2009)

Appendices

Appendix A – Well Sampling Data Sheets

Appendix B – Certified Laboratory Analytical Report

Appendix C – Manual Hydrogen Peroxide Well Treatment Data Sheets

## **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 2009**  
**1409-1417 12th Street**  
**Oakland, California**

| Well No. | Top-of-Casing<br>Elevation<br>(feet, MSL) <sup>1</sup> | Date<br>Measured | Floating Product<br>Thickness<br>(feet) | Depth to<br>Water<br>(feet) | Groundwater<br>Elevation<br>(feet, MSL) <sup>1</sup> |
|----------|--|------------------|---|-----------------------------|--|
| MW-1     | 21.49  | 11/06/09         | 0.0                                     | 11.79                       | 9.70   |
|          |  | 07/26/09         | 0.0                                     | 11.81                       | 9.68   |
|          |  | 04/29/09         | 0.0                                     | 10.00                       | 11.49  |
|          |  | 01/25/09         | 0.0                                     | 12.40                       | 9.09   |
|          |  | 10/25/08         | 0.0                                     | 12.68                       | 8.81   |
|          |  | 07/27/08         | 0.0                                     | 11.99                       | 9.50   |
|          |  | 04/30/08         | 0.0                                     | 10.52                       | 10.97  |
| MW-2     | 20.61  | 11/06/09         | 0.0                                     | 11.01                       | 9.60   |
|          |  | 07/26/09         | 0.0                                     | 10.99                       | 9.62   |
|          |  | 04/29/09         | 0.0                                     | 9.51                        | 11.10  |
|          |  | 01/25/09         | 0.0                                     | 11.54                       | 9.07   |
|          |  | 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  | 11/06/09         | 0.0                                     | 11.44                       | 9.65   |
|          |  | 07/26/09         | 0.0                                     | 11.42                       | 9.67   |
|          |  | 04/29/09         | 0.0                                     | 9.70                        | 11.39  |
|          |  | 01/25/09         | 0.0                                     | 12.00                       | 9.09   |
|          |  | 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  | 11/06/09         | 0.0                                     | 10.69                       | 9.66   |
|          |  | 07/26/09         | 0.0                                     | 10.65                       | 9.70   |
|          |  | 04/29/09         | 0.0                                     | 8.88                        | 11.47  |
|          |  | 01/25/09         | 0.0                                     | 11.22                       | 9.13   |
|          |  | 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  | 11/06/09         | 0.0                                     | 10.41                       | 9.64   |
|          |  | 07/26/09         | 0.0                                     | 10.42                       | 9.63   |
|          |  | 04/29/09         | 0.0                                     | 9.00                        | 11.05  |
|          |  | 01/25/09         | 0.0                                     | 10.98                       | 9.07   |
|          |  | 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  | 11/06/09         | 0.0                                     | 10.02                       | 9.65   |
|          |  | 07/26/09         | 0.0                                     | 10.03                       | 9.64   |
|          |  | 04/29/09         | 0.0                                     | 8.25                        | 11.42  |
|          |  | 01/25/09         | 0.0                                     | 10.58                       | 9.09   |
|          |  | 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  | 11/06/09         | 0.0                                     | 10.23                       | 9.65   |
|          |  | 07/26/09         | 0.0                                     | 10.21                       | 9.67   |
|          |  | 04/29/09         | 0.0                                     | 8.45                        | 11.43  |
|          |  | 01/25/09         | 0.0                                     | 10.79                       | 9.09   |
|          |  | 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  |

**Table 1**  
**Groundwater Elevations\_Third & Fourth Quarter 2009**  
**1409-1417 12th Street**  
**Oakland, California**

| Well No. | Top-of-Casing<br>Elevation<br>(feet, MSL) <sup>1</sup> | Date<br>Measured | Floating Product<br>Thickness<br>(feet) | Depth to<br>Water<br>(feet) | Groundwater<br>Elevation<br>(feet, MSL) <sup>1</sup> |
|----------|--|------------------|---|-----------------------------|--|
| MW-8     | 20.71  | 11/06/09         | NM                                      | NM                          | NM   |
|          |  | 07/26/09         | 0.0                                     | 11.07                       | 9.64   |
|          |  | 04/29/09         | 0.0                                     | 10.68                       | 10.03  |
|          |  | 01/25/09         | 0.0                                     | 11.63                       | 9.08   |
|          |  | 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  | 11/06/09         | NM                                      | NM                          | NM   |
|          |  | 07/26/09         | 0.0                                     | 10.59                       | 9.64   |
|          |  | 04/29/09         | 0.0                                     | 8.86                        | 11.37  |
|          |  | 01/25/09         | 0.0                                     | 11.15                       | 9.08   |
|          |  | 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  | 11/06/09         | 0.0                                     | 10.93                       | 9.64   |
|          |  | 07/26/09         | 0.0                                     | 11.21                       | 9.36   |
|          |  | 04/29/09         | 0.0                                     | 8.80                        | 11.77  |
|          |  | 01/25/09         | 0.0                                     | 11.50                       | 9.07   |
|          |  | 10/25/08         | 0.0                                     | 11.82                       | 8.75   |
|          |  | 07/27/08         | 0.0                                     | 11.16                       | 9.41   |
|          |  | 04/30/08         | 0.0                                     | 9.70                        | 10.87  |
| GW-3     | 20.57  | 11/06/09         | 0.0                                     | 10.64                       | 9.93   |
|          |  | 07/26/09         | 0.0                                     | 10.89                       | 9.68   |
|          |  | 04/29/09         | 0.0                                     | 9.16                        | 11.41  |
|          |  | 01/25/09         | 0.0                                     | 11.49                       | 9.08   |
|          |  | 10/25/08         | 0.0                                     | 11.92                       | 8.65   |
|          |  | 07/27/08         | 0.0                                     | 11.12                       | 9.45   |
|          |  | 04/30/08         | 0.0                                     | 9.60                        | 10.97  |

MSL= Mean Sea Level

NM= Not measured or gauged

**Table 2**  
**Third and Fourth Quarter 2009**  
**Groundwater Analytical Results**  
**1409-1417 12th Street,**  
**Oakland, California**

| Sample ID                     | Date Sampled | TPHg<br>(ug/L) | TPHd<br>(ug/L) | TPHmo<br>(ug/L) | Benzene<br>(ug/L) | Toluene<br>(ug/L) | Ethylbenzene<br>(ug/L) | Xylenes<br>(ug/L) | MtBE<br>(ug/L) | t-Butanol<br>(ug/L) | ETBE<br>(ug/L) | DIPE<br>(ug/L) | TAME<br>(ug/L) |
|-------------------------------|--------------|----------------|----------------|-----------------|-------------------|-------------------|------------------------|-------------------|----------------|---------------------|----------------|----------------|----------------|
| MW-1                          | 11/06/09     | <55            | <100           | <200            | <0.55             | <0.55             | <0.55                  | <1.6              | <0.55          | <5.5                | <0.55          | <0.55          | <0.55          |
|                               | 07/26/09     | <50            | <100           | <200            | <0.50             | <0.50             | <0.50                  | <1.5              | <0.50          | <10                 | <0.50          | <0.50          | <0.50          |
|                               | 04/29/09     | <50            | <100           | <200            | <0.50             | <0.50             | <0.50                  | <1.5              | <0.50          | <10                 | <0.50          | <0.50          | <0.50          |
|                               | 01/25/09     | <50            | <100           | <200            | <0.500            | <0.500            | <0.500                 | <1.5              | <0.500         | <10                 | <0.500         | <0.500         | <0.500         |
|                               | 10/25/08     | 95x            | <100           | <200            | 1.68              | 1.17              | <0.500                 | <1.5              | <0.500         | <10                 | <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                          | 11/06/09     | <50            | <100           | <200            | <0.50             | <0.50             | <0.50                  | <1.5              | <0.50          | <5.0                | <0.50          | <0.50          | <0.50          |
|                               | 07/26/09     | <50            | <100           | <200            | <0.50             | <0.50             | <0.50                  | <1.5              | <0.50          | <10                 | <0.50          | <0.50          | <0.50          |
|                               | 04/29/09     | <50            | <100           | <200            | <0.50             | <0.50             | <0.50                  | <1.5              | <0.50          | <10                 | <0.50          | <0.50          | <0.50          |
|                               | 01/25/09     | <50            | <100           | <200            | <0.500            | <0.500            | <0.500                 | <1.5              | <0.500         | <10                 | <0.500         | <0.500         | <0.500         |
|                               | 10/25/08     | 71x            | <100           | <200            | <0.500            | <0.500            | <0.500                 | <1.5              | <0.500         | <10                 | <0.500         | <0.500         | <0.500         |
|                               | 07/27/08     | <50            | <100           | <200            | <0.500            | <0.500            | <0.500                 | <1.5              | <0.500         | <10                 | <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                          | 11/06/09     | <50            | <100           | <200            | <0.50             | <0.50             | <0.50                  | <1.5              | <0.50          | <5.0                | <0.50          | <0.50          | <0.50          |
|                               | 07/26/09     | <50            | <120           | <230            | <0.50             | <0.50             | <0.50                  | <1.5              | <0.50          | <10                 | <0.50          | <0.50          | <0.50          |
|                               | 04/29/09     | <50            | <100           | <200            | <0.50             | <0.50             | <0.50                  | <1.5              | <0.50          | <10                 | <0.50          | <0.50          | <0.50          |
|                               | 01/25/09     | <50            | <100           | <200            | <0.500            | <0.500            | <0.500                 | <1.5              | <0.500         | <10                 | <0.500         | <0.500         | <0.500         |
|                               | 10/25/08     | <50            | <100           | <200            | <0.500            | <0.500            | <0.500                 | <1.5              | <0.500         | <10                 | <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                          | 11/06/09     | <50            | <100           | <200            | <0.50             | <0.50             | <0.50                  | <1.5              | <0.50          | <5.0                | <0.50          | <0.50          | <0.50          |
|                               | 07/26/09     | <50            | <110           | <220            | <0.50             | <0.50             | <0.50                  | <1.5              | <0.50          | <10                 | <0.50          | <0.50          | <0.50          |
|                               | 04/29/09     | <50            | <100           | <200            | <0.50             | <0.50             | <0.50                  | <1.5              | <0.50          | <10                 | <0.50          | <0.50          | <0.50          |
|                               | 01/25/09     | <50            | <100           | <200            | <0.500            | <0.500            | <0.500                 | <1.5              | <0.500         | <10                 | <0.500         | <0.500         | <0.500         |
|                               | 10/25/08     | 61x            | <100           | <200            | <0.500            | <0.500            | <0.500                 | <1.5              | <0.500         | <10                 | <0.500         | <0.500         | <0.500         |
|                               | 07/27/08     | <50            | <100           | <200            | <0.500            | <0.500            | <0.500                 | <1.5              | <0.500         | <10                 | <0.500         | <0.0500        | <0.500         |
|                               | 04/30/08     | <50            | <100           | <200            | <0.500            | <0.500            | <0.500                 | <1.5              | <0.500         | NA                  | NA             | NA             | NA             |
| <i>Residential ESL (DWS)</i>  |              | <i>100</i>     | <i>100</i>     | <i>100</i>      | <i>1</i>          | <i>40</i>         | <i>30</i>              | <i>20</i>         | <i>5</i>       | <i>12</i>           | <i>na</i>      | <i>na</i>      | <i>na</i>      |
| <i>Residential ESL (NDWS)</i> |              | <i>500</i>     | <i>640</i>     | <i>640</i>      | <i>46</i>         | <i>130</i>        | <i>290</i>             | <i>100</i>        | <i>1,800</i>   | <i>18,000</i>       | <i>na</i>      | <i>na</i>      | <i>na</i>      |



**Table 2**  
**Third and Fourth Quarter 2009**  
**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-5                          | 11/06/09     | <50          | <100        | <200         | <0.50          | <0.50          | <0.50               | <1.5           | <0.50        | <5.0             | <0.50       | <0.50       | <0.50       |
|                               | 07/26/09     | <50          | <100        | <200         | <0.50          | <0.50          | <0.50               | <1.5           | <0.50        | <10              | <0.50       | <0.50       | <0.50       |
|                               | 04/29/09     | <50          | <100        | <200         | <0.50          | <0.50          | <0.50               | <1.5           | <0.50        | <10              | <0.50       | <0.50       | <0.50       |
|                               | 01/25/09     | <50          | <100        | <200         | <0.500         | <0.500         | <0.500              | <1.5           | <0.500       | <10              | <0.500      | <0.500      | <0.500      |
|                               | 10/25/08     | 71x          | <100        | <200         | <0.500         | <0.500         | <0.500              | <1.5           | <0.500       | <10              | <0.500      | <0.500      | <0.500      |
|                               | 07/27/08     | <50          | <100        | <200         | <0.500         | <0.500         | <0.500              | <1.5           | <0.500       | <10              | <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                          | 11/06/09     | <50          | <100        | <200         | <0.50          | <0.50          | <0.50               | <1.5           | <0.50        | <5.0             | <0.50       | <0.50       | <0.50       |
|                               | 07/26/09     | <50          | <100        | <200         | <0.50          | <0.50          | <0.50               | <1.5           | <0.50        | <10              | <0.50       | <0.50       | <0.50       |
|                               | 04/29/09     | <50          | <100        | <200         | <0.50          | <0.50          | <0.50               | <1.5           | <0.50        | <10              | <0.50       | <0.50       | <0.50       |
|                               | 01/25/09     | <50          | <100        | <200         | <0.500         | <0.500         | <0.500              | <1.5           | <0.500       | <10              | <0.500      | <0.500      | <0.500      |
|                               | 10/25/08     | 72x          | <100        | <200         | <0.500         | <0.500         | <0.500              | <1.5           | <0.500       | <10              | <0.500      | <0.500      | <0.500      |
|                               | 07/27/08     | <50          | <100        | <200         | <0.500         | <0.500         | <0.500              | <1.5           | <0.500       | <10              | <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                          | 11/06/09     | <50          | <100        | <200         | <0.50          | <0.50          | <0.50               | <1.5           | <0.50        | <5.0             | <0.50       | <0.50       | <0.50       |
|                               | 07/26/09     | <50          | <100        | <200         | <0.50          | <0.50          | <0.50               | <1.5           | <0.50        | <10              | <0.50       | <0.50       | <0.50       |
|                               | 04/29/09     | <50          | <100        | <b>293x</b>  | <0.50          | <0.50          | <0.50               | <1.5           | <0.50        | <10              | <0.50       | <0.50       | <0.50       |
|                               | 01/25/09     | <50          | <100        | <200         | <0.500         | <0.500         | <0.500              | <1.5           | <0.500       | <10              | <0.500      | <0.500      | <0.500      |
|                               | 10/25/08     | 71x          | <100        | <200         | <0.500         | <0.500         | <0.500              | <1.5           | <0.500       | <10              | <0.500      | <0.500      | <0.500      |
|                               | 07/27/08     | <50          | <100        | <200         | <0.500         | <0.500         | <0.500              | <1.5           | <0.500       | <10              | <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-8                          | 11/12/09     | <b>220x</b>  | <100        | <200         | <0.50          | <0.50          | <0.50               | <1.5           | <0.50        | <5.0             | <0.50       | <0.50       | <0.50       |
|                               | 07/26/09     | <50          | <100        | <200         | <0.50          | <0.50          | <0.50               | <1.5           | <0.50        | <10              | <0.50       | <0.50       | <0.50       |
|                               | 04/29/09     | <b>110</b>   | <b>156x</b> | <b>909x</b>  | <b>1.4</b>     | 0.81           | 2.4                 | 6.1            | <0.50        | <10              | <0.50       | <0.50       | <0.50       |
|                               | 01/25/09     | <b>190x</b>  | <100        | <200         | <b>2.10</b>    | 1.47           | 4.94                | 11.8           | <0.500       | <10              | <0.500      | <0.500      | <0.500      |
|                               | 10/25/08     | <b>240x</b>  | <100        | <200         | <b>1.41</b>    | <0.500         | <0.500              | 3.13           | <0.500       | <10              | <0.500      | <0.500      | <0.500      |
|                               | 07/27/08     | <b>198</b>   | <100        | <200         | <b>5.37</b>    | 1.25           | 3.77                | 13.3           | <0.500       | <10              | <0.500      | <0.0500     | <0.500      |
|                               | 04/30/08     | <b>1,049</b> | <b>161</b>  | <200         | <b>13.9</b>    | 12.4           | 9.76                | 160            | <0.500       | NA               | NA          | NA          | NA          |
| <i>Residential ESL (DWS)</i>  |              | <i>100</i>   | <i>100</i>  | <i>100</i>   | <i>1</i>       | <i>40</i>      | <i>30</i>           | <i>20</i>      | <i>5</i>     | <i>12</i>        | <i>na</i>   | <i>na</i>   | <i>na</i>   |
| <i>Residential ESL (NDWS)</i> |              | <i>500</i>   | <i>640</i>  | <i>640</i>   | <i>46</i>      | <i>130</i>     | <i>290</i>          | <i>100</i>     | <i>1,800</i> | <i>18,000</i>    | <i>na</i>   | <i>na</i>   | <i>na</i>   |

**Table 2**  
**Third and Fourth Quarter 2009**  
**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) |
|-------------------------------|--------------|---------------|----------------|--------------|----------------|----------------|---------------------|----------------|--------------|------------------|-------------|-------------|-------------|
| GW-1                          | 11/12/09     | <b>120x</b>   | <b>138x</b>    | <200         | <b>3.9</b>     | <0.50          | 2.1                 | 12             | <0.50        | <5.0             | <0.50       | <0.50       | <0.50       |
|                               | 07/26/09     | <b>5,700</b>  | <b>540x</b>    | <200         | <b>1,100</b>   | <b>54</b>      | <b>120</b>          | <b>100</b>     | <0.50        | <10              | <0.50       | <0.50       | <0.50       |
|                               | 04/29/09     | <b>22,000</b> | <b>3,010x</b>  | <800         | <b>3,000</b>   | <b>580</b>     | <b>830</b>          | <b>2,100</b>   | <22          | <440             | <22         | <22         | <22         |
|                               | 01/25/09     | <b>9,900</b>  | <b>767</b>     | <200         | <b>1,600</b>   | <b>174</b>     | <b>315</b>          | <b>915</b>     | <4.40        | <88.0            | <4.40       | <4.40       | <4.40       |
|                               | 10/25/08     | <b>7200x</b>  | <b>1020x</b>   | <b>296x</b>  | <b>1,010</b>   | <b>161</b>     | <b>89.8</b>         | <b>693</b>     | <2.20        | <44.0            | <2.20       | <2.20       | <2.20       |
|                               | 07/27/08     | <b>18,000</b> | <b>1,060</b>   | <200         | <b>3,360</b>   | <b>146</b>     | <b>533</b>          | <b>1,450</b>   | <22.0        | <440             | <22.0       | <22.0       | <22.0       |
|                               | 04/30/08     | <b>37,000</b> | 7.25           | <200         | <b>2,400</b>   | <b>769</b>     | <b>378</b>          | <b>3,450</b>   | <0.500       | NA               | NA          | NA          | NA          |
| GW-2                          | 11/06/09     | <50           | <100           | <200         | <0.50          | <0.50          | <0.50               | <1.5           | <0.50        | <5.0             | <0.50       | <0.50       | <0.50       |
|                               | 07/26/09     | <b>550</b>    | <110           | <230         | <b>25</b>      | 9.5            | 12                  | <b>79</b>      | <0.50        | <10              | <0.50       | <0.50       | <0.50       |
|                               | 04/29/09     | 82            | <b>&lt;100</b> | <b>205x</b>  | <b>1.7</b>     | 1.1            | 1.2                 | 4.5            | <0.50        | <10              | <0.50       | <0.50       | <0.50       |
|                               | 01/25/09     | <50           | <100           | <200         | <0.500         | <0.500         | <0.500              | <0.500         | <0.500       | <10              | <0.500      | <0.0500     | <0.500      |
|                               | 10/25/08     | <b>100x</b>   | <b>126x</b>    | <b>338x</b>  | <0.500         | <0.500         | <0.500              | <1.5           | <0.500       | <10              | <0.500      | <0.500      | <0.500      |
|                               | 07/27/08     | 61            | <100           | <200         | <0.500         | <0.500         | <0.500              | <1.5           | <0.500       | 15.3             | <0.500      | <0.500      | <0.500      |
|                               | 04/30/08     | <50           | <100           | <200         | <0.500         | <0.500         | <0.500              | <0.500         | <0.500       | NA               | NA          | NA          | NA          |
| GW-3                          | 11/12/09     | <50           | <100           | <200         | <0.50          | <0.50          | <0.50               | <1.5           | 0.72         | <5.0             | <0.50       | <0.50       | <0.50       |
|                               | 07/26/09     | <50           | <100           | <200         | <0.50          | <0.50          | <0.50               | <1.5           | <0.50        | <10              | <0.50       | <0.50       | <0.50       |
|                               | 04/29/09     | <b>500x</b>   | <100           | <b>206x</b>  | <b>63</b>      | 0.63           | <0.50               | 2.9            | <0.50        | <10              | <0.50       | <0.50       | <0.50       |
|                               | 01/25/09     | <50           | <100           | <200         | 0.740          | <0.500         | <0.500              | <1.5           | <0.500       | <10              | <0.500      | <0.0500     | <0.500      |
|                               | 10/25/08     | <b>100x</b>   | <100           | <200         | <b>8.47</b>    | <0.500         | <0.500              | <1.5           | <0.500       | <10              | <0.500      | <0.500      | <0.500      |
|                               | 07/27/08     | 63            | <100           | 200          | <b>3.27</b>    | <0.500         | <0.500              | <1.5           | <0.500       | <10              | <0.500      | <0.500      | <0.500      |
|                               | 04/30/08     | <b>250</b>    | <100           | <200         | <b>46.5</b>    | 1.36           | 2.16                | <1.5           | <0.500       | NA               | NA          | NA          | NA          |
| <i>Residential ESL (DWS)</i>  |              | <i>100</i>    | <i>100</i>     | <i>100</i>   | <i>1</i>       | <i>40</i>      | <i>30</i>           | <i>20</i>      | <i>5</i>     | <i>12</i>        | <i>na</i>   | <i>na</i>   | <i>na</i>   |
| <i>Residential ESL (NDWS)</i> |              | <i>500</i>    | <i>640</i>     | <i>640</i>   | <i>46</i>      | <i>130</i>     | <i>290</i>          | <i>100</i>     | <i>1,800</i> | <i>18,000</i>    | <i>na</i>   | <i>na</i>   | <i>na</i>   |

Abbreviations and Methods:

NA = Not analyzed for particular constituent of concern

na = Not applicable

x = Chromatogram does not resemble typical pattern for specific TPH compound or other non-targeted hydrocarbons causing potentially biasing data

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8260

TPHd= Total Petroleum Hydrocarbons as diesel by EPA Method 8015

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

DIPE= Diisopropyl Ether

ETBE= Ethyl tert-butyl ether

MTBE = methyl-tert-butyl ether (MTBE)

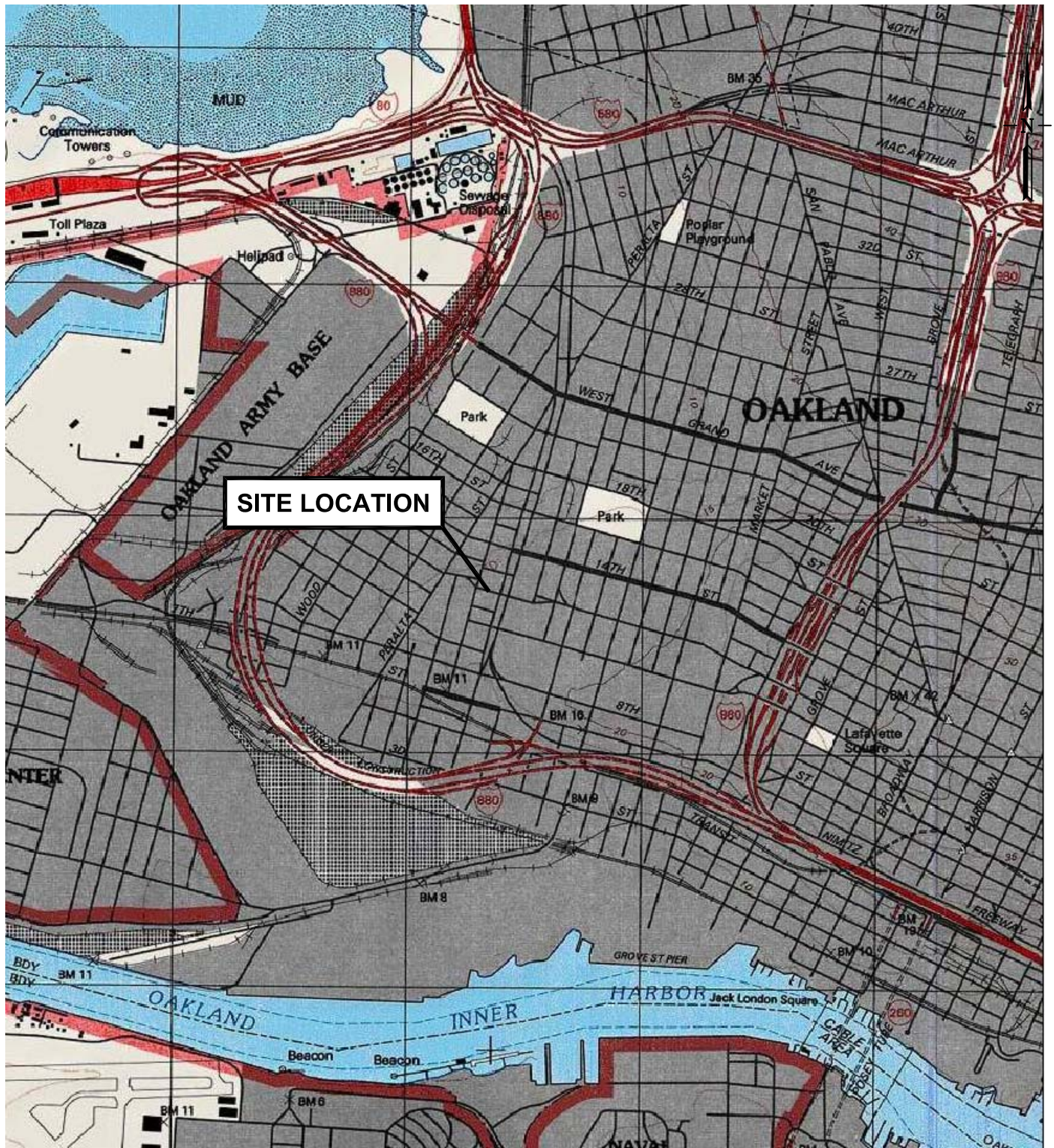
t-Butanol= t-Butyl Alcohol

TAME= tert-Amyl methyl ether

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

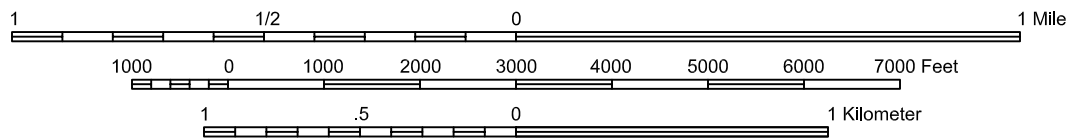
ESL= San Francisco Bay Regional Water Quality Control Board, Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater, May 2008.

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



**SITE LOCATION**

Scale 1:24,000



C:\WORK\IES1\409 12th Street\Figure 1.dwg Layout: Fig 2 Sep 22, 2007 - 8:03pm

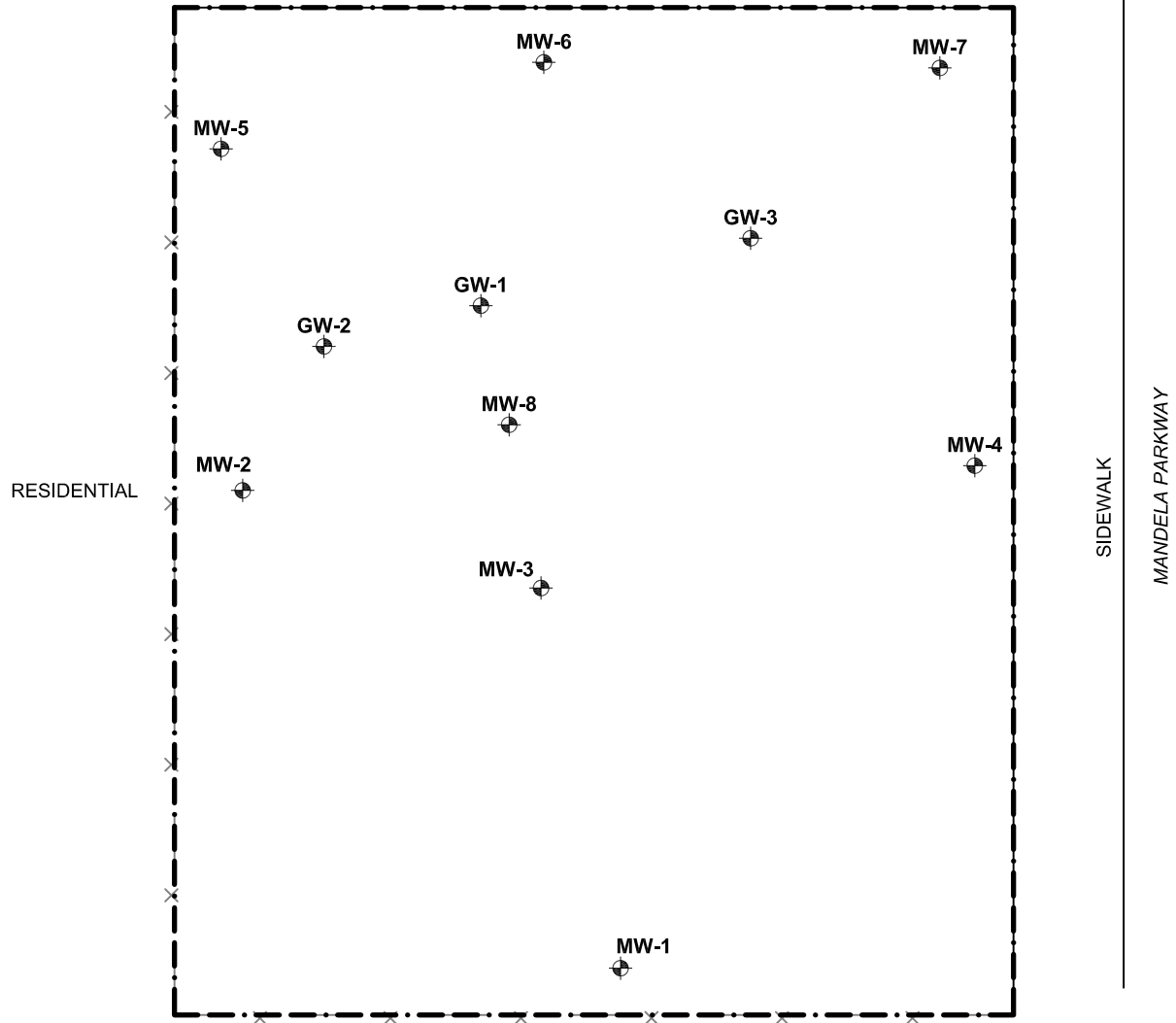
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**Figure 1**  
 1409 to 1417 12TH STREET  
 OAKLAND, CALIFORNIA  
**SITE LOCATION MAP**



12TH STREET

SIDEWALK



RESIDENTIAL

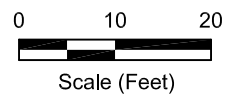
SIDEWALK

MANDELA PARKWAY

**EXPLANATION:**

--- Approximate Property Boundary

MW-1 Monitoring Well Location



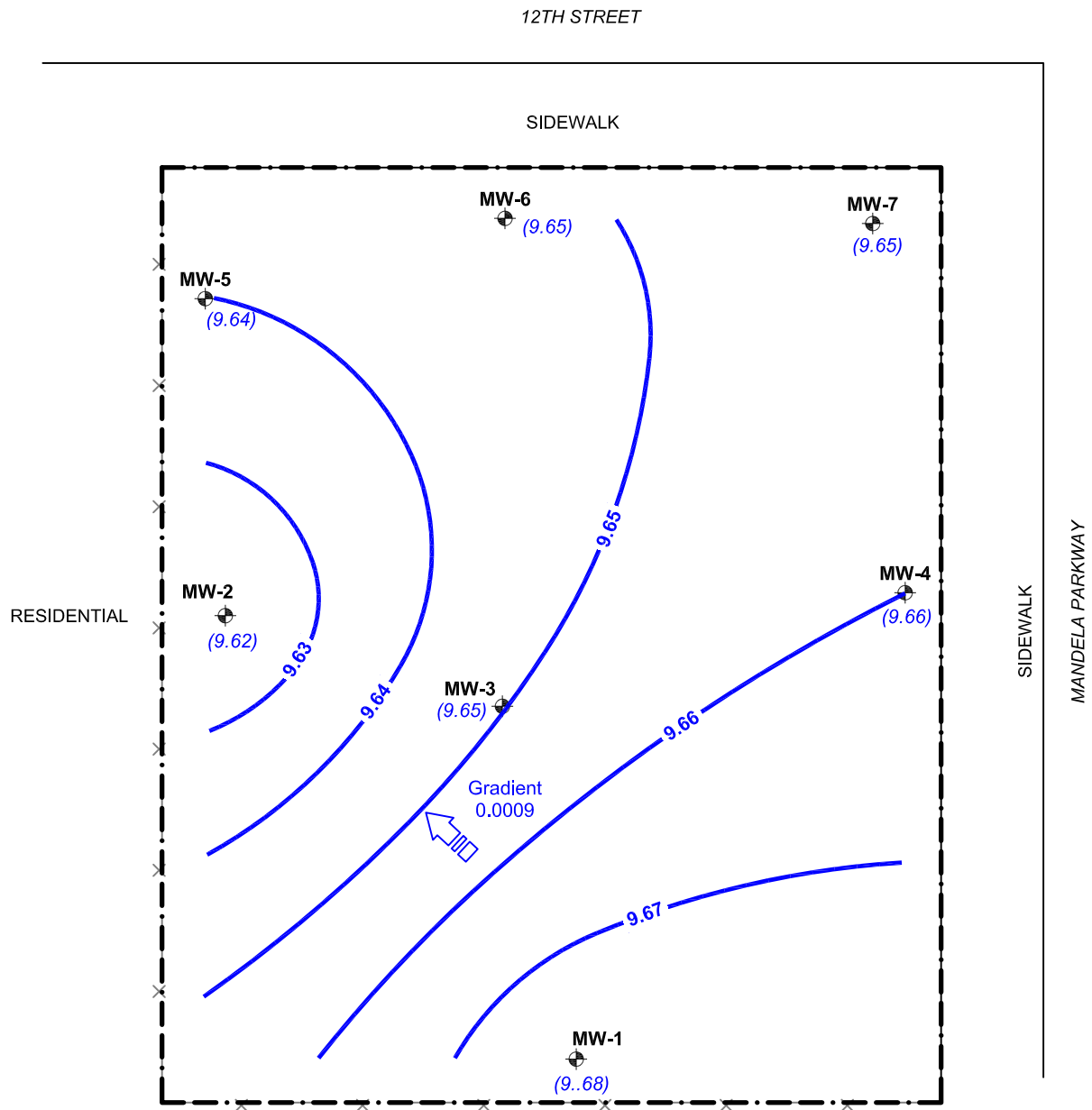
C:\Work\EnviroCAD\IES\1409-1417 12th Street\3-4-Q-09 GW\_Mon\_Rpt\Figure 3-8.dwg Layout: Fig 2 - Site Plan Jan 09, 2011 --4:26pm

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**Figure 2**  
1409 to 1417 12TH STREET  
OAKLAND, CALIFORNIA

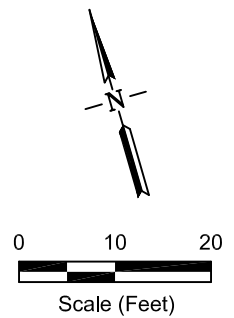
**SITE PLAN**

C:\Work\EnviroCAD\IES\1409-1417 12th Street\3-4Q-09 GW\_Mon\_Rpt\Figure 3-8.dwg Layout: Fig 3 - GW-07-09 Jan 10, 2011 - 7:27pm



**EXPLANATION:**

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

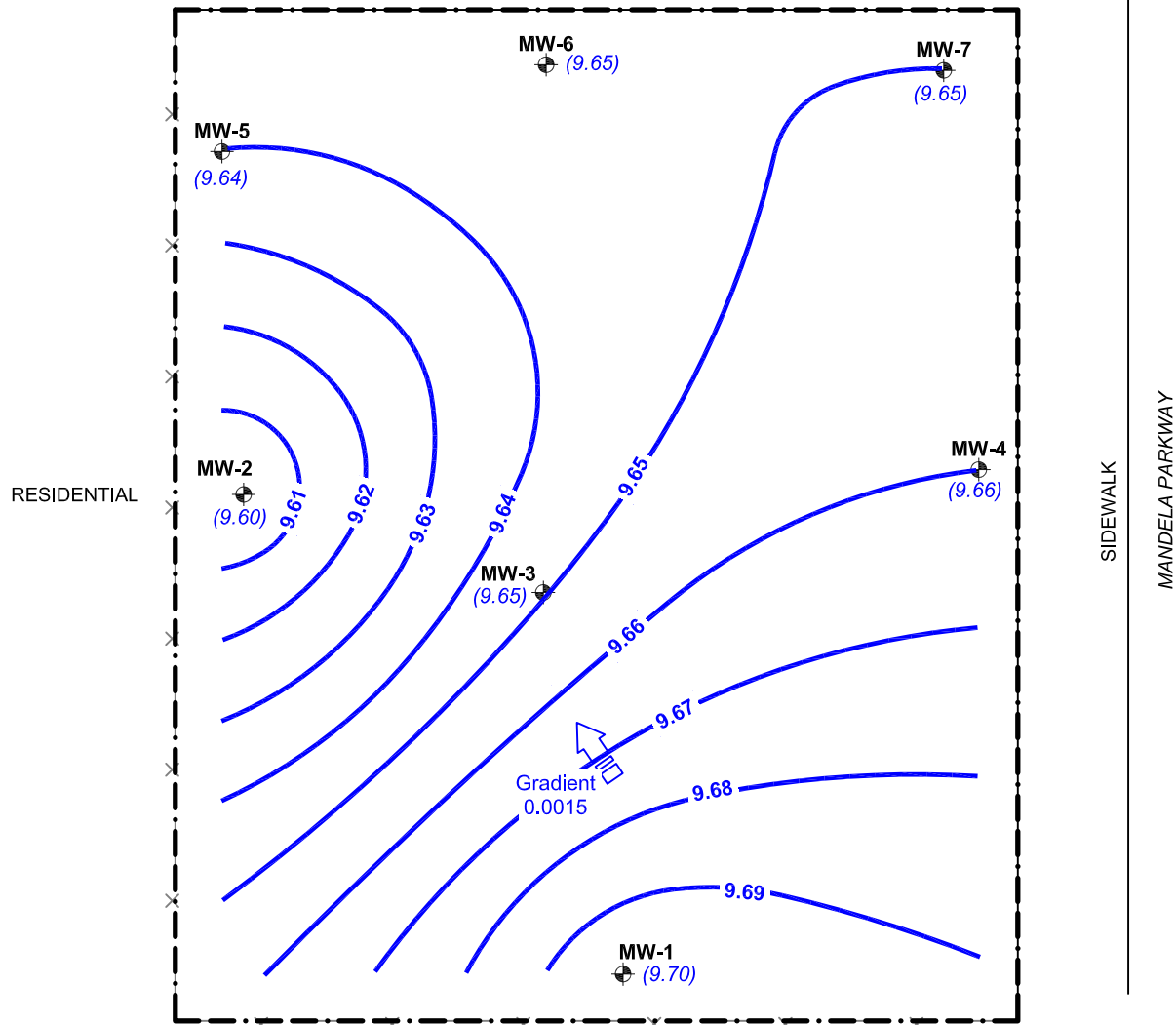


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**Figure 3**  
 1409 to 1417 12TH STREET  
 OAKLAND, CALIFORNIA  
**GROUNDWATER CONTOUR MAP (JULY 2009)**

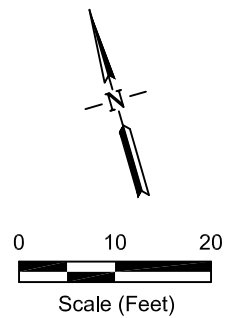
12TH STREET

SIDEWALK



**EXPLANATION:**

- Approximate Property Boundary
- MW-1 Monitoring Well Location
- 9.68 Groundwater Elevation Contour (ft.-MSL)
- (9.65) Groundwater Elevation (ft.-MSL);
- Groundwater Gradient

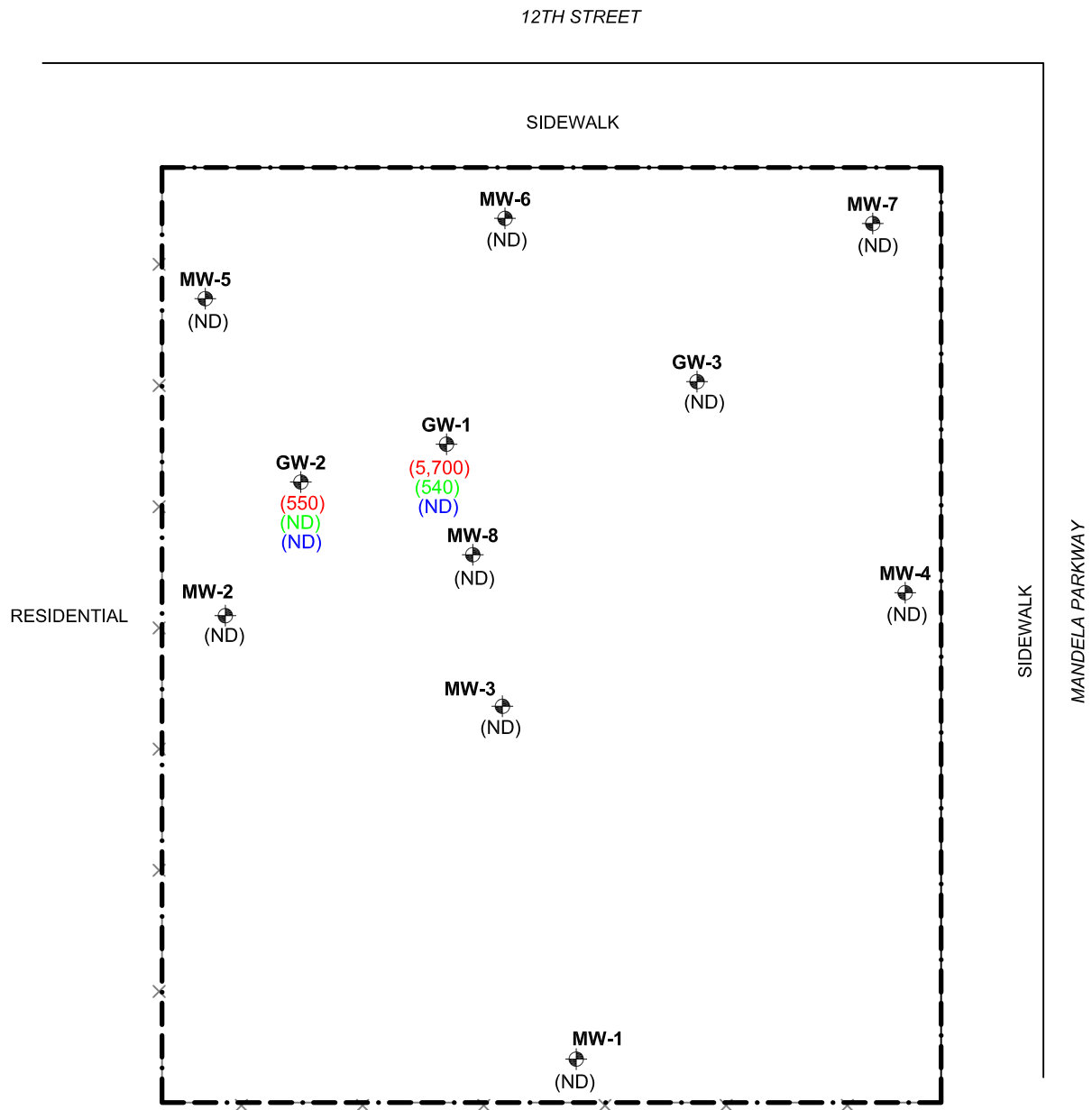


C:\Work\EnviroCAD\IES\1409-1417 12th Street\3-4Q-09 GW\_Mon\_Rpt\Figure 3-8.dwg Layout: Fig 4 - GW-11-09 Jan 10, 2011 - 7:27pm

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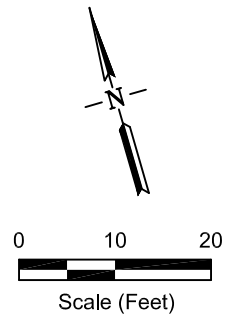
**Figure 4**  
 1409 to 1417 12TH STREET  
 OAKLAND, CALIFORNIA  
**GROUNDWATER CONTOUR MAP (NOVEMBER 2009)**

C:\Work\EnviroCAD\IES\1409-1417 12th Street\3-4Q-09 GW\_Mon\_Rpt\Figure 3-8.dwg Layout: Fig 5 - TPH\_GW-07-09 Jan 10, 2011 - 7:28pm



**EXPLANATION:**

- · — · — · Approximate Property Boundary
- MW-8 Monitoring Well Location
- (5,700) TPHg Results in micrograms per liter (ug/L)
- (540) TPHd Results in micrograms per liter (ug/L)
- (ND) TPHmo non-detect
- (ND) TPHg, TPHd, and TPHmo all non-detect



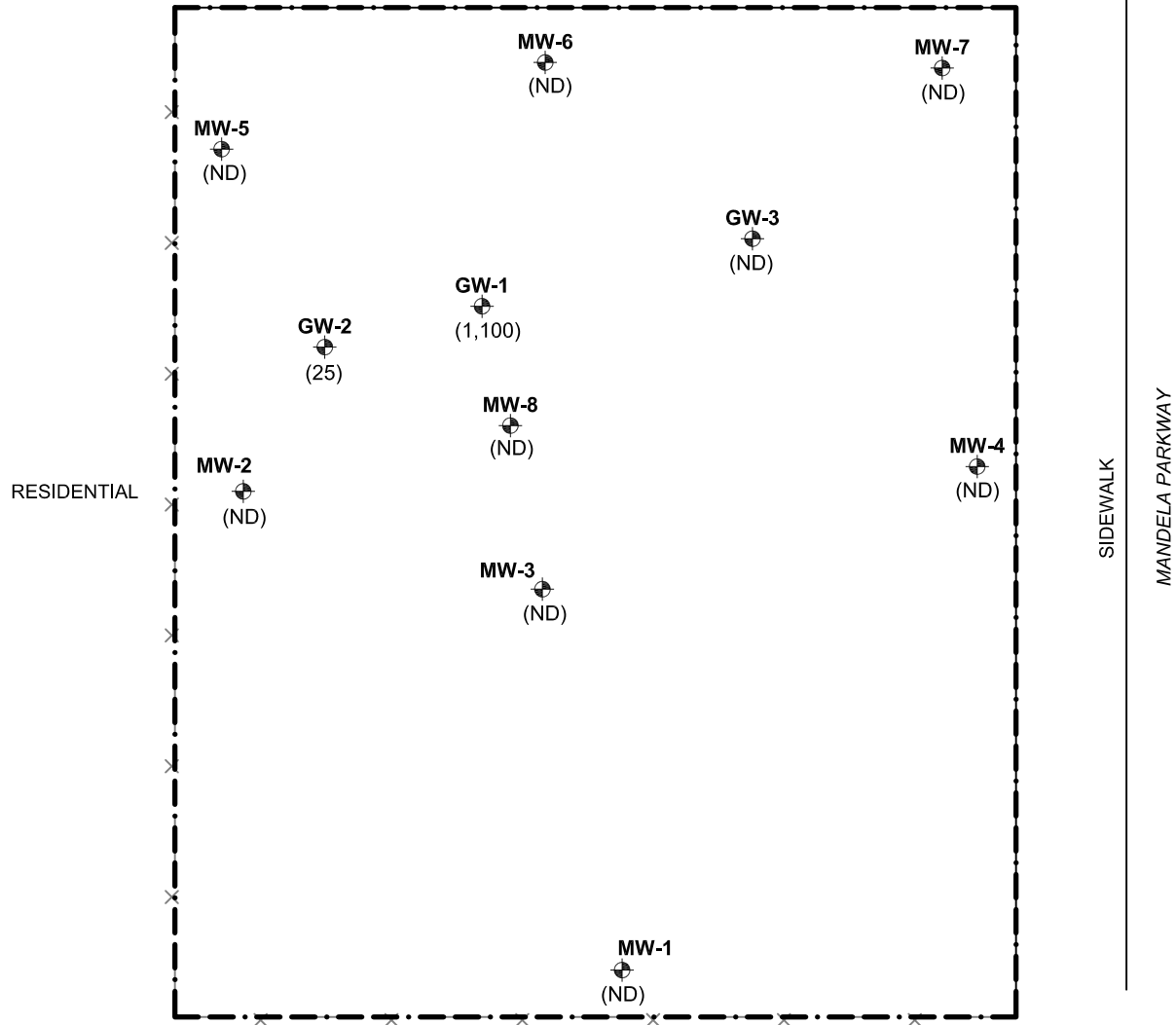
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**Figure 5**  
 1409 to 1417 12TH STREET  
 OAKLAND, CALIFORNIA  
 TPHg, TPHd, and TPHmo IN GROUNDWATER (JULY 2009)



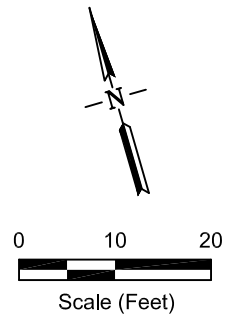
12TH STREET

SIDEWALK



**EXPLANATION:**

- Approximate Property Boundary
- MW-8 Monitoring Well Location
- (1,100) Benzene Results in micrograms per liter (ug/L)



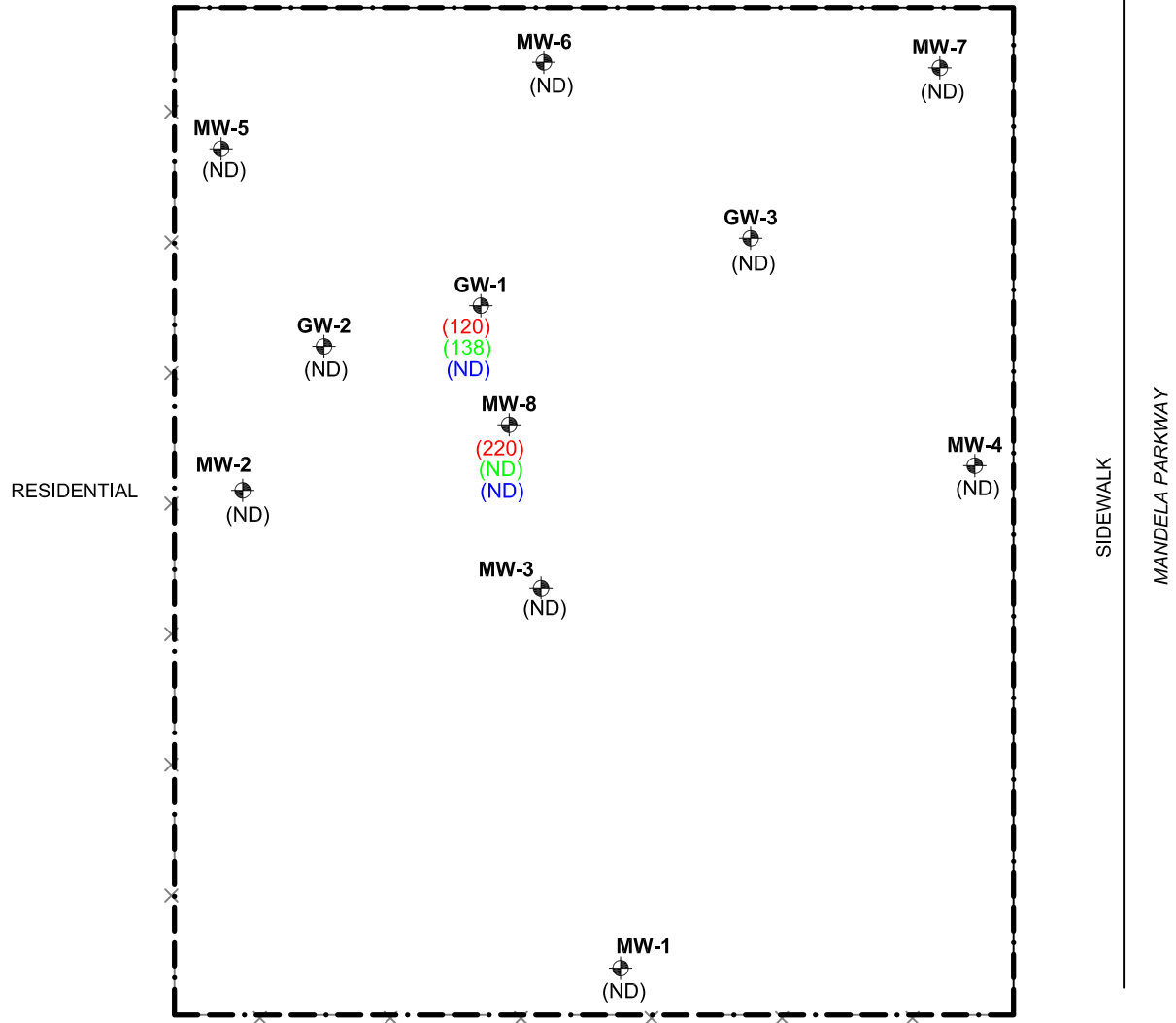
C:\Work\EnviroCAD\IES\1409-1417 12th Street\3-4Q-09 GW\_Mon\_Rpt\Figure 3-8.dwg Layout: Fig 6 - Benzene\_GW-07-09 Jan 10, 2011 - 7:28pm

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**Figure 6**  
 1409 to 1417 12TH STREET  
 OAKLAND, CALIFORNIA  
**BENZENE IN GROUNDWATER (JULY 2009)**

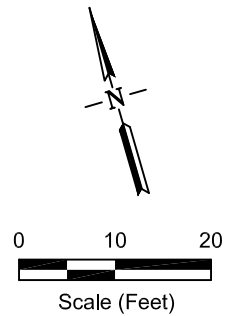
12TH STREET

SIDEWALK



**EXPLANATION:**

- Approximate Property Boundary
- MW-8 Monitoring Well Location
- (120) TPHg Results in micrograms per liter (ug/L)
- (138) TPHd Results in micrograms per liter (ug/L)
- (ND) TPHmo non-detect
- (ND) TPHg, TPHd, and TPHmo all non-detect



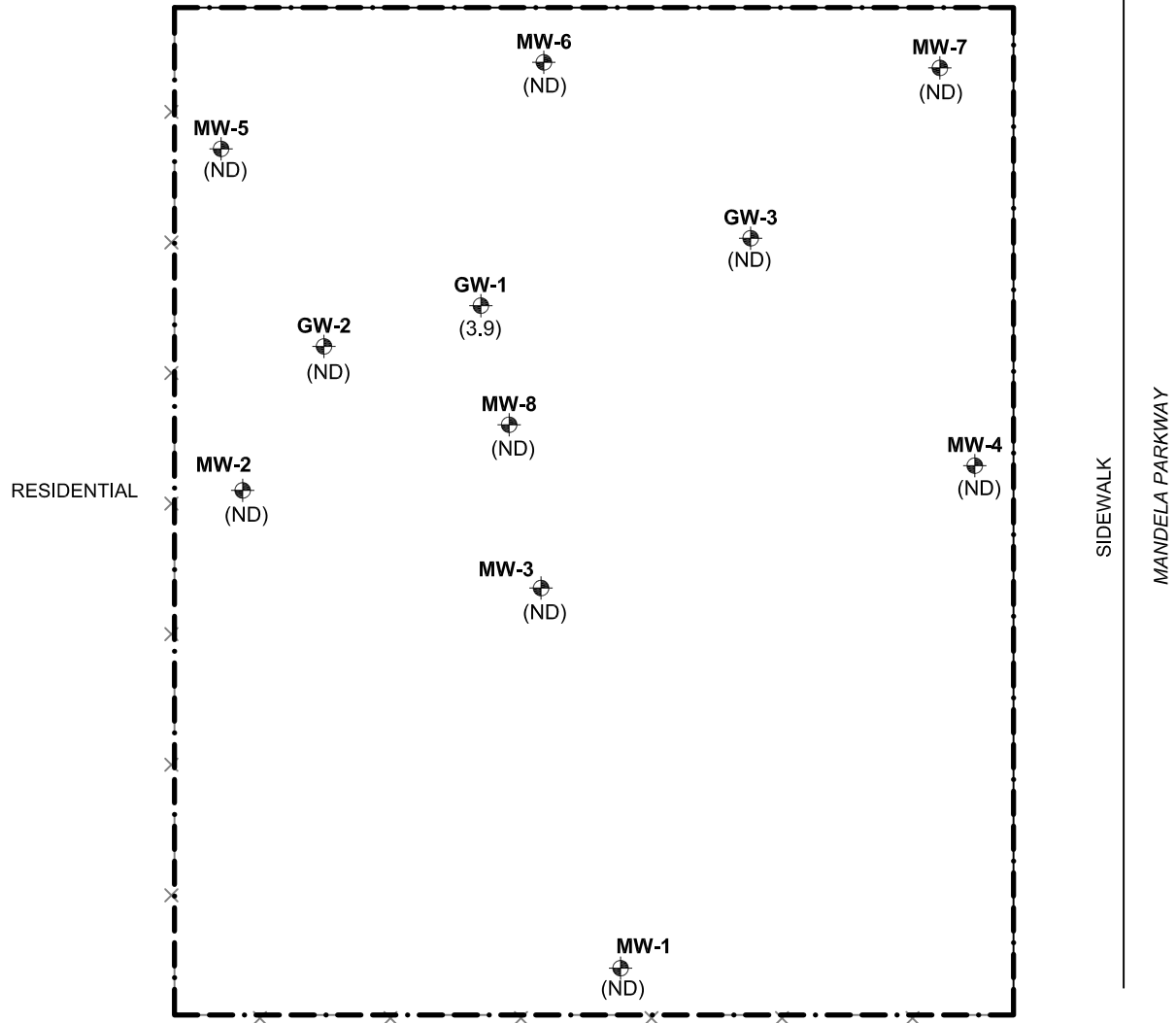
C:\Work\EnviroCAD\IES\1409-1417 12th Street\3-4-Q-09 GW\_Mon\_Rpt\Figure 3-8.dwg Layout: Fig 7 - TPHg\_GW-11-09 Jan 10, 2011 - 7:28pm

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**Figure 7**  
 1409 to 1417 12TH STREET  
 OAKLAND, CALIFORNIA  
**TPHg, TPHd, and TPHmo IN GROUNDWATER (NOVEMBER 2009)**

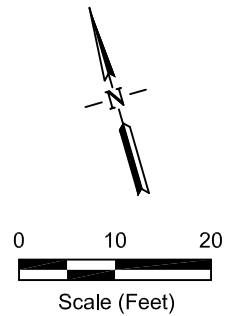
12TH STREET

SIDEWALK



**EXPLANATION:**

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



C:\Work\EnviroCAD\IES\1409-1417 12th Street\3-4Q-09 GW\_Mon\_Rpt\Figure 3-8.dwg Layout: Fig 8 - Benzene\_GW-11-09 Jan 09, 2011 - 4:28pm

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**Figure 8**  
1409 to 1417 12TH STREET  
OAKLAND, CALIFORNIA  
**BENZENE IN GROUNDWATER (NOVEMBER 2009)**

**APPENDIX A**

**Well Sampling Data Sheets & Groundwater Elevation Measurements  
Sheets (Third and Fourth Quarters 2009)**



**GROUNDWATER SAMPLING DATA SHEET**

Project Name: 1409 12th Street, Oakland, CA Date: July 26, 2009  
 Project Number: 1409\_QGWM Sampler: Joseph Cotton  
**Well Number:** Mw-1 Weather: \_\_\_\_\_  
 Well Location: 1409-1417 12th Street, Oakland, CA

Well Construction

Sampling Equipment & Cleaning

Date Completed: See Previous Data Sampler Type: Disposable Bailer or Peristaltic Pump  
 Total Depth of Well: 13.92 Method of Cleaning: Alconox and D.I. Water  
 Diameter: 2" Pump/Bailer Type: Disposable Bailer or Peristaltic Pump  
 Well Elevation and Reference: \_\_\_\_\_ Method of Cleaning: Alconox and D.I. Water  
 pH Meter: HANNA  
 Conductivity Meter: HANNA  
 Comments: \_\_\_\_\_  
2" Well = 0.163 gallons per foot -CONVERSION FACTOR  
4" Well = 0.653 gallons per foot- CONVERSION FACTOR

Ground Water Levels:

Initial Water Level: 11.81  
 Final Water Level: 13.62  
 Reference Point: Black Mark on Top of Casing  
 Well Volume of Water: 13.92 - 11.81 = 2.11 x .163 = 0.344 x 3 = 1.03

**PURGE MEASUREMENTS**

| Time  | Discharge (gal.) |            | pH   | Temp (°C) | Spec. Conductance (mmhos/cm) |                  | Color/<br>Turbidity | Odor |
|-------|------------------|------------|------|-----------|------------------------------|------------------|---------------------|------|
|       | Per Time Period  | Cumulative |      |           | Field                        | Dissolved Oxygen |                     |      |
| 10:52 | start            | 0          | 6.64 | 22.0      | 1752                         |                  | Clear/              | No   |
| 11:21 |                  | 0.5        | 6.79 | 22.7      | 1695                         |                  | Cloudy Brown        | No   |
| 11:27 |                  | 1.5        | 6.80 | 22.4      | 1638                         |                  | Clear               | No   |
|       |                  |            |      |           |                              |                  |                     |      |
|       |                  |            |      |           |                              |                  |                     |      |
|       |                  |            |      |           |                              |                  |                     |      |
|       |                  |            |      |           |                              |                  |                     |      |

Total Discharge: 1.5 gallons Comments: \_\_\_\_\_  
 Casing Volumes Removed: plus 3  
 Method of Disposal: Drummed pending analysis and disposal or recycling

|                             |   |               |      |
|-----------------------------|---|---------------|------|
| <b>IMPACT ENVIRONMENTAL</b> | <b>GROUNDWATER SAMPLING DATA SHEET</b>    |               |      |
|                             | 1300 Filbert Street, Richmond, California |               |      |
|                             | Project No.                               | Date          | Well |
|                             | 1409_QGWM                                 | July 26, 2009 | Mw-1 |



**GROUNDWATER SAMPLING DATA SHEET**

Project Name: 1409 12th Street, Oakland, CA Date: July 26, 2009  
 Project Number: 1409\_QGWM Sampler: Joseph Cotton  
**Well Number:** Mw-2 Weather: \_\_\_\_\_  
 Well Location: 1409-1417 12th Street, Oakland, CA

Well Construction Sampling Equipment & Cleaning

Date Completed: See Previous Data Sampler Type: Disposable Bailer or Peristaltic Pump  
 Total Depth of Well: 13.91 Method of Cleaning: Alconox and D.I. Water  
 Diameter: 2" Pump/Bailer Type: Disposable Bailer or Peristaltic Pump  
 Well Elevation and Reference: \_\_\_\_\_ Method of Cleaning: Alconox and D.I. Water  
 pH Meter: HANNA  
 Conductivity Meter: HANNA  
 Comments: \_\_\_\_\_  
 2" Well = 0.163 gallons per foot -CONVERSION FACTOR  
 4" Well = 0.653 gallons per foot- CONVERSION FACTOR

Ground Water Levels:

Initial Water Level: 10.99  
 Final Water Level: \_\_\_\_\_  
 Reference Point: Black Mark on Top of Casing  
 Well Volume of Water: 13.91 - 10.99 = 2.92 x .163 = 0.475 x 3 = 1.42

**PURGE MEASUREMENTS**

| Time  | Discharge (gal.) |            | pH   | Temp (°C) | Spec. Conductance (mmhos/cm) |                  | Color/Turbidity | Odor |
|-------|------------------|------------|------|-----------|------------------------------|------------------|-----------------|------|
|       | Per Time Period  | Cumulative |      |           | Field                        | Dissolved Oxygen |                 |      |
| 11:04 | start            | 0          | 6.68 | 22.0      | 537                          |                  | Clear           | No   |
| 11:24 |                  | 0.75       | 6.88 | 21.5      | 524                          |                  | Murky/Grey      | No   |
| 11:33 |                  | 1.5        | 6.71 | 20.9      | 502                          |                  | Murky/Grey      | No   |
|       |                  |            |      |           |                              |                  |                 |      |
|       |                  |            |      |           |                              |                  |                 |      |
|       |                  |            |      |           |                              |                  |                 |      |
|       |                  |            |      |           |                              |                  |                 |      |

Total Discharge: 1.5 gallons Comments: \_\_\_\_\_  
 Casing Volumes Removed: plus 3  
 Method of Disposal: Drummed pending analysis and disposal or recycling

|                             |   |               |      |
|-----------------------------|---|---------------|------|
| <b>IMPACT ENVIRONMENTAL</b> | <b>GROUNDWATER SAMPLING DATA SHEET</b>    |               |      |
|                             | 1300 Filbert Street, Richmond, California |               |      |
|                             | Project No.                               | Date          | Well |
|                             | 1409_QGWM                                 | July 26, 2009 | Mw-2 |

**GROUNDWATER SAMPLING DATA SHEET**

Project Name: 1409 12th Street, Oakland, CA Date: July 26, 2009  
 Project Number: 1409 QGWM Sampler: Joseph Cotton  
**Well Number:** Mw-3 Weather: \_\_\_\_\_  
 Well Location: 1409-1417 12th Street, Oakland, CA

Well Construction

Sampling Equipment & Cleaning

Date Completed: \$ See Previous Data Sampler Type: Disposable Bailer or Peristaltic Pump  
 Total Depth of Well: 13.59 Method of Cleaning: Alconox and D.I. Water  
 Diameter: 2" Pump/Bailer Type: Disposable Bailer or Peristaltic Pump  
 Well Elevation and Reference: \_\_\_\_\_ Method of Cleaning: Alconox and D.I. Water  
 pH Meter: HANNA  
 Conductivity Meter: HANNA  
 Comments: \_\_\_\_\_  
 2" Well = 0.163 gallons per foot -CONVERSION FACTOR  
 4" Well = 0.653 gallons per foot- CONVERSION FACTOR

Ground Water Levels:

Initial Water Level: 11.42  
 Final Water Level: \_\_\_\_\_  
 Reference Point: Black Mark on Top of Casing  
 Well Volume of Water: 13.59 - 11.42 = 2.17 x 0.163 = 0.354 x 3 = 1.06

**PURGE MEASUREMENTS**

| Time  | Discharge (gal.) |            | pH   | Temp (°C) | Spec. Conductance (mmhos/cm) |                  | Color/Turbidity | Odor |
|-------|------------------|------------|------|-----------|------------------------------|------------------|-----------------|------|
|       | Per Time Period  | Cumulative |      |           | Field                        | Dissolved Oxygen |                 |      |
| 12:37 | start            | ∅          | 7.08 | 22.1      | 809                          |                  | Clear           | No   |
| 12:41 |                  | 0.5        | 7.15 | 22.4      | 814                          |                  | Murky           | No   |
| 12:50 |                  | 1.5        | 7.22 | 22.6      | 839                          |                  | Murky           | No   |
|       |                  |            |      |           |                              |                  |                 |      |
|       |                  |            |      |           |                              |                  |                 |      |
|       |                  |            |      |           |                              |                  |                 |      |
|       |                  |            |      |           |                              |                  |                 |      |

Total Discharge: 1.5 gallons Comments: \_\_\_\_\_  
 Casing Volumes Removed: plus 3  
 Method of Disposal: Drummed pending analysis and disposal or recycling

|                             |   |               |      |
|-----------------------------|---|---------------|------|
| <b>IMPACT ENVIRONMENTAL</b> | <b>GROUNDWATER SAMPLING DATA SHEET</b>    |               |      |
|                             | 1300 Filbert Street, Richmond, California |               |      |
|                             | Project No.                               | Date          | Well |
|                             | 1409 QGWM                                 | July 26, 2009 | Mw-3 |



**GROUNDWATER SAMPLING DATA SHEET**

Project Name: 1409 12th Street, Oakland, CA Date: July 26, 2009  
 Project Number: 1409 QGWM Sampler: Joseph Cotton  
**Well Number:** Mw-4 Weather: \_\_\_\_\_  
 Well Location: 1409-1417 12th Street, Oakland, CA

Well Construction

Sampling Equipment & Cleaning

Date Completed: See Previous Data Sampler Type: Disposable Bailer or Peristaltic Pump  
 Total Depth of Well: 13.90 Method of Cleaning: Alconox and D.I. Water  
 Diameter: 2" Pump/Bailer Type: Disposable Bailer or Peristaltic Pump  
 Well Elevation and Reference: \_\_\_\_\_ Method of Cleaning: Alconox and D.I. Water  
 \_\_\_\_\_ pH Meter: HANNA  
 \_\_\_\_\_ Conductivity Meter: HANNA  
 \_\_\_\_\_ Comments: \_\_\_\_\_  
2" Well = 0.163 gallons per foot -CONVERSION FACTOR  
4" Well = 0.653 gallons per foot- CONVERSION FACTOR

Ground Water Levels:

Initial Water Level: 10.65  
 Final Water Level: \_\_\_\_\_  
 Reference Point: Black Mark on Top of Casing  
 Well Volume of Water: 13.90 - 10.65 = 3.25 x .163 = 0.530 x 3 = 1.59

**PURGE MEASUREMENTS**

| Time  | Discharge (gal.) |            | pH   | Temp (°C) | Spec. Conductance (mmhos/cm) |                  | Color/<br>Turbidity | Odor |
|-------|------------------|------------|------|-----------|------------------------------|------------------|---------------------|------|
|       | Per Time Period  | Cumulative |      |           | Field                        | Dissolved Oxygen |                     |      |
| 11:34 | start            | ∅          | 6.89 | 21.3      | 390                          |                  | Clear               | No   |
| 11:45 |                  | 1.0        | 7.15 | 22.9      | 440                          |                  | Murky               | No   |
| 11:56 |                  | 1.75       | 7.17 | 22.3      | 426                          |                  | Lt. Cloudy          | No   |
|       |                  |            |      |           |                              |                  |                     |      |
|       |                  |            |      |           |                              |                  |                     |      |
|       |                  |            |      |           |                              |                  |                     |      |
|       |                  |            |      |           |                              |                  |                     |      |

Total Discharge: 1.75 Comments: \_\_\_\_\_  
 Casing Volumes Removed: plus 3  
 Method of Disposal: Drummed pending analysis and disposal or recycling

|                             |   |               |      |
|-----------------------------|---|---------------|------|
| <b>IMPACT ENVIRONMENTAL</b> | <b>GROUNDWATER SAMPLING DATA SHEET</b>    |               |      |
|                             | 1300 Filbert Street, Richmond, California |               |      |
|                             | Project No.                               | Date          | Well |
|                             | 1409 QGWM                                 | July 26, 2009 | Mw-4 |



**GROUNDWATER SAMPLING DATA SHEET**

Project Name: 1409 12th Street, Oakland, CA Date: July 26, 2009  
 Project Number: 1409\_QGWM Sampler: Joseph Cotton  
 Well Number: Mw-5 Weather: \_\_\_\_\_  
 Well Location: 1409-1417 12th Street, Oakland, CA

Well Construction

Sampling Equipment & Cleaning

Date Completed: See Previous Data Sampler Type: Disposable Bailer or Peristaltic Pump  
 Total Depth of Well: 13.87 Method of Cleaning: Alconox and D.I. Water  
 Diameter: 2" Pump/Bailer Type: Disposable Bailer or Peristaltic Pump  
 Well Elevation and Reference: \_\_\_\_\_ Method of Cleaning: Alconox and D.I. Water  
 pH Meter: HANNA

Ground Water Levels:

Conductivity Meter: HANNA  
 Comments: \_\_\_\_\_  
2" Well = 0.163 gallons per foot -CONVERSION FACTOR  
4" Well = 0.653 gallons per foot- CONVERSION FACTOR

Initial Water Level: 10.42  
 Final Water Level: \_\_\_\_\_  
 Reference Point: Black Mark on Top of Casing  
 Well Volume of Water: 13.87 - 10.42 = 3.45 x 0.163 = 0.562 x 3 = 1.70

**PURGE MEASUREMENTS**

| Time  | Discharge (gal.) |            | pH   | Temp (°C) | Spec. Conductance (mmhos/cm) |                  | Color/<br>Turbidity | Odor |
|-------|------------------|------------|------|-----------|------------------------------|------------------|---------------------|------|
|       | Per Time Period  | Cumulative |      |           | Field                        | Dissolved Oxygen |                     |      |
| 12:30 | start            | 0          | 6.83 | 23.4      | 986                          |                  | Clear               | No   |
| 12:40 |                  | 1.0        | 6.82 | 22.5      | 943                          |                  | Cloudy Brown        | No   |
| 12:47 |                  | 2.0        | 6.81 | 22.3      | 981                          |                  | Cloudy              | No   |
|       |                  |            |      |           |                              |                  |                     |      |
|       |                  |            |      |           |                              |                  |                     |      |
|       |                  |            |      |           |                              |                  |                     |      |
|       |                  |            |      |           |                              |                  |                     |      |

Total Discharge: 2.0 gallons Comments: \_\_\_\_\_  
 Casing Volumes Removed: plus 3  
 Method of Disposal: Drummed pending analysis and disposal or recycling

|                             |   |               |      |
|-----------------------------|---|---------------|------|
| <b>IMPACT ENVIRONMENTAL</b> | <b>GROUNDWATER SAMPLING DATA SHEET</b>    |               |      |
|                             | 1300 Filbert Street, Richmond, California |               |      |
|                             | Project No.                               | Date          | Well |
|                             | 1409_QGWM                                 | July 26, 2009 | Mw-5 |

**GROUNDWATER SAMPLING DATA SHEET**

Project Name: 1409 12th Street, Oakland, CA Date: July 26, 2009  
 Project Number: 1409 QGWM Sampler: Joseph Cotton  
**Well Number:** MW-6 Weather: \_\_\_\_\_  
 Well Location: 1409-1417 12th Street, Oakland, CA

Well Construction Sampling Equipment & Cleaning  
 Date Completed: See Previous Data Sampler Type: Disposable Bailer or Peristaltic Pump  
 Total Depth of Well: 14.44 Method of Cleaning: Alconox and D.I. Water  
 Diameter: 2" Pump/Bailer Type: Disposable Bailer or Peristaltic Pump  
 Well Elevation and Reference: \_\_\_\_\_ Method of Cleaning: Alconox and D.I. Water  
 \_\_\_\_\_ pH Meter: HANNA  
 \_\_\_\_\_ Conductivity Meter: HANNA  
Ground Water Levels: \_\_\_\_\_ Comments: \_\_\_\_\_  
 \_\_\_\_\_ 2" Well = 0.163 gallons per foot -CONVERSION FACTOR  
 \_\_\_\_\_ 4" Well = 0.653 gallons per foot- CONVERSION FACTOR

Initial Water Level: 10.03  
 Final Water Level: \_\_\_\_\_  
 Reference Point: Black Mark on Top of Casing  
 Well Volume of Water: 14.44 - 10.03 = 4.41 x 0.163 = 0.719 x 3 = 2.16

**PURGE MEASUREMENTS**

| Time  | Discharge (gal.) |            | pH   | Temp (°C) | Spec. Conductance (mmhos/cm) |                  | Color/<br>Turbidity | Odor |
|-------|------------------|------------|------|-----------|------------------------------|------------------|---------------------|------|
|       | Per Time Period  | Cumulative |      |           | Field                        | Dissolved Oxygen |                     |      |
| 11:45 | start            | 0          | 6.93 | 22.6      | 512                          |                  | Clear               | No   |
| 11:55 |                  | 1.0        | 6.96 | 23.6      | 577                          |                  | Murky               | No   |
| 12:06 |                  | 2.5        | 7.10 | 23.5      | 610                          |                  | Murky               | No   |
|       |                  |            |      |           |                              |                  |                     |      |
|       |                  |            |      |           |                              |                  |                     |      |
|       |                  |            |      |           |                              |                  |                     |      |
|       |                  |            |      |           |                              |                  |                     |      |

Total Discharge: 2.5 gallons Comments: \_\_\_\_\_  
 Casing Volumes Removed: plus 3  
 Method of Disposal: Drummed pending analysis and disposal or recycling

|                             |   |               |      |
|-----------------------------|---|---------------|------|
| <b>IMPACT ENVIRONMENTAL</b> | <b>GROUNDWATER SAMPLING DATA SHEET</b>    |               |      |
|                             | 1300 Filbert Street, Richmond, California |               |      |
|                             | Project No.                               | Date          | Well |
|                             | 1409 QGWM                                 | July 26, 2009 | MW-6 |



**GROUNDWATER SAMPLING DATA SHEET**

Project Name: 1409 12th Street, Oakland, CA Date: July 26, 2009  
 Project Number: 1409 QGWM Sampler: Joseph Cotton  
**Well Number:** Mw-7 Weather: \_\_\_\_\_  
 Well Location: 1409-1417 12th Street, Oakland, CA

Well Construction

Date Completed: See Previous Data  
 Total Depth of Well: 13.81  
 Diameter: 2"  
 Well Elevation and Reference: \_\_\_\_\_

Sampling Equipment & Cleaning

Sampler Type: Disposable Bailer or Peristaltic Pump  
 Method of Cleaning: Alconox and D.I. Water  
 Pump/Bailer Type: Disposable Bailer or Peristaltic Pump  
 Method of Cleaning: Alconox and D.I. Water  
 pH Meter: HANNA  
 Conductivity Meter: HANNA  
 Comments: \_\_\_\_\_  
2" Well = 0.163 gallons per foot -CONVERSION FACTOR  
4" Well = 0.653 gallons per foot- CONVERSION FACTOR

Ground Water Levels:

Initial Water Level: 10.21  
 Final Water Level: \_\_\_\_\_  
 Reference Point: Black Mark on Top of Casing  
 Well Volume of Water: 13.81 - 10.21 = 3.60 x 0.163 = 0.587 x 3 = 1.76

**PURGE MEASUREMENTS**

| Time | Discharge (gal.) |            | pH   | Temp (°C) | Spec. Conductance (mmhos/cm) |                  | Color/<br>Turbidity | Odor |
|------|------------------|------------|------|-----------|------------------------------|------------------|---------------------|------|
|      | Per Time Period  | Cumulative |      |           | Field                        | Dissolved Oxygen |                     |      |
| 1:06 | start            | ∅          | 6.77 | 23.0      | 531                          |                  | clear               | No   |
| 1:17 |                  | 1.0        | 6.88 | 25.1      | 510                          |                  | Brown Cloudy        | No   |
| 1:25 |                  | 2.0        | 6.87 | 23.9      | 496                          |                  | Lt. Brown Cloudy    | No   |
|      |                  |            |      |           |                              |                  |                     |      |
|      |                  |            |      |           |                              |                  |                     |      |
|      |                  |            |      |           |                              |                  |                     |      |
|      |                  |            |      |           |                              |                  |                     |      |

Total Discharge: 2 gallons Comments: \_\_\_\_\_  
 Casing Volumes Removed: plus 3  
 Method of Disposal: Drummed pending analysis and disposal or recycling

|                             |   |               |      |
|-----------------------------|---|---------------|------|
| <b>IMPACT ENVIRONMENTAL</b> | <b>GROUNDWATER SAMPLING DATA SHEET</b>    |               |      |
|                             | 1300 Filbert Street, Richmond, California |               |      |
|                             | Project No.                               | Date          | Well |
|                             | 1409 QGWM                                 | July 26, 2009 | Mw-7 |



**GROUNDWATER SAMPLING DATA SHEET**

Project Name: 1409 12th Street, Oakland, CA Date: July 26, 2009  
 Project Number: 1409 QGWM Sampler: Joseph Cotton  
**Well Number:** Mw-8 Weather: \_\_\_\_\_  
 Well Location: 1409-1417 12th Street, Oakland, CA

Well Construction

Sampling Equipment & Cleaning

Date Completed: See Previous Data Sampler Type: Disposable Bailer or Peristaltic Pump  
 Total Depth of Well: 27.55' Method of Cleaning: Alconox and D.I. Water  
 Diameter: 2" Pump/Bailer Type: Disposable Bailer or Peristaltic Pump  
 Well Elevation and Reference: \_\_\_\_\_ Method of Cleaning: Alconox and D.I. Water  
 \_\_\_\_\_ pH Meter: HANNA  
 \_\_\_\_\_ Conductivity Meter: HANNA

Ground Water Levels:

Comments: \_\_\_\_\_  
2" Well = 0.163 gallons per foot -CONVERSION FACTOR  
4" Well = 0.653 gallons per foot- CONVERSION FACTOR

Initial Water Level: 11.07' 11.07'  
 Final Water Level: \_\_\_\_\_  
 Reference Point: Black Mark on Top of Casing  
 Well Volume of Water: 27.55 - 11.07 = 16.48 x .163 = 2.69 x 3 = 8.07

**PURGE MEASUREMENTS**

| Time | Discharge (gal.) |            | pH   | Temp (°C) | Spec. Conductance (mmhos/cm) |                  | Color/<br>Turbidity | Odor |
|------|------------------|------------|------|-----------|------------------------------|------------------|---------------------|------|
|      | Per Time Period  | Cumulative |      |           | Field                        | Dissolved Oxygen |                     |      |
| 2:03 | start            | 0          | 7.14 | 23.2      | 366                          |                  | Clear               |      |
| 2:30 |                  | 4          | 7.12 | 22.9      | 508                          |                  | Murky Brown         |      |
| 2:52 |                  | 8          | 7.09 | 22.7      | 555                          |                  | Lt. Brown           |      |
|      |                  |            |      |           |                              |                  |                     |      |
|      |                  |            |      |           |                              |                  |                     |      |
|      |                  |            |      |           |                              |                  |                     |      |
|      |                  |            |      |           |                              |                  |                     |      |

Total Discharge: \_\_\_\_\_ Comments: \_\_\_\_\_  
 Casing Volumes Removed: plus 3  
 Method of Disposal: Drummed pending analysis and disposal or recycling

|                             |   |               |      |
|-----------------------------|---|---------------|------|
| <b>IMPACT ENVIRONMENTAL</b> | <b>GROUNDWATER SAMPLING DATA SHEET</b>    |               |      |
|                             | 1300 Filbert Street, Richmond, California |               |      |
|                             | Project No.                               | Date          | Well |
|                             | 1409 QGWM                                 | July 26, 2009 | Mw-8 |



**GROUNDWATER SAMPLING DATA SHEET**

Project Name: 1409 12th Street, Oakland, CA Date: July 26, 2009  
 Project Number: 1409 QGWM Sampler: Joseph Cotton  
**Well Number:** Gw-1 Weather: \_\_\_\_\_  
 Well Location: 1409-1417 12th Street, Oakland, CA

Well Construction

Sampling Equipment & Cleaning

Date Completed: See Previous Data Sampler Type: Disposable Bailer or Peristaltic Pump  
 Total Depth of Well: 17.05 Method of Cleaning: Alconox and D.I. Water  
 Diameter: 4" Pump/Bailer Type: Disposable Bailer or Peristaltic Pump  
 Well Elevation and Reference: \_\_\_\_\_ Method of Cleaning: Alconox and D.I. Water  
 pH Meter: HANNA

Ground Water Levels:

Conductivity Meter: HANNA  
 Comments: \_\_\_\_\_  
2" Well = 0.163 gallons per foot -CONVERSION FACTOR  
4" Well = 0.653 gallons per foot- CONVERSION FACTOR

Initial Water Level: 10.59  
 Final Water Level: \_\_\_\_\_  
 Reference Point: Black Mark on Top of Casing  
 Well Volume of Water: 17.05 - 10.59 = 6.46 x 0.653 = 4.22 x 3 = 12.66

**PURGE MEASUREMENTS**

| Time | Discharge (gal.) |            | pH   | Temp (°C) | Spec. Conductance (mmhos/cm) |                  | Color/<br>Turbidity | Odor |
|------|------------------|------------|------|-----------|------------------------------|------------------|---------------------|------|
|      | Per Time Period  | Cumulative |      |           | Field                        | Dissolved Oxygen |                     |      |
| 3:06 | start            | 0          | 6.45 | 22.7      | 550                          |                  | Clear               | Yes  |
| 3:34 |                  | 7          | 6.54 | 21.7      | 556                          |                  | Cloudy              | Yes  |
| 4:02 |                  | 13         | 6.67 | 22.1      | 519                          |                  | Cloudy              | Yes  |
|      |                  |            |      |           |                              |                  |                     |      |
|      |                  |            |      |           |                              |                  |                     |      |
|      |                  |            |      |           |                              |                  |                     |      |
|      |                  |            |      |           |                              |                  |                     |      |

Total Discharge: 13 Comments: \_\_\_\_\_  
 Casing Volumes Removed: \_\_\_\_\_ plus 3  
 Method of Disposal: Drummed pending analysis and disposal or recycling

|                             |   |               |      |
|-----------------------------|---|---------------|------|
| <b>IMPACT ENVIRONMENTAL</b> | <b>GROUNDWATER SAMPLING DATA SHEET</b>    |               |      |
|                             | 1300 Filbert Street, Richmond, California |               |      |
|                             | Project No.                               | Date          | Well |
|                             | 1409 QGWM                                 | July 26, 2009 | Gw-1 |



**GROUNDWATER SAMPLING DATA SHEET**

Project Name: 1409 12th Street, Oakland, CA Date: July 26, 2009  
 Project Number: 1409\_QGWM Sampler: Joseph Cotton  
 Well Number: GW-2 Weather: \_\_\_\_\_  
 Well Location: 1409-1417 12th Street, Oakland, CA

Well Construction

Sampling Equipment & Cleaning

Date Completed: See Previous Data Sampler Type: Disposable Bailer or Peristaltic Pump  
 Total Depth of Well: 17.00 Method of Cleaning: Alconox and D.I. Water  
 Diameter: 4" Pump/Bailer Type: Disposable Bailer or Peristaltic Pump  
 Well Elevation and Reference: \_\_\_\_\_ Method of Cleaning: Alconox and D.I. Water  
 pH Meter: HANNA  
 Conductivity Meter: HANNA

Ground Water Levels:

Comments: \_\_\_\_\_  
 2" Well = 0.163 gallons per foot -CONVERSION FACTOR  
 4" Well = 0.653 gallons per foot- CONVERSION FACTOR

Initial Water Level: 11.21  
 Final Water Level: \_\_\_\_\_  
 Reference Point: Black Mark on Top of Casing  
 Well Volume of Water: 17.00 - 11.21 = 5.79 x 0.653 = 3.78 x 3 = 11.34

**PURGE MEASUREMENTS**

| Time | Discharge (gal.) |            | pH   | Temp (°C) | Spec. Conductance (mmhos/cm) |                  | Color/<br>Turbidity | Odor |
|------|------------------|------------|------|-----------|------------------------------|------------------|---------------------|------|
|      | Per Time Period  | Cumulative |      |           | Field                        | Dissolved Oxygen |                     |      |
| 1:07 | start            | 0          | 6.52 | 23.0      | 1168                         |                  | Clear               | Yes  |
| 1:19 |                  | 6          | 6.55 | 21.9      | 1141                         |                  | Murky               | Yes  |
| 1:38 |                  | 12         | 6.56 | 22.8      | 1129                         |                  | Murky               | Yes  |
|      |                  |            |      |           |                              |                  |                     |      |
|      |                  |            |      |           |                              |                  |                     |      |
|      |                  |            |      |           |                              |                  |                     |      |
|      |                  |            |      |           |                              |                  |                     |      |

Total Discharge: 12 gallons Comments: \_\_\_\_\_  
 Casing Volumes Removed: plus 3  
 Method of Disposal: Drummed pending analysis and disposal or recycling

|                             |   |               |               |
|-----------------------------|---|---------------|---------------|
| <b>IMPACT ENVIRONMENTAL</b> | <b>GROUNDWATER SAMPLING DATA SHEET</b>    |               |               |
|                             | 1300 Filbert Street, Richmond, California |               |               |
|                             | Project No.                               | Date          | Well <u>2</u> |
|                             | 1409_QGWM                                 | July 26, 2009 | <u>GW-2</u>   |



**GROUNDWATER SAMPLING DATA SHEET**

Project Name: 1409 12th Street, Oakland, CA Date: July 26, 2009  
 Project Number: 1409 QGWM Sampler: Joseph Cotton  
**Well Number:** Gw-3 Weather: \_\_\_\_\_  
 Well Location: 1409-1417 12th Street, Oakland, CA

Well Construction

Sampling Equipment & Cleaning

Date Completed: See Previous Data Sampler Type: Disposable Bailer or Peristaltic Pump  
 Total Depth of Well: 17.98 Method of Cleaning: Alconox and D.I. Water  
 Diameter: 4 1/2 Pump/Bailer Type: Disposable Bailer or Peristaltic Pump  
 Well Elevation and Reference: \_\_\_\_\_ Method of Cleaning: Alconox and D.I. Water  
 \_\_\_\_\_ pH Meter: HANNA  
 \_\_\_\_\_ Conductivity Meter: HANNA  
 \_\_\_\_\_ Comments: \_\_\_\_\_  
 \_\_\_\_\_ 2" Well = 0.163 gallons per foot -CONVERSION FACTOR  
 \_\_\_\_\_ 4" Well = 0.653 gallons per foot- CONVERSION FACTOR

Ground Water Levels:

Initial Water Level: 10.89  
 Final Water Level: \_\_\_\_\_  
 Reference Point: Black Mark on Top of Casing  
 Well Volume of Water: 17.98 - 10.89 = 7.09 x .653 = 4.63 x 3 = 13.89

**PURGE MEASUREMENTS**

| Time | Discharge (gal.) |            | pH   | Temp (°C) | Spec. Conductance (mmhos/cm) |                  | Color/Turbidity | Odor |
|------|------------------|------------|------|-----------|------------------------------|------------------|-----------------|------|
|      | Per Time Period  | Cumulative |      |           | Field                        | Dissolved Oxygen |                 |      |
| 1:05 | start            | 0          | 6.29 | 23.3      | 341                          |                  | Clear           | No   |
| 1:20 |                  | 7          | 6.51 | 22.5      | 355                          |                  | Opaque Brown    | No   |
| 1:30 |                  | 14         | 6.54 | 23.3      | 396                          |                  | Opaque Tan      | No   |
|      |                  |            |      |           |                              |                  |                 |      |
|      |                  |            |      |           |                              |                  |                 |      |
|      |                  |            |      |           |                              |                  |                 |      |
|      |                  |            |      |           |                              |                  |                 |      |

Total Discharge: 14 gallons Comments: \_\_\_\_\_  
 Casing Volumes Removed: plus 3  
 Method of Disposal: Drummed pending analysis and disposal or recycling

|                             |   |               |      |
|-----------------------------|---|---------------|------|
| <b>IMPACT ENVIRONMENTAL</b> | <b>GROUNDWATER SAMPLING DATA SHEET</b>    |               |      |
|                             | 1300 Filbert Street, Richmond, California |               |      |
|                             | Project No.                               | Date          | Well |
|                             | 1409 QGWM                                 | July 26, 2009 | Gw-3 |

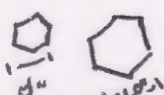


# WELL GAUGING DATA

Project # 091106-RMI Date 11/6/09 Client Impact Env

Site 1409 12th St. Oakland

| Well ID | Time | Well Size (in.) | Sheen / Odor      | Depth to Immiscible Liquid (ft.) | Thickness of Immiscible Liquid (ft.) | Volume of Immiscibles Removed (ml) | Depth to water (ft.) | Depth to well bottom (ft.) | Survey Point: TOB or TOC | Notes |  |
|---------|------|-----------------|-------------------|----------------------------------|--------------------------------------|------------------------------------|----------------------|----------------------------|--------------------------|-------|--|
| MW-1    | 0813 | 2               |                   |                                  |                                      |                                    | 11.79                | 13.85                      | ↓                        |       |  |
| MW-2    | 0824 | 2               |                   |                                  |                                      |                                    | 11.01                | 13.83                      |                          |       |  |
| MW-3    | 0815 | 2               |                   |                                  |                                      |                                    | 11.44                | 13.91                      |                          |       |  |
| MW-4    | 0810 | 2               |                   |                                  |                                      |                                    | 10.69                | 13.84                      |                          |       |  |
| MW-5    | 0827 | 2               |                   |                                  |                                      |                                    | 10.41<br>10.93       | 13.82<br>14.01             |                          |       |  |
| MW-6    | 0833 | 2               |                   |                                  |                                      |                                    | 10.02                | 14.38                      |                          |       |  |
| MW-7    | 0836 | 2               |                   |                                  |                                      |                                    | 10.23                | 13.76                      |                          |       |  |
| MW-8    |      |                 | Not gauged        |                                  |                                      |                                    |                      |                            |                          |       |  |
| GW-1    |      |                 | Not gauged        |                                  |                                      |                                    |                      |                            |                          |       |  |
| GW-2    | 0830 | 4               |                   |                                  |                                      |                                    | 10.93                | 17.01                      |                          |       |  |
| GW-3    | 1249 | 4               | 1/4" Port opening |                                  |                                      |                                    | 10.64                | —                          |                          |       |  |
|         |      |                 |                   |                                  |                                      |                                    |                      |                            |                          |       |  |
|         |      |                 |                   |                                  |                                      |                                    |                      |                            |                          |       |  |
|         |      |                 |                   |                                  |                                      |                                    |                      |                            |                          |       |  |
|         |      |                 |                   |                                  |                                      |                                    |                      |                            |                          |       |  |
|         |      |                 |                   |                                  |                                      |                                    |                      |                            |                          |       |  |



## WELL GAUGING DATA

Project # 091112-1W-2 Date 11/12/09 Client IMPACT

Site 1409 12th STREET, OAKLAND, CA

| Well ID | <sup>1w</sup><br>Time | Well Size (in.) | Sheen / Odor | Depth to Immiscible Liquid (ft.) | Thickness of Immiscible Liquid (ft.) | Volume of Immiscibles Removed (ml) | Depth to water (ft.) | Depth to well bottom (ft.) | Survey Point: TOB or TOC | Notes     |  |
|---------|-----------------------|-----------------|--------------|----------------------------------|--------------------------------------|------------------------------------|----------------------|----------------------------|--------------------------|-----------|--|
| MW-1    | 2                     | 1225            |              |                                  |                                      |                                    | 12.02                | 13.85                      |                          |           |  |
| MW-2    | 2                     | 1246            |              |                                  |                                      |                                    | 11.04                | 13.90                      |                          |           |  |
| MW-3    | 2                     | 1231            |              |                                  |                                      |                                    | 11.53                | 13.90                      |                          |           |  |
| MW-4    | 2                     | 1310            |              |                                  |                                      |                                    | 10.78                | 13.86                      |                          |           |  |
| MW-5    | 2                     | 1248            |              |                                  |                                      |                                    | 10.45                | 13.81                      |                          |           |  |
| MW-6    | 2                     | 1252            |              |                                  |                                      |                                    | 10.03                | 14.40                      |                          |           |  |
| MW-7    | 2                     | 1305            |              |                                  |                                      |                                    | 10.45                | 13.83                      |                          |           |  |
| MW-8    | 4                     | 1320            |              |                                  |                                      |                                    | 10.21                | 26.69                      |                          | EXT. SYS. |  |
| GW-1    | 4                     | 1315            |              |                                  |                                      |                                    | 10.62                | 16.96                      |                          | EXT. SYS. |  |
| GW-2    | 4                     | 1238            |              |                                  |                                      |                                    | 11.18                | 16.98                      |                          |           |  |
| GW-3    | 4                     | 1326            |              |                                  |                                      |                                    | 10.65                | 17.62                      |                          | EXT. SYS. |  |
|         |                       |                 |              |                                  |                                      |                                    |                      |                            |                          |           |  |
|         |                       |                 |              |                                  |                                      |                                    |                      |                            |                          |           |  |
|         |                       |                 |              |                                  |                                      |                                    |                      |                            |                          |           |  |
|         |                       |                 |              |                                  |                                      |                                    |                      |                            |                          |           |  |
|         |                       |                 |              |                                  |                                      |                                    |                      |                            |                          |           |  |







# WELL MONITORING DATA SHEET

|   |   |
|---|---|
| Project #: <u>091106-RM1</u>  | Client: <u>Impact Env</u>   |
| Sampler: <u>R.M.</u>  | Date: <u>11/6/09</u>  |
| Well I.D.: <u>MW-2</u>  | Well Diameter: <u>(2)</u> 3 4 6 8 _____                                   |
| Total Well Depth (TD): <u>13.83</u>   | Depth to Water (DTW): <u>11.01</u> <span style="float: right;">282</span> |
| Depth to Free Product:  | Thickness of Free Product (feet):   |
| Referenced to: <u>(PVC)</u> Grade   | D.O. Meter (if req'd): <u>(YSI)</u> HACH                                  |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>11.57</u> |   |

|   |  |  |
|---|--|--|
| Purge Method: <input type="checkbox"/> Bailer<br><input checked="" type="checkbox"/> Disposable Bailer<br><input type="checkbox"/> Positive Air Displacement<br><input type="checkbox"/> Electric Submersible | Waterra<br><input type="checkbox"/> Peristaltic<br><input type="checkbox"/> Extraction Pump<br>Other _____ | Sampling Method: <input type="checkbox"/> Bailer<br><input checked="" type="checkbox"/> Disposable Bailer<br><input type="checkbox"/> Extraction Port<br><input type="checkbox"/> Dedicated Tubing<br>Other: _____ |
|---|--|--|

| $\underline{0.5} \text{ (Gals.)} \times \underline{3} = \underline{1.5} \text{ Gals.}$ 1 Case Volume      Specified Volumes      Calculated Volume | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table> | Well Diameter | Multiplier                  | Well Diameter | Multiplier | 1" | 0.04 | 4" | 0.65 | 2" | 0.16 | 6" | 1.47 | 3" | 0.37 | Other | radius <sup>2</sup> * 0.163 |
|--|--|---------------|-----------------------------|---------------|------------|----|------|----|------|----|------|----|------|----|------|-------|-----------------------------|
| Well Diameter  | Multiplier   | Well Diameter | Multiplier                  |               |            |    |      |    |      |    |      |    |      |    |      |       |                             |
| 1"   | 0.04   | 4"            | 0.65                        |               |            |    |      |    |      |    |      |    |      |    |      |       |                             |
| 2"   | 0.16   | 6"            | 1.47                        |               |            |    |      |    |      |    |      |    |      |    |      |       |                             |
| 3"   | 0.37   | Other         | radius <sup>2</sup> * 0.163 |               |            |    |      |    |      |    |      |    |      |    |      |       |                             |

| Time | Temp (°F or °C) | pH   | Cond. (mS or µS) | Turbidity (NTUs) | Gals. Removed | Observations |
|------|-----------------|------|------------------|------------------|---------------|--------------|
| 0935 | 18.9            | 6.91 | 453.7            | 68               | 0.5           |              |
| 0936 | 19.3            | 6.78 | 437.9            | 502              | 1.0           | Flow         |
| 0937 | 19.1            | 6.76 | 434.1            | 71000            | 1.5           | " "          |
|      |                 |      |                  |                  |               |              |
|      |                 |      |                  |                  |               |              |

|   |   |                              |
|---|---|------------------------------|
| Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Gallons actually evacuated: <u>1.5</u>                  |                              |
| Sampling Date: <u>11/6/09</u>   | Sampling Time: <u>0945</u>                              | Depth to Water: <u>11.36</u> |
| Sample I.D.: <u>MW-2</u>  | Laboratory: Kiff CalScience Other <u>Torrent-M. Lab</u> |                              |
| Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: <u>SEE CWC</u>              |   |                              |
| EB I.D. (if applicable): _____ @ _____ Time   | Duplicate I.D. (if applicable): _____                   |                              |
| Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: _____                       |   |                              |
| D.O. (if req'd): <u>(Pre-purge):</u> <u>2.84</u> mg/L                                 | Post-purge: _____ mg/L                                  |                              |
| O.R.P. (if req'd): <u>(Pre-purge):</u> _____ mV                                       | Post-purge: _____ mV                                    |                              |



# WELL MONITORING DATA SHEET

|   |   |
|---|---|
| Project #: <u>091106-RM1</u>  | Client: <u>Impact Env</u>   |
| Sampler: <u>R.M.</u>  | Date: <u>11/6/09</u>  |
| Well I.D.: <u>MW-3</u>  | Well Diameter: <u>(2)</u> 3 4 6 8   |
| Total Well Depth (TD): <u>13.91</u>   | Depth to Water (DTW): <u>11.44</u> <span style="float: right;">247</span> |
| Depth to Free Product:  | Thickness of Free Product (feet):   |
| Referenced to: <u>(PVC)</u> Grade   | D.O. Meter (if req'd): <u>(YSI)</u> HACH                                  |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>11.93</u> |   |

Purge Method:  Bailer  Disposable Bailer  Positive Air Displacement  Electric Submersible

Watertra:  Peristaltic  Extraction Pump  Other \_\_\_\_\_

Sampling Method:  Bailer  Disposable Bailer  Extraction Port  Dedicated Tubing

Other: \_\_\_\_\_

0.4 (Gals.) X 3 = 1.2 Gals.  
 1 Case Volume      Specified Volumes      Calculated Volume

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 1"            | 0.04       | 4"            | 0.65                        |
| 2"            | 0.16       | 6"            | 1.47                        |
| 3"            | 0.37       | Other         | radius <sup>2</sup> * 0.163 |

| Time | Temp (°F or °C) | pH   | Cond. (mS or μS) | Turbidity (NTUs) | Gals. Removed | Observations |            |
|------|-----------------|------|------------------|------------------|---------------|--------------|------------|
| 1005 | 19.4            | 6.88 | 727.7            | 502              | .4            |              | ORP<br>145 |
| 1006 | 19.7            | 7.02 | 721.0            | 710              | 0.8           | cloudy       | 137        |
| 1007 | 19.6            | 7.04 | 719.1            | >1000            | 1.2           | drawn        | 132        |
|      |                 |      |                  |                  |               |              |            |
|      |                 |      |                  |                  |               |              |            |

Did well dewater? Yes  No  Gallons actually evacuated: 15

Sampling Date: 11/6/09 Sampling Time: 1015 Depth to Water: 11.79

Sample I.D.: MW-3 Laboratory: Kiff CalScience Other Torrent-Mulat

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE CDE

EB I.D. (if applicable): @ \_\_\_\_\_ Time Duplicate I.D. (if applicable): \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: \_\_\_\_\_

|                                       |                  |             |      |
|---------------------------------------|------------------|-------------|------|
| D.O. (if req'd): <u>(Pre-purge)</u>   | <u>2.52</u> mg/L | Post-purge: | mg/L |
| O.R.P. (if req'd): <u>(Pre-purge)</u> | mV               | Post-purge: | mV   |



# WELL MONITORING DATA SHEET

|   |  |
|---|--|
| Project #: <u>091106-RM1</u>  | Client: <u>Impact Env</u>  |
| Sampler: <u>R.M.</u>  | Date: <u>11/6/09</u>   |
| Well I.D.: <u>MW-4</u>  | Well Diameter: <u>3</u> 3 4 6 8  |
| Total Well Depth (TD): <u>13.84</u>   | Depth to Water (DTW): <u>10.69</u> <span style="float: right;">3.15</span> |
| Depth to Free Product:  | Thickness of Free Product (feet):  |
| Referenced to: <u>PVC</u> Grade   | D.O. Meter (if req'd): <u>YSI</u> HACH                                     |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>11.32</u> |  |

Purge Method:  Bailer  Disposable Bailer  Positive Air Displacement  Electric Submersible

Watertra  Peristaltic  Extraction Pump  Other \_\_\_\_\_

Sampling Method:  Bailer  Disposable Bailer  Extraction Port  Dedicated Tubing

Other: \_\_\_\_\_

.5 (Gals.) X 3 = 1.5 Gals.

1 Case Volume      Specified Volumes      Calculated Volume

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 1"            | 0.04       | 4"            | 0.65                        |
| 2"            | 0.16       | 6"            | 1.47                        |
| 3"            | 0.37       | Other         | radius <sup>2</sup> * 0.163 |

| Time | Temp (°F or °C) | pH   | Cond. (mS or µS) | Turbidity (NTUs) | Gals. Removed | Observations |
|------|-----------------|------|------------------|------------------|---------------|--------------|
| 1047 | 20.5            | 7.23 | 392.6            | 289              | .5            |              |
| 1048 | 20.7            | 7.03 | 397.3            | 702              | 1.0           |              |
| 1049 | 20.8            | 6.98 | 399.7            | 71000            | 1.5           |              |
|      |                 |      |                  |                  |               |              |
|      |                 |      |                  |                  |               |              |

CEP  
 MB  
 123  
 124

Did well dewater? Yes  No  Gallons actually evacuated: 1.5

Sampling Date: 11/6/09 Sampling Time: 1055 Depth to Water: 11.21

Sample I.D.: MW-4 Laboratory: Kiff CalScience Other Torrent-Milak

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE CDC

EB I.D. (if applicable): @ \_\_\_\_\_ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd): Pre-purge: 2.76 mg/L Post-purge: \_\_\_\_\_ mg/L

O.R.P. (if req'd): Pre-purge: \_\_\_\_\_ mV Post-purge: \_\_\_\_\_ mV







# WELL MONITORING DATA SHEET

|   |  |
|---|--|
| Project #: <u>091106-RMI</u>  | Client: <u>Impact Env</u>  |
| Sampler: <u>R.M.</u>  | Date: <u>11/6/09</u>   |
| Well I.D.: <u>MW-6</u>  | Well Diameter: <u>(2)</u> 3 4 6 8 _____                                    |
| Total Well Depth (TD): <u>14.38</u>   | Depth to Water (DTW): <u>10.02</u> <span style="float: right;">4.36</span> |
| Depth to Free Product:  | Thickness of Free Product (feet):  |
| Referenced to: <u>(PVC)</u> Grade   | D.O. Meter (if req'd): <u>(YSI)</u> HACH                                   |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>10.89</u> |  |

Purge Method:  Bailer  Disposable Bailer  Positive Air Displacement  Electric Submersible

Waterra  Peristaltic  Extraction Pump  Other \_\_\_\_\_

Sampling Method:  Bailer  Disposable Bailer  Extraction Port  Dedicated Tubing

Other: \_\_\_\_\_

|               |           |                   |   |                   |       |
|---------------|-----------|-------------------|---|-------------------|-------|
| <u>.7</u>     | (Gals.) X | <u>3</u>          | = | <u>2.1</u>        | Gals. |
| 1 Case Volume |           | Specified Volumes |   | Calculated Volume |       |

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 1"            | 0.04       | 4"            | 0.65                        |
| 2"            | 0.16       | 6"            | 1.47                        |
| 3"            | 0.37       | Other         | radius <sup>2</sup> * 0.163 |

| Time | Temp<br>(°F or °C) | pH   | Cond<br>(mS or µS) | Turbidity<br>(NTUs) | Gals. Removed | Observations |
|------|--------------------|------|--------------------|---------------------|---------------|--------------|
| 1107 | 20.9               | 7.20 | 477.4              | 491                 | .7            |              |
| 1108 | 21.4               | 7.03 | 466.6              | 579                 | 1.4           |              |
| 1109 | 21.1               | 6.98 | 461.3              | 71000               | 2.1           |              |
|      |                    |      |                    |                     |               |              |
|      |                    |      |                    |                     |               |              |

ORP  
117  
132  
141

Did well dewater? Yes  No  Gallons actually evacuated: 2.1

Sampling Date: 11/6/09 Sampling Time: 1115 Depth to Water: 10.76

Sample I.D.: MW-6 Laboratory: Kiff CalScience Other Torrent-Milak

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE CDE

EB I.D. (if applicable): @ \_\_\_\_\_ Time Duplicate I.D. (if applicable): \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: \_\_\_\_\_

|  |                        |
|--|------------------------|
| D.O. (if req'd): <u>(Pre-purge)</u> <u>2.80</u> mg/L | Post-purge: _____ mg/L |
| O.R.P. (if req'd): <u>(Pre-purge)</u> _____ mV       | Post-purge: _____ mV   |







## WELL MONITORING DATA SHEET

|  |  |
|--|--|
| Project #: 091112-1W-2   | Client: IMPACT                         |
| Sampler: 1W  | Date: 11/12/09                         |
| Well I.D.: MW-8  | Well Diameter: 2 3 <u>4</u> 6 8        |
| Total Well Depth (TD): 26.67   | Depth to Water (DTW): 10.21            |
| Depth to Free Product:   | Thickness of Free Product (feet):      |
| Referenced to: <u>PVC</u> Grade                                      | D.O. Meter (if req'd): <u>YSI</u> HACH |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.51 |  |

|  |  |   |
|--|--|---|
| Purge Method: Bailer<br>Disposable Bailer<br>Positive Air Displacement<br><input checked="" type="checkbox"/> Electric Submersible | Waterra<br>Peristaltic<br>Extraction Pump<br>Other _____ | Sampling Method: Bailer<br><input checked="" type="checkbox"/> Disposable Bailer<br>Extraction Port<br>Dedicated Tubing<br>Other: _____ |
|--|--|---|

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 1"            | 0.04       | 4"            | 0.65                        |
| 2"            | 0.16       | 6"            | 1.47                        |
| 3"            | 0.37       | Other         | radius <sup>2</sup> * 0.163 |

|               |           |                   |   |                   |       |
|---------------|-----------|-------------------|---|-------------------|-------|
| 10.7          | (Gals.) X | <u>3</u>          | = | <u>32.1</u>       | Gals. |
| 1 Case Volume |           | Specified Volumes |   | Calculated Volume |       |

| Time    | Temp<br>(°F or °C) | pH   | Cond.<br>(mS or µS) | Turbidity<br>(NTUs) | Gals. Removed | Observations |
|---------|--------------------|------|---------------------|---------------------|---------------|--------------|
| 15 1429 | 18.8               | 6.57 | 729                 | 39                  | 11.0          |              |
| 1431    | 19.3               | 6.73 | 699                 | 47                  | 22.0          |              |
| 45 1432 | 19.5               | 6.76 | 678                 | 48                  | 32.1          | DTW = 12.68  |
|         |                    |      |                     |                     |               |              |
|         |                    |      |                     |                     |               |              |

|   |                                  |                       |
|---|----------------------------------|-----------------------|
| Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Gallons actually evacuated: 32.1 |                       |
| Sampling Date: 11/12/09   | Sampling Time: 1440              | Depth to Water: 12.68 |
| Sample I.D.: MW-8   | Laboratory: Kiff CalScience      | Other: <u>TORRENT</u> |
| Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5)                                    | Other: <u>SEE COC</u>            |                       |
| EB I.D. (if applicable): @ Time   | Duplicate I.D. (if applicable):  |                       |
| Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5)                                    | Other:                           |                       |
| D.O. (if req'd): <u>Pre-purge:</u> 0.82 mg/L  | Post-purge:                      | mg/L                  |
| O.R.P. (if req'd): <u>Pre-purge:</u> mV   | Post-purge:                      | mV                    |



## WELL MONITORING DATA SHEET

|  |  |
|--|--|
| Project #: 09112-1W-2  | Client: IMPACT                         |
| Sampler: 1W  | Date: 11/12/09                         |
| Well I.D.: GW-1  | Well Diameter: 2 3 <u>4</u> 6 8        |
| Total Well Depth (TD): 16.98   | Depth to Water (DTW): 10.62            |
| Depth to Free Product:   | Thickness of Free Product (feet):      |
| Referenced to: <u>PVC</u> Grade                                      | D.O. Meter (if req'd): <u>YSI</u> HACH |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.89 |  |

|  |                 |   |
|--|-----------------|---|
| Purge Method: Bailer                                     | Waterra         | Sampling Method: Bailer                               |
| Disposable Bailer  | Peristaltic     | <input checked="" type="checkbox"/> Disposable Bailer |
| Positive Air Displacement                                | Extraction Pump | Extraction Port                                       |
| <input checked="" type="checkbox"/> Electric Submersible | Other _____     | Dedicated Tubing                                      |
| Other: _____   |                 |   |

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 1"            | 0.04       | 4"            | 0.65                        |
| 2"            | 0.16       | 6"            | 1.47                        |
| 3"            | 0.37       | Other         | radius <sup>2</sup> * 0.163 |

|               |           |                   |   |                   |       |
|---------------|-----------|-------------------|---|-------------------|-------|
| 4.2           | (Gals.) X | <u>3</u>          | = | <u>12.6</u>       | Gals. |
| 1 Case Volume |           | Specified Volumes |   | Calculated Volume |       |

| Time | Temp (°F or °C) | pH   | Cond. (mS or µS) | Turbidity (NTUs) | Gals. Removed | Observations |
|------|-----------------|------|------------------|------------------|---------------|--------------|
| 1416 | 19.2            | 6.69 | 471              | 37               | 4.2           |              |
| 1417 | 19.5            | 6.63 | 474              | 97               | 2.4           |              |
| 1417 | WELL DEWATERED  |      |                  | @ 8.5            | 8.5 gallons   | DTW = 14.80  |
| 1450 | 19.7            | 6.72 | 581              | 263              | GRAB          |              |

|  |                                 |                       |
|--|---------------------------------|-----------------------|
| Did well dewater? <input checked="" type="checkbox"/> Yes No | Gallons actually evacuated: 8.5 |                       |
| Sampling Date: 11/12/09                                      | Sampling Time: 1450             | Depth to Water: 11.70 |
| Sample I.D.: GW-1  | Laboratory: Kiff CalScience     | Other: <u>TORRENT</u> |
| Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5)           | Other: <u>SEE COC</u>           |                       |
| EB I.D. (if applicable): @ Time                              | Duplicate I.D. (if applicable): |                       |
| Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5)           | Other:                          |                       |
| D.O. (if req'd): <u>Pre-purge</u> 27.16 mg/L                 | Post-purge:                     | mg/L                  |
| O.R.P. (if req'd): Pre-purge: mV                             | Post-purge:                     | mV                    |



# WELL MONITORING DATA SHEET

|   |   |
|---|---|
| Project #: <u>091106-RMI</u>  | Client: <u>Impact Env</u>   |
| Sampler: <u>R.M.</u>  | Date: <u>11/16/09</u>   |
| Well I.D.: <u>GW-2</u>  | Well Diameter: 2 3 <u>4</u> 6 8   |
| Total Well Depth (TD): <u>17.01</u>   | Depth to Water (DTW): <u>10.93</u> <span style="float: right;"><u>6.08</u></span> |
| Depth to Free Product:  | Thickness of Free Product (feet):   |
| Referenced to: <u>PVC</u> Grade   | D.O. Meter (if req'd): <u>YSI</u> HACH  |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>12.14</u> |   |

Purge Method:  Bailer       Waterra      Sampling Method:  Bailer  
 Disposable Bailer       Peristaltic       Disposable Bailer  
 Positive Air Displacement       Extraction Pump       Extraction Port  
 Electric Submersible      Other \_\_\_\_\_       Dedicated Tubing

Other: \_\_\_\_\_

|               |           |                   |   |                   |       |
|---------------|-----------|-------------------|---|-------------------|-------|
| <u>4</u>      | (Gals.) X | <u>3</u>          | = | <u>12.0</u>       | Gals. |
| 1 Case Volume |           | Specified Volumes |   | Calculated Volume |       |

| Well Diameter | Multiplier | Well Diameter | Multiplier                  |
|---------------|------------|---------------|-----------------------------|
| 1"            | 0.04       | 4"            | 0.65                        |
| 2"            | 0.16       | 6"            | 1.47                        |
| 3"            | 0.37       | Other         | radius <sup>2</sup> * 0.163 |

| Time        | Temp<br>(°F or °C) | pH          | Cond.<br>(mS or µS) | Turbidity<br>(NTUs) | Gals. Removed | Observations |
|-------------|--------------------|-------------|---------------------|---------------------|---------------|--------------|
| <u>1155</u> | <u>20.2</u>        | <u>7.07</u> | <u>517.4</u>        | <u>84</u>           | <u>4</u>      |              |
| <u>1156</u> | <u>20.5</u>        | <u>6.85</u> | <u>491.4</u>        | <u>153</u>          | <u>8</u>      |              |
| <u>1157</u> |                    |             |                     |                     |               |              |
| <u>1205</u> |                    |             |                     |                     |               |              |

Did well dewater?  Yes    No      Gallons actually evacuated: 8

Sampling Date: 11/16/09    Sampling Time: 1205    Depth to Water: 12.10

Sample I.D.: GW-2      Laboratory:    Kiff    CalScience    Other: Torrent-Mulat

Analyzed for:    TPH-G    BTEX    MTBE    TPH-D    Oxygenates (5)    Other: SEE CWC

EB I.D. (if applicable):      @      Time      Duplicate I.D. (if applicable):

Analyzed for:    TPH-G    BTEX    MTBE    TPH-D    Oxygenates (5)    Other:

D.O. (if req'd):    Pre-purge:    0.20    mg/L    Post-purge:    mg/L

O.R.P. (if req'd):    Pre-purge:    mV    Post-purge:    mV







**APPENDIX B**

**Certified Laboratory Analytical Reports**  
**Third and Fourth Quarters 2009**



August 03, 2009

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

TEL: 510-703-5420

FAX 510-713-7790

RE: 1409 12th St Oakland

Order No.: 0907184

Dear Mr. Joseph Cotton:

Torrent Laboratory, Inc. received 11 samples on 7/27/2009 for the analyses presented in the following report.

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

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

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

Sincerely,

  
Laboratory Director

  
Date

Patti Sandrock  
QA Officer 



**Torrent Laboratory, Inc.****Date:** 03-Aug-09**CLIENT:** Impact Environmental Services**Project:** 1409 12th St Oakland**Lab Order:** 0907184**CASE NARRATIVE**

Analytical Comments, General, Note: Based on historical data and discussion with the client, the sample IDs for sample 0907184-009 and -010 have been reversed from those listed on the received CoC. Sample -009 was changed from "GW-1" to "GW-2" and sample -010 from "GW-2" to "GW-1". All historical data indicates that the sample IDs were erroneously switched in the field and confirmation of that likelihood was made with the client's concurrence.



# TORRENT LABORATORY, INC.

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

Visit us at [www.torrentlab.com](http://www.torrentlab.com) email: [analysis@torrentlab.com](mailto:analysis@torrentlab.com)

Report prepared for: Mr. Joseph Cotton  
Impact Environmental Services

Date Received: 7/27/2009  
Date Reported: 8/3/2009

Client Sample ID: MW-1  
Sample Location: 1409 12th St Oakland  
Sample Matrix: GROUNDWATER  
Date/Time Sampled 7/26/2009 11:35:00 AM

Lab Sample ID: 0907184-001  
Date Prepared:

| Parameters                     | Analysis Method | Date Analyzed | RL  | Dilution Factor | MRL      | Result | Units | Analytical Batch |
|--------------------------------|-----------------|---------------|-----|-----------------|----------|--------|-------|------------------|
| TPH (Diesel-SG)                | SW8015B         | 7/31/2009     | 0.1 | 1               | 0.10     | ND     | mg/L  | R20492           |
| TPH (Motor Oil-SG)             | SW8015B         | 7/31/2009     | 0.2 | 1               | 0.20     | ND     | mg/L  | R20492           |
| Surr: Pentacosane              | SW8015B         | 7/31/2009     | 0   | 1               | 64.2-123 | 90.0   | %REC  | R20492           |
| Benzene                        | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Toluene                        | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Ethylbenzene                   | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Methyl tert-butyl ether (MTBE) | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Diisopropyl ether (DIPE)       | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Ethyl tert-butyl ether (ETBE)  | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| tert-Amyl methyl ether (TAME)  | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| t-Butyl alcohol (t-Butanol)    | SW8260B         | 7/28/2009     | 10  | 1               | 10       | ND     | µg/L  | R20441           |
| Xylenes, Total                 | SW8260B         | 7/28/2009     | 1.5 | 1               | 1.5      | ND     | µg/L  | R20441           |
| Surr: Dibromofluoromethane     | SW8260B         | 7/28/2009     | 0   | 1               | 61.2-131 | 80.5   | %REC  | R20441           |
| Surr: 4-Bromofluorobenzene     | SW8260B         | 7/28/2009     | 0   | 1               | 64.1-120 | 107    | %REC  | R20441           |
| Surr: Toluene-d8               | SW8260B         | 7/28/2009     | 0   | 1               | 75.1-127 | 97.8   | %REC  | R20441           |
| TPH (Gasoline)                 | SW8260B(TPH)    | 7/28/2009     | 50  | 1               | 50       | ND     | µg/L  | G20441           |
| Surr: 4-Bromofluorobenzene     | SW8260B(TPH)    | 7/28/2009     | 0   | 1               | 53-118   | 98.3   | %REC  | G20441           |



**Client Sample ID:** MW-2  
**Sample Location:** 1409 12th St Oakland  
**Sample Matrix:** GROUNDWATER  
**Date/Time Sampled** 7/26/2009 11:38:00 AM

**Lab Sample ID:** 0907184-002  
**Date Prepared:** 7/28/2009-7/30/2009

| Parameters                     | Analysis Method | Date Analyzed | RL  | Dilution Factor | MRL      | Result | Units | Analytical Batch |
|--------------------------------|-----------------|---------------|-----|-----------------|----------|--------|-------|------------------|
| TPH (Diesel-SG)                | SW8015B         | 7/31/2009     | 0.1 | 1               | 0.10     | ND     | mg/L  | R20492           |
| TPH (Motor Oil-SG)             | SW8015B         | 7/31/2009     | 0.2 | 1               | 0.20     | ND     | mg/L  | R20492           |
| Surr: Pentacosane              | SW8015B         | 7/31/2009     | 0   | 1               | 64.2-123 | 87.0   | %REC  | R20492           |
| Benzene                        | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Toluene                        | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Ethylbenzene                   | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Methyl tert-butyl ether (MTBE) | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Diisopropyl ether (DIPE)       | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Ethyl tert-butyl ether (ETBE)  | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| tert-Amyl methyl ether (TAME)  | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| t-Butyl alcohol (t-Butanol)    | SW8260B         | 7/28/2009     | 10  | 1               | 10       | ND     | µg/L  | R20441           |
| Xylenes, Total                 | SW8260B         | 7/28/2009     | 1.5 | 1               | 1.5      | ND     | µg/L  | R20441           |
| Surr: Dibromofluoromethane     | SW8260B         | 7/28/2009     | 0   | 1               | 61.2-131 | 85.0   | %REC  | R20441           |
| Surr: 4-Bromofluorobenzene     | SW8260B         | 7/28/2009     | 0   | 1               | 64.1-120 | 101    | %REC  | R20441           |
| Surr: Toluene-d8               | SW8260B         | 7/28/2009     | 0   | 1               | 75.1-127 | 104    | %REC  | R20441           |
| TPH (Gasoline)                 | SW8260B(TPH)    | 7/28/2009     | 50  | 1               | 50       | ND     | µg/L  | G20441           |
| Surr: 4-Bromofluorobenzene     | SW8260B(TPH)    | 7/28/2009     | 0   | 1               | 53-118   | 87.1   | %REC  | G20441           |

**Client Sample ID:** MW-3  
**Sample Location:** 1409 12th St Oakland  
**Sample Matrix:** GROUNDWATER  
**Date/Time Sampled** 7/26/2009 12:50:00 PM

**Lab Sample ID:** 0907184-003  
**Date Prepared:** 7/28/2009-7/30/2009

| Parameters   | Analysis Method | Date Analyzed | RL  | Dilution Factor | MRL      | Result | Units | Analytical Batch |
|--|-----------------|---------------|-----|-----------------|----------|--------|-------|------------------|
| TPH (Diesel-SG)  | SW8015B         | 7/31/2009     | 0.1 | 1               | 0.12     | ND     | mg/L  | R20492           |
| TPH (Motor Oil-SG)   | SW8015B         | 7/31/2009     | 0.2 | 1               | 0.23     | ND     | mg/L  | R20492           |
| Surr: Pentacosane  | SW8015B         | 7/31/2009     | 0   | 1               | 64.2-123 | 83.0   | %REC  | R20492           |
| Note: Reporting limits of increased due to limited sample volume available (sediment present). |                 |               |     |                 |          |        |       |                  |
| Benzene  | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Toluene  | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Ethylbenzene   | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Methyl tert-butyl ether (MTBE)   | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Diisopropyl ether (DIPE)   | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Ethyl tert-butyl ether (ETBE)  | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| tert-Amyl methyl ether (TAME)  | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| t-Butyl alcohol (t-Butanol)  | SW8260B         | 7/28/2009     | 10  | 1               | 10       | ND     | µg/L  | R20441           |
| Xylenes, Total   | SW8260B         | 7/28/2009     | 1.5 | 1               | 1.5      | ND     | µg/L  | R20441           |
| Surr: Dibromofluoromethane   | SW8260B         | 7/28/2009     | 0   | 1               | 61.2-131 | 81.1   | %REC  | R20441           |
| Surr: 4-Bromofluorobenzene   | SW8260B         | 7/28/2009     | 0   | 1               | 64.1-120 | 110    | %REC  | R20441           |
| Surr: Toluene-d8   | SW8260B         | 7/28/2009     | 0   | 1               | 75.1-127 | 109    | %REC  | R20441           |
| TPH (Gasoline)   | SW8260B(TPH)    | 7/28/2009     | 50  | 1               | 50       | ND     | µg/L  | G20441           |
| Surr: 4-Bromofluorobenzene   | SW8260B(TPH)    | 7/28/2009     | 0   | 1               | 53-118   | 96.6   | %REC  | G20441           |

**Client Sample ID:** MW-4  
**Sample Location:** 1409 12th St Oakland  
**Sample Matrix:** GROUNDWATER  
**Date/Time Sampled** 7/26/2009 11:49:00 AM

**Lab Sample ID:** 0907184-004  
**Date Prepared:** 7/28/2009-7/30/2009

| Parameters   | Analysis Method | Date Analyzed | RL  | Dilution Factor | MRL      | Result | Units | Analytical Batch |
|--|-----------------|---------------|-----|-----------------|----------|--------|-------|------------------|
| TPH (Diesel-SG)  | SW8015B         | 7/31/2009     | 0.1 | 1               | 0.11     | ND     | mg/L  | R20492           |
| TPH (Motor Oil-SG)   | SW8015B         | 7/31/2009     | 0.2 | 1               | 0.22     | ND     | mg/L  | R20492           |
| Surr: Pentacosane  | SW8015B         | 7/31/2009     | 0   | 1               | 64.2-123 | 104    | %REC  | R20492           |
| Note: Reporting limits of increased due to limited sample volume available (sediment present). |                 |               |     |                 |          |        |       |                  |
| Benzene  | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Toluene  | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Ethylbenzene   | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Methyl tert-butyl ether (MTBE)   | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Diisopropyl ether (DIPE)   | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Ethyl tert-butyl ether (ETBE)  | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| tert-Amyl methyl ether (TAME)  | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| t-Butyl alcohol (t-Butanol)  | SW8260B         | 7/28/2009     | 10  | 1               | 10       | ND     | µg/L  | R20441           |
| Xylenes, Total   | SW8260B         | 7/28/2009     | 1.5 | 1               | 1.5      | ND     | µg/L  | R20441           |
| Surr: Dibromofluoromethane   | SW8260B         | 7/28/2009     | 0   | 1               | 61.2-131 | 90.7   | %REC  | R20441           |
| Surr: 4-Bromofluorobenzene   | SW8260B         | 7/28/2009     | 0   | 1               | 64.1-120 | 95.2   | %REC  | R20441           |
| Surr: Toluene-d8   | SW8260B         | 7/28/2009     | 0   | 1               | 75.1-127 | 102    | %REC  | R20441           |
| TPH (Gasoline)   | SW8260B(TPH)    | 7/28/2009     | 50  | 1               | 50       | ND     | µg/L  | G20441           |
| Surr: 4-Bromofluorobenzene   | SW8260B(TPH)    | 7/28/2009     | 0   | 1               | 53-118   | 92.2   | %REC  | G20441           |



**Client Sample ID:** MW-5  
**Sample Location:** 1409 12th St Oakland  
**Sample Matrix:** GROUNDWATER  
**Date/Time Sampled** 7/26/2009 12:50:00 PM

**Lab Sample ID:** 0907184-005  
**Date Prepared:** 7/28/2009-7/30/2009

| Parameters                     | Analysis Method | Date Analyzed | RL  | Dilution Factor | MRL      | Result | Units | Analytical Batch |
|--------------------------------|-----------------|---------------|-----|-----------------|----------|--------|-------|------------------|
| TPH (Diesel-SG)                | SW8015B         | 7/31/2009     | 0.1 | 1               | 0.10     | ND     | mg/L  | R20492           |
| TPH (Motor Oil-SG)             | SW8015B         | 7/31/2009     | 0.2 | 1               | 0.20     | ND     | mg/L  | R20492           |
| Surr: Pentacosane              | SW8015B         | 7/31/2009     | 0   | 1               | 64.2-123 | 95.0   | %REC  | R20492           |
| Benzene                        | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Toluene                        | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Ethylbenzene                   | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Methyl tert-butyl ether (MTBE) | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Diisopropyl ether (DIPE)       | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Ethyl tert-butyl ether (ETBE)  | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| tert-Amyl methyl ether (TAME)  | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| t-Butyl alcohol (t-Butanol)    | SW8260B         | 7/28/2009     | 10  | 1               | 10       | ND     | µg/L  | R20441           |
| Xylenes, Total                 | SW8260B         | 7/28/2009     | 1.5 | 1               | 1.5      | ND     | µg/L  | R20441           |
| Surr: Dibromofluoromethane     | SW8260B         | 7/28/2009     | 0   | 1               | 61.2-131 | 78.6   | %REC  | R20441           |
| Surr: 4-Bromofluorobenzene     | SW8260B         | 7/28/2009     | 0   | 1               | 64.1-120 | 102    | %REC  | R20441           |
| Surr: Toluene-d8               | SW8260B         | 7/28/2009     | 0   | 1               | 75.1-127 | 98.0   | %REC  | R20441           |
| TPH (Gasoline)                 | SW8260B(TPH)    | 7/28/2009     | 50  | 1               | 50       | ND     | µg/L  | G20441           |
| Surr: 4-Bromofluorobenzene     | SW8260B(TPH)    | 7/28/2009     | 0   | 1               | 53-118   | 75.0   | %REC  | G20441           |

**Client Sample ID:** MW-6  
**Sample Location:** 1409 12th St Oakland  
**Sample Matrix:** GROUNDWATER  
**Date/Time Sampled** 7/26/2009 11:59:00 AM

**Lab Sample ID:** 0907184-006  
**Date Prepared:** 7/28/2009-7/30/2009

| Parameters                     | Analysis Method | Date Analyzed | RL  | Dilution Factor | MRL      | Result | Units | Analytical Batch |
|--------------------------------|-----------------|---------------|-----|-----------------|----------|--------|-------|------------------|
| TPH (Diesel-SG)                | SW8015B         | 7/31/2009     | 0.1 | 1               | 0.10     | ND     | mg/L  | R20492           |
| TPH (Motor Oil-SG)             | SW8015B         | 7/31/2009     | 0.2 | 1               | 0.20     | ND     | mg/L  | R20492           |
| Surr: Pentacosane              | SW8015B         | 7/31/2009     | 0   | 1               | 64.2-123 | 101    | %REC  | R20492           |
| Benzene                        | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Toluene                        | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Ethylbenzene                   | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Methyl tert-butyl ether (MTBE) | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Diisopropyl ether (DIPE)       | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Ethyl tert-butyl ether (ETBE)  | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| tert-Amyl methyl ether (TAME)  | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| t-Butyl alcohol (t-Butanol)    | SW8260B         | 7/28/2009     | 10  | 1               | 10       | ND     | µg/L  | R20441           |
| Xylenes, Total                 | SW8260B         | 7/28/2009     | 1.5 | 1               | 1.5      | ND     | µg/L  | R20441           |
| Surr: Dibromofluoromethane     | SW8260B         | 7/28/2009     | 0   | 1               | 61.2-131 | 74.6   | %REC  | R20441           |
| Surr: 4-Bromofluorobenzene     | SW8260B         | 7/28/2009     | 0   | 1               | 64.1-120 | 99.6   | %REC  | R20441           |
| Surr: Toluene-d8               | SW8260B         | 7/28/2009     | 0   | 1               | 75.1-127 | 113    | %REC  | R20441           |
| TPH (Gasoline)                 | SW8260B(TPH)    | 7/28/2009     | 50  | 1               | 50       | ND     | µg/L  | G20441           |
| Surr: 4-Bromofluorobenzene     | SW8260B(TPH)    | 7/28/2009     | 0   | 1               | 53-118   | 72.4   | %REC  | G20441           |

**Client Sample ID:** MW-7  
**Sample Location:** 1409 12th St Oakland  
**Sample Matrix:** GROUNDWATER  
**Date/Time Sampled** 7/26/2009 11:25:00 AM

**Lab Sample ID:** 0907184-007  
**Date Prepared:** 7/28/2009-7/30/2009

| Parameters                     | Analysis Method | Date Analyzed | RL  | Dilution Factor | MRL      | Result | Units | Analytical Batch |
|--------------------------------|-----------------|---------------|-----|-----------------|----------|--------|-------|------------------|
| TPH (Diesel-SG)                | SW8015B         | 7/31/2009     | 0.1 | 1               | 0.10     | ND     | mg/L  | R20492           |
| TPH (Motor Oil-SG)             | SW8015B         | 7/31/2009     | 0.2 | 1               | 0.20     | ND     | mg/L  | R20492           |
| Surr: Pentacosane              | SW8015B         | 7/31/2009     | 0   | 1               | 64.2-123 | 95.0   | %REC  | R20492           |
| Benzene                        | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Toluene                        | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Ethylbenzene                   | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Methyl tert-butyl ether (MTBE) | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Diisopropyl ether (DIPE)       | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Ethyl tert-butyl ether (ETBE)  | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| tert-Amyl methyl ether (TAME)  | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| t-Butyl alcohol (t-Butanol)    | SW8260B         | 7/28/2009     | 10  | 1               | 10       | ND     | µg/L  | R20441           |
| Xylenes, Total                 | SW8260B         | 7/28/2009     | 1.5 | 1               | 1.5      | ND     | µg/L  | R20441           |
| Surr: Dibromofluoromethane     | SW8260B         | 7/28/2009     | 0   | 1               | 61.2-131 | 79.3   | %REC  | R20441           |
| Surr: 4-Bromofluorobenzene     | SW8260B         | 7/28/2009     | 0   | 1               | 64.1-120 | 107    | %REC  | R20441           |
| Surr: Toluene-d8               | SW8260B         | 7/28/2009     | 0   | 1               | 75.1-127 | 106    | %REC  | R20441           |
| TPH (Gasoline)                 | SW8260B(TPH)    | 7/28/2009     | 50  | 1               | 50       | ND     | µg/L  | G20441           |
| Surr: 4-Bromofluorobenzene     | SW8260B(TPH)    | 7/28/2009     | 0   | 1               | 53-118   | 80.2   | %REC  | G20441           |



Client Sample ID: MW-8  
Sample Location: 1409 12th St Oakland  
Sample Matrix: GROUNDWATER  
Date/Time Sampled 7/26/2009 12:57:00 PM

Lab Sample ID: 0907184-008  
Date Prepared: 7/28/2009-7/30/2009

| Parameters                     | Analysis Method | Date Analyzed | RL  | Dilution Factor | MRL      | Result | Units | Analytical Batch |
|--------------------------------|-----------------|---------------|-----|-----------------|----------|--------|-------|------------------|
| TPH (Diesel-SG)                | SW8015B         | 7/31/2009     | 0.1 | 1               | 0.10     | ND     | mg/L  | R20492           |
| TPH (Motor Oil-SG)             | SW8015B         | 7/31/2009     | 0.2 | 1               | 0.20     | ND     | mg/L  | R20492           |
| Surr: Pentacosane              | SW8015B         | 7/31/2009     | 0   | 1               | 64.2-123 | 94.0   | %REC  | R20492           |
| Benzene                        | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Toluene                        | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Ethylbenzene                   | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Methyl tert-butyl ether (MTBE) | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Diisopropyl ether (DIPE)       | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Ethyl tert-butyl ether (ETBE)  | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| tert-Amyl methyl ether (TAME)  | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| t-Butyl alcohol (t-Butanol)    | SW8260B         | 7/28/2009     | 10  | 1               | 10       | ND     | µg/L  | R20441           |
| Xylenes, Total                 | SW8260B         | 7/28/2009     | 1.5 | 1               | 1.5      | ND     | µg/L  | R20441           |
| Surr: Dibromofluoromethane     | SW8260B         | 7/28/2009     | 0   | 1               | 61.2-131 | 82.5   | %REC  | R20441           |
| Surr: 4-Bromofluorobenzene     | SW8260B         | 7/28/2009     | 0   | 1               | 64.1-120 | 104    | %REC  | R20441           |
| Surr: Toluene-d8               | SW8260B         | 7/28/2009     | 0   | 1               | 75.1-127 | 91.9   | %REC  | R20441           |
| TPH (Gasoline)                 | SW8260B(TPH)    | 7/28/2009     | 50  | 1               | 50       | ND     | µg/L  | G20441           |
| Surr: 4-Bromofluorobenzene     | SW8260B(TPH)    | 7/28/2009     | 0   | 1               | 53-118   | 80.2   | %REC  | G20441           |

**Client Sample ID:** GW-2  
**Sample Location:** 1409 12th St Oakland  
**Sample Matrix:** GROUNDWATER  
**Date/Time Sampled** 7/26/2009 11:55:00 AM

**Lab Sample ID:** 0907184-009  
**Date Prepared:** 7/29/2009-7/30/2009

| Parameters   | Analysis Method | Date Analyzed | RL  | Dilution Factor | MRL      | Result | Units | Analytical Batch |
|--|-----------------|---------------|-----|-----------------|----------|--------|-------|------------------|
| TPH (Diesel-SG)  | SW8015B         | 7/31/2009     | 0.1 | 1               | 0.11     | ND     | mg/L  | R20492           |
| TPH (Motor Oil-SG)   | SW8015B         | 7/31/2009     | 0.2 | 1               | 0.23     | ND     | mg/L  | R20492           |
| Surr: Pentacosane  | SW8015B         | 7/31/2009     | 0   | 1               | 64.2-123 | 84.0   | %REC  | R20492           |
| Note: Reporting limits of increased due to limited sample volume available (sediment present). |                 |               |     |                 |          |        |       |                  |
| Benzene  | SW8260B         | 7/29/2009     | 0.5 | 1               | 0.50     | 25     | µg/L  | R20455           |
| Toluene  | SW8260B         | 7/29/2009     | 0.5 | 1               | 0.50     | 9.5    | µg/L  | R20455           |
| Ethylbenzene   | SW8260B         | 7/29/2009     | 0.5 | 1               | 0.50     | 12     | µg/L  | R20455           |
| Methyl tert-butyl ether (MTBE)   | SW8260B         | 7/29/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20455           |
| Diisopropyl ether (DIPE)   | SW8260B         | 7/29/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20455           |
| Ethyl tert-butyl ether (ETBE)  | SW8260B         | 7/29/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20455           |
| tert-Amyl methyl ether (TAME)  | SW8260B         | 7/29/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20455           |
| t-Butyl alcohol (t-Butanol)  | SW8260B         | 7/29/2009     | 10  | 1               | 10       | ND     | µg/L  | R20455           |
| Xylenes, Total   | SW8260B         | 7/29/2009     | 1.5 | 1               | 1.5      | 79     | µg/L  | R20455           |
| Surr: Dibromofluoromethane   | SW8260B         | 7/29/2009     | 0   | 1               | 61.2-131 | 103    | %REC  | R20455           |
| Surr: 4-Bromofluorobenzene   | SW8260B         | 7/29/2009     | 0   | 1               | 64.1-120 | 103    | %REC  | R20455           |
| Surr: Toluene-d8   | SW8260B         | 7/29/2009     | 0   | 1               | 75.1-127 | 110    | %REC  | R20455           |
| TPH (Gasoline)   | SW8260B(TPH)    | 7/29/2009     | 50  | 1               | 50       | 550    | µg/L  | G20455           |
| Surr: 4-Bromofluorobenzene   | SW8260B(TPH)    | 7/29/2009     | 0   | 1               | 53-118   | 99.1   | %REC  | G20455           |

Note: Although TPH as Gasoline constituents are present, TPH value includes a significant portion of heavier hydrocarbons within range of C5-C12 quantified as Gasoline that biases the quantitation.

**Client Sample ID:** GW-1  
**Sample Location:** 1409 12th St Oakland  
**Sample Matrix:** GROUNDWATER  
**Date/Time Sampled** 7/26/2009 1:40:00 PM

**Lab Sample ID:** 0907184-010  
**Date Prepared:** 7/29/2009-7/30/2009

| Parameters   | Analysis Method | Date Analyzed | RL  | Dilution Factor | MRL      | Result | Units | Analytical Batch |
|--|-----------------|---------------|-----|-----------------|----------|--------|-------|------------------|
| TPH (Diesel-SG)  | SW8015B         | 7/31/2009     | 0.1 | 1               | 0.10     | 0.54x  | mg/L  | R20492           |
| TPH (Motor Oil-SG)   | SW8015B         | 7/31/2009     | 0.2 | 1               | 0.20     | ND     | mg/L  | R20492           |
| Surr: Pentacosane  | SW8015B         | 7/31/2009     | 0   | 1               | 64.2-123 | 85.0   | %REC  | R20492           |
| Note: x- Sample chromatogram does not resemble typical diesel pattern (possibly fuel lighter than diesel). Hydrocarbons within diesel range quantitated as diesel. |                 |               |     |                 |          |        |       |                  |
| Benzene  | SW8260B         | 7/29/2009     | 0.5 | 44              | 22       | 1100   | µg/L  | R20455           |
| Toluene  | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | 54     | µg/L  | R20441           |
| Ethylbenzene   | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | 120    | µg/L  | R20441           |
| Methyl tert-butyl ether (MTBE)   | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Diisopropyl ether (DIPE)   | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| Ethyl tert-butyl ether (ETBE)  | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| tert-Amyl methyl ether (TAME)  | SW8260B         | 7/28/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20441           |
| t-Butyl alcohol (t-Butanol)  | SW8260B         | 7/28/2009     | 10  | 1               | 10       | ND     | µg/L  | R20441           |
| Xylenes, Total   | SW8260B         | 7/28/2009     | 1.5 | 1               | 1.5      | 100    | µg/L  | R20441           |
| Surr: Dibromofluoromethane   | SW8260B         | 7/29/2009     | 0   | 44              | 61.2-131 | 97.1   | %REC  | R20455           |
| Surr: Dibromofluoromethane   | SW8260B         | 7/28/2009     | 0   | 1               | 61.2-131 | 70.2   | %REC  | R20441           |
| Surr: 4-Bromofluorobenzene   | SW8260B         | 7/29/2009     | 0   | 44              | 64.1-120 | 97.6   | %REC  | R20455           |
| Surr: 4-Bromofluorobenzene   | SW8260B         | 7/28/2009     | 0   | 1               | 64.1-120 | 104    | %REC  | R20441           |
| Surr: Toluene-d8   | SW8260B         | 7/29/2009     | 0   | 44              | 75.1-127 | 112    | %REC  | R20455           |
| Surr: Toluene-d8   | SW8260B         | 7/28/2009     | 0   | 1               | 75.1-127 | 134 S  | %REC  | R20441           |

Note: S - Out of acceptance limits. Matrix effect suspected.

|                            |              |           |    |    |        |      |      |        |
|----------------------------|--------------|-----------|----|----|--------|------|------|--------|
| TPH (Gasoline)             | SW8260B(TPH) | 7/29/2009 | 50 | 44 | 2200   | 5700 | µg/L | G20455 |
| Surr: 4-Bromofluorobenzene | SW8260B(TPH) | 7/29/2009 | 0  | 44 | 53-118 | 97.4 | %REC | G20455 |

Note: Although TPH as Gasoline constituents are present, TPH value includes a significant portion of non-gasoline hydrocarbons within range of C5-C12 quantitated as Gasoline that biases the quantitation.



**Client Sample ID:** GW-3  
**Sample Location:** 1409 12th St Oakland  
**Sample Matrix:** GROUNDWATER  
**Date/Time Sampled** 7/26/2009 1:35:00 PM

**Lab Sample ID:** 0907184-011  
**Date Prepared:** 7/29/2009-7/30/2009

| Parameters                     | Analysis Method | Date Analyzed | RL  | Dilution Factor | MRL      | Result | Units | Analytical Batch |
|--------------------------------|-----------------|---------------|-----|-----------------|----------|--------|-------|------------------|
| TPH (Diesel-SG)                | SW8015B         | 7/31/2009     | 0.1 | 1               | 0.10     | ND     | mg/L  | R20492           |
| TPH (Motor Oil-SG)             | SW8015B         | 7/31/2009     | 0.2 | 1               | 0.20     | ND     | mg/L  | R20492           |
| Surr: Pentacosane              | SW8015B         | 7/31/2009     | 0   | 1               | 64.2-123 | 97.0   | %REC  | R20492           |
| Benzene                        | SW8260B         | 7/29/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20455           |
| Toluene                        | SW8260B         | 7/29/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20455           |
| Ethylbenzene                   | SW8260B         | 7/29/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20455           |
| Methyl tert-butyl ether (MTBE) | SW8260B         | 7/29/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20455           |
| Diisopropyl ether (DIPE)       | SW8260B         | 7/29/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20455           |
| Ethyl tert-butyl ether (ETBE)  | SW8260B         | 7/29/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20455           |
| tert-Amyl methyl ether (TAME)  | SW8260B         | 7/29/2009     | 0.5 | 1               | 0.50     | ND     | µg/L  | R20455           |
| t-Butyl alcohol (t-Butanol)    | SW8260B         | 7/29/2009     | 10  | 1               | 10       | ND     | µg/L  | R20455           |
| Xylenes, Total                 | SW8260B         | 7/29/2009     | 1.5 | 1               | 1.5      | ND     | µg/L  | R20455           |
| Surr: Dibromofluoromethane     | SW8260B         | 7/29/2009     | 0   | 1               | 61.2-131 | 95.6   | %REC  | R20455           |
| Surr: 4-Bromofluorobenzene     | SW8260B         | 7/29/2009     | 0   | 1               | 64.1-120 | 101    | %REC  | R20455           |
| Surr: Toluene-d8               | SW8260B         | 7/29/2009     | 0   | 1               | 75.1-127 | 100    | %REC  | R20455           |
| TPH (Gasoline)                 | SW8260B(TPH)    | 7/29/2009     | 50  | 1               | 50       | ND     | µg/L  | G20455           |
| Surr: 4-Bromofluorobenzene     | SW8260B(TPH)    | 7/29/2009     | 0   | 1               | 53-118   | 114    | %REC  | G20455           |

**Definitions, legends and Notes**

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

**CLIENT:** Impact Environmental Services  
**Work Order:** 0907184  
**Project:** 1409 12th St Oakland

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: G20441**

|                             |                         |                            |                                 |                             |                     |          |           |             |      |          |      |
|-----------------------------|-------------------------|----------------------------|---------------------------------|-----------------------------|---------------------|----------|-----------|-------------|------|----------|------|
| Sample ID <b>MBG-G20441</b> | SampType: <b>MBLK</b>   | TestCode: <b>TPH_GAS_W</b> | Units: <b>µg/L</b>              | Prep Date: <b>7/28/2009</b> | RunNo: <b>20441</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>     | Batch ID: <b>G20441</b> | TestNo: <b>SW8260B(TP)</b> | Analysis Date: <b>7/28/2009</b> | SeqNo: <b>296228</b>        |                     |          |           |             |      |          |      |
| Analyte                     | Result                  | PQL                        | SPK value                       | SPK Ref Val                 | %REC                | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| TPH (Gasoline)              | ND                      | 50                         |                                 |                             |                     |          |           |             |      |          |      |
| Surr: 4-Bromofllurobenzene  | 11.70                   | 0                          | 11.36                           | 0                           | 103                 | 53       | 118       |             |      |          |      |

|                              |                         |                            |                                 |                             |                     |          |           |             |      |          |      |
|------------------------------|-------------------------|----------------------------|---------------------------------|-----------------------------|---------------------|----------|-----------|-------------|------|----------|------|
| Sample ID <b>LCSG-G20441</b> | SampType: <b>LCS</b>    | TestCode: <b>TPH_GAS_W</b> | Units: <b>µg/L</b>              | Prep Date: <b>7/28/2009</b> | RunNo: <b>20441</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>      | Batch ID: <b>G20441</b> | TestNo: <b>SW8260B(TP)</b> | Analysis Date: <b>7/28/2009</b> | SeqNo: <b>296233</b>        |                     |          |           |             |      |          |      |
| Analyte                      | Result                  | PQL                        | SPK value                       | SPK Ref Val                 | %REC                | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| TPH (Gasoline)               | 238.0                   | 50                         | 227                             | 0                           | 105                 | 52.4     | 127       |             |      |          |      |
| Surr: 4-Bromofllurobenzene   | 10.60                   | 0                          | 11.36                           | 0                           | 93.3                | 53       | 118       |             |      |          |      |

|                               |                         |                            |                                 |                             |                     |          |           |             |      |          |      |
|-------------------------------|-------------------------|----------------------------|---------------------------------|-----------------------------|---------------------|----------|-----------|-------------|------|----------|------|
| Sample ID <b>LCSDG-G20441</b> | SampType: <b>LCSD</b>   | TestCode: <b>TPH_GAS_W</b> | Units: <b>µg/L</b>              | Prep Date: <b>7/28/2009</b> | RunNo: <b>20441</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>       | Batch ID: <b>G20441</b> | TestNo: <b>SW8260B(TP)</b> | Analysis Date: <b>7/28/2009</b> | SeqNo: <b>296234</b>        |                     |          |           |             |      |          |      |
| Analyte                       | Result                  | PQL                        | SPK value                       | SPK Ref Val                 | %REC                | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| TPH (Gasoline)                | 262.0                   | 50                         | 227                             | 0                           | 115                 | 52.4     | 127       | 238         | 9.60 | 20       |      |
| Surr: 4-Bromofllurobenzene    | 11.30                   | 0                          | 11.36                           | 0                           | 99.5                | 53       | 118       | 0           | 0    | 0        |      |

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



**CLIENT:** Impact Environmental Services  
**Work Order:** 0907184  
**Project:** 1409 12th St Oakland

## ANALYTICAL QC SUMMARY REPORT

**BatchID: G20455**

|                             |                         |                            |                    |                                 |                      |          |           |             |      |          |      |
|-----------------------------|-------------------------|----------------------------|--------------------|---------------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID <b>MBG-G20455</b> | SampType: <b>MBLK</b>   | TestCode: <b>TPH_GAS_W</b> | Units: <b>µg/L</b> | Prep Date: <b>7/29/2009</b>     | RunNo: <b>20455</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>     | Batch ID: <b>G20455</b> | TestNo: <b>SW8260B(TP)</b> |                    | Analysis Date: <b>7/29/2009</b> | SeqNo: <b>296087</b> |          |           |             |      |          |      |
| Analyte                     | Result                  | PQL                        | SPK value          | SPK Ref Val                     | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                       |       |    |       |   |      |    |     |  |  |  |  |
|-----------------------|-------|----|-------|---|------|----|-----|--|--|--|--|
| TPH (Gasoline)        | ND    | 50 |       |   |      |    |     |  |  |  |  |
| Surr: 4-Bromofluorene | 8.800 | 0  | 11.36 | 0 | 77.5 | 53 | 118 |  |  |  |  |

|                              |                         |                            |                    |                                 |                      |          |           |             |      |          |      |
|------------------------------|-------------------------|----------------------------|--------------------|---------------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID <b>LCSG-G20455</b> | SampType: <b>LCS</b>    | TestCode: <b>TPH_GAS_W</b> | Units: <b>µg/L</b> | Prep Date: <b>7/29/2009</b>     | RunNo: <b>20455</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>      | Batch ID: <b>G20455</b> | TestNo: <b>SW8260B(TP)</b> |                    | Analysis Date: <b>7/29/2009</b> | SeqNo: <b>296088</b> |          |           |             |      |          |      |
| Analyte                      | Result                  | PQL                        | SPK value          | SPK Ref Val                     | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                       |       |    |       |   |      |      |     |  |  |  |  |
|-----------------------|-------|----|-------|---|------|------|-----|--|--|--|--|
| TPH (Gasoline)        | 191.7 | 50 | 227   | 0 | 84.4 | 52.4 | 127 |  |  |  |  |
| Surr: 4-Bromofluorene | 8.200 | 0  | 11.36 | 0 | 72.2 | 53   | 118 |  |  |  |  |

|                               |                         |                            |                    |                                 |                      |          |           |             |      |          |      |
|-------------------------------|-------------------------|----------------------------|--------------------|---------------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID <b>LCSDG-G20455</b> | SampType: <b>LCSD</b>   | TestCode: <b>TPH_GAS_W</b> | Units: <b>µg/L</b> | Prep Date: <b>7/29/2009</b>     | RunNo: <b>20455</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>       | Batch ID: <b>G20455</b> | TestNo: <b>SW8260B(TP)</b> |                    | Analysis Date: <b>7/29/2009</b> | SeqNo: <b>296089</b> |          |           |             |      |          |      |
| Analyte                       | Result                  | PQL                        | SPK value          | SPK Ref Val                     | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                       |       |    |       |   |      |      |     |       |      |    |  |
|-----------------------|-------|----|-------|---|------|------|-----|-------|------|----|--|
| TPH (Gasoline)        | 187.6 | 50 | 227   | 0 | 82.6 | 52.4 | 127 | 191.7 | 2.16 | 20 |  |
| Surr: 4-Bromofluorene | 8.800 | 0  | 11.36 | 0 | 77.5 | 53   | 118 | 0     | 0    | 0  |  |

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

**CLIENT:** Impact Environmental Services  
**Work Order:** 0907184  
**Project:** 1409 12th St Oakland

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R20441**

| Sample ID <b>MB-R20441</b>     | SampType: <b>MBLK</b>   | TestCode: <b>8260B_W_PE</b> | Units: <b>µg/L</b>              | Prep Date: <b>7/28/2009</b> | RunNo: <b>20441</b> |          |           |             |      |          |      |
|--------------------------------|-------------------------|-----------------------------|---------------------------------|-----------------------------|---------------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>ZZZZZ</b>        | Batch ID: <b>R20441</b> | TestNo: <b>SW8260B</b>      | Analysis Date: <b>7/28/2009</b> | SeqNo: <b>295916</b>        |                     |          |           |             |      |          |      |
| Analyte                        | Result                  | PQL                         | SPK value                       | SPK Ref Val                 | %REC                | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene                        | ND                      | 0.50                        |                                 |                             |                     |          |           |             |      |          |      |
| Toluene                        | ND                      | 0.50                        |                                 |                             |                     |          |           |             |      |          |      |
| Ethylbenzene                   | ND                      | 0.50                        |                                 |                             |                     |          |           |             |      |          |      |
| Methyl tert-butyl ether (MTBE) | ND                      | 0.50                        |                                 |                             |                     |          |           |             |      |          |      |
| Diisopropyl ether (DIPE)       | ND                      | 0.50                        |                                 |                             |                     |          |           |             |      |          |      |
| Ethyl tert-butyl ether (ETBE)  | ND                      | 0.50                        |                                 |                             |                     |          |           |             |      |          |      |
| tert-Amyl methyl ether (TAME)  | ND                      | 0.50                        |                                 |                             |                     |          |           |             |      |          |      |
| t-Butyl alcohol (t-Butanol)    | ND                      | 10                          |                                 |                             |                     |          |           |             |      |          |      |
| Xylenes, Total                 | ND                      | 1.5                         |                                 |                             |                     |          |           |             |      |          |      |
| Surr: Dibromofluoromethane     | 11.62                   | 0                           | 11.36                           | 0                           | 102                 | 61.2     | 131       |             |      |          |      |
| Surr: 4-Bromofluorobenzene     | 11.52                   | 0                           | 11.36                           | 0                           | 101                 | 64.1     | 120       |             |      |          |      |
| Surr: Toluene-d8               | 11.96                   | 0                           | 11.36                           | 0                           | 105                 | 75.1     | 127       |             |      |          |      |

| Sample ID <b>LCS-R20441</b> | SampType: <b>LCS</b>    | TestCode: <b>8260B_W_PE</b> | Units: <b>µg/L</b>              | Prep Date: <b>7/28/2009</b> | RunNo: <b>20441</b> |          |           |             |      |          |      |
|-----------------------------|-------------------------|-----------------------------|---------------------------------|-----------------------------|---------------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>ZZZZZ</b>     | Batch ID: <b>R20441</b> | TestNo: <b>SW8260B</b>      | Analysis Date: <b>7/28/2009</b> | SeqNo: <b>295917</b>        |                     |          |           |             |      |          |      |
| Analyte                     | Result                  | PQL                         | SPK value                       | SPK Ref Val                 | %REC                | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene                     | 16.28                   | 0.50                        | 17.04                           | 0                           | 95.5                | 66.9     | 140       |             |      |          |      |
| Toluene                     | 17.79                   | 0.50                        | 17.04                           | 0                           | 104                 | 76.6     | 123       |             |      |          |      |
| Surr: Dibromofluoromethane  | 11.25                   | 0                           | 11.36                           | 0                           | 99.0                | 61.2     | 131       |             |      |          |      |
| Surr: 4-Bromofluorobenzene  | 11.57                   | 0                           | 11.36                           | 0                           | 102                 | 64.1     | 120       |             |      |          |      |
| Surr: Toluene-d8            | 13.35                   | 0                           | 11.36                           | 0                           | 118                 | 75.1     | 127       |             |      |          |      |

| Sample ID <b>LCSD-R20441</b> | SampType: <b>LCSD</b>   | TestCode: <b>8260B_W_PE</b> | Units: <b>µg/L</b>              | Prep Date: <b>7/28/2009</b> | RunNo: <b>20441</b> |          |           |             |      |          |      |
|------------------------------|-------------------------|-----------------------------|---------------------------------|-----------------------------|---------------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>ZZZZZ</b>      | Batch ID: <b>R20441</b> | TestNo: <b>SW8260B</b>      | Analysis Date: <b>7/28/2009</b> | SeqNo: <b>295918</b>        |                     |          |           |             |      |          |      |
| Analyte                      | Result                  | PQL                         | SPK value                       | SPK Ref Val                 | %REC                | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene                      | 17.04                   | 0.50                        | 17.04                           | 0                           | 100                 | 66.9     | 140       | 16.28       | 4.56 | 20       |      |
| Toluene                      | 18.15                   | 0.50                        | 17.04                           | 0                           | 107                 | 76.6     | 123       | 17.79       | 2.00 | 20       |      |
| Surr: Dibromofluoromethane   | 11.48                   | 0                           | 11.36                           | 0                           | 101                 | 61.2     | 131       | 0           | 0    | 0        |      |
| Surr: 4-Bromofluorobenzene   | 11.45                   | 0                           | 11.36                           | 0                           | 101                 | 64.1     | 120       | 0           | 0    | 0        |      |

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

**CLIENT:** Impact Environmental Services  
**Work Order:** 0907184  
**Project:** 1409 12th St Oakland

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R20441**

|                  |             |           |        |           |            |             |      |                |           |             |        |          |      |
|------------------|-------------|-----------|--------|-----------|------------|-------------|------|----------------|-----------|-------------|--------|----------|------|
| Sample ID        | LCSD-R20441 | SampType: | LCSD   | TestCode: | 8260B_W_PE | Units:      | µg/L | Prep Date:     | 7/28/2009 | RunNo:      | 20441  |          |      |
| Client ID:       | ZZZZZ       | Batch ID: | R20441 | TestNo:   | SW8260B    |             |      | Analysis Date: | 7/28/2009 | SeqNo:      | 295918 |          |      |
| Analyte          |             | Result    |        | PQL       | SPK value  | SPK Ref Val | %REC | LowLimit       | HighLimit | RPD Ref Val | %RPD   | RPDLimit | Qual |
| Surr: Toluene-d8 |             | 12.77     |        | 0         | 11.36      | 0           | 112  | 75.1           | 127       | 0           | 0      | 0        |      |

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



**CLIENT:** Impact Environmental Services  
**Work Order:** 0907184  
**Project:** 1409 12th St Oakland

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R20455**

| Sample ID <b>MB-R20455</b>     |        | SampType: <b>MBLK</b>   |           | TestCode: <b>8260B_W_PE</b> Units: <b>µg/L</b> |      | Prep Date: <b>7/29/2009</b>     |           | RunNo: <b>20455</b>  |      |          |      |
|--------------------------------|--------|-------------------------|-----------|--|------|---------------------------------|-----------|----------------------|------|----------|------|
| Client ID: <b>ZZZZZ</b>        |        | Batch ID: <b>R20455</b> |           | TestNo: <b>SW8260B</b>                         |      | Analysis Date: <b>7/29/2009</b> |           | SeqNo: <b>296068</b> |      |          |      |
| Analyte                        | Result | PQL                     | SPK value | SPK Ref Val                                    | %REC | LowLimit                        | HighLimit | RPD Ref Val          | %RPD | RPDLimit | Qual |
| Benzene                        | ND     | 0.50                    |           |  |      |                                 |           |                      |      |          |      |
| Toluene                        | ND     | 0.50                    |           |  |      |                                 |           |                      |      |          |      |
| Ethylbenzene                   | ND     | 0.50                    |           |  |      |                                 |           |                      |      |          |      |
| Methyl tert-butyl ether (MTBE) | ND     | 0.50                    |           |  |      |                                 |           |                      |      |          |      |
| Diisopropyl ether (DIPE)       | ND     | 0.50                    |           |  |      |                                 |           |                      |      |          |      |
| Ethyl tert-butyl ether (ETBE)  | ND     | 0.50                    |           |  |      |                                 |           |                      |      |          |      |
| tert-Amyl methyl ether (TAME)  | ND     | 0.50                    |           |  |      |                                 |           |                      |      |          |      |
| t-Butyl alcohol (t-Butanol)    | ND     | 10                      |           |  |      |                                 |           |                      |      |          |      |
| Xylenes, Total                 | ND     | 1.5                     |           |  |      |                                 |           |                      |      |          |      |
| Surr: Dibromofluoromethane     | 10.06  | 0                       | 11.36     | 0  | 88.6 | 61.2                            | 131       |                      |      |          |      |
| Surr: 4-Bromofluorobenzene     | 12.09  | 0                       | 11.36     | 0  | 106  | 64.1                            | 120       |                      |      |          |      |
| Surr: Toluene-d8               | 12.48  | 0                       | 11.36     | 0  | 110  | 75.1                            | 127       |                      |      |          |      |

| Sample ID <b>LCS-R20455</b> |        | SampType: <b>LCS</b>    |           | TestCode: <b>8260B_W_PE</b> Units: <b>µg/L</b> |      | Prep Date: <b>7/29/2009</b>     |           | RunNo: <b>20455</b>  |      |          |      |
|-----------------------------|--------|-------------------------|-----------|--|------|---------------------------------|-----------|----------------------|------|----------|------|
| Client ID: <b>ZZZZZ</b>     |        | Batch ID: <b>R20455</b> |           | TestNo: <b>SW8260B</b>                         |      | Analysis Date: <b>7/29/2009</b> |           | SeqNo: <b>296069</b> |      |          |      |
| Analyte                     | Result | PQL                     | SPK value | SPK Ref Val                                    | %REC | LowLimit                        | HighLimit | RPD Ref Val          | %RPD | RPDLimit | Qual |
| Benzene                     | 15.69  | 0.50                    | 17.04     | 0  | 92.1 | 66.9                            | 140       |                      |      |          |      |
| Toluene                     | 17.78  | 0.50                    | 17.04     | 0  | 104  | 76.6                            | 123       |                      |      |          |      |
| Surr: Dibromofluoromethane  | 10.21  | 0                       | 11.36     | 0  | 89.9 | 61.2                            | 131       |                      |      |          |      |
| Surr: 4-Bromofluorobenzene  | 13.54  | 0                       | 11.36     | 0  | 119  | 64.1                            | 120       |                      |      |          |      |
| Surr: Toluene-d8            | 13.30  | 0                       | 11.36     | 0  | 117  | 75.1                            | 127       |                      |      |          |      |

| Sample ID <b>LCSD-R20455</b> |        | SampType: <b>LCSD</b>   |           | TestCode: <b>8260B_W_PE</b> Units: <b>µg/L</b> |      | Prep Date: <b>7/29/2009</b>     |           | RunNo: <b>20455</b>  |      |          |      |
|------------------------------|--------|-------------------------|-----------|--|------|---------------------------------|-----------|----------------------|------|----------|------|
| Client ID: <b>ZZZZZ</b>      |        | Batch ID: <b>R20455</b> |           | TestNo: <b>SW8260B</b>                         |      | Analysis Date: <b>7/29/2009</b> |           | SeqNo: <b>296070</b> |      |          |      |
| Analyte                      | Result | PQL                     | SPK value | SPK Ref Val                                    | %REC | LowLimit                        | HighLimit | RPD Ref Val          | %RPD | RPDLimit | Qual |
| Benzene                      | 15.11  | 0.50                    | 17.04     | 0  | 88.7 | 66.9                            | 140       | 15.69                | 3.77 | 20       |      |
| Toluene                      | 19.43  | 0.50                    | 17.04     | 0  | 114  | 76.6                            | 123       | 17.78                | 8.87 | 20       |      |
| Surr: Dibromofluoromethane   | 9.310  | 0                       | 11.36     | 0  | 82.0 | 61.2                            | 131       | 0                    | 0    | 0        |      |
| Surr: 4-Bromofluorobenzene   | 13.24  | 0                       | 11.36     | 0  | 117  | 64.1                            | 120       | 0                    | 0    | 0        |      |

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

**CLIENT:** Impact Environmental Services  
**Work Order:** 0907184  
**Project:** 1409 12th St Oakland

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R20455**

|                  |             |           |        |           |            |             |      |                |           |             |        |          |      |
|------------------|-------------|-----------|--------|-----------|------------|-------------|------|----------------|-----------|-------------|--------|----------|------|
| Sample ID        | LCSD-R20455 | SampType: | LCSD   | TestCode: | 8260B_W_PE | Units:      | µg/L | Prep Date:     | 7/29/2009 | RunNo:      | 20455  |          |      |
| Client ID:       | ZZZZZ       | Batch ID: | R20455 | TestNo:   | SW8260B    |             |      | Analysis Date: | 7/29/2009 | SeqNo:      | 296070 |          |      |
| Analyte          |             | Result    |        | PQL       | SPK value  | SPK Ref Val | %REC | LowLimit       | HighLimit | RPD Ref Val | %RPD   | RPDLimit | Qual |
| Surr: Toluene-d8 |             | 13.61     |        | 0         | 11.36      | 0           | 120  | 75.1           | 127       | 0           | 0      | 0        |      |

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

**CLIENT:** Impact Environmental Services  
**Work Order:** 0907184  
**Project:** 1409 12th St Oakland

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R20492**

|                                 |                         |                           |                    |                                 |                      |          |           |             |      |          |      |
|---------------------------------|-------------------------|---------------------------|--------------------|---------------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID <b>WDSG090730A-MB</b> | SampType: <b>MBLK</b>   | TestCode: <b>TPHDOSG_</b> | Units: <b>mg/L</b> | Prep Date: <b>7/30/2009</b>     | RunNo: <b>20492</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>         | Batch ID: <b>R20492</b> | TestNo: <b>SW8015B</b>    |                    | Analysis Date: <b>7/31/2009</b> | SeqNo: <b>296613</b> |          |           |             |      |          |      |
| Analyte                         | Result                  | PQL                       | SPK value          | SPK Ref Val                     | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| TPH (Diesel-SG)                 | ND                      | 0.10                      |                    |                                 |                      |          |           |             |      |          |      |
| TPH (Motor Oil-SG)              | ND                      | 0.20                      |                    |                                 |                      |          |           |             |      |          |      |
| Surr: Pentacosane               | 0.1040                  | 0                         | 0.1                | 0                               | 104                  | 64.2     | 123       |             |      |          |      |

|                                  |                         |                           |                    |                                 |                      |          |           |             |      |          |      |
|----------------------------------|-------------------------|---------------------------|--------------------|---------------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID <b>WDSG090730A-LCS</b> | SampType: <b>LCS</b>    | TestCode: <b>TPHDOSG_</b> | Units: <b>mg/L</b> | Prep Date: <b>7/30/2009</b>     | RunNo: <b>20492</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>          | Batch ID: <b>R20492</b> | TestNo: <b>SW8015B</b>    |                    | Analysis Date: <b>7/31/2009</b> | SeqNo: <b>296614</b> |          |           |             |      |          |      |
| Analyte                          | Result                  | PQL                       | SPK value          | SPK Ref Val                     | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| TPH (Diesel-SG)                  | 0.5840                  | 0.10                      | 1                  | 0                               | 58.4                 | 34.5     | 95.6      |             |      |          |      |
| Surr: Pentacosane                | 0.09700                 | 0                         | 0.1                | 0                               | 97.0                 | 64.2     | 123       |             |      |          |      |

|                                  |                         |                           |                    |                                 |                      |          |           |             |      |          |      |
|----------------------------------|-------------------------|---------------------------|--------------------|---------------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID <b>WDSG090730A-LCS</b> | SampType: <b>LCSD</b>   | TestCode: <b>TPHDOSG_</b> | Units: <b>mg/L</b> | Prep Date: <b>7/30/2009</b>     | RunNo: <b>20492</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>          | Batch ID: <b>R20492</b> | TestNo: <b>SW8015B</b>    |                    | Analysis Date: <b>7/31/2009</b> | SeqNo: <b>296615</b> |          |           |             |      |          |      |
| Analyte                          | Result                  | PQL                       | SPK value          | SPK Ref Val                     | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| TPH (Diesel-SG)                  | 0.4620                  | 0.10                      | 1                  | 0                               | 46.2                 | 34.5     | 95.6      | 0.584       | 23.3 | 30       |      |
| Surr: Pentacosane                | 0.1010                  | 0                         | 0.1                | 0                               | 101                  | 64.2     | 123       | 0           | 0    | 0        |      |

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





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

# CHAIN OF CUSTODY

LAB WORK ORDER NO

0907184

NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY.

Company Name: IMPACT ENVIRONMENTAL Location of Sampling: 1409 12TH ST, GARLAND, CA  
 Address: 39120 ARGONAUT WAY #223 Purpose: QUARTERLY GW MONITORING  
 City: Fremont State: CA Zip Code: 94538 Special Instructions / Comments: Email results to jac21462@aol.com  
 Telephone: (510) 7035420 FAX: (510) 791-0271  
 REPORT TO: Joseph Cotten SAMPLER: Joseph Cotten P.O. #: \_\_\_\_\_ EMAIL: jac21462@aol.com

TURNAROUND TIME:  
 10 Work Days  3 Work Days  Noon - Nxt Day  
 7 Work Days  2 Work Days  2 - 8 Hours  
 5 Work Days  1 Work Day  Other

SAMPLE TYPE:  
 Storm Water  Air  
 Waste Water  Other  
 Ground Water  
 Soil

REPORT FORMAT:  
 QC Level IV  
 EDF  
 Excel / EDD

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

ANALYSIS REQUESTED

| LAB ID | CLIENT'S SAMPLE I.D. | DATE / TIME SAMPLED | MATRIX | # OF CONT | CONT TYPE            | EPA 8260B - Full List | EPA 8260B - 8010 List | THP gas | BTEX | Oxygenates | MTBE | THP Diesel | Si-Gel | Motor Oil | Pesticide - 8081 | PCB - 8082 | Metals | CAM - 17 | LUFT 5 | 7 Metals | 8270 Full List | PAHs Only | REMARKS |          |
|--------|----------------------|---------------------|--------|-----------|----------------------|-----------------------|-----------------------|---------|------|------------|------|------------|--------|-----------|------------------|------------|--------|----------|--------|----------|----------------|-----------|---------|----------|
| 001A   | MW-1                 | 7-26-9<br>11:35 A   | W      | 5         | VOCs<br>SIL<br>AMBER |                       |                       | X       | X    | X          | X    | X          | X      |           |                  |            |        |          |        |          |                |           |         |          |
| 002A   | MW-2                 | 7-26-9<br>11:38 A   | ?      | ?         |                      |                       |                       | X       | X    | X          | X    | X          | X      |           |                  |            |        |          |        |          |                |           |         |          |
| 003A   | MW-3                 | 7-26-9<br>12:50 P   | ?      | ?         |                      |                       |                       | X       | X    | X          | X    | X          | X      |           |                  |            |        |          |        |          |                |           |         |          |
| 004A   | MW-4                 | 7-26-9<br>11:09 A   | ?      | ?         |                      |                       |                       | X       | X    | X          | X    | X          | X      |           |                  |            |        |          |        |          |                |           |         |          |
| 005A   | MW-5                 | 7-26-9<br>12:50 P   | ?      | ?         |                      |                       |                       | X       | X    | X          | X    | X          | X      |           |                  |            |        |          |        |          |                |           |         |          |
| 006A   | MW-6                 | 7-26-9<br>11:54 A   | ?      | ?         |                      |                       |                       | X       | X    | X          | X    | X          | X      |           |                  |            |        |          |        |          |                |           |         |          |
| 007A   | MW-7                 | 7-26-9<br>11:25 A   | ?      | ?         |                      |                       |                       | X       | X    | X          | X    | X          | X      |           |                  |            |        |          |        |          |                |           |         | Temp 4°C |
| 008A   | MW-8                 | 7-26-9<br>12:57 P   | ?      | ?         |                      |                       |                       | X       | X    | X          | X    | X          | X      |           |                  |            |        |          |        |          |                |           |         |          |
| 009A   | GW-1                 | 7-26-9<br>11:55 P   | ?      | ?         |                      |                       |                       | X       | X    | X          | X    | X          | X      |           |                  |            |        |          |        |          |                |           |         |          |
| 010A   | GW-2                 | 7-26-9<br>1:40 P    | ?      | ?         |                      |                       |                       | X       | X    | X          | X    | X          | X      |           |                  |            |        |          |        |          |                |           |         |          |

1 Relinquished By: Joseph Cotten Print: JOSEPH COTTEN Date: 7-27-09 3:15 Time: \_\_\_\_\_  
 Received By: D. G. Chodasara Print: NAVIN G Date: 7-27-09 Time: 1515

2 Relinquished By: \_\_\_\_\_ Print: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Print: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Were Samples Received in Good Condition?  Yes  NO Samples on Ice?  Yes  NO Method of Shipment d/a Sample seals intact?  Yes  NO  N/A  
 Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made. Page 1 of 2  
 Date: \_\_\_\_\_ Log In Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

TORRENT LAB



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 Milpitas, CA 95035  
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 FAX: 408.263.8293  
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# CHAIN OF CUSTODY

LAB WORK ORDER NO

0907184

NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY.

|   |                  |  |                                  |
|---|------------------|--|----------------------------------|
| Company Name: <b>IMPACT ENVIRONMENTAL</b> |                  | Location of Sampling: <b>1409 12th St, OAKLAND, CA</b> |                                  |
| Address: <b>39120 ORSONAUT WAY #223</b>   |                  | Purpose: <b>QUARTERLY GW MONITORING</b>                |                                  |
| City: <b>FREMONT</b>                      | State: <b>CA</b> | Zip Code: <b>94538</b>                                 | Special Instructions / Comments: |
| Telephone: <b>FAX (510) 791-0271</b>      |                  |  |                                  |
| REPORT TO:                                | SAMPLER:         | P.O. #:  | EMAIL:                           |

TURNAROUND TIME:

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

SAMPLE TYPE:

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

REPORT FORMAT:

- QC Level IV
- EDF
- Excel / EDD

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

ANALYSIS REQUESTED

| LAB ID | CLIENT'S SAMPLE I.D. | DATE / TIME SAMPLED | MATRIX | # OF CONT | CONT TYPE            | EPA 8260B - Full List    | EPA 8260B - 8010 List    | THP gas                             | Oxygenates                          | THP Diesel                          | Motor Oil                           | Pesticide - 8081         | PCB - 8082               | Metals CAM - 17          | LUFT 5                   | 7 Metals                 | 8270 Full List           | PAHs Only                | REMARKS |           |
|--------|----------------------|---------------------|--------|-----------|----------------------|--------------------------|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------|-----------|
| 011A   | GW-3                 | 7-26-09<br>11:35P   | W      | 5         | VOLAS<br>+L<br>AMBER | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |         |           |
|        |                      |                     |        |           |                      |                          |                          |                                     |                                     |                                     |                                     |                          |                          |                          |                          |                          |                          |                          |         |           |
|        |                      |                     |        |           |                      |                          |                          |                                     |                                     |                                     |                                     |                          |                          |                          |                          |                          |                          |                          |         |           |
|        |                      |                     |        |           |                      |                          |                          |                                     |                                     |                                     |                                     |                          |                          |                          |                          |                          |                          |                          |         |           |
|        |                      |                     |        |           |                      |                          |                          |                                     |                                     |                                     |                                     |                          |                          |                          |                          |                          |                          |                          |         |           |
|        |                      |                     |        |           |                      |                          |                          |                                     |                                     |                                     |                                     |                          |                          |                          |                          |                          |                          |                          |         |           |
|        |                      |                     |        |           |                      |                          |                          |                                     |                                     |                                     |                                     |                          |                          |                          |                          |                          |                          |                          |         |           |
|        |                      |                     |        |           |                      |                          |                          |                                     |                                     |                                     |                                     |                          |                          |                          |                          |                          |                          |                          |         | Temp. 4°C |

|                                     |                            |                   |       |                                 |                      |                      |                   |
|-------------------------------------|----------------------------|-------------------|-------|---------------------------------|----------------------|----------------------|-------------------|
| Relinquished By: <i>[Signature]</i> | Print: <b>JOSEPH COTON</b> | Date: <b>8.15</b> | Time: | Received By: <i>[Signature]</i> | Print: <b>NAVING</b> | Date: <b>7-27-09</b> | Time: <b>1515</b> |
| 2 Relinquished By:                  | Print:                     | Date:             | Time: | Received By:                    | Print:               | Date:                | Time:             |

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

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made. Page **2** of **2**

Log In By: \_\_\_\_\_ Date: \_\_\_\_\_ Log In Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

TORRENT LAB



November 16, 2009

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

TEL: 510-703-5420

FAX 510-713-7790

RE: BTS/091106-RM

Order No.: 0911040

Dear Mr. Joseph Cotton:

Torrent Laboratory, Inc. received 8 samples on 11/6/2009 for the analyses presented in the following report.

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

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

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

Sincerely,

  
Laboratory Director

11/16/09  
Date

Patti Sandrock  
QA Officer 





# TORRENT LABORATORY, INC.

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

Visit us at [www.torrentlab.com](http://www.torrentlab.com) email: [analysis@torrentlab.com](mailto:analysis@torrentlab.com)

**Report prepared for:** Mr. Joseph Cotton  
Impact Environmental Services

**Date Received:** 11/6/2009  
**Date Reported:** 11/16/2009

**Client Sample ID:** MW-1  
**Sample Location:** 1409-1417 12th St. Oakland, CA  
**Sample Matrix:** WATER  
**Date/Time Sampled** 11/6/2009 9:25:00 AM

**Lab Sample ID:** 0911040-001  
**Date Prepared:** 11/10/2009

| Parameters                     | Analysis Method | Date Analyzed | RL  | Dilution Factor | MRL      | Result | Units | Analytical Batch |
|--------------------------------|-----------------|---------------|-----|-----------------|----------|--------|-------|------------------|
| TPH (Diesel)                   | SW8015B         | 11/13/2009    | 0.1 | 1               | 0.10     | ND     | mg/L  | R21727           |
| TPH (Motor Oil)                | SW8015B         | 11/13/2009    | 0.2 | 1               | 0.20     | ND     | mg/L  | R21727           |
| Surr: Pentacosane              | SW8015B         | 11/13/2009    | 0   | 1               | 57.9-125 | 99.0   | %REC  | R21727           |
|                                |                 |               |     |                 |          |        |       |                  |
| Benzene                        | SW8260B         | 11/10/2009    | 0.5 | 1.1             | 0.55     | ND     | µg/L  | R21712           |
| Toluene                        | SW8260B         | 11/10/2009    | 0.5 | 1.1             | 0.55     | ND     | µg/L  | R21712           |
| Ethylbenzene                   | SW8260B         | 11/10/2009    | 0.5 | 1.1             | 0.55     | ND     | µg/L  | R21712           |
| Methyl tert-butyl ether (MTBE) | SW8260B         | 11/10/2009    | 0.5 | 1.1             | 0.55     | ND     | µg/L  | R21712           |
| Diisopropyl ether (DIPE)       | SW8260B         | 11/10/2009    | 0.5 | 1.1             | 0.55     | ND     | µg/L  | R21712           |
| Ethyl tert-butyl ether (ETBE)  | SW8260B         | 11/10/2009    | 0.5 | 1.1             | 0.55     | ND     | µg/L  | R21712           |
| tert-Amyl methyl ether (TAME)  | SW8260B         | 11/10/2009    | 0.5 | 1.1             | 0.55     | ND     | µg/L  | R21712           |
| t-Butyl alcohol (t-Butanol)    | SW8260B         | 11/10/2009    | 5   | 1.1             | 5.5      | ND     | µg/L  | R21712           |
| Xylenes, Total                 | SW8260B         | 11/10/2009    | 1.5 | 1.1             | 1.6      | ND     | µg/L  | R21712           |
| Surr: Dibromofluoromethane     | SW8260B         | 11/10/2009    | 0   | 1.1             | 61.2-131 | 74.1   | %REC  | R21712           |
| Surr: 4-Bromofluorobenzene     | SW8260B         | 11/10/2009    | 0   | 1.1             | 64.1-120 | 90.7   | %REC  | R21712           |
| Surr: Toluene-d8               | SW8260B         | 11/10/2009    | 0   | 1.1             | 75.1-127 | 107    | %REC  | R21712           |
|                                |                 |               |     |                 |          |        |       |                  |
| TPH (Gasoline)                 | SW8260B(TPH)    | 11/10/2009    | 50  | 1.1             | 55       | ND     | µg/L  | G21712           |
| Surr: 4-Bromofluorobenzene     | SW8260B(TPH)    | 11/10/2009    | 0   | 1.1             | 53-118   | 52.6   | %REC  | G21712           |

**Client Sample ID:** MW-2  
**Sample Location:** 1409-1417 12th St. Oakland,CA  
**Sample Matrix:** WATER  
**Date/Time Sampled** 11/6/2009 9:45:00 AM

**Lab Sample ID:** 0911040-002  
**Date Prepared:** 11/10/2009

| Parameters                     | Analysis Method | Date Analyzed | RL  | Dilution Factor | MRL      | Result | Units | Analytical Batch |
|--------------------------------|-----------------|---------------|-----|-----------------|----------|--------|-------|------------------|
| TPH (Diesel)                   | SW8015B         | 11/13/2009    | 0.1 | 1               | 0.10     | ND     | mg/L  | R21727           |
| TPH (Motor Oil)                | SW8015B         | 11/13/2009    | 0.2 | 1               | 0.20     | ND     | mg/L  | R21727           |
| Surr: Pentacosane              | SW8015B         | 11/13/2009    | 0   | 1               | 57.9-125 | 90.0   | %REC  | R21727           |
| Benzene                        | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| Toluene                        | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| Ethylbenzene                   | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| Methyl tert-butyl ether (MTBE) | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| Diisopropyl ether (DIPE)       | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| Ethyl tert-butyl ether (ETBE)  | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| tert-Amyl methyl ether (TAME)  | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| t-Butyl alcohol (t-Butanol)    | SW8260B         | 11/10/2009    | 5   | 1               | 5.0      | ND     | µg/L  | R21712           |
| Xylenes, Total                 | SW8260B         | 11/10/2009    | 1.5 | 1               | 1.5      | ND     | µg/L  | R21712           |
| Surr: Dibromofluoromethane     | SW8260B         | 11/10/2009    | 0   | 1               | 61.2-131 | 90.2   | %REC  | R21712           |
| Surr: 4-Bromofluorobenzene     | SW8260B         | 11/10/2009    | 0   | 1               | 64.1-120 | 103    | %REC  | R21712           |
| Surr: Toluene-d8               | SW8260B         | 11/10/2009    | 0   | 1               | 75.1-127 | 104    | %REC  | R21712           |
| TPH (Gasoline)                 | SW8260B(TPH)    | 11/10/2009    | 50  | 1               | 50       | ND     | µg/L  | G21712           |
| Surr: 4-Bromofluorobenzene     | SW8260B(TPH)    | 11/10/2009    | 0   | 1               | 53-118   | 73.3   | %REC  | G21712           |

**Client Sample ID:** MW-3  
**Sample Location:** 1409-1417 12th St. Oakland,CA  
**Sample Matrix:** WATER  
**Date/Time Sampled** 11/6/2009 10:15:00 AM

**Lab Sample ID:** 0911040-003  
**Date Prepared:** 11/10/2009

| Parameters                     | Analysis Method | Date Analyzed | RL  | Dilution Factor | MRL      | Result | Units | Analytical Batch |
|--------------------------------|-----------------|---------------|-----|-----------------|----------|--------|-------|------------------|
| TPH (Diesel)                   | SW8015B         | 11/13/2009    | 0.1 | 1               | 0.10     | ND     | mg/L  | R21727           |
| TPH (Motor Oil)                | SW8015B         | 11/13/2009    | 0.2 | 1               | 0.20     | ND     | mg/L  | R21727           |
| Surr: Pentacosane              | SW8015B         | 11/13/2009    | 0   | 1               | 57.9-125 | 109    | %REC  | R21727           |
| Benzene                        | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| Toluene                        | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| Ethylbenzene                   | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| Methyl tert-butyl ether (MTBE) | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| Diisopropyl ether (DIPE)       | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| Ethyl tert-butyl ether (ETBE)  | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| tert-Amyl methyl ether (TAME)  | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| t-Butyl alcohol (t-Butanol)    | SW8260B         | 11/10/2009    | 5   | 1               | 5.0      | ND     | µg/L  | R21712           |
| Xylenes, Total                 | SW8260B         | 11/10/2009    | 1.5 | 1               | 1.5      | ND     | µg/L  | R21712           |
| Surr: Dibromofluoromethane     | SW8260B         | 11/10/2009    | 0   | 1               | 61.2-131 | 82.9   | %REC  | R21712           |
| Surr: 4-Bromofluorobenzene     | SW8260B         | 11/10/2009    | 0   | 1               | 64.1-120 | 95.6   | %REC  | R21712           |
| Surr: Toluene-d8               | SW8260B         | 11/10/2009    | 0   | 1               | 75.1-127 | 105    | %REC  | R21712           |
| TPH (Gasoline)                 | SW8260B(TPH)    | 11/10/2009    | 50  | 1               | 50       | ND     | µg/L  | G21712           |
| Surr: 4-Bromofluorobenzene     | SW8260B(TPH)    | 11/10/2009    | 0   | 1               | 53-118   | 59.5   | %REC  | G21712           |



**Client Sample ID:** MW-4  
**Sample Location:** 1409-1417 12th St. Oakland,CA  
**Sample Matrix:** WATER  
**Date/Time Sampled** 11/6/2009 10:55:00 AM

**Lab Sample ID:** 0911040-004  
**Date Prepared:** 11/10/2009

| Parameters                     | Analysis Method | Date Analyzed | RL  | Dilution Factor | MRL      | Result | Units | Analytical Batch |
|--------------------------------|-----------------|---------------|-----|-----------------|----------|--------|-------|------------------|
| TPH (Diesel)                   | SW8015B         | 11/13/2009    | 0.1 | 1               | 0.10     | ND     | mg/L  | R21727           |
| TPH (Motor Oil)                | SW8015B         | 11/13/2009    | 0.2 | 1               | 0.20     | ND     | mg/L  | R21727           |
| Surr: Pentacosane              | SW8015B         | 11/13/2009    | 0   | 1               | 57.9-125 | 99.0   | %REC  | R21727           |
| Benzene                        | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| Toluene                        | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| Ethylbenzene                   | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| Methyl tert-butyl ether (MTBE) | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| Diisopropyl ether (DIPE)       | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| Ethyl tert-butyl ether (ETBE)  | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| tert-Amyl methyl ether (TAME)  | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| t-Butyl alcohol (t-Butanol)    | SW8260B         | 11/10/2009    | 5   | 1               | 5.0      | ND     | µg/L  | R21712           |
| Xylenes, Total                 | SW8260B         | 11/10/2009    | 1.5 | 1               | 1.5      | ND     | µg/L  | R21712           |
| Surr: Dibromofluoromethane     | SW8260B         | 11/10/2009    | 0   | 1               | 61.2-131 | 89.8   | %REC  | R21712           |
| Surr: 4-Bromofluorobenzene     | SW8260B         | 11/10/2009    | 0   | 1               | 64.1-120 | 99.5   | %REC  | R21712           |
| Surr: Toluene-d8               | SW8260B         | 11/10/2009    | 0   | 1               | 75.1-127 | 116    | %REC  | R21712           |
| TPH (Gasoline)                 | SW8260B(TPH)    | 11/10/2009    | 50  | 1               | 50       | ND     | µg/L  | G21712           |
| Surr: 4-Bromofluorobenzene     | SW8260B(TPH)    | 11/10/2009    | 0   | 1               | 53-118   | 52.6   | %REC  | G21712           |

**Client Sample ID:** MW-5  
**Sample Location:** 1409-1417 12th St. Oakland,CA  
**Sample Matrix:** WATER  
**Date/Time Sampled** 11/6/2009 10:35:00 AM

**Lab Sample ID:** 0911040-005  
**Date Prepared:** 11/10/2009

| Parameters                     | Analysis Method | Date Analyzed | RL  | Dilution Factor | MRL      | Result | Units | Analytical Batch |
|--------------------------------|-----------------|---------------|-----|-----------------|----------|--------|-------|------------------|
| TPH (Diesel)                   | SW8015B         | 11/13/2009    | 0.1 | 1               | 0.10     | ND     | mg/L  | R21727           |
| TPH (Motor Oil)                | SW8015B         | 11/13/2009    | 0.2 | 1               | 0.20     | ND     | mg/L  | R21727           |
| Surr: Pentacosane              | SW8015B         | 11/13/2009    | 0   | 1               | 57.9-125 | 101    | %REC  | R21727           |
| Benzene                        | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| Toluene                        | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| Ethylbenzene                   | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| Methyl tert-butyl ether (MTBE) | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| Diisopropyl ether (DIPE)       | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| Ethyl tert-butyl ether (ETBE)  | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| tert-Amyl methyl ether (TAME)  | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| t-Butyl alcohol (t-Butanol)    | SW8260B         | 11/10/2009    | 5   | 1               | 5.0      | ND     | µg/L  | R21712           |
| Xylenes, Total                 | SW8260B         | 11/10/2009    | 1.5 | 1               | 1.5      | ND     | µg/L  | R21712           |
| Surr: Dibromofluoromethane     | SW8260B         | 11/10/2009    | 0   | 1               | 61.2-131 | 81.7   | %REC  | R21712           |
| Surr: 4-Bromofluorobenzene     | SW8260B         | 11/10/2009    | 0   | 1               | 64.1-120 | 104    | %REC  | R21712           |
| Surr: Toluene-d8               | SW8260B         | 11/10/2009    | 0   | 1               | 75.1-127 | 109    | %REC  | R21712           |
| TPH (Gasoline)                 | SW8260B(TPH)    | 11/10/2009    | 50  | 1               | 50       | ND     | µg/L  | G21712           |
| Surr: 4-Bromofluorobenzene     | SW8260B(TPH)    | 11/10/2009    | 0   | 1               | 53-118   | 56.0   | %REC  | G21712           |

**Client Sample ID:** MW-6  
**Sample Location:** 1409-1417 12th St. Oakland,CA  
**Sample Matrix:** WATER  
**Date/Time Sampled** 11/6/2009 11:15:00 AM

**Lab Sample ID:** 0911040-006  
**Date Prepared:** 11/10/2009

| Parameters                     | Analysis Method | Date Analyzed | RL  | Dilution Factor | MRL      | Result | Units | Analytical Batch |
|--------------------------------|-----------------|---------------|-----|-----------------|----------|--------|-------|------------------|
| TPH (Diesel)                   | SW8015B         | 11/13/2009    | 0.1 | 1               | 0.10     | ND     | mg/L  | R21727           |
| TPH (Motor Oil)                | SW8015B         | 11/13/2009    | 0.2 | 1               | 0.20     | ND     | mg/L  | R21727           |
| Surr: Pentacosane              | SW8015B         | 11/13/2009    | 0   | 1               | 57.9-125 | 113    | %REC  | R21727           |
| Benzene                        | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| Toluene                        | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| Ethylbenzene                   | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| Methyl tert-butyl ether (MTBE) | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| Diisopropyl ether (DIPE)       | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| Ethyl tert-butyl ether (ETBE)  | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| tert-Amyl methyl ether (TAME)  | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| t-Butyl alcohol (t-Butanol)    | SW8260B         | 11/10/2009    | 5   | 1               | 5.0      | ND     | µg/L  | R21712           |
| Xylenes, Total                 | SW8260B         | 11/10/2009    | 1.5 | 1               | 1.5      | ND     | µg/L  | R21712           |
| Surr: Dibromofluoromethane     | SW8260B         | 11/10/2009    | 0   | 1               | 61.2-131 | 80.9   | %REC  | R21712           |
| Surr: 4-Bromofluorobenzene     | SW8260B         | 11/10/2009    | 0   | 1               | 64.1-120 | 101    | %REC  | R21712           |
| Surr: Toluene-d8               | SW8260B         | 11/10/2009    | 0   | 1               | 75.1-127 | 108    | %REC  | R21712           |
| TPH (Gasoline)                 | SW8260B(TPH)    | 11/10/2009    | 50  | 1               | 50       | ND     | µg/L  | G21712           |
| Surr: 4-Bromofluorobenzene     | SW8260B(TPH)    | 11/10/2009    | 0   | 1               | 53-118   | 56.0   | %REC  | G21712           |

**Client Sample ID:** MW-7  
**Sample Location:** 1409-1417 12th St. Oakland,CA  
**Sample Matrix:** WATER  
**Date/Time Sampled** 11/6/2009 11:40:00 AM

**Lab Sample ID:** 0911040-007  
**Date Prepared:** 11/10/2009

| Parameters                     | Analysis Method | Date Analyzed | RL  | Dilution Factor | MRL      | Result | Units | Analytical Batch |
|--------------------------------|-----------------|---------------|-----|-----------------|----------|--------|-------|------------------|
| TPH (Diesel)                   | SW8015B         | 11/13/2009    | 0.1 | 1               | 0.10     | ND     | mg/L  | R21727           |
| TPH (Motor Oil)                | SW8015B         | 11/13/2009    | 0.2 | 1               | 0.20     | ND     | mg/L  | R21727           |
| Surr: Pentacosane              | SW8015B         | 11/13/2009    | 0   | 1               | 57.9-125 | 99.5   | %REC  | R21727           |
| Benzene                        | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| Toluene                        | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| Ethylbenzene                   | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| Methyl tert-butyl ether (MTBE) | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| Diisopropyl ether (DIPE)       | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| Ethyl tert-butyl ether (ETBE)  | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| tert-Amyl methyl ether (TAME)  | SW8260B         | 11/10/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21712           |
| t-Butyl alcohol (t-Butanol)    | SW8260B         | 11/10/2009    | 5   | 1               | 5.0      | ND     | µg/L  | R21712           |
| Xylenes, Total                 | SW8260B         | 11/10/2009    | 1.5 | 1               | 1.5      | ND     | µg/L  | R21712           |
| Surr: Dibromofluoromethane     | SW8260B         | 11/10/2009    | 0   | 1               | 61.2-131 | 90.3   | %REC  | R21712           |
| Surr: 4-Bromofluorobenzene     | SW8260B         | 11/10/2009    | 0   | 1               | 64.1-120 | 101    | %REC  | R21712           |
| Surr: Toluene-d8               | SW8260B         | 11/10/2009    | 0   | 1               | 75.1-127 | 105    | %REC  | R21712           |
| TPH (Gasoline)                 | SW8260B(TPH)    | 11/10/2009    | 50  | 1               | 50       | ND     | µg/L  | G21712           |
| Surr: 4-Bromofluorobenzene     | SW8260B(TPH)    | 11/10/2009    | 0   | 1               | 53-118   | 65.5   | %REC  | G21712           |



**Client Sample ID:** GW-2  
**Sample Location:** 1409-1417 12th St. Oakland,CA  
**Sample Matrix:** WATER  
**Date/Time Sampled** 11/6/2009 12:05:00 PM

**Lab Sample ID:** 0911040-008  
**Date Prepared:** 11/11/2009

| Parameters                     | Analysis Method | Date Analyzed | RL  | Dilution Factor | MRL      | Result | Units | Analytical Batch |
|--------------------------------|-----------------|---------------|-----|-----------------|----------|--------|-------|------------------|
| TPH (Diesel)                   | SW8015B         | 11/13/2009    | 0.1 | 1               | 0.10     | ND     | mg/L  | R21727           |
| TPH (Motor Oil)                | SW8015B         | 11/13/2009    | 0.2 | 1               | 0.20     | ND     | mg/L  | R21727           |
| Surr: Pentacosane              | SW8015B         | 11/13/2009    | 0   | 1               | 57.9-125 | 93.0   | %REC  | R21727           |
| Benzene                        | SW8260B         | 11/11/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21714           |
| Toluene                        | SW8260B         | 11/11/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21714           |
| Ethylbenzene                   | SW8260B         | 11/11/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21714           |
| Methyl tert-butyl ether (MTBE) | SW8260B         | 11/11/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21714           |
| Diisopropyl ether (DIPE)       | SW8260B         | 11/11/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21714           |
| Ethyl tert-butyl ether (ETBE)  | SW8260B         | 11/11/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21714           |
| tert-Amyl methyl ether (TAME)  | SW8260B         | 11/11/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21714           |
| t-Butyl alcohol (t-Butanol)    | SW8260B         | 11/11/2009    | 5   | 1               | 5.0      | ND     | µg/L  | R21714           |
| Xylenes, Total                 | SW8260B         | 11/11/2009    | 1.5 | 1               | 1.5      | ND     | µg/L  | R21714           |
| Surr: Dibromofluoromethane     | SW8260B         | 11/11/2009    | 0   | 1               | 61.2-131 | 84.9   | %REC  | R21714           |
| Surr: 4-Bromofluorobenzene     | SW8260B         | 11/11/2009    | 0   | 1               | 64.1-120 | 96.0   | %REC  | R21714           |
| Surr: Toluene-d8               | SW8260B         | 11/11/2009    | 0   | 1               | 75.1-127 | 95.3   | %REC  | R21714           |
| TPH (Gasoline)                 | SW8260B(TPH)    | 11/12/2009    | 50  | 1               | 50       | ND     | µg/L  | G21733           |
| Surr: 4-Bromofluorobenzene     | SW8260B(TPH)    | 11/12/2009    | 0   | 1               | 53-118   | 109    | %REC  | G21733           |

**Definitions, legends and Notes**

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

**CLIENT:** Impact Environmental Services  
**Work Order:** 0911040  
**Project:** BTS/091106-RM

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: G21712**

|                             |                         |                            |                                  |                              |                     |          |           |             |      |          |      |
|-----------------------------|-------------------------|----------------------------|----------------------------------|------------------------------|---------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>MB-G21712</b> | SampType: <b>MBLK</b>   | TestCode: <b>TPH_GAS_W</b> | Units: <b>µg/L</b>               | Prep Date: <b>11/10/2009</b> | RunNo: <b>21712</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>     | Batch ID: <b>G21712</b> | TestNo: <b>SW8260B(TP)</b> | Analysis Date: <b>11/10/2009</b> | SeqNo: <b>311673</b>         |                     |          |           |             |      |          |      |
| Analyte                     | Result                  | PQL                        | SPK value                        | SPK Ref Val                  | %REC                | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| TPH (Gasoline)              | ND                      | 50                         |                                  |                              |                     |          |           |             |      |          |      |
| Surr: 4-Bromoflurobenzene   | 7.000                   | 0                          | 11.36                            | 0                            | 61.6                | 53       | 118       |             |      |          |      |

|                              |                         |                            |                                  |                              |                     |          |           |             |      |          |      |
|------------------------------|-------------------------|----------------------------|----------------------------------|------------------------------|---------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCS-G21712</b> | SampType: <b>LCS</b>    | TestCode: <b>TPH_GAS_W</b> | Units: <b>µg/L</b>               | Prep Date: <b>11/10/2009</b> | RunNo: <b>21712</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>      | Batch ID: <b>G21712</b> | TestNo: <b>SW8260B(TP)</b> | Analysis Date: <b>11/10/2009</b> | SeqNo: <b>311674</b>         |                     |          |           |             |      |          |      |
| Analyte                      | Result                  | PQL                        | SPK value                        | SPK Ref Val                  | %REC                | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| TPH (Gasoline)               | 245.0                   | 50                         | 227                              | 0                            | 108                 | 52.4     | 127       |             |      |          |      |
| Surr: 4-Bromoflurobenzene    | 10.90                   | 0                          | 11.36                            | 0                            | 96.0                | 53       | 118       |             |      |          |      |

|                               |                         |                            |                                  |                              |                     |          |           |             |      |          |      |
|-------------------------------|-------------------------|----------------------------|----------------------------------|------------------------------|---------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCSD-G21712</b> | SampType: <b>LCSD</b>   | TestCode: <b>TPH_GAS_W</b> | Units: <b>µg/L</b>               | Prep Date: <b>11/10/2009</b> | RunNo: <b>21712</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>       | Batch ID: <b>G21712</b> | TestNo: <b>SW8260B(TP)</b> | Analysis Date: <b>11/10/2009</b> | SeqNo: <b>311675</b>         |                     |          |           |             |      |          |      |
| 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       | 245         | 7.84 | 20       |      |
| Surr: 4-Bromoflurobenzene     | 10.50                   | 0                          | 11.36                            | 0                            | 92.4                | 53       | 118       | 0           | 0    | 0        |      |

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

**CLIENT:** Impact Environmental Services  
**Work Order:** 0911040  
**Project:** BTS/091106-RM

## ANALYTICAL QC SUMMARY REPORT

**BatchID: G21733**

|                              |                         |                            |                    |                                  |                      |          |           |             |      |          |      |
|------------------------------|-------------------------|----------------------------|--------------------|----------------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>BLK-G21733</b> | SampType: <b>MBLK</b>   | TestCode: <b>TPH_GAS_W</b> | Units: <b>µg/L</b> | Prep Date: <b>11/12/2009</b>     | RunNo: <b>21733</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>      | Batch ID: <b>G21733</b> | TestNo: <b>SW8260B(TP)</b> |                    | Analysis Date: <b>11/12/2009</b> | SeqNo: <b>311956</b> |          |           |             |      |          |      |
| Analyte                      | Result                  | PQL                        | SPK value          | SPK Ref Val                      | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                           |       |    |       |   |     |    |     |  |  |  |  |
|---------------------------|-------|----|-------|---|-----|----|-----|--|--|--|--|
| TPH (Gasoline)            | ND    | 50 |       |   |     |    |     |  |  |  |  |
| Surr: 4-Bromoflurobenzene | 12.10 | 0  | 11.36 | 0 | 107 | 53 | 118 |  |  |  |  |

|                              |                         |                            |                    |                                  |                      |          |           |             |      |          |      |
|------------------------------|-------------------------|----------------------------|--------------------|----------------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCS-G21733</b> | SampType: <b>LCS</b>    | TestCode: <b>TPH_GAS_W</b> | Units: <b>µg/L</b> | Prep Date: <b>11/12/2009</b>     | RunNo: <b>21733</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>      | Batch ID: <b>G21733</b> | TestNo: <b>SW8260B(TP)</b> |                    | Analysis Date: <b>11/12/2009</b> | SeqNo: <b>311971</b> |          |           |             |      |          |      |
| Analyte                      | Result                  | PQL                        | SPK value          | SPK Ref Val                      | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                           |       |    |       |    |     |      |     |  |  |  |  |
|---------------------------|-------|----|-------|----|-----|------|-----|--|--|--|--|
| TPH (Gasoline)            | 264.0 | 50 | 227   | 32 | 102 | 52.4 | 127 |  |  |  |  |
| Surr: 4-Bromoflurobenzene | 11.50 | 0  | 11.36 | 0  | 101 | 53   | 118 |  |  |  |  |

|                               |                         |                            |                    |                                  |                      |          |           |             |      |          |      |
|-------------------------------|-------------------------|----------------------------|--------------------|----------------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCSD-G21733</b> | SampType: <b>LCSD</b>   | TestCode: <b>TPH_GAS_W</b> | Units: <b>µg/L</b> | Prep Date: <b>11/13/2009</b>     | RunNo: <b>21733</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>       | Batch ID: <b>G21733</b> | TestNo: <b>SW8260B(TP)</b> |                    | Analysis Date: <b>11/13/2009</b> | SeqNo: <b>311975</b> |          |           |             |      |          |      |
| Analyte                       | Result                  | PQL                        | SPK value          | SPK Ref Val                      | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                           |       |    |       |    |      |      |     |     |      |    |  |
|---------------------------|-------|----|-------|----|------|------|-----|-----|------|----|--|
| TPH (Gasoline)            | 233.5 | 50 | 227   | 32 | 88.8 | 52.4 | 127 | 264 | 12.3 | 20 |  |
| Surr: 4-Bromoflurobenzene | 10.00 | 0  | 11.36 | 0  | 88.0 | 53   | 118 | 0   | 0    | 0  |  |

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



**CLIENT:** Impact Environmental Services  
**Work Order:** 0911040  
**Project:** BTS/091106-RM

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R21712**

| Sample ID: <b>MB-R21712</b>    |        | SampType: <b>MBLK</b>   |           | TestCode: <b>8260B_W_PE</b> Units: <b>µg/L</b> |      | Prep Date: <b>11/10/2009</b>     |           | RunNo: <b>21712</b>  |      |          |      |
|--------------------------------|--------|-------------------------|-----------|--|------|----------------------------------|-----------|----------------------|------|----------|------|
| Client ID: <b>ZZZZZ</b>        |        | Batch ID: <b>R21712</b> |           | TestNo: <b>SW8260B</b>                         |      | Analysis Date: <b>11/10/2009</b> |           | SeqNo: <b>311661</b> |      |          |      |
| Analyte                        | Result | PQL                     | SPK value | SPK Ref Val                                    | %REC | LowLimit                         | HighLimit | RPD Ref Val          | %RPD | RPDLimit | Qual |
| Benzene                        | ND     | 0.50                    |           |  |      |                                  |           |                      |      |          |      |
| Toluene                        | ND     | 0.50                    |           |  |      |                                  |           |                      |      |          |      |
| Ethylbenzene                   | ND     | 0.50                    |           |  |      |                                  |           |                      |      |          |      |
| Methyl tert-butyl ether (MTBE) | ND     | 0.50                    |           |  |      |                                  |           |                      |      |          |      |
| Diisopropyl ether (DIPE)       | ND     | 0.50                    |           |  |      |                                  |           |                      |      |          |      |
| Ethyl tert-butyl ether (ETBE)  | ND     | 0.50                    |           |  |      |                                  |           |                      |      |          |      |
| tert-Amyl methyl ether (TAME)  | ND     | 0.50                    |           |  |      |                                  |           |                      |      |          |      |
| t-Butyl alcohol (t-Butanol)    | ND     | 5.0                     |           |  |      |                                  |           |                      |      |          |      |
| Xylenes, Total                 | ND     | 1.5                     |           |  |      |                                  |           |                      |      |          |      |
| Surr: Dibromofluoromethane     | 11.53  | 0                       | 11.36     | 0  | 101  | 61.2                             | 131       |                      |      |          |      |
| Surr: 4-Bromofluorobenzene     | 9.120  | 0                       | 11.36     | 0  | 80.3 | 64.1                             | 120       |                      |      |          |      |
| Surr: Toluene-d8               | 9.340  | 0                       | 11.36     | 0  | 82.2 | 75.1                             | 127       |                      |      |          |      |

| Sample ID: <b>LCS-R21712</b> |        | SampType: <b>LCS</b>    |           | TestCode: <b>8260B_W_PE</b> Units: <b>µg/L</b> |      | Prep Date: <b>11/10/2009</b>     |           | RunNo: <b>21712</b>  |      |          |      |
|------------------------------|--------|-------------------------|-----------|--|------|----------------------------------|-----------|----------------------|------|----------|------|
| Client ID: <b>ZZZZZ</b>      |        | Batch ID: <b>R21712</b> |           | TestNo: <b>SW8260B</b>                         |      | Analysis Date: <b>11/10/2009</b> |           | SeqNo: <b>311662</b> |      |          |      |
| Analyte                      | Result | PQL                     | SPK value | SPK Ref Val                                    | %REC | LowLimit                         | HighLimit | RPD Ref Val          | %RPD | RPDLimit | Qual |
| Benzene                      | 15.56  | 0.50                    | 17.04     | 0  | 91.3 | 66.9                             | 140       |                      |      |          |      |
| Toluene                      | 17.19  | 0.50                    | 17.04     | 0  | 101  | 76.6                             | 123       |                      |      |          |      |
| Surr: Dibromofluoromethane   | 13.28  | 0                       | 11.36     | 0  | 117  | 61.2                             | 131       |                      |      |          |      |
| Surr: 4-Bromofluorobenzene   | 11.46  | 0                       | 11.36     | 0  | 101  | 64.1                             | 120       |                      |      |          |      |
| Surr: Toluene-d8             | 11.36  | 0                       | 11.36     | 0  | 100  | 75.1                             | 127       |                      |      |          |      |

| Sample ID: <b>LCSD-R21712</b> |        | SampType: <b>LCSD</b>   |           | TestCode: <b>8260B_W_PE</b> Units: <b>µg/L</b> |      | Prep Date: <b>11/10/2009</b>     |           | RunNo: <b>21712</b>  |      |          |      |
|-------------------------------|--------|-------------------------|-----------|--|------|----------------------------------|-----------|----------------------|------|----------|------|
| Client ID: <b>ZZZZZ</b>       |        | Batch ID: <b>R21712</b> |           | TestNo: <b>SW8260B</b>                         |      | Analysis Date: <b>11/10/2009</b> |           | SeqNo: <b>311663</b> |      |          |      |
| Analyte                       | Result | PQL                     | SPK value | SPK Ref Val                                    | %REC | LowLimit                         | HighLimit | RPD Ref Val          | %RPD | RPDLimit | Qual |
| Benzene                       | 17.29  | 0.50                    | 17.04     | 0  | 101  | 66.9                             | 140       | 15.56                | 10.5 | 20       |      |
| Toluene                       | 16.01  | 0.50                    | 17.04     | 0  | 94.0 | 76.6                             | 123       | 17.19                | 7.11 | 20       |      |
| Surr: Dibromofluoromethane    | 12.23  | 0                       | 11.36     | 0  | 108  | 61.2                             | 131       | 0                    | 0    | 0        |      |
| Surr: 4-Bromofluorobenzene    | 11.48  | 0                       | 11.36     | 0  | 101  | 64.1                             | 120       | 0                    | 0    | 0        |      |

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

**CLIENT:** Impact Environmental Services  
**Work Order:** 0911040  
**Project:** BTS/091106-RM

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R21712**

| Sample ID: <b>LCSD-R21712</b> | SampType: <b>LCSD</b>   | TestCode: <b>8260B_W_PE</b> Units: <b>µg/L</b> | Prep Date: <b>11/10/2009</b>     | RunNo: <b>21712</b>  |      |          |           |             |      |          |      |
|-------------------------------|-------------------------|--|----------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>ZZZZZ</b>       | Batch ID: <b>R21712</b> | TestNo: <b>SW8260B</b>                         | Analysis Date: <b>11/10/2009</b> | SeqNo: <b>311663</b> |      |          |           |             |      |          |      |
| Analyte                       | Result                  | PQL  | SPK value                        | SPK Ref Val          | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Surr: Toluene-d8              | 11.76                   | 0  | 11.36                            | 0                    | 104  | 75.1     | 127       | 0           | 0    | 0        |      |

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

**CLIENT:** Impact Environmental Services  
**Work Order:** 0911040  
**Project:** BTS/091106-RM

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R21714**

| Sample ID: <b>MB-R21714</b>    |        | SampType: <b>MBLK</b>   |           | TestCode: <b>8260B_W_PE</b> Units: <b>µg/L</b> |      | Prep Date: <b>11/11/2009</b>     |           | RunNo: <b>21714</b>  |      |          |      |
|--------------------------------|--------|-------------------------|-----------|--|------|----------------------------------|-----------|----------------------|------|----------|------|
| Client ID: <b>ZZZZZ</b>        |        | Batch ID: <b>R21714</b> |           | TestNo: <b>SW8260B</b>                         |      | Analysis Date: <b>11/11/2009</b> |           | SeqNo: <b>311690</b> |      |          |      |
| Analyte                        | Result | PQL                     | SPK value | SPK Ref Val                                    | %REC | LowLimit                         | HighLimit | RPD Ref Val          | %RPD | RPDLimit | Qual |
| Benzene                        | ND     | 0.50                    |           |  |      |                                  |           |                      |      |          |      |
| Toluene                        | ND     | 0.50                    |           |  |      |                                  |           |                      |      |          |      |
| Ethylbenzene                   | ND     | 0.50                    |           |  |      |                                  |           |                      |      |          |      |
| Methyl tert-butyl ether (MTBE) | ND     | 0.50                    |           |  |      |                                  |           |                      |      |          |      |
| Diisopropyl ether (DIPE)       | ND     | 0.50                    |           |  |      |                                  |           |                      |      |          |      |
| Ethyl tert-butyl ether (ETBE)  | ND     | 0.50                    |           |  |      |                                  |           |                      |      |          |      |
| tert-Amyl methyl ether (TAME)  | ND     | 0.50                    |           |  |      |                                  |           |                      |      |          |      |
| t-Butyl alcohol (t-Butanol)    | ND     | 5.0                     |           |  |      |                                  |           |                      |      |          |      |
| Xylenes, Total                 | ND     | 1.5                     |           |  |      |                                  |           |                      |      |          |      |
| Surr: Dibromofluoromethane     | 11.78  | 0                       | 11.36     | 0  | 104  | 61.2                             | 131       |                      |      |          |      |
| Surr: 4-Bromofluorobenzene     | 10.29  | 0                       | 11.36     | 0  | 90.6 | 64.1                             | 120       |                      |      |          |      |
| Surr: Toluene-d8               | 11.21  | 0                       | 11.36     | 0  | 98.7 | 75.1                             | 127       |                      |      |          |      |

| Sample ID: <b>LCS-R21714</b> |        | SampType: <b>LCS</b>    |           | TestCode: <b>8260B_W_PE</b> Units: <b>µg/L</b> |      | Prep Date: <b>11/11/2009</b>     |           | RunNo: <b>21714</b>  |      |          |      |
|------------------------------|--------|-------------------------|-----------|--|------|----------------------------------|-----------|----------------------|------|----------|------|
| Client ID: <b>ZZZZZ</b>      |        | Batch ID: <b>R21714</b> |           | TestNo: <b>SW8260B</b>                         |      | Analysis Date: <b>11/11/2009</b> |           | SeqNo: <b>311691</b> |      |          |      |
| Analyte                      | Result | PQL                     | SPK value | SPK Ref Val                                    | %REC | LowLimit                         | HighLimit | RPD Ref Val          | %RPD | RPDLimit | Qual |
| Benzene                      | 15.64  | 0.50                    | 17.04     | 0  | 91.8 | 66.9                             | 140       |                      |      |          |      |
| Toluene                      | 14.22  | 0.50                    | 17.04     | 0  | 83.5 | 76.6                             | 123       |                      |      |          |      |
| Surr: Dibromofluoromethane   | 11.98  | 0                       | 11.36     | 0  | 105  | 61.2                             | 131       |                      |      |          |      |
| Surr: 4-Bromofluorobenzene   | 11.33  | 0                       | 11.36     | 0  | 99.7 | 64.1                             | 120       |                      |      |          |      |
| Surr: Toluene-d8             | 11.65  | 0                       | 11.36     | 0  | 103  | 75.1                             | 127       |                      |      |          |      |

| Sample ID: <b>LCSD-R21714</b> |        | SampType: <b>LCSD</b>   |           | TestCode: <b>8260B_W_PE</b> Units: <b>µg/L</b> |      | Prep Date: <b>11/11/2009</b>     |           | RunNo: <b>21714</b>  |      |          |      |
|-------------------------------|--------|-------------------------|-----------|--|------|----------------------------------|-----------|----------------------|------|----------|------|
| Client ID: <b>ZZZZZ</b>       |        | Batch ID: <b>R21714</b> |           | TestNo: <b>SW8260B</b>                         |      | Analysis Date: <b>11/11/2009</b> |           | SeqNo: <b>311692</b> |      |          |      |
| Analyte                       | Result | PQL                     | SPK value | SPK Ref Val                                    | %REC | LowLimit                         | HighLimit | RPD Ref Val          | %RPD | RPDLimit | Qual |
| Benzene                       | 16.66  | 0.50                    | 17.04     | 0  | 97.8 | 66.9                             | 140       | 15.64                | 6.32 | 20       |      |
| Toluene                       | 16.74  | 0.50                    | 17.04     | 0  | 98.2 | 76.6                             | 123       | 14.22                | 16.3 | 20       |      |
| Surr: Dibromofluoromethane    | 10.81  | 0                       | 11.36     | 0  | 95.2 | 61.2                             | 131       | 0                    | 0    | 0        |      |
| Surr: 4-Bromofluorobenzene    | 9.990  | 0                       | 11.36     | 0  | 87.9 | 64.1                             | 120       | 0                    | 0    | 0        |      |

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

**CLIENT:** Impact Environmental Services  
**Work Order:** 0911040  
**Project:** BTS/091106-RM

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R21714**

| Sample ID: <b>LCSD-R21714</b> | SampType: <b>LCSD</b>   | TestCode: <b>8260B_W_PE</b> | Units: <b>µg/L</b> | Prep Date: <b>11/11/2009</b>     | RunNo: <b>21714</b>  |          |           |             |      |          |      |
|-------------------------------|-------------------------|-----------------------------|--------------------|----------------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>ZZZZZ</b>       | Batch ID: <b>R21714</b> | TestNo: <b>SW8260B</b>      |                    | Analysis Date: <b>11/11/2009</b> | SeqNo: <b>311692</b> |          |           |             |      |          |      |
| Analyte                       | Result                  | PQL                         | SPK value          | SPK Ref Val                      | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Surr: Toluene-d8              | 11.56                   | 0                           | 11.36              | 0                                | 102                  | 75.1     | 127       | 0           | 0    | 0        |      |

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

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

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



**CLIENT:** Impact Environmental Services  
**Work Order:** 0911040  
**Project:** BTS/091106-RM

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R21727**

|                                |                         |                          |                    |                                  |                      |          |           |             |      |          |      |
|--------------------------------|-------------------------|--------------------------|--------------------|----------------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>WD091111A-MB</b> | SampType: <b>MBLK</b>   | TestCode: <b>TPHDO_W</b> | Units: <b>mg/L</b> | Prep Date: <b>11/11/2009</b>     | RunNo: <b>21727</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>        | Batch ID: <b>R21727</b> | TestNo: <b>SW8015B</b>   |                    | Analysis Date: <b>11/12/2009</b> | SeqNo: <b>311912</b> |          |           |             |      |          |      |
| Analyte                        | Result                  | PQL                      | SPK value          | SPK Ref Val                      | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| TPH (Diesel)                   | ND                      | 0.10                     |                    |                                  |                      |          |           |             |      |          |      |
| TPH (Motor Oil)                | ND                      | 0.20                     |                    |                                  |                      |          |           |             |      |          |      |
| Surr: Pentacosane              | 0.1170                  | 0                        | 0.1                | 0                                | 117                  | 57.9     | 125       |             |      |          |      |

|                                 |                         |                          |                    |                                  |                      |          |           |             |      |          |      |
|---------------------------------|-------------------------|--------------------------|--------------------|----------------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>WD091111A-LCS</b> | SampType: <b>LCS</b>    | TestCode: <b>TPHDO_W</b> | Units: <b>mg/L</b> | Prep Date: <b>11/11/2009</b>     | RunNo: <b>21727</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>         | Batch ID: <b>R21727</b> | TestNo: <b>SW8015B</b>   |                    | Analysis Date: <b>11/12/2009</b> | SeqNo: <b>311913</b> |          |           |             |      |          |      |
| Analyte                         | Result                  | PQL                      | SPK value          | SPK Ref Val                      | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| TPH (Diesel)                    | 1.060                   | 0.10                     | 1                  | 0                                | 106                  | 50.3     | 125       |             |      |          |      |
| Surr: Pentacosane               | 0.1040                  | 0                        | 0.1                | 0                                | 104                  | 57.9     | 125       |             |      |          |      |

|                                  |                         |                          |                    |                                  |                      |          |           |             |      |          |      |
|----------------------------------|-------------------------|--------------------------|--------------------|----------------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>WD091111A-LCSD</b> | SampType: <b>LCSD</b>   | TestCode: <b>TPHDO_W</b> | Units: <b>mg/L</b> | Prep Date: <b>11/11/2009</b>     | RunNo: <b>21727</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>          | Batch ID: <b>R21727</b> | TestNo: <b>SW8015B</b>   |                    | Analysis Date: <b>11/12/2009</b> | SeqNo: <b>311914</b> |          |           |             |      |          |      |
| Analyte                          | Result                  | PQL                      | SPK value          | SPK Ref Val                      | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| TPH (Diesel)                     | 0.8620                  | 0.10                     | 1                  | 0                                | 86.2                 | 50.3     | 125       | 1.06        | 20.6 | 30       |      |
| Surr: Pentacosane                | 0.09900                 | 0                        | 0.1                | 0                                | 99.0                 | 57.9     | 125       | 0           | 0    | 0        |      |

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

# Torrent Laboratory, Inc.

## WORK ORDER Summary

10-Nov-09

Work Order 0911040

**Client ID:** IMPACT ENV. SER.

**Project:** BTS/091106-RM

**QC Level:**

**Comments:** 5 day TAT!!! Pls. Invoice and report to Impact Env.Services to jac@21462@aol.com.Rec'd 8 water samples for TPHg;BTEX ;MTBE 5 OXYGENATES and Die

| Sample ID    | Client Sample ID | Collection Date       | Date Received | Date Due   | Matrix | Test Code     | Hld                      | MS                       | SEL                                 | Sub                      | Storage |
|--------------|------------------|-----------------------|---------------|------------|--------|---------------|--------------------------|--------------------------|-------------------------------------|--------------------------|---------|
| 0911040-001A | MW-1             | 11/6/2009 9:25:00 AM  | 11/6/2009     | 11/12/2009 | Water  | 8260B_W_PETRO | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | ORG/SR  |
|              |                  |                       |               |            |        | LELIM         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | ORG/SR  |
|              |                  |                       |               |            |        | TPH_GAS_W_GC  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | ORG/SR  |
| 0911040-002A | MW-2             | 11/6/2009 9:45:00 AM  | 11/12/2009    | 11/12/2009 |        | 8260B_W_PETRO | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | ORG/SR  |
|              |                  |                       |               |            |        | LELIM         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | ORG/SR  |
|              |                  |                       |               |            |        | TPH_GAS_W_GC  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | ORG/SR  |
| 0911040-003A | MW-3             | 11/6/2009 10:15:00 AM | 11/12/2009    | 11/12/2009 |        | 8260B_W_PETRO | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | ORG/SR  |
|              |                  |                       |               |            |        | LELIM         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | ORG/SR  |
|              |                  |                       |               |            |        | TPH_GAS_W_GC  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | ORG/SR  |
| 0911040-004A | MW-4             | 11/6/2009 10:55:00 AM | 11/12/2009    | 11/12/2009 |        | 8260B_W_PETRO | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | ORG/SR  |
|              |                  |                       |               |            |        | LELIM         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | ORG/SR  |
|              |                  |                       |               |            |        | TPH_GAS_W_GC  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | ORG/SR  |
| 0911040-005A | MW-5             | 11/6/2009 10:35:00 AM | 11/12/2009    | 11/12/2009 |        | 8260B_W_PETRO | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | ORG/SR  |
|              |                  |                       |               |            |        | LELIM         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | ORG/SR  |
|              |                  |                       |               |            |        | TPH_GAS_W_GC  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | ORG/SR  |
| 0911040-006A | MW-6             | 11/6/2009 11:15:00 AM | 11/12/2009    | 11/12/2009 |        | 8260B_W_PETRO | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | ORG/SR  |
|              |                  |                       |               |            |        | LELIM         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | ORG/SR  |
|              |                  |                       |               |            |        | TPH_GAS_W_GC  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | ORG/SR  |
| 0911040-007A | MW-7             | 11/6/2009 11:40:00 AM | 11/12/2009    | 11/12/2009 |        | 8260B_W_PETRO | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | ORG/SR  |
|              |                  |                       |               |            |        | LELIM         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | ORG/SR  |
|              |                  |                       |               |            |        | TPH_GAS_W_GC  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | ORG/SR  |
| 0911040-008A | GW-2             | 11/6/2009 12:05:00 PM | 11/12/2009    | 11/12/2009 |        | 8260B_W_PETRO | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | ORG/SR  |
|              |                  |                       |               |            |        | LELIM         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | ORG/SR  |
|              |                  |                       |               |            |        | TPH_GAS_W_GC  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | ORG/SR  |
|              |                  |                       |               | 11/12/2009 |        | TPHDO_W       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | ORG/SR  |

# BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE  
 SAN JOSE, CALIFORNIA 95112-1105  
 FAX (408) 573-7771  
 PHONE (408) 573-0555

## CONDUCT ANALYSIS TO DETECT

LAB Torrent Lab DHS # \_\_\_\_\_

CHAIN OF CUSTODY  
 BTS # 091106 - em

CLIENT  
Impact Environmental Services

SITE  
1409-1417 12th St.  
Oakland CA

MUST MEET SPECIFICATIONS

EPA  
 LIA  
 OTHER

RWQCB REGION \_\_\_\_\_

0911040

SPECIAL INSTRUCTIONS

Invoice and Report to: Impact Env. Services

Attn: Joseph Cotton  
 tel: (510) 703-5420  
 fax: (510) 791-0271  
 email: jac21462@aol.com

| SAMPLE I.D. | DATE    | TIME | MATRIX   |         | CONTAINERS |   | TPH-G by 8260 | BTEX by 8260 | MTBE by 8260 | TPH-D & Motor Oil | Oxygenates by 8260 | ADD'L INFORMATION | STATUS | CONDITION | LAB SAMPLE # |
|-------------|---------|------|----------|---------|------------|---|---------------|--------------|--------------|-------------------|--------------------|-------------------|--------|-----------|--------------|
|             |         |      | S = Soil | W = H2O | TOTAL      |   |               |              |              |                   |                    |                   |        |           |              |
| MW-1        | 11/6/09 | 0925 | W        |         | Mix        | S | X             | X            |              | X                 | X                  | -001A             |        |           |              |
| MW-2        |         | 0945 |          |         |            |   | X             | X            |              | X                 | X                  | -002A             |        |           |              |
| MW-3        |         | 1015 |          |         |            |   | X             | X            |              | X                 | X                  | -003A             |        |           |              |
| MW-4        |         | 1055 |          |         |            |   | X             | X            |              | X                 | X                  | -004A             |        |           |              |
| MW-5        |         | 1035 |          |         |            |   | X             | X            |              | X                 | X                  | -005A             |        |           |              |
| MW-6        |         | 1115 |          |         |            |   | X             | X            |              | X                 | X                  | -006A             |        |           |              |
| MW-7        |         | 1140 |          |         |            |   | X             | X            |              | X                 | X                  | -007A             |        |           |              |
| GW-2        |         | 1205 |          |         |            |   | X             | X            |              | X                 | X                  | -008A             |        | Temp 30C  |              |

SAMPLING COMPLETED DATE 11/6/09 TIME 1205 SAMPLING PERFORMED BY R. M. Carney RESULTS NEEDED NO LATER THAN Standard TAT

RELEASED BY [Signature] DATE 11/6/09 TIME 2:50 pm RECEIVED BY [Signature] DATE 11/5/09 TIME 2:50 pm

RELEASED BY \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_ RECEIVED BY \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_

SHIPPED VIA \_\_\_\_\_ DATE SENT \_\_\_\_\_ TIME SENT \_\_\_\_\_ COOLER # 2/off.



November 19, 2009

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

TEL: 510-703-5420

FAX 510-713-7790

RE: BTS#091112-1W-2

Order No.: 0911097

Dear Mr. Joseph Cotton:

Torrent Laboratory, Inc. received 3 samples on 11/12/2009 for the analyses presented in the following report.

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

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

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

Sincerely,

  
Laboratory Director

11/19/09  
Date

Patti Sandrock  
QA Officer





# TORRENT LABORATORY, INC.

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

Visit us at [www.torrentlab.com](http://www.torrentlab.com) email: [analysis@torrentlab.com](mailto:analysis@torrentlab.com)

**Report prepared for:** Mr. Joseph Cotton  
Impact Environmental Services

**Date Received:** 11/12/2009  
**Date Reported:** 11/19/2009

**Client Sample ID:** MW-8  
**Sample Location:** 1409-1417- 12th St.Oakland  
**Sample Matrix:** WATER  
**Date/Time Sampled** 11/12/2009 2:40:00 PM

**Lab Sample ID:** 0911097-001  
**Date Prepared:** 11/13/2009

| Parameters                     | Analysis Method | Date Analyzed | RL  | Dilution Factor | MRL      | Result | Units | Analytical Batch |
|--------------------------------|-----------------|---------------|-----|-----------------|----------|--------|-------|------------------|
| TPH (Diesel)                   | SW8015B         | 11/17/2009    | 0.1 | 1               | 0.10     | ND     | mg/L  | R21738           |
| TPH (Motor Oil)                | SW8015B         | 11/17/2009    | 0.2 | 1               | 0.20     | ND     | mg/L  | R21738           |
| Surr: Pentacosane              | SW8015B         | 11/17/2009    | 0   | 1               | 57.9-125 | 91.0   | %REC  | R21738           |
| Benzene                        | SW8260B         | 11/17/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21792           |
| Toluene                        | SW8260B         | 11/17/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21792           |
| Ethylbenzene                   | SW8260B         | 11/17/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21792           |
| Methyl tert-butyl ether (MTBE) | SW8260B         | 11/17/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21792           |
| Diisopropyl ether (DIPE)       | SW8260B         | 11/17/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21792           |
| Ethyl tert-butyl ether (ETBE)  | SW8260B         | 11/17/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21792           |
| tert-Amyl methyl ether (TAME)  | SW8260B         | 11/17/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21792           |
| t-Butyl alcohol (t-Butanol)    | SW8260B         | 11/17/2009    | 5   | 1               | 5.0      | ND     | µg/L  | R21792           |
| Xylenes, Total                 | SW8260B         | 11/17/2009    | 1.5 | 1               | 1.5      | ND     | µg/L  | R21792           |
| Surr: Dibromofluoromethane     | SW8260B         | 11/17/2009    | 0   | 1               | 61.2-131 | 68.6   | %REC  | R21792           |
| Surr: 4-Bromofluorobenzene     | SW8260B         | 11/17/2009    | 0   | 1               | 64.1-120 | 116    | %REC  | R21792           |
| Surr: Toluene-d8               | SW8260B         | 11/17/2009    | 0   | 1               | 75.1-127 | 113    | %REC  | R21792           |
| TPH (Gasoline)                 | SW8260B(TPH)    | 11/17/2009    | 50  | 1               | 50       | 220x   | µg/L  | G21792           |
| Surr: 4-Bromofluorobenzene     | SW8260B(TPH)    | 11/17/2009    | 0   | 1               | 53-118   | 69.0   | %REC  | G21792           |

Note: x - Reported value is the result of discrete peaks (light end) of non-gasoline compounds within range of C5-C12 quantified as Gasoline.

|  |                                   |
|--|-----------------------------------|
| <b>Client Sample ID:</b> GW-1                      | <b>Lab Sample ID:</b> 0911097-002 |
| <b>Sample Location:</b> 1409-1417- 12th St.Oakland | <b>Date Prepared:</b> 11/13/2009  |
| <b>Sample Matrix:</b> WATER                        |                                   |
| <b>Date/Time Sampled</b> 11/12/2009 2:50:00 PM     |                                   |

| Parameters   | Analysis Method | Date Analyzed | RL  | Dilution Factor | MRL      | Result | Units | Analytical Batch |
|--|-----------------|---------------|-----|-----------------|----------|--------|-------|------------------|
| TPH (Diesel)   | SW8015B         | 11/17/2009    | 0.1 | 1               | 0.10     | 0.138x | mg/L  | R21738           |
| TPH (Motor Oil)  | SW8015B         | 11/17/2009    | 0.2 | 1               | 0.20     | ND     | mg/L  | R21738           |
| Surr: Pentacosane  | SW8015B         | 11/17/2009    | 0   | 1               | 57.9-125 | 112    | %REC  | R21738           |
| Note:x-Sample chromatogram does not resemble typical diesel pattern (possibly fuel lighter than diesel). Hydrocarbons within the diesel range quantitated as diesel. |                 |               |     |                 |          |        |       |                  |
| Benzene  | SW8260B         | 11/17/2009    | 0.5 | 1               | 0.50     | 3.9    | µg/L  | R21792           |
| Toluene  | SW8260B         | 11/17/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21792           |
| Ethylbenzene   | SW8260B         | 11/17/2009    | 0.5 | 1               | 0.50     | 2.1    | µg/L  | R21792           |
| Methyl tert-butyl ether (MTBE)   | SW8260B         | 11/17/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21792           |
| Diisopropyl ether (DIPE)   | SW8260B         | 11/17/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21792           |
| Ethyl tert-butyl ether (ETBE)  | SW8260B         | 11/17/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21792           |
| tert-Amyl methyl ether (TAME)  | SW8260B         | 11/17/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21792           |
| t-Butyl alcohol (t-Butanol)  | SW8260B         | 11/17/2009    | 5   | 1               | 5.0      | ND     | µg/L  | R21792           |
| Xylenes, Total   | SW8260B         | 11/17/2009    | 1.5 | 1               | 1.5      | 12     | µg/L  | R21792           |
| Surr: Dibromofluoromethane   | SW8260B         | 11/17/2009    | 0   | 1               | 61.2-131 | 82.4   | %REC  | R21792           |
| Surr: 4-Bromofluorobenzene   | SW8260B         | 11/17/2009    | 0   | 1               | 64.1-120 | 102    | %REC  | R21792           |
| Surr: Toluene-d8   | SW8260B         | 11/17/2009    | 0   | 1               | 75.1-127 | 112    | %REC  | R21792           |
| TPH (Gasoline)   | SW8260B(TPH)    | 11/17/2009    | 50  | 1               | 50       | 120x   | µg/L  | G21792           |
| Surr: 4-Bromofluorobenzene   | SW8260B(TPH)    | 11/17/2009    | 0   | 1               | 53-118   | 76.7   | %REC  | G21792           |

Note: x - Hydrocarbons within range of C5-C12 quantified as Gasoline but pattern does not match gasoline standard.

**Client Sample ID:** GW-3  
**Sample Location:** 1409-1417- 12th St.Oakland  
**Sample Matrix:** WATER  
**Date/Time Sampled** 11/12/2009 2:55:00 PM

**Lab Sample ID:** 0911097-003  
**Date Prepared:** 11/13/2009

| Parameters                     | Analysis Method | Date Analyzed | RL  | Dilution Factor | MRL      | Result | Units | Analytical Batch |
|--------------------------------|-----------------|---------------|-----|-----------------|----------|--------|-------|------------------|
| TPH (Diesel)                   | SW8015B         | 11/17/2009    | 0.1 | 1               | 0.10     | ND     | mg/L  | R21738           |
| TPH (Motor Oil)                | SW8015B         | 11/17/2009    | 0.2 | 1               | 0.20     | ND     | mg/L  | R21738           |
| Surr: Pentacosane              | SW8015B         | 11/17/2009    | 0   | 1               | 57.9-125 | 96.0   | %REC  | R21738           |
| Benzene                        | SW8260B         | 11/17/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21792           |
| Toluene                        | SW8260B         | 11/17/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21792           |
| Ethylbenzene                   | SW8260B         | 11/17/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21792           |
| Methyl tert-butyl ether (MTBE) | SW8260B         | 11/17/2009    | 0.5 | 1               | 0.50     | 0.72   | µg/L  | R21792           |
| Diisopropyl ether (DIPE)       | SW8260B         | 11/17/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21792           |
| Ethyl tert-butyl ether (ETBE)  | SW8260B         | 11/17/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21792           |
| tert-Amyl methyl ether (TAME)  | SW8260B         | 11/17/2009    | 0.5 | 1               | 0.50     | ND     | µg/L  | R21792           |
| t-Butyl alcohol (t-Butanol)    | SW8260B         | 11/17/2009    | 5   | 1               | 5.0      | ND     | µg/L  | R21792           |
| Xylenes, Total                 | SW8260B         | 11/17/2009    | 1.5 | 1               | 1.5      | ND     | µg/L  | R21792           |
| Surr: Dibromofluoromethane     | SW8260B         | 11/17/2009    | 0   | 1               | 61.2-131 | 93.3   | %REC  | R21792           |
| Surr: 4-Bromofluorobenzene     | SW8260B         | 11/17/2009    | 0   | 1               | 64.1-120 | 105    | %REC  | R21792           |
| Surr: Toluene-d8               | SW8260B         | 11/17/2009    | 0   | 1               | 75.1-127 | 101    | %REC  | R21792           |
| TPH (Gasoline)                 | SW8260B(TPH)    | 11/17/2009    | 50  | 1               | 50       | ND     | µg/L  | G21792           |
| Surr: 4-Bromofluorobenzene     | SW8260B(TPH)    | 11/17/2009    | 0   | 1               | 53-118   | 75.0   | %REC  | G21792           |

**Definitions, legends and Notes**

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



**CLIENT:** Impact Environmental Services  
**Work Order:** 0911097  
**Project:** BTS#091112-1W-2

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: G21792**

|                              |                         |                            |                                  |                              |                     |          |           |             |      |          |      |
|------------------------------|-------------------------|----------------------------|----------------------------------|------------------------------|---------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>MBG-G21792</b> | SampType: <b>MBLK</b>   | TestCode: <b>TPH_GAS_W</b> | Units: <b>µg/L</b>               | Prep Date: <b>11/17/2009</b> | RunNo: <b>21792</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>      | Batch ID: <b>G21792</b> | TestNo: <b>SW8260B(TP)</b> | Analysis Date: <b>11/17/2009</b> | SeqNo: <b>312853</b>         |                     |          |           |             |      |          |      |
| Analyte                      | Result                  | PQL                        | SPK value                        | SPK Ref Val                  | %REC                | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| TPH (Gasoline)               | ND                      | 50                         |                                  |                              |                     |          |           |             |      |          |      |
| Surr: 4-Bromofllurobenzene   | 8.600                   | 0                          | 11.36                            | 0                            | 75.7                | 53       | 118       |             |      |          |      |

|                               |                         |                            |                                  |                              |                     |          |           |             |      |          |      |
|-------------------------------|-------------------------|----------------------------|----------------------------------|------------------------------|---------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCSG-G21792</b> | SampType: <b>LCS</b>    | TestCode: <b>TPH_GAS_W</b> | Units: <b>µg/L</b>               | Prep Date: <b>11/17/2009</b> | RunNo: <b>21792</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>       | Batch ID: <b>G21792</b> | TestNo: <b>SW8260B(TP)</b> | Analysis Date: <b>11/17/2009</b> | SeqNo: <b>312854</b>         |                     |          |           |             |      |          |      |
| Analyte                       | Result                  | PQL                        | SPK value                        | SPK Ref Val                  | %REC                | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| TPH (Gasoline)                | 221.8                   | 50                         | 227                              | 0                            | 97.7                | 52.4     | 127       |             |      |          |      |
| Surr: 4-Bromofllurobenzene    | 9.100                   | 0                          | 11.36                            | 0                            | 80.1                | 53       | 118       |             |      |          |      |

|                                |                         |                            |                                  |                              |                     |          |           |             |      |          |      |
|--------------------------------|-------------------------|----------------------------|----------------------------------|------------------------------|---------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCSDG-G21792</b> | SampType: <b>LCSD</b>   | TestCode: <b>TPH_GAS_W</b> | Units: <b>µg/L</b>               | Prep Date: <b>11/17/2009</b> | RunNo: <b>21792</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>        | Batch ID: <b>G21792</b> | TestNo: <b>SW8260B(TP)</b> | Analysis Date: <b>11/17/2009</b> | SeqNo: <b>312856</b>         |                     |          |           |             |      |          |      |
| Analyte                        | Result                  | PQL                        | SPK value                        | SPK Ref Val                  | %REC                | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| TPH (Gasoline)                 | 183.2                   | 50                         | 227                              | 0                            | 80.7                | 52.4     | 127       | 221.8       | 19.1 | 20       |      |
| Surr: 4-Bromofllurobenzene     | 9.300                   | 0                          | 11.36                            | 0                            | 81.9                | 53       | 118       | 0           | 0    | 0        |      |

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

**CLIENT:** Impact Environmental Services  
**Work Order:** 0911097  
**Project:** BTS#091112-1W-2

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R21738**

| Sample ID: <b>WD091112A-MB</b> | SampType: <b>MBLK</b>   | TestCode: <b>TPHDO_W</b> | Units: <b>mg/L</b> | Prep Date: <b>11/12/2009</b>     | RunNo: <b>21738</b>  |          |           |             |      |          |      |
|--------------------------------|-------------------------|--------------------------|--------------------|----------------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>ZZZZZ</b>        | Batch ID: <b>R21738</b> | TestNo: <b>SW8015B</b>   |                    | Analysis Date: <b>11/12/2009</b> | SeqNo: <b>312026</b> |          |           |             |      |          |      |
| Analyte                        | Result                  | PQL                      | SPK value          | SPK Ref Val                      | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                   |        |      |     |   |     |      |     |  |  |  |  |
|-------------------|--------|------|-----|---|-----|------|-----|--|--|--|--|
| TPH (Diesel)      | ND     | 0.10 |     |   |     |      |     |  |  |  |  |
| TPH (Motor Oil)   | ND     | 0.20 |     |   |     |      |     |  |  |  |  |
| Surr: Pentacosane | 0.1050 | 0    | 0.1 | 0 | 105 | 57.9 | 125 |  |  |  |  |

| Sample ID: <b>WD091113A-MB</b> | SampType: <b>MBLK</b>   | TestCode: <b>TPHDO_W</b> | Units: <b>mg/L</b> | Prep Date: <b>11/13/2009</b>     | RunNo: <b>21738</b>  |          |           |             |      |          |      |
|--------------------------------|-------------------------|--------------------------|--------------------|----------------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>ZZZZZ</b>        | Batch ID: <b>R21738</b> | TestNo: <b>SW8015B</b>   |                    | Analysis Date: <b>11/13/2009</b> | SeqNo: <b>312370</b> |          |           |             |      |          |      |
| Analyte                        | Result                  | PQL                      | SPK value          | SPK Ref Val                      | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                   |        |      |     |   |     |      |     |  |  |  |  |
|-------------------|--------|------|-----|---|-----|------|-----|--|--|--|--|
| TPH (Diesel)      | ND     | 0.10 |     |   |     |      |     |  |  |  |  |
| TPH (Motor Oil)   | ND     | 0.20 |     |   |     |      |     |  |  |  |  |
| Surr: Pentacosane | 0.1090 | 0    | 0.1 | 0 | 109 | 57.9 | 125 |  |  |  |  |

| Sample ID: <b>WD091112A-LCS</b> | SampType: <b>LCS</b>    | TestCode: <b>TPHDO_W</b> | Units: <b>mg/L</b> | Prep Date: <b>11/12/2009</b>     | RunNo: <b>21738</b>  |          |           |             |      |          |      |
|---------------------------------|-------------------------|--------------------------|--------------------|----------------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>ZZZZZ</b>         | Batch ID: <b>R21738</b> | TestNo: <b>SW8015B</b>   |                    | Analysis Date: <b>11/12/2009</b> | SeqNo: <b>312027</b> |          |           |             |      |          |      |
| Analyte                         | Result                  | PQL                      | SPK value          | SPK Ref Val                      | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                   |        |      |     |   |      |      |     |  |  |  |  |
|-------------------|--------|------|-----|---|------|------|-----|--|--|--|--|
| TPH (Diesel)      | 0.7510 | 0.10 | 1   | 0 | 75.1 | 50.3 | 125 |  |  |  |  |
| Surr: Pentacosane | 0.1030 | 0    | 0.1 | 0 | 103  | 57.9 | 125 |  |  |  |  |

| Sample ID: <b>WD091112A-LCSD</b> | SampType: <b>LCSD</b>   | TestCode: <b>TPHDO_W</b> | Units: <b>mg/L</b> | Prep Date: <b>11/12/2009</b>     | RunNo: <b>21738</b>  |          |           |             |      |          |      |
|----------------------------------|-------------------------|--------------------------|--------------------|----------------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>ZZZZZ</b>          | Batch ID: <b>R21738</b> | TestNo: <b>SW8015B</b>   |                    | Analysis Date: <b>11/12/2009</b> | SeqNo: <b>312028</b> |          |           |             |      |          |      |
| Analyte                          | Result                  | PQL                      | SPK value          | SPK Ref Val                      | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                   |        |      |     |   |      |      |     |       |      |    |  |
|-------------------|--------|------|-----|---|------|------|-----|-------|------|----|--|
| TPH (Diesel)      | 0.7400 | 0.10 | 1   | 0 | 74.0 | 50.3 | 125 | 0.751 | 1.48 | 30 |  |
| Surr: Pentacosane | 0.1100 | 0    | 0.1 | 0 | 110  | 57.9 | 125 | 0     | 0    | 0  |  |

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

**CLIENT:** Impact Environmental Services  
**Work Order:** 0911097  
**Project:** BTS#091112-1W-2

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R21792**

| Sample ID: <b>MB-R21792</b>    |        | SampType: <b>MBLK</b>   |           | TestCode: <b>8260B_W</b> |      | Units: <b>µg/L</b> |           | Prep Date: <b>11/17/2009</b>     |      | RunNo: <b>21792</b>  |      |
|--------------------------------|--------|-------------------------|-----------|--------------------------|------|--------------------|-----------|----------------------------------|------|----------------------|------|
| Client ID: <b>ZZZZZ</b>        |        | Batch ID: <b>R21792</b> |           | TestNo: <b>SW8260B</b>   |      |                    |           | Analysis Date: <b>11/17/2009</b> |      | SeqNo: <b>312849</b> |      |
| Analyte                        | Result | PQL                     | SPK value | SPK Ref Val              | %REC | LowLimit           | HighLimit | RPD Ref Val                      | %RPD | RPDLimit             | Qual |
| Benzene                        | ND     | 0.50                    |           |                          |      |                    |           |                                  |      |                      |      |
| Diisopropyl ether (DIPE)       | ND     | 0.50                    |           |                          |      |                    |           |                                  |      |                      |      |
| Ethyl tert-butyl ether (ETBE)  | ND     | 0.50                    |           |                          |      |                    |           |                                  |      |                      |      |
| Ethylbenzene                   | ND     | 0.50                    |           |                          |      |                    |           |                                  |      |                      |      |
| Methyl tert-butyl ether (MTBE) | ND     | 0.50                    |           |                          |      |                    |           |                                  |      |                      |      |
| t-Butyl alcohol (t-Butanol)    | ND     | 5.0                     |           |                          |      |                    |           |                                  |      |                      |      |
| tert-Amyl methyl ether (TAME)  | ND     | 0.50                    |           |                          |      |                    |           |                                  |      |                      |      |
| Toluene                        | ND     | 0.50                    |           |                          |      |                    |           |                                  |      |                      |      |
| Xylenes, Total                 | ND     | 1.5                     |           |                          |      |                    |           |                                  |      |                      |      |
| Surr: Dibromofluoromethane     | 12.11  | 0                       | 11.36     | 0                        | 107  | 61.2               | 131       |                                  |      |                      |      |
| Surr: 4-Bromofluorobenzene     | 11.79  | 0                       | 11.36     | 0                        | 104  | 64.1               | 120       |                                  |      |                      |      |
| Surr: Toluene-d8               | 10.36  | 0                       | 11.36     | 0                        | 91.2 | 75.1               | 127       |                                  |      |                      |      |

| Sample ID: <b>LCS-R21792</b> |        | SampType: <b>LCS</b>    |           | TestCode: <b>8260B_W</b> |      | Units: <b>µg/L</b> |           | Prep Date: <b>11/17/2009</b>     |      | RunNo: <b>21792</b>  |      |
|------------------------------|--------|-------------------------|-----------|--------------------------|------|--------------------|-----------|----------------------------------|------|----------------------|------|
| Client ID: <b>ZZZZZ</b>      |        | Batch ID: <b>R21792</b> |           | TestNo: <b>SW8260B</b>   |      |                    |           | Analysis Date: <b>11/17/2009</b> |      | SeqNo: <b>312850</b> |      |
| Analyte                      | Result | PQL                     | SPK value | SPK Ref Val              | %REC | LowLimit           | HighLimit | RPD Ref Val                      | %RPD | RPDLimit             | Qual |
| Benzene                      | 17.78  | 0.50                    | 17.04     | 0                        | 104  | 66.9               | 140       |                                  |      |                      |      |
| Toluene                      | 17.49  | 0.50                    | 17.04     | 0                        | 103  | 76.6               | 123       |                                  |      |                      |      |
| Surr: Dibromofluoromethane   | 11.47  | 0                       | 11.36     | 0                        | 101  | 61.2               | 131       |                                  |      |                      |      |
| Surr: 4-Bromofluorobenzene   | 10.23  | 0                       | 11.36     | 0                        | 90.1 | 64.1               | 120       |                                  |      |                      |      |
| Surr: Toluene-d8             | 12.07  | 0                       | 11.36     | 0                        | 106  | 75.1               | 127       |                                  |      |                      |      |

| Sample ID: <b>LCSD-R21792</b> |        | SampType: <b>LCSD</b>   |           | TestCode: <b>8260B_W</b> |      | Units: <b>µg/L</b> |           | Prep Date: <b>11/17/2009</b>     |      | RunNo: <b>21792</b>  |      |
|-------------------------------|--------|-------------------------|-----------|--------------------------|------|--------------------|-----------|----------------------------------|------|----------------------|------|
| Client ID: <b>ZZZZZ</b>       |        | Batch ID: <b>R21792</b> |           | TestNo: <b>SW8260B</b>   |      |                    |           | Analysis Date: <b>11/17/2009</b> |      | SeqNo: <b>312851</b> |      |
| Analyte                       | Result | PQL                     | SPK value | SPK Ref Val              | %REC | LowLimit           | HighLimit | RPD Ref Val                      | %RPD | RPDLimit             | Qual |
| Benzene                       | 16.96  | 0.50                    | 17.04     | 0                        | 99.5 | 66.9               | 140       | 17.78                            | 4.72 | 20                   |      |
| Toluene                       | 15.53  | 0.50                    | 17.04     | 0                        | 91.1 | 76.6               | 123       | 17.49                            | 11.9 | 20                   |      |
| Surr: Dibromofluoromethane    | 12.29  | 0                       | 11.36     | 0                        | 108  | 61.2               | 131       | 0                                | 0    | 0                    |      |
| Surr: 4-Bromofluorobenzene    | 9.770  | 0                       | 11.36     | 0                        | 86.0 | 64.1               | 120       | 0                                | 0    | 0                    |      |

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

**CLIENT:** Impact Environmental Services  
**Work Order:** 0911097  
**Project:** BTS#091112-1W-2

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R21792**

| Sample ID: <b>LCSD-R21792</b> | SampType: <b>LCSD</b>   | TestCode: <b>8260B_W</b> | Units: <b>µg/L</b> | Prep Date: <b>11/17/2009</b>     | RunNo: <b>21792</b>  |          |           |             |      |          |      |
|-------------------------------|-------------------------|--------------------------|--------------------|----------------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>ZZZZZ</b>       | Batch ID: <b>R21792</b> | TestNo: <b>SW8260B</b>   |                    | Analysis Date: <b>11/17/2009</b> | SeqNo: <b>312851</b> |          |           |             |      |          |      |
| Analyte                       | Result                  | PQL                      | SPK value          | SPK Ref Val                      | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Surr: Toluene-d8              | 10.57                   | 0                        | 11.36              | 0                                | 93.0                 | 75.1     | 127       | 0           | 0    | 0        |      |

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



# Torrent Laboratory, Inc.

## WORK ORDER Summary

13-Nov-09

Work Order 0911097

**Client ID:** IMPACT ENV. SER.

**Project:** BTS#091112-1W-2

**QC Level:**

**Comments:** 5 day TAT!!! Pls. Invoice and report to Attn: jac21462@aol.com.Rev'd 3 water samples for TPHg;/MBTEX, Oxys and TPHDO.

| Sample ID    | Client Sample ID | Collection Date       | Date Received | Date Due   | Matrix | Test Code     | Hld                      | MS                       | SEL                                 | Sub                      | Storage |
|--------------|------------------|-----------------------|---------------|------------|--------|---------------|--------------------------|--------------------------|-------------------------------------|--------------------------|---------|
| 0911097-001A | MW-8             | 11/12/2009 2:40:00 PM | 11/12/2009    | 11/18/2009 | Water  | 8260B_W_PETRO | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | SR/ORG  |
|              |                  |                       |               |            |        | TPH_GAS_W_GC  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | SR/ORG  |
|              |                  |                       |               |            |        | TPHDO_W       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | SR/ORG  |
| 0911097-002A | GW-1             | 11/12/2009 2:50:00 PM |               | 11/18/2009 |        | 8260B_W_PETRO | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | SR/ORG  |
|              |                  |                       |               |            |        | TPH_GAS_W_GC  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | SR/ORG  |
|              |                  |                       |               |            |        | TPHDO_W       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | SR/ORG  |
| 0911097-003A | GW-3             | 11/12/2009 2:55:00 PM |               | 11/18/2009 |        | 8260B_W_PETRO | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | SR/ORG  |
|              |                  |                       |               |            |        | TPH_GAS_W_GC  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | SR/ORG  |
|              |                  |                       |               |            |        | TPHDO_W       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | SR/ORG  |



**APPENDIX C**

**Manual Hydrogen Peroxide Injection Data Sheets**











