

**RECEIVED**

8:59 am, Nov 14, 2012

Alameda County  
Environmental Health

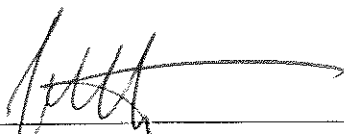
Mr. Jerry Wickham, PG  
Senior Hazardous Materials Specialist  
Alameda County Health Care Services Agency  
Environmental Health Services  
Environmental Protection  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

**Re: Sub-Slab Excavation Report**  
Dated November 8, 2012  
P&D 23<sup>rd</sup> Avenue Associates, LLC  
1125 Miller Avenue, Oakland, CA  
Clearwater Project No. CB018H  
ACEH Fuel Case Leak No. RO0000294

Dear Mr. Wickham,

As the legally authorized representative of the above-referenced project location I have reviewed the *Sub-Slab Excavation Report*, dated November 8, 2012, prepared by my consultant of record, Clearwater Group. I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document are true and correct to the best of my knowledge.

Sincerely,

  
\_\_\_\_\_  
John Prdjopappas  
For P&D 23<sup>rd</sup> Avenue Associates, LLC

**Dated:** 11/9/12



November 8, 2012

Mr. Jerry Wickham, PG, CEG, CHG  
Hazardous Materials Specialist  
Alameda County Department of Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

**Sub-Slab Excavation Report**

1125 Miller Avenue  
Oakland, California  
ACEH Case No. RO0000294  
Global ID No. T0600277455  
Clearwater Project No. CB018H

For: P&D 23<sup>rd</sup> Avenue Associates LLC  
(Formerly 23<sup>rd</sup> Avenue Partners)  
1125 Miller Avenue  
Oakland, California

Dear Mr. Wickham,

Clearwater Group is pleased to present this *Sub-Slab Excavation Report* (Report) for the P&D 23<sup>rd</sup> Avenue Associates LLC site at 1125 Miller Avenue, Oakland (**Figures 1 and 2**). This Report documents the removal of vent and supply lines and associated contaminated soil from underneath the dispenser room (**Figure 3**). The contaminated soil was removed in order to reduce the source of contaminant mass in soil under the 1125 Miller Avenue building. **Attachment 1** presents the direction from your office to perform this work, *Case File Review for Fuel Leak Case No. RO0000294 and GeoTracker Global ID T0600277455*).

The sub slab excavation was performed per regulatory directive in order to reduce the mass of contaminant liberating soil vapors and in preparation for a meeting between interested parties and the ACEH to discuss progress on this project. The meeting is scheduled for the 2<sup>nd</sup> week of November 2012.

**Permitting**

No permits were required for the excavation from the city of Oakland or the ACEH. The ACEH staff were notified of the upcoming work on September 10, 2012.



### **Underground Service Alert North Notification**

Prior to excavating, Underground Service Alert North (USAN) was notified of the planned excavation. USAN notified the utility companies with underground utilities at the site to mark their utilities before the excavation began. There were no utility conflicts.

### **Vent Pipe and Concrete Slab Removal and Pipe Tracing on October 11, 2012**

Prior to excavating the floor of the dispenser room, two vertical, exterior, tank vent pipes located along the northeast corner of the building (**Figure 3**) were sawed off near ground level. Upon probing, both vent pipes appeared to end at depth of 1.0 foot below ground surface (bgs), in a 90 degree elbow pointing north. One vent pipe held water, the other vent pipe was dry.

Staff from GeoTech Utility Locating (GeoTech), of El Cerrito, California, connected a pipe and cable tracer to the end of both cut-off vent pipes. He was not able to detect a signal to indicate that the pipes continued laterally underground away from the vent pipe location. He also scanned the exterior area of the building around the vent pipes with ground-penetrating radar (GPR), and did not observe evidence of piping or a utility trench. The vent pipes were disposed of at a local landfill.

### **Concrete Floor Removal**

Also on October 11, 2012, the dispenser room was emptied of the tenant's belongings, then the 3-inch to 4-inch thick concrete floor was saw cut with a rotary concrete saw. The saw cut was made approximately 6 inches away from the wall (**Figure 3**). The concrete was broken up with a jack hammer, removed from the dispenser room, and disposed of at a local landfill.

Staff from Geotech attached the pipe and cable tracer to the dispenser piping, which was exposed under the removed concrete. The dispenser piping consisted of a series of four 90 degree elbows (2-inch diameter). Geotech attached the tracer to the dispenser piping, but it did not give a tracer signal beyond the exposed piping. A ¾-inch diameter electrical conduit line was traced to outside of the dispenser room, to the south, toward Calcot Street (**Figure 3**). GeoTech searched the sidewalk of Calcot Street with the GPR to locate the end of the ¾ inch conduit pipe. No evidence of buried trenches was observed under the sidewalk. However the native soil is clay-rich and subsurface conditions identified in the excavation are not conducive to successful GPR surveying.

### **Soil Excavation**

Clearwater personnel hand excavated visually contaminated (dark) soil from the dispenser room on October 15, 2012. The fill soil beneath the dispenser room was a mixture of soil, rubble (gravel, rocks, and bricks) and broken pieces of concrete slabs to the excavated depth of approximately 2.5 feet bgs. Significant voids were observed underneath and on the sides of the concrete blocks and rubble. The excavation was guided by odor, sheen or oily coating on soil or debris, and dark staining. During the excavation, soil head-space readings were taken, with a photo-ionization detector to help guide the excavation. The head space readings were up to 10 parts per million. The excavation was stopped at a depth of approximately 2.5 feet bgs when it appeared that the majority of the dark stained soil had been removed. Three full 55-gallon barrels



of soil were removed from beneath the former dispenser area. The 2-inch diameter dispenser pipe was removed and the ¾” conduit was sawed off at the edge of the excavation. Photographs of the excavation are presented in **Attachment 2**. The excavated soil is being profiled for disposal and is temporarily stored on site in three labeled, DOT approved 55-gallon steel drums.

Five excavation confirmation soil samples (CS-1 through CS-5) were collected once the contaminated soil had been removed. The soil sample locations are shown on **Figure 3**, and **Table 1** presents the soil sample collection depths. The soil samples were labeled, stored in a chilled cooler with ice, and transported under Chain of Custody documentation to Kiff Analytical LLC (Kiff), in Davis, California.

The excavation was not filled, pending the laboratory analytical results of the confirmation soil sample analyses. The open excavation was secured by closing and locking the roll-up door opening into the dispenser room. There are no other openings into the dispenser room.

### **Soil Sample Analyses**

Kiff analyzed the excavation confirmation soil samples for total petroleum hydrocarbons (TPH) as diesel (TPH-d) by EPA method 8015/8020 (modified) and for TPH-gasoline; methyl tertiary butyl ether (MTBE); benzene, toluene, ethylbenzene, and total xylenes (BTEX); and volatile organic compounds (VOCs) by EPA method 8260B. Kiff is a State of California Department of Health Services-certified analytical laboratory.

### **Soil Sample Analytical Results**

**Table 1** presents the site’s cumulative soil sample analytical results. All of the samples contained TPH-d. The TPH-d concentrations ranged from 730 milligrams per kilogram (mg/kg) for sample CS-1 to 14,000 mg/kg for sample CS-2. All of the samples were below the detection limit of 1.0 mg/kg for TPH-g and 0.0050 mg/kg for the BTEX components and MTBE. Samples CS-1 and CS-3 contained a detectable concentration of the VOC 1,2,4-trimethylbenzene, at 0.072 mg/kg and 0.042 mg/kg respectively. **Attachment 3** presents Kiff Report Number 82952.

### **Soil Disposal**

Sample CS-6 Comp 3 Drums was analyzed for TPH-d by EPA Method 8015/8020 (modified) and for TPH-g, MTBE, BTEX and VOCs by EPA Method 8260B plus CAM 17 Metals by EPA Method 6010. Kiff was instructed to homogenize this sample prior to analysis. Integrated Waste Management Incorporated (IWM) has been contracted to dispose of the 3 drums of soil, based on the analytical results from sample CS-6 Comp 3 Drums. Following the initial analyses, IWM requested that the disposal sample be re-analyzed for SLTC lead and chrome.

### **Results**

The soil sample analytical results were plotted on **Figure 4**. The results indicate that soil contamination, primarily characterized as diesel, remains beneath the present excavation. The loose, fill soil, rubble, and concrete blocks beneath the concrete floor were observed to have voids. The combination of the dispenser slab hole and the voids within the fill beneath the



concrete floor created likely pathways for soil vapor migration. **Table 2** presents the Cumulative Soil Vapor Sample Analytical Results from previously collected samples.

Upon completion of the excavation Clearwater intends to fill the excavation with controlled density fill to the base of the concrete and replace the removed concrete floor with a poured concrete floor. The resultant floor within the dispenser room should provide an improved cap to soil vapors, compared with the conditions prior to beginning the sub-slab excavation.

### **Conclusions**

The purpose of excavating the contaminated soil was to reduce the diesel soil vapor exposure to the building tenants, via soil vapors migrating into the live-work building. The mass of contamination has been reduced by the excavation described in this report. Contaminated soil remains beneath the dispenser room. During the planned meeting the existing site conditions and the case closure requirements will be discussed.

### **REPORT LIMITATION**

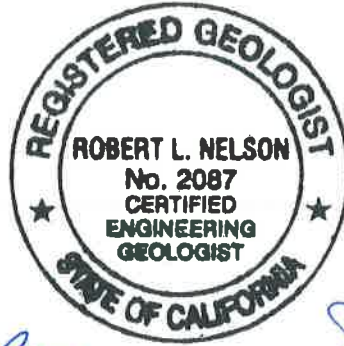
All work performed under this contract was directed by a licensed professional. The work was performed in accordance with generally accepted practices at the time the work was performed and completed in accordance with generally acceptable standards. It should be noted that during the course of normal business practices, Clearwater may purchase or use equipment, services, or products in which Clearwater has a professional or financial interest.


This report was prepared under the supervision of a State of California Professional Geologist. Statements, conclusions, and recommendations made in this report are based on information provided to Clearwater, observations of existing site conditions, our general knowledge of the site, limited testing of selected soil, groundwater, and soil vapor samples, and interpretations of a limited set of data. Clearwater cannot be held responsible for the accuracy of the analytical work performed by others.

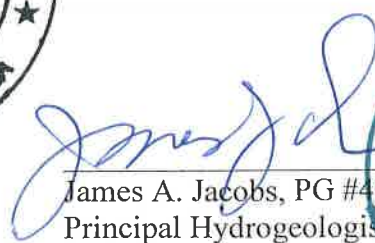
Information and interpretation presented herein are for the use of the client. Third parties should rely upon the information and interpretation contained in this document at their own risk. No other warranties, certifications, or representations, either expressed or implied, are made about the information supplied in this report. The service performed by Clearwater has been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area of the site.

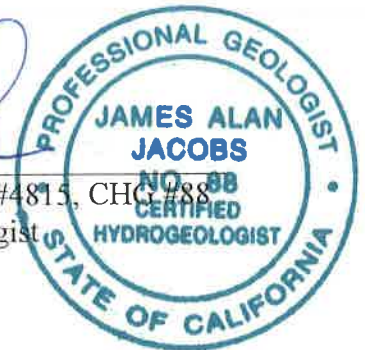
Please do not hesitate to contact Clearwater Group if you have any question, or concerns.

Sincerely,



  
Robert L. Nelson, PG #6270, CEG #2087  
Senior Geologist





James A. Jacobs, PG #4815, CHG #88  
Principal Hydrogeologist

  
Olivia Jacobs  
Chief Executive Officer

**Figures:**

- Figure 1 Site Vicinity Map
- Figure 2 Site Plan
- Figure 3 Confirmation Soil Sample Locations
- Figure 4 Confirmation Soil Sample Locations with Analytical Results

**Tables:**

- Table 1 Cumulative Soil Sample Analytical Results
- Table 2 Cumulative Soil Vapor Sample Analytical Results

**Attachments:**

- Attachment 1 Case File Review for Fuel Leak Case No. RO0000294 and GeoTracker Global ID T0600177455, Alameda County Department of Environmental Health, June 18, 2012
- Attachment 2 Photographs from Soil Excavation
- Attachment 3 Kiff Analytical LLC, Report Number 82952

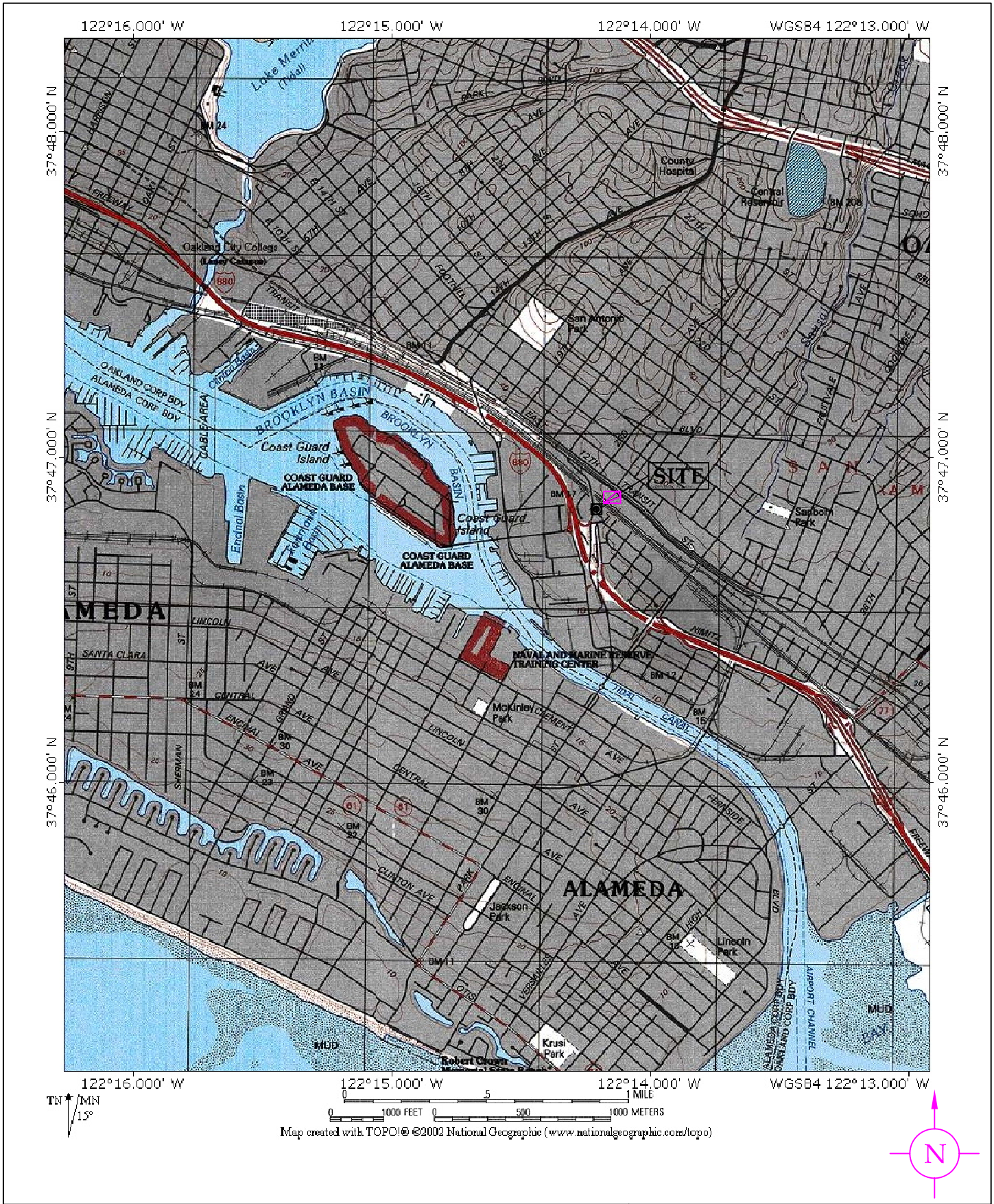


**Distribution:** Mr. John Protopappas  
Madison Park Financial Corporation  
155 Grand Avenue, Suite 1025  
Oakland, CA 94612

Alameda County Environmental Health Services  
(Sent via electronic upload to Geotracker website)

# FIGURES





**Site Vicinity Map**

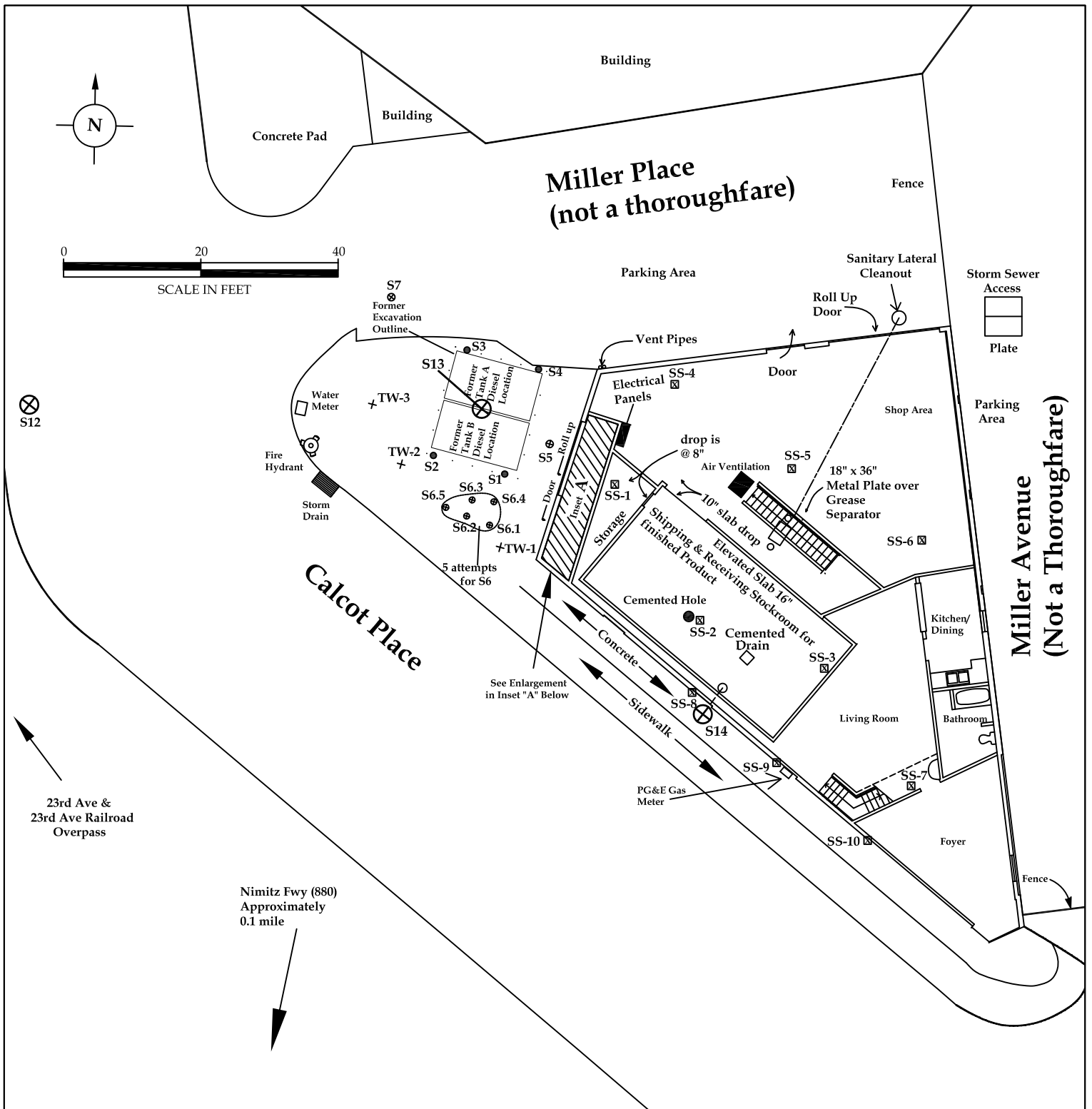
1125 Miller Avenue  
Oakland, California

**CLEARWATER GROUP**

Project No.  
CB018

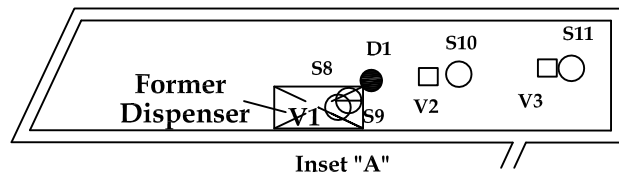
Figure Date  
9/05

Figure  
1



**LEGEND**

- ⊗ S12-S13 Soil Boring Locations (11/28/11)
- ⊗-⊙ S14 Slanted Soil Boring Location (11/28/11)
- ⊠ SS-1-SS-10 Sub-slab Vapor Location (06/17/10, 11/04/10) and 11/10/11)
- ⊕ S1-S4 Soil Boring Location (12/2/98)
- ⊕ S5-S8 Soil Boring Location (11/16/05)
- D1 Soil Boring Location (10/24/00)
- + TW-3 Temporary Well (10/24/00)
- S9-S11 Soil Boring Location (11/15/06)
- V1-V3 Soil Vapor Location (11/15/06)
- - - Excavation Outline



**Site Plan**

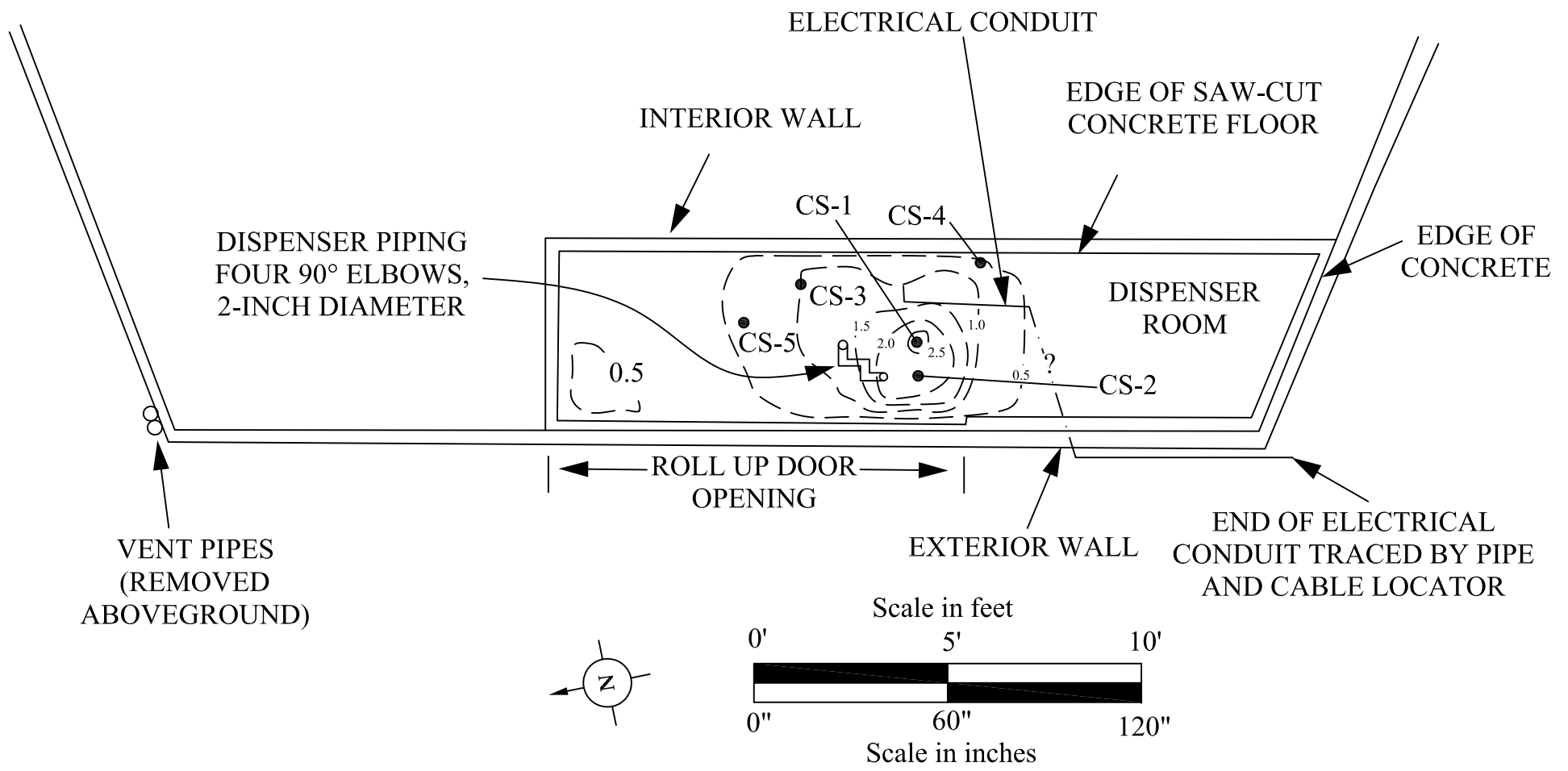
1125 Miller Avenue  
Oakland, California


**CLEARWATER GROUP**

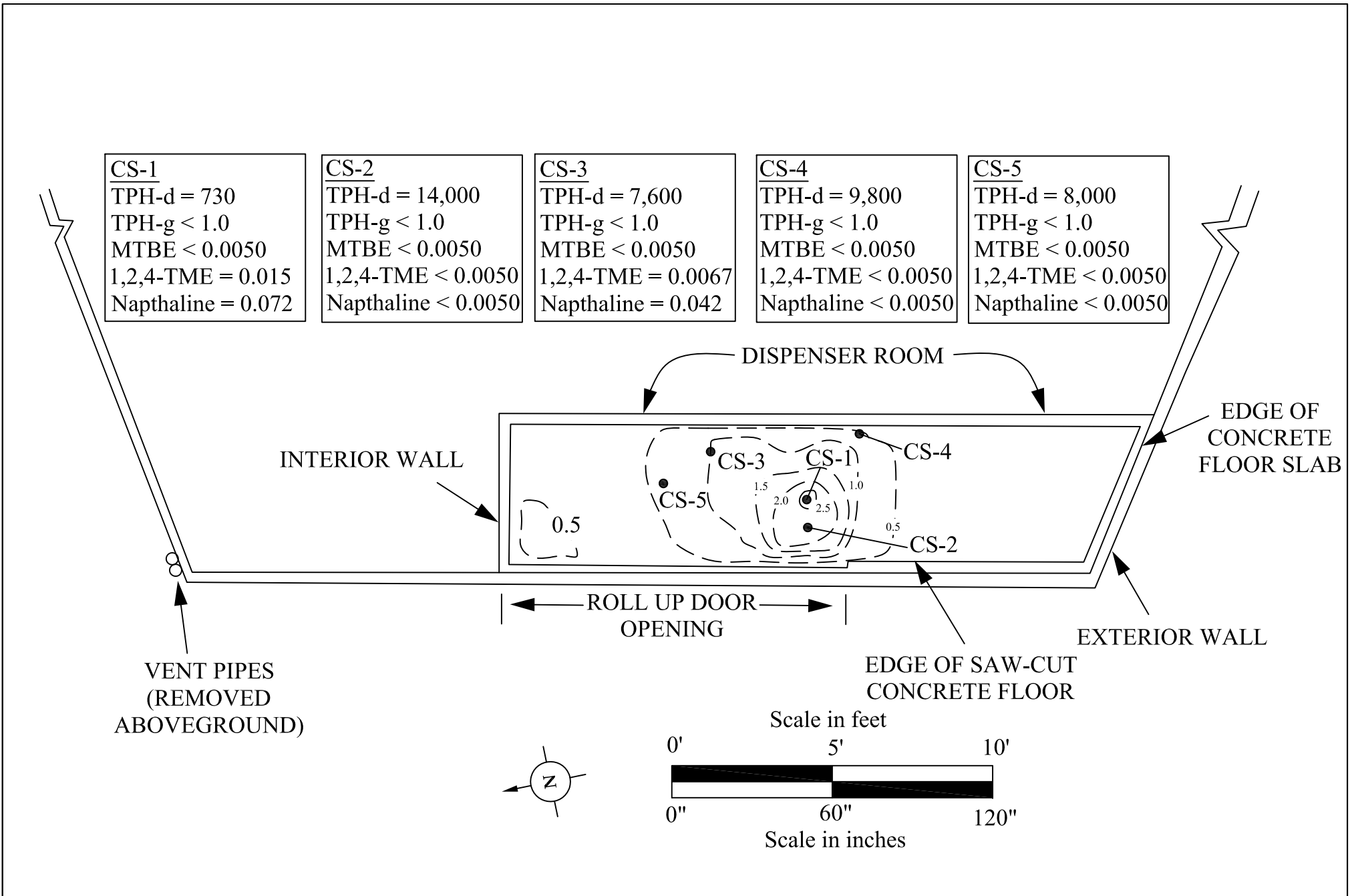
Project No.  
**CB018**

Figure Date  
**11/12**

Figure  
**2**



|   |  |  |  |                              |                             |                    |
|---|--|--|--|------------------------------|-----------------------------|--------------------|
| <b>LEGEND</b><br>● CS-2 Confirmation Soil Sample Location<br> 2.0 Depth of Excavation in feet |  | <b>Confirmation Soil Sample Locations</b><br>1125 Miller Avenue<br>Oakland, California |  | <b>CLEARWATER GROUP</b>      |                             |                    |
|   |  |  |  | Project No.<br><b>CB018H</b> | Figure Date<br><b>11/12</b> | Figure<br><b>3</b> |



|  |   |   |  |  |                              |                             |                    |
|--|---|---|--|--|------------------------------|-----------------------------|--------------------|
| <b>LEGEND</b><br>● CS-2 Confirmation Soil Sample Location<br>2.0 Depth of Excavation in feet | <b>CONCENTRATIONS OF:</b><br>TOTAL PETROLEUM HYDROCARBONS AS DIESEL (TPH-d),<br>TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (TPH-g),<br>METHYL TERTIARY-BUTYL ETHER (MTBE),<br>1,2,4-TRIMETHYLBENZENE (1,2,4-TMB), AND<br>NAPHTHALINE.<br>ANALYTICAL RESULTS REPORTED IN MILLIGRAMS PER KILOGRAM | <b>Confirmation Soil Sample Locations with Analytical Results</b> |  |  | <b>CLEARWATER GROUP</b>      |                             |                    |
|  |   | 1125 Miller Avenue<br>Oakland, California                         |  |  | Project No.<br><b>CB018H</b> | Figure Date<br><b>11/12</b> | Figure<br><b>4</b> |

# TABLES

**Table 1**  
**Cumulative Soil Sample Analytical Results**  
P & D 23rd Avenue Associates, LLC  
1125 Miller Avenue, Oakland, CA  
Clearwater Project No. CB018

| Soil Boring ID                                   | Sample ID         | Collection Depth (feet) | Sampling Date | TPH-d (mg/kg)       | TPH-g (mg/kg) | B (mg/kg)        | T (mg/kg)       | E (mg/kg)       | X (mg/kg)       | MTBE (mg/kg)    | 1,2,4-TMB (mg/kg)    | Napthalene (mg/kg)   |
|--|-------------------|-------------------------|---------------|---------------------|---------------|------------------|-----------------|-----------------|-----------------|-----------------|----------------------|----------------------|
| Shallow Soil ESL for Residential/ Commercial Use |                   |                         |               | 83                  | 83            | 0.044            | 2.9             | 2.3/ 3.3        | 2.3             | 0.023           | -                    | 1.3/ 2.8             |
| Deep Soil ESL for Residential/ Commercial Use    |                   |                         |               | 83                  | 83            | 0.044            | 2.9             | 3.3             | 2.3             | 0.023           | -                    | 3                    |
| <b>Low Threat Closure Thresholds -</b>           |                   |                         |               | --                  | --            | <b>1.9 (8.2)</b> | --              | <b>21 (89)</b>  | --              | --              | --                   | <b>9.7 (45)</b>      |
| <b>Residential <sup>A, B</sup></b>               |                   |                         |               | --                  | --            | <b>2.8 (12)</b>  | --              | <b>32 (134)</b> | --              | --              | --                   | <b>9.7 (45)</b>      |
|  |                   | <b>0-5 feet bgs</b>     |               |                     |               |                  |                 |                 |                 |                 |                      |                      |
|  |                   | <b>5-10 feet bgs</b>    |               |                     |               |                  |                 |                 |                 |                 |                      |                      |
| S1   | S1-9              | 9                       | 12/01/1998    | ND                  | NA            | ND               | ND              | ND              | ND              | ND              | NA                   | NA                   |
| S2   | S2-9              | 9                       | 12/01/1998    | 1,800               | NA            | ND               | ND              | ND              | 0.51            | ND              | NA                   | NA                   |
| S3   | S3-9              | 9                       | 12/01/1998    | ND                  | NA            | ND               | ND              | ND              | ND              | ND              | NA                   | NA                   |
| S4   | S4-9              | 9                       | 12/01/1998    | ND                  | NA            | ND               | ND              | ND              | ND              | ND              | NA                   | NA                   |
| TW2  | TW2 -16.5         | 16.5                    | 10/24/2000    | 4,200               | NA            | 1.4              | ND              | ND              | ND              | ND              | NA                   | NA                   |
| TW3  | TW3-17            | 17                      | 10/24/2000    | 2,700               | NA            | ND               | ND              | ND              | ND              | ND              | NA                   | NA                   |
| D1   | D1-3              | 3                       | 10/24/2000    | 3,400               | NA            | ND               | ND              | ND              | ND              | ND              | NA                   | NA                   |
| D1   | D1-8              | 8                       | 10/24/2000    | 34                  | NA            | ND               | ND              | ND              | ND              | ND              | NA                   | NA                   |
| S5   | S5-5              | 5                       | 11/16/2005    | 14 <sup>F</sup>     | NA            | <0.0050          | <0.0050         | <0.0050         | <0.0050         | NA <sup>D</sup> | NA                   | NA                   |
| S5   | S5-10             | 10                      | 11/16/2005    | 610                 | NA            | <0.0050          | <0.0050         | <0.0050         | <0.0050         | NA <sup>D</sup> | NA                   | NA                   |
| S5   | S5-15             | 15                      | 11/16/2005    | 620                 | NA            | <0.0050          | <0.0050         | <0.0050         | <0.0050         | NA <sup>D</sup> | NA                   | NA                   |
| S5   | S5-20             | 20                      | 11/16/2005    | 5.8                 | NA            | <0.0050          | <0.0050         | <0.0050         | <0.0050         | NA <sup>D</sup> | NA                   | NA                   |
| S6   | S6-6              | 6                       | 11/16/2005    | 1,800 <sup>F</sup>  | NA            | NA <sup>C</sup>  | NA <sup>C</sup> | NA <sup>C</sup> | NA <sup>C</sup> | NA <sup>D</sup> | NA                   | NA                   |
| S7   | S7-5              | 5                       | 11/16/2005    | 150 <sup>F</sup>    | NA            | <0.0050          | <0.0050         | <0.0050         | <0.0050         | NA <sup>D</sup> | NA                   | NA                   |
| S7   | S7-10             | 10                      | 11/16/2005    | 32 <sup>F</sup>     | NA            | <0.0050          | <0.0050         | <0.0050         | <0.0050         | NA <sup>D</sup> | NA                   | NA                   |
| S7   | S7-15             | 15                      | 11/16/2005    | 1,200               | NA            | <0.0050          | <0.0050         | <0.0050         | <0.0050         | NA <sup>D</sup> | NA                   | NA                   |
| S7   | S7-20             | 20                      | 11/16/2005    | 300                 | NA            | <0.0050          | <0.0050         | <0.0050         | <0.0050         | NA <sup>D</sup> | NA                   | NA                   |
| S8   | S8-4              | 4                       | 11/16/2005    | 92                  | NA            | <0.0050          | <0.0050         | <0.0050         | <0.0050         | NA <sup>D</sup> | NA                   | NA                   |
| S9   | S9.4.0            | 4                       | 11/15/2006    | 7,500               | NA            | <0.0050          | <0.0050         | <0.0050         | <0.0050         | NA <sup>D</sup> | NA                   | NA                   |
| S10  | S10.4.0           | 4                       | 11/15/2006    | 930                 | NA            | <0.0050          | <0.0050         | <0.0050         | <0.0050         | NA <sup>D</sup> | NA                   | NA                   |
| S11  | S11.4.0           | 4                       | 11/15/2006    | 21                  | NA            | <0.0050          | <0.0050         | <0.0050         | <0.0050         | NA <sup>D</sup> | NA                   | NA                   |
| S12  | B12-18            | 18                      | 11/28/2011    | 8.6 <sup>E</sup>    | <1.0          | <0.0050          | <0.0050         | <0.0050         | <0.0050         | NA <sup>D</sup> | NA                   | NA                   |
| S13  | B13-11            | 11                      | 11/28/2011    | 740                 | 7.0           | <0.0050          | <0.0050         | <0.0050         | <0.0050         | NA <sup>D</sup> | NA                   | NA                   |
| S13  | B13-14            | 14                      | 11/28/2011    | 1,900               | 65            | <0.025           | <0.025          | <0.025          | <0.025          | NA <sup>D</sup> | NA                   | NA                   |
| S13  | B13-19            | 19                      | 11/28/2011    | 4.4 <sup>E</sup>    | <1.0          | <0.0050          | <0.0050         | <0.0050         | <0.0050         | NA <sup>D</sup> | NA                   | NA                   |
| S13  | B13-23.5          | 23.5                    | 11/28/2011    | <1.0                | <1.0          | <0.0050          | <0.0050         | <0.0050         | <0.0050         | NA <sup>D</sup> | NA                   | NA                   |
| S14  | B14-19            | 19                      | 11/28/2011    | 1.0 <sup>E</sup>    | <1.0          | <0.0050          | <0.0050         | <0.0050         | <0.0050         | NA <sup>D</sup> | NA                   | NA                   |
| CS-1   | CS-1              | 2.5                     | 10/16/2012    | 730 <sup>H</sup>    | <1.0          | <0.0050          | <0.0050         | <0.0050         | <0.0050         | <0.0050         | 0.015 <sup>I</sup>   | 0.072 <sup>H</sup>   |
| CS-2   | CS-2              | 2                       | 10/16/2012    | 14,000 <sup>H</sup> | <1.0          | <0.0050          | <0.0050         | <0.0050         | <0.0050         | <0.0050         | <0.0050 <sup>I</sup> | <0.0050 <sup>H</sup> |
| CS-3   | CS-3              | 1                       | 10/16/2012    | 7,600 <sup>H</sup>  | <1.0          | <0.0050          | <0.0050         | <0.0050         | <0.0050         | <0.0050         | 0.0067 <sup>I</sup>  | 0.042 <sup>H</sup>   |
| CS-4   | CS-4              | 0.5                     | 10/16/2012    | 9,800 <sup>H</sup>  | <1.0          | <0.0050          | <0.0050         | <0.0050         | <0.0050         | <0.0050         | <0.0050 <sup>I</sup> | <0.0050 <sup>H</sup> |
| CS-5   | CS-5              | 0.5                     | 10/16/2012    | 8,000 <sup>H</sup>  | <1.0          | <0.0050          | <0.0050         | <0.0050         | <0.0050         | <0.0050         | <0.0050 <sup>I</sup> | <0.0050 <sup>H</sup> |
| CS-6   | CS-6-Comp 3 Drums | 0 <sup>G</sup>          | 10/16/2012    | 7,400 <sup>H</sup>  | <1.0          | <0.0050          | <0.0050         | <0.0050         | <0.0050         | <0.0050         | <0.0050 <sup>I</sup> | 0.0074 <sup>H</sup>  |

**Notes:**  
TPH-d Total petroleum hydrocarbons as diesel using EPA Method 8015/8020 (modified)  
TPH-g Total petroleum hydrocarbons as gasoline using EPA Method 8260B  
BTEX Benzene, Toluene, Ethylbenzene, Xylenes using EPA Method 8015/8020 (modified)  
MTBE Methyl tertiary-butyl ether using EPA Method 8260  
1,2,4-TMB 1,2,4-Trimethylbenzene using EPA Method 8260  
mg/kg Milligrams per kilogram (approximately equal to parts per million)  
ND Not detected above laboratory reporting limits  
NA Not analyzed  
<0.0050 Not detected in concentrations exceeding the indicated laboratory reporting limit  
bgs Below ground surface  
**bold** Contamination in the sample exceeded Low Threat Closure thresholds.  
-- Thresholds not listed in Low Threat Closure guidelines.  
Footnote A Low Threat Closure Thresholds are residential (commercial values in parentheses) from Table 1 (page 8) of *Water Quality Control Policy for Low-Threat Underground Storage Tank Case Closure*, August 17, 2012.  
Footnote B In order to qualify for Low Threat Closure, a site must meet all of the following requirements: a. The unauthorized release is located within the service area of a public water system; b. The unauthorized release consists only of petroleum; c. The unauthorized ("primary") release from the UST system has been stopped; d. Free product has been removed to the maximum extent practicable; e. A conceptual site model that assesses the nature, extent, and mobility of the release has been developed; f. Secondary source removal has been addressed removed to the extent practicable; g. Soil or groundwater has been tested for methyl tertiary-butyl ether (MTBE) and results reported in accordance with Health and Safety Code section 25296.15; and h. Nuisance as defined by Water Code section 13050 does not exist at the site. The Site does not meet assumption "e" or assumption "f".  
Footnote C Analysis not performed due to lack of sample volume.  
Footnote D Analysis of MTBE not required by ACEH.  
Footnote E Laboratory Notes: Discrete peaks in Diesel range, atypical for Diesel Fuel.  
Footnote F Concentration reported is atypical for diesel, these hydrocarbons have a higher boiling point  
Footnote G Composite sample collected from disposal materials.  
Footnote H Laboratory Note: Matrix Spike/Matrix Spike Duplicate results were affected by the analyte concentrations already present in the un-spiked sample.  
Footnote I Laboratory Note: Matrix Spike/Matrix Spike Duplicate results were outside of control limits. This may indicate a bias for the sample that was spiked. Since LCS recoveries were within control limits, no data are flagged.  
Analytical results reported in italics are from the December 31, 2001 *Subsurface Exploration Report* prepared by Environmental Bio-Systems.



**TABLE 2**  
**Soil Vapor Sample Analytical Results - Results Compared to Low-Threat UST Case Closure Policy Thresholds With No Bioattenuation Zone<sup>J</sup>**  
P & D 23rd Avenue Associates LLC  
1125 Miller Avenue, Oakland, CA  
Clearwater Project No. CB018H

| Sample ID                             | Sampling Date | Analytical Method | TPH-d                | Naphthalene          | 1-Methyl naphthalene | 2-Methyl naphthalene | TPH-g                | B                    | T                    | E                    | X <sup>E</sup>       | MTBE                 | TBA                  | ETBE<br>TAME<br>DIPE | 2-Propanol           | Propane              | 1,3,5-Trimethylbenzene | 1,2,4-Trimethylbenzene | Propyl benzene       | 4-Ethyl toluene      | Ethanol              | Tetrahydrofuran      | Tetrachloroethene    | Methylene Chloride   | Hexane               | Cyclohexane          | Cumene               | Acetone              | Chloroform           | Freon 11             | Freon 12             | Freon 113 | Source Lab Rpt # |  |
|---------------------------------------|---------------|-------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|------------------------|------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------|------------------|--|
| Unit of Measurement                   |               |                   | (µg/m <sup>3</sup> ) | (µg/m <sup>3</sup> ) | (µg/m <sup>3</sup> ) | (µg/m <sup>3</sup> ) | (µg/m <sup>3</sup> ) | (µg/m <sup>3</sup> ) | (µg/m <sup>3</sup> ) | (µg/m <sup>3</sup> ) | (µg/m <sup>3</sup> ) | (µg/m <sup>3</sup> ) | (µg/m <sup>3</sup> ) | (µg/m <sup>3</sup> ) | (µg/m <sup>3</sup> ) | (µg/m <sup>3</sup> ) | (µg/m <sup>3</sup> )   | (µg/m <sup>3</sup> )   | (µg/m <sup>3</sup> ) | (µg/m <sup>3</sup> ) | (µg/m <sup>3</sup> ) | (µg/m <sup>3</sup> ) | (µg/m <sup>3</sup> ) | (µg/m <sup>3</sup> ) | (µg/m <sup>3</sup> ) | (µg/m <sup>3</sup> ) | (µg/m <sup>3</sup> ) | (µg/m <sup>3</sup> ) | (µg/m <sup>3</sup> ) | (µg/m <sup>3</sup> ) | (µg/m <sup>3</sup> ) |           |                  |  |
| <b>Low-Threat Soil Gas Criteria -</b> |               |                   |                      | <b>93,000</b>        |                      |                      |                      | <b>85,000</b>        |                      | <b>1,100,000</b>     |                      |                      |                      |                      |                      |                      |                        |                        |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |           |                  |  |
| CHHSLs, Commercial <sup>I</sup>       |               |                   | NE                   | 32                   | NE                   | NE                   | NE                   | 36                   | 140,000              | 420                  | 320,000              | 4000                 | NE                   | NE                   | NE                   | NE                   | NE                     | NE                     | NE                   | NE                   | NE                   | NE                   | 180                  | NE                   | NE                   | NE                   | NE                   | NE                   | NE                   | NE                   | NE                   | NE        |                  |  |
| ESLs, Lowest Residential <sup>A</sup> |               |                   | 10,000               | 72                   | NE                   | NE                   | 10,000               | 84                   | 63,000               | 980                  | 21,000               | 9,400                | NE                   | NE                   | NE                   | NE                   | NE                     | NE                     | NE                   | NE                   | NE                   | NE                   | NE                   | 5,200                | NE                   | NE                   | NE                   | NE                   | 660,000              | 460                  | NE                   | NE        | NE               |  |

(µg/m<sup>3</sup>) Micrograms per cubic meter  
TO-15 Samples analyzed using modified EPA method TO-15 for soil vapor collected in specially prepared canisters and analyzed by gas chromatography/mass  
TO-17 Samples analyzed using modified EPA method TO-17 for soil vapor samples collected using multi-bed sorbent tubes and analyzed by GC/MS.  
NIOSH 1550 Alternative analytical method used for saturated sorbent tubes using chemical extraction (carbon disulfide) and analyzed using gas chromatography/flame  
ASTM D-1945 Sample analyzed using modified ASTM D-1945  
TPH-d Total petroleum hydrocarbons detected within the diesel range of C10-C28  
TPH-g Total petroleum hydrocarbons detected within the gasoline range of C6-C12  
B Benzene  
T Toluene  
E Ethylbenzene  
X Total Xylenes  
MTBE Methyl-t-butyl ether  
ETBE Ethyl-t-butyl ether  
TAME Tert-amyl methyl ether  
DIPE Diisopropyl ether  
TBA tert-Butanol  
2-Propanol 2-Propanol is also known as Isopropyl alcohol (IPA)  
-- Not Analyzed  
<# Contamination in the sample was below method reporting limits.  
**bold** Contamination in the sample exceeded environmental screening limits.  
NE Standard Not Established  
(ID) Identification  
CHHSL California Human Health Screening Level

Footnote A Environmental Screening Levels (ESLs), Lowest Residential, from *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Revised by May 2008*, Table E-2  
Footnote B TPH-d, Naphthalene, 1-Methylnaphthalene, 2-Methylnaphthalene by Modified TO-17 VI; TPH-g, B, T, E, X, MTBE, TBA, ETBE, TAME, DIPE by Modified TO-15.  
Footnote C BTEX, Naphthalene, Oxygenates and TPH-g by EPA method 8260B; TPH-d by EPA method 8015m  
Footnote D Analyte is listed as isopropyl ether, not diisopropyl ether.  
Footnote E Xylene is reported as the sum of m,p-Xylene and o-Xylene  
Footnote F Laboratory notes: TPH gasoline was detected at a concentration less than 5 times the reporting limit. Because the preceding sample contained high concentration of TPH-g, the result for TPH-g in this sample may be biased high for possible carry-over. A re-analysis of this sample was not possible due to insufficient sample volume.  
Footnote G Laboratory Notes: The TPH pattern did not resemble that of diesel fuel. The hydrocarbons were distributed in the lighter carbon range of diesel.  
Footnote H Laboratory Notes: Dilution was performed on this sample due to the presence of high level target species.  
Footnote I CHHSLs - *California Human Health Screening Levels, Revised September 2010*. Table 3 Soil Gas Screening Numbers for Volatile Chemicals Below Buildings Constructed Without Engineered  
Footnote J Bio-attenuation zone as defined by the Water Control Policy for the Low-Threat Underground Storage Tank Closure .

V2.2 Summa Vapor sample collected at 2 feet below ground surface using 6-liter Summa canister at a flow rate of 200 mL per minute for 30 minutes.  
V2.4 Summa Vapor sample collected at 4 feet below ground surface using 6-liter Summa canister at a flow rate of 200 mL per minute for 30 minutes.  
V1.4 1L Vapor sample collected at 4 feet below ground surface using TO-17 Carbotrap 300 tube at a flow rate of 66.7 mL per minute for 15 minutes. Sample was analyzed using modified EPA method TO-17.  
V1.4 4L Vapor sample collected at 4 feet below ground surface using TO-17 Carbotrap 300 tube at a flow rate of 133.3 mL per minute for 30 minutes.  
>## (S) Sample results are flagged as greater than saturated peak for analyte.  
1L Sample flow rate equal to 66.7 milliliters per minute for 15 minutes.  
4L Sample flow rate equal to 133.3 milliliters per minute for 30 minutes.



# ATTACHMENTS

# ATTACHMENT 1



ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

June 18, 2012

Mr. John Protopappas  
P&D 23<sup>rd</sup> Avenue Associates LLC  
P.O. Box 687  
Oakland, CA 94604  
(Sent via E-mail to: [John@MPFCorp.com](mailto:John@MPFCorp.com))

Subject: Case File Review for Fuel Leak Case No. RO0000294 and GeoTracker Global ID T0600177455, 23<sup>rd</sup> Avenue Partners, 1125 Miller Avenue, Oakland, CA 94601

Dear Mr. Protopappas:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site including the most recently submitted documents entitled, "*Soil and Groundwater Investigation Results*," and "*Sub-Slab Vapor Investigation Report*." Both reports were prepared on your behalf by Clearwater Group and both reports are dated February 29, 2012.

The two reports present results from investigations which were proposed in a document entitled, "*Revised Workplan*," dated January 24, 2011 (Work Plan). The Work Plan included several tasks that were discussed during a meeting conducted on January 19, 2011 between Mr. John Protopappas of Madison Park Financial Corporation, James Jacobs of Clearwater Group, Erik Lervaag of Clearwater Group, Olivia Jacobs of Clearwater Group, and Jerry Wickham of ACEH.

Based on results of the investigation, the "*Soil and Groundwater Investigation Results*," report recommends an additional scope of work that includes ten soil borings for lateral and vertical definition of diesel impacts. Based on our review of the reports, it appears that two of the proposed tasks in the January 24, 2011 Work Plan were not implemented. These items are also discussed in the technical comments below. We suggest that you arrange a meeting with ACEH to define the remaining tasks necessary to complete this case. Alternately, you may submit a Work Plan that addresses the technical comments below.

#### **TECHNICAL COMMENTS**

1. **Lateral and Vertical Delineation of TPH in Soil and Groundwater.** The "*Soil and Groundwater Investigation Results*," report recommends an additional ten soil borings for lateral and vertical definition of diesel impacts. Although the lateral extent of contamination has not been fully defined, the proposed scope of work may be greater than is necessary. Specifically, the proposed scope of work includes several borings in the cross gradient direction but limited downgradient delineation due to constraints posed by the 23<sup>rd</sup> Avenue overpass. We suggest that a reduced scope of work be discussed with ACEH prior to Work Plan submittal.

Mr. John Protopappas  
RO000294  
June 18, 2012  
Page 2

2. **Sub-slab Vapor Samples.** One of the site investigation objectives discussed during our January 19, 2011 meeting was to assess whether chlorinated solvents posed a potential risk for vapor intrusion to indoor air. However, the sub-slab vapor samples appear to have been analyzed only for total petroleum hydrocarbons and fuel constituents using a modified EPA Method TO-15. Sampling of the sub-slab vapor probes with analysis for chlorinated solvents is necessary to fully evaluate the potential for vapor intrusion to indoor air.
3. **Removal of Product Lines and Vent Lines.** One of the remaining tasks included in the January 24, 2011 Work Plan was the removal of diesel supply and return piping and vent pipes to remove potential conduits to the former tank pit. This task does not appear to have been completed.

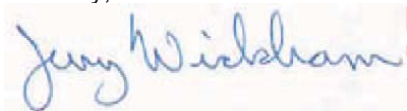
### **TECHNICAL REPORT REQUEST**

Please submit technical reports to Alameda County Environmental Health (Attention: Jerry Wickham), according to the following schedule:

- **August 28, 2012** – Work Plan

If you have any questions, please call me at (510) 567-6791 or send me an electronic mail message at [jerry.wickham@acgov.org](mailto:jerry.wickham@acgov.org).

Sincerely,



Digitally signed by Jerry Wickham  
DN: cn=Jerry Wickham, o=Environmental Health,  
ou=Alameda County, email=jerry.wickham@acgov.org,  
c=US  
Date: 2012.06.19 09:54:00 -07'00'

Jerry Wickham, California PG 3766, CEG 1177, and CHG 297  
Senior Hazardous Materials Specialist

Attachment: Responsible Party(ies) Legal Requirements/Obligations

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032 2032 (*Sent via E-mail to: [lgriffin@oaklandnet.com](mailto:lgriffin@oaklandnet.com)*)

Erik Lervaag, Clearwater Group, 229 Tewksbury Avenue, Pt. Richmond, CA 94801 (*Sent via E-mail to: [ELervaag@clearwatergroup.com](mailto:ELervaag@clearwatergroup.com)*)

Olivia Jacobs, Clearwater Group, 229 Tewksbury Avenue, Pt. Richmond, CA 94801 (*Sent via E-mail to: [OJacobs@clearwatergroup.com](mailto:OJacobs@clearwatergroup.com)*)

James Jacobs, Clearwater Group, 229 Tewksbury Avenue, Pt. Richmond, CA 94801 (*Sent via E-mail to: [augerpro@sbcglobal.net](mailto:augerpro@sbcglobal.net)*)

Mr. John Protopappas  
RO000294  
June 18, 2012  
Page 3

Donna Drogos, ACEH (*Sent via E-mail to: [donna.drogos@acgov.org](mailto:donna.drogos@acgov.org)*)  
Jerry Wickham, ACEH (*Sent via E-mail to: [jerry.wickham@acgov.org](mailto:jerry.wickham@acgov.org)*)

GeoTracker, File

## Attachment 1

### Responsible Party(ies) Legal Requirements / Obligations

#### REPORT REQUESTS

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

#### ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please visit the SWRCB website for more information on these requirements ([http://www.waterboards.ca.gov/water\\_issues/programs/ust/electronic\\_submittal/](http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/)).

#### PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

#### PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

#### UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

#### AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

|   |  |
|---|--|
| <b>Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)</b> | <b>REVISION DATE:</b> July 20, 2010  |
|   | <b>ISSUE DATE:</b> July 5, 2005  |
|   | <b>PREVIOUS REVISIONS:</b> October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010 |
| <b>SECTION:</b> Miscellaneous Administrative Topics & Procedures              | <b>SUBJECT:</b> Electronic Report Upload (ftp) Instructions                                  |

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

## REQUIREMENTS

- **Please do not submit reports as attachments to electronic mail.**
- Entire report including cover letter must be submitted to the ftp site as a **single portable document format (PDF) with no password protection.**
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- **Signature pages and perjury statements must be included and have either original or electronic signature.**
- **Do not password protect the document.** Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted.**
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:

RO#\_Report Name\_Year-Month-Date (e.g., RO#5555\_WorkPlan\_2005-06-14)

## Submission Instructions

- 1) Obtain User Name and Password
  - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
    - i) Send an e-mail to [deh.loptoxic@acgov.org](mailto:deh.loptoxic@acgov.org)
  - b) In the subject line of your request, be sure to include "**ftp PASSWORD REQUEST**" and in the body of your request, include the **Contact Information, Site Addresses,** and the **Case Numbers (RO# available in Geotracker) you will be posting for.**
- 2) Upload Files to the ftp Site
  - a) Using Internet Explorer (IE4+), go to <ftp://alcoftp1.acgov.org>
    - (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
  - b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
  - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
  - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
  - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
  - a) Send email to [deh.loptoxic@acgov.org](mailto:deh.loptoxic@acgov.org) notify us that you have placed a report on our ftp site.
  - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
  - c) The subject line of the e-mail must start with the RO# followed by **Report Upload.** (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
  - d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

# ATTACHMENT 2





Pit after (about 50%) some digging



Soil staining beneath the electrical line





CS-1 at bottom of pit



CS-2 – south wall of pit



CS-3 – north wall of pit



CS-4 – under electrical pipe



CS-5 – north of dispenser – shallow sample



Three drums of soil left on site

# ATTACHMENT 3

## Laboratory Results

Gavin Fisco  
Clearwater Group, Inc.  
229 Tewksbury Avenue  
Point Richmond, CA 94801

Subject : 6 Soil Samples  
Project Name : P&D 23rd Ave. Partners  
Project Number : CB018H  
P.O. Number : NA

Dear Mr. Fisco,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC and TNI 2009 standards. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the National Environmental Laboratory Accreditation Program (NELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Troy Turpen

Subject : 6 Soil Samples  
Project Name : P&D 23rd Ave. Partners  
Project Number : CB018H  
P.O. Number : NA

## Case Narrative

Page 1 of 2

All soil samples were reported on a total weight (wet weight) basis.

The Method Reporting Limit for 1,1,2,2-Tetrachloroethane has been increased due to the presence of an interfering compound for sample CS-6-Comp 3 Drums.

The Method Reporting Limit for 1,2,3-Trichloropropane has been increased due to the presence of an interfering compound for samples CS-1 and CS-3.

The Method Reporting Limit for Bromobenzene has been increased due to the presence of an interfering compound for sample CS-6-Comp 3 Drums.

The Method Reporting Limit for 1,2,4-Trichlorobenzene has been increased due to the presence of an interfering compound for samples CS-1, CS-3 and CS-6-Comp 3 Drums.

The Method Reporting Limit for 1,2,3-Trichlorobenzene has been increased due to the presence of an interfering compound for samples CS-1, CS-3 and CS-6-Comp 3 Drums.

Matrix Spike/Matrix Spike Duplicate results associated with sample CS-6-Comp 3 Drums for the analyte Mercury were outside of control limits. This may indicate a bias for the sample that was spiked. Since the LCS recoveries were within control limits, no data are flagged.

Matrix Spike/Matrix Spike Duplicate results associated with sample CS-6-Comp 3 Drums for the analytes Antimony and Barium were outside of control limits. This may indicate a bias for the sample that was spiked. Since the LCS recoveries were within control limits, no data are flagged.

Matrix Spike/Matrix Spike Duplicate results associated with samples CS-1, CS-2, CS-3, CS-4, CS-5, and CS-6-Comp 3 Drums for the analyte TPH as Diesel were affected by the analyte concentrations already present in the un-spiked sample.

Matrix Spike/Matrix Spike Duplicate results associated with samples CS-2, CS-4, and CS-5 for the analytes 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,4-Trimethylbenzene, Hexachlorobutadiene, n-butylbenzene, p-isopropyltoluene, sec-butylbenzene, and tert-butylbenzene were outside of control limits. This may indicate a bias for the sample that was spiked. Since the LCS recoveries were within control limits, no data are flagged.

Subject : 6 Soil Samples  
Project Name : P&D 23rd Ave. Partners  
Project Number : CB018H  
P.O. Number : NA

## Case Narrative

Page 2 of 2

Matrix Spike/Matrix Spike Duplicate results associated with samples CS-2, CS-4, and CS-5 for the analyte Naphthalene were affected by the analyte concentrations already present in the un-spiked sample. Matrix Spike/Matrix Spike Duplicate results associated with samples CS-1, CS-3, and CS-6-Comp 3 Drums for the analytes 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, 1,4-Dichlorobenzene, 2+4-Chlorotoluene, Bromobenzene, Hexachlorobutadiene, Isopropyl benzene, n-butylbenzene, n-propylbenzene, p-isopropyltoluene, sec-butylbenzene, and tert-butylbenzene were outside of control limits. This may indicate a bias for the sample that was spiked. Since the LCS recoveries were within control limits, no data are flagged.

Matrix Spike/Matrix Spike Duplicate results associated with samples CS-1, CS-3, and CS-6-Comp 3 Drums for the analyte Naphthalene were affected by the analyte concentrations already present in the un-spiked sample.

Project Name : **P&D 23rd Ave. Partners**

Project Number : **CB018H**

Sample : **CS-1**

Matrix : Soil

Lab Number : 82952-01

Sample Date :10/16/2012

| Parameter                     | Measured Value | Method Reporting Limit | Units      | Analysis Method | Date/Time Analyzed |
|-------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| <b>TPH as Diesel</b>          | <b>730</b>     | 1.0                    | mg/Kg      | M EPA 8015      | 10/22/12 13:07     |
| Octacosane (Diesel Surrogate) | 128            |                        | % Recovery | M EPA 8015      | 10/22/12 13:07     |

Sample : **CS-2**

Matrix : Soil

Lab Number : 82952-02

Sample Date :10/16/2012

| Parameter                     | Measured Value | Method Reporting Limit | Units      | Analysis Method | Date/Time Analyzed |
|-------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| <b>TPH as Diesel</b>          | <b>14000</b>   | 100                    | mg/Kg      | M EPA 8015      | 10/22/12 14:51     |
| Octacosane (Diesel Surrogate) | Diluted Out    |                        | % Recovery | M EPA 8015      | 10/22/12 14:51     |

Sample : **CS-3**

Matrix : Soil

Lab Number : 82952-03

Sample Date :10/16/2012

| Parameter                     | Measured Value | Method Reporting Limit | Units      | Analysis Method | Date/Time Analyzed |
|-------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| <b>TPH as Diesel</b>          | <b>7600</b>    | 100                    | mg/Kg      | M EPA 8015      | 10/22/12 14:16     |
| Octacosane (Diesel Surrogate) | Diluted Out    |                        | % Recovery | M EPA 8015      | 10/22/12 14:16     |

Project Name : **P&D 23rd Ave. Partners**

Project Number : **CB018H**

Sample : **CS-4**

Matrix : Soil

Lab Number : 82952-04

Sample Date :10/16/2012

| Parameter                     | Measured Value | Method Reporting Limit | Units      | Analysis Method | Date/Time Analyzed |
|-------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| <b>TPH as Diesel</b>          | <b>9800</b>    | 50                     | mg/Kg      | M EPA 8015      | 10/22/12 17:46     |
| Octacosane (Diesel Surrogate) | Diluted Out    |                        | % Recovery | M EPA 8015      | 10/22/12 17:46     |

Sample : **CS-5**

Matrix : Soil

Lab Number : 82952-05

Sample Date :10/16/2012

| Parameter                     | Measured Value | Method Reporting Limit | Units      | Analysis Method | Date/Time Analyzed |
|-------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| <b>TPH as Diesel</b>          | <b>8000</b>    | 20                     | mg/Kg      | M EPA 8015      | 10/22/12 15:26     |
| Octacosane (Diesel Surrogate) | Diluted Out    |                        | % Recovery | M EPA 8015      | 10/22/12 15:26     |

Sample : **CS-6-Comp 3 Drums**

Matrix : Soil

Lab Number : 82952-06

Sample Date :10/16/2012

| Parameter                     | Measured Value | Method Reporting Limit | Units      | Analysis Method | Date/Time Analyzed |
|-------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| <b>TPH as Diesel</b>          | <b>7400</b>    | 20                     | mg/Kg      | M EPA 8015      | 10/22/12 13:42     |
| Octacosane (Diesel Surrogate) | Diluted Out    |                        | % Recovery | M EPA 8015      | 10/22/12 13:42     |



Sample : CS-1

Project Name : P&D 23rd Ave. Partners

Project Number : CB018H

Lab Number : 82952-01

Matrix : Soil

Sample Date :10/16/2012

Analysis Method: EPA 8260B

| Parameter                   | Measured Value | Method Reporting Limit | Units | Date/Time Analyzed |
|-----------------------------|----------------|------------------------|-------|--------------------|
| Methyl-t-butyl ether (MTBE) | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 01:34     |
| TPH as Gasoline             | < 1.0          | 1.0                    | mg/Kg | 10/20/12 01:34     |
| Dichlorodifluoromethane     | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 12:29     |
| Chloromethane               | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 01:34     |
| Vinyl Chloride              | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 12:29     |
| Bromomethane                | < 0.020        | 0.020                  | mg/Kg | 10/20/12 01:34     |
| Chloroethane                | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 01:34     |
| Trichlorofluoromethane      | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 01:34     |
| 1,1-Dichloroethene          | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 01:34     |
| Methylene Chloride          | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 01:34     |
| trans-1,2-Dichloroethene    | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 01:34     |
| 1,1-Dichloroethane          | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 01:34     |
| 2,2-Dichloropropane         | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 01:34     |
| cis-1,2-Dichloroethene      | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 01:34     |
| Chloroform                  | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 01:34     |
| Bromochloromethane          | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 01:34     |
| 1,1,1-Trichloroethane       | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 01:34     |
| 1,1-Dichloropropene         | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 01:34     |
| 1,2-Dichloroethane          | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 01:34     |
| Carbon Tetrachloride        | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 01:34     |
| Benzene                     | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 01:34     |
| Trichloroethene             | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 01:34     |
| 1,2-Dichloropropane         | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 01:34     |
| Bromodichloromethane        | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 01:34     |
| Dibromomethane              | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 01:34     |
| cis-1,3-Dichloropropene     | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 01:34     |
| Toluene                     | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 01:34     |
| trans-1,3-Dichloropropene   | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 01:34     |
| 1,1,2-Trichloroethane       | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 01:34     |
| 1,3-Dichloropropane         | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 01:34     |
| Tetrachloroethene           | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 01:34     |
| Dibromochloromethane        | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 01:34     |
| 1,2-Dibromoethane           | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 01:34     |
| Chlorobenzene               | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 01:34     |

Sample : CS-1

Project Name : P&D 23rd Ave. Partners

Project Number : CB018H

Lab Number : 82952-01

Matrix : Soil

Sample Date :10/16/2012

Analysis Method: EPA 8260B

| Parameter                     | Measured Value | Method Reporting Limit | Units      | Date/Time Analyzed |
|-------------------------------|----------------|------------------------|------------|--------------------|
| 1,1,1,2-Tetrachloroethane     | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 01:34     |
| Ethylbenzene                  | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 01:34     |
| P,M-Xylene                    | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 01:34     |
| O-Xylene                      | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 01:34     |
| Styrene                       | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 01:34     |
| Isopropyl benzene             | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 01:34     |
| Bromoform                     | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 01:34     |
| 1,1,2,2-Tetrachloroethane     | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 01:34     |
| 1,2,3-Trichloropropane        | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 01:34     |
| n-Propylbenzene               | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 01:34     |
| Bromobenzene                  | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 01:34     |
| 1,3,5-Trimethylbenzene        | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 01:34     |
| 2+4-Chlorotoluene             | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 01:34     |
| tert-Butylbenzene             | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 01:34     |
| <b>1,2,4-Trimethylbenzene</b> | <b>0.015</b>   | 0.0050                 | mg/Kg      | 10/20/12 01:34     |
| sec-Butylbenzene              | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 01:34     |
| p-Isopropyltoluene            | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 01:34     |
| 1,3-Dichlorobenzene           | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 01:34     |
| 1,4-Dichlorobenzene           | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 01:34     |
| n-Butylbenzene                | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 01:34     |
| 1,2-Dichlorobenzene           | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 01:34     |
| 1,2-Dibromo-3-chloropropane   | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 01:34     |
| 1,2,4-Trichlorobenzene        | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 01:34     |
| Hexachlorobutadiene           | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 01:34     |
| <b>Naphthalene</b>            | <b>0.072</b>   | 0.0050                 | mg/Kg      | 10/20/12 01:34     |
| 1,2,3-Trichlorobenzene        | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 01:34     |
| 1,2-Dichloroethane-d4 (Surr)  | 101            |                        | % Recovery | 10/20/12 01:34     |
| 4-Bromofluorobenzene (Surr)   | 103            |                        | % Recovery | 10/20/12 01:34     |
| Toluene - d8 (Surr)           | 103            |                        | % Recovery | 10/20/12 01:34     |

Sample : CS-2

Project Name : P&D 23rd Ave. Partners

Project Number : CB018H

Lab Number : 82952-02

Matrix : Soil

Sample Date :10/16/2012

Analysis Method: EPA 8260B

| Parameter                   | Measured Value | Method Reporting Limit | Units | Date/Time Analyzed |
|-----------------------------|----------------|------------------------|-------|--------------------|
| Methyl-t-butyl ether (MTBE) | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| TPH as Gasoline             | < 1.0          | 1.0                    | mg/Kg | 10/18/12 14:13     |
| Dichlorodifluoromethane     | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| Chloromethane               | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| Vinyl Chloride              | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| Bromomethane                | < 0.020        | 0.020                  | mg/Kg | 10/18/12 14:13     |
| Chloroethane                | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| Trichlorofluoromethane      | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| 1,1-Dichloroethene          | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| Methylene Chloride          | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| trans-1,2-Dichloroethene    | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| 1,1-Dichloroethane          | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| 2,2-Dichloropropane         | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| cis-1,2-Dichloroethene      | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| Chloroform                  | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| Bromochloromethane          | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| 1,1,1-Trichloroethane       | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| 1,1-Dichloropropene         | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| 1,2-Dichloroethane          | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| Carbon Tetrachloride        | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| Benzene                     | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| Trichloroethene             | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| 1,2-Dichloropropane         | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| Bromodichloromethane        | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| Dibromomethane              | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| cis-1,3-Dichloropropene     | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| Toluene                     | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| trans-1,3-Dichloropropene   | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| 1,1,2-Trichloroethane       | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| 1,3-Dichloropropane         | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| Tetrachloroethene           | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| Dibromochloromethane        | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| 1,2-Dibromoethane           | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |
| Chlorobenzene               | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:13     |

Sample : CS-2

Project Name : P&D 23rd Ave. Partners

Project Number : CB018H

Lab Number : 82952-02

Matrix : Soil

Sample Date :10/16/2012

Analysis Method: EPA 8260B

| Parameter                    | Measured Value | Method Reporting Limit | Units      | Date/Time Analyzed |
|------------------------------|----------------|------------------------|------------|--------------------|
| 1,1,1,2-Tetrachloroethane    | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 14:13     |
| Ethylbenzene                 | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 14:13     |
| P,M-Xylene                   | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 14:13     |
| O-Xylene                     | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 14:13     |
| Styrene                      | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 14:13     |
| Isopropyl benzene            | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 14:13     |
| Bromoform                    | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 14:13     |
| 1,1,2,2-Tetrachloroethane    | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 14:13     |
| 1,2,3-Trichloropropane       | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 14:13     |
| n-Propylbenzene              | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 14:13     |
| Bromobenzene                 | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 14:13     |
| 1,3,5-Trimethylbenzene       | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 14:13     |
| 2+4-Chlorotoluene            | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 14:13     |
| tert-Butylbenzene            | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 14:13     |
| 1,2,4-Trimethylbenzene       | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 14:13     |
| sec-Butylbenzene             | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 14:13     |
| p-Isopropyltoluene           | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 14:13     |
| 1,3-Dichlorobenzene          | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 14:13     |
| 1,4-Dichlorobenzene          | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 14:13     |
| n-Butylbenzene               | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 14:13     |
| 1,2-Dichlorobenzene          | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 14:13     |
| 1,2-Dibromo-3-chloropropane  | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 14:13     |
| 1,2,4-Trichlorobenzene       | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 14:13     |
| Hexachlorobutadiene          | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 14:13     |
| Naphthalene                  | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 14:13     |
| 1,2,3-Trichlorobenzene       | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 14:13     |
| 1,2-Dichloroethane-d4 (Surr) | 100            |                        | % Recovery | 10/18/12 14:13     |
| 4-Bromofluorobenzene (Surr)  | 93.0           |                        | % Recovery | 10/18/12 14:13     |
| Toluene - d8 (Surr)          | 99.1           |                        | % Recovery | 10/18/12 14:13     |

Sample : CS-3

Project Name : P&D 23rd Ave. Partners

Project Number : CB018H

Lab Number : 82952-03

Matrix : Soil

Sample Date :10/16/2012

Analysis Method: EPA 8260B

| Parameter                   | Measured Value | Method Reporting Limit | Units | Date/Time Analyzed |
|-----------------------------|----------------|------------------------|-------|--------------------|
| Methyl-t-butyl ether (MTBE) | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 02:48     |
| TPH as Gasoline             | < 1.0          | 1.0                    | mg/Kg | 10/20/12 02:48     |
| Dichlorodifluoromethane     | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:47     |
| Chloromethane               | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 02:48     |
| Vinyl Chloride              | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 14:47     |
| Bromomethane                | < 0.020        | 0.020                  | mg/Kg | 10/20/12 02:48     |
| Chloroethane                | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 02:48     |
| Trichlorofluoromethane      | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 02:48     |
| 1,1-Dichloroethene          | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 02:48     |
| Methylene Chloride          | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 02:48     |
| trans-1,2-Dichloroethene    | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 02:48     |
| 1,1-Dichloroethane          | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 02:48     |
| 2,2-Dichloropropane         | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 02:48     |
| cis-1,2-Dichloroethene      | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 02:48     |
| Chloroform                  | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 02:48     |
| Bromochloromethane          | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 02:48     |
| 1,1,1-Trichloroethane       | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 02:48     |
| 1,1-Dichloropropene         | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 02:48     |
| 1,2-Dichloroethane          | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 02:48     |
| Carbon Tetrachloride        | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 02:48     |
| Benzene                     | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 02:48     |
| Trichloroethene             | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 02:48     |
| 1,2-Dichloropropane         | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 02:48     |
| Bromodichloromethane        | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 02:48     |
| Dibromomethane              | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 02:48     |
| cis-1,3-Dichloropropene     | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 02:48     |
| Toluene                     | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 02:48     |
| trans-1,3-Dichloropropene   | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 02:48     |
| 1,1,2-Trichloroethane       | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 02:48     |
| 1,3-Dichloropropane         | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 02:48     |
| Tetrachloroethene           | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 02:48     |
| Dibromochloromethane        | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 02:48     |
| 1,2-Dibromoethane           | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 02:48     |
| Chlorobenzene               | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 02:48     |

Sample : CS-3

Project Name : P&D 23rd Ave. Partners

Project Number : CB018H

Lab Number : 82952-03

Matrix : Soil

Sample Date :10/16/2012

Analysis Method: EPA 8260B

| Parameter                     | Measured Value | Method Reporting Limit | Units      | Date/Time Analyzed |
|-------------------------------|----------------|------------------------|------------|--------------------|
| 1,1,1,2-Tetrachloroethane     | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 02:48     |
| Ethylbenzene                  | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 02:48     |
| P,M-Xylene                    | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 02:48     |
| O-Xylene                      | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 02:48     |
| Styrene                       | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 02:48     |
| Isopropyl benzene             | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 02:48     |
| Bromoform                     | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 02:48     |
| 1,1,2,2-Tetrachloroethane     | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 02:48     |
| 1,2,3-Trichloropropane        | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 02:48     |
| n-Propylbenzene               | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 02:48     |
| Bromobenzene                  | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 02:48     |
| 1,3,5-Trimethylbenzene        | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 02:48     |
| 2+4-Chlorotoluene             | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 02:48     |
| tert-Butylbenzene             | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 02:48     |
| <b>1,2,4-Trimethylbenzene</b> | <b>0.0067</b>  | 0.0050                 | mg/Kg      | 10/20/12 02:48     |
| sec-Butylbenzene              | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 02:48     |
| p-Isopropyltoluene            | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 02:48     |
| 1,3-Dichlorobenzene           | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 02:48     |
| 1,4-Dichlorobenzene           | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 02:48     |
| n-Butylbenzene                | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 02:48     |
| 1,2-Dichlorobenzene           | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 02:48     |
| 1,2-Dibromo-3-chloropropane   | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 02:48     |
| 1,2,4-Trichlorobenzene        | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 02:48     |
| Hexachlorobutadiene           | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 02:48     |
| <b>Naphthalene</b>            | <b>0.042</b>   | 0.0050                 | mg/Kg      | 10/20/12 02:48     |
| 1,2,3-Trichlorobenzene        | < 0.0080       | 0.0080                 | mg/Kg      | 10/20/12 02:48     |
| 1,2-Dichloroethane-d4 (Surr)  | 103            |                        | % Recovery | 10/20/12 02:48     |
| 4-Bromofluorobenzene (Surr)   | 102            |                        | % Recovery | 10/20/12 02:48     |
| Toluene - d8 (Surr)           | 103            |                        | % Recovery | 10/20/12 02:48     |

Sample : CS-4

Project Name : P&D 23rd Ave. Partners

Project Number : CB018H

Lab Number : 82952-04

Matrix : Soil

Sample Date :10/16/2012

Analysis Method: EPA 8260B

| Parameter                   | Measured Value | Method Reporting Limit | Units | Date/Time Analyzed |
|-----------------------------|----------------|------------------------|-------|--------------------|
| Methyl-t-butyl ether (MTBE) | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| TPH as Gasoline             | < 1.0          | 1.0                    | mg/Kg | 10/18/12 15:21     |
| Dichlorodifluoromethane     | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| Chloromethane               | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| Vinyl Chloride              | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| Bromomethane                | < 0.020        | 0.020                  | mg/Kg | 10/18/12 15:21     |
| Chloroethane                | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| Trichlorofluoromethane      | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| 1,1-Dichloroethene          | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| Methylene Chloride          | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| trans-1,2-Dichloroethene    | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| 1,1-Dichloroethane          | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| 2,2-Dichloropropane         | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| cis-1,2-Dichloroethene      | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| Chloroform                  | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| Bromochloromethane          | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| 1,1,1-Trichloroethane       | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| 1,1-Dichloropropene         | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| 1,2-Dichloroethane          | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| Carbon Tetrachloride        | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| Benzene                     | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| Trichloroethene             | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| 1,2-Dichloropropane         | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| Bromodichloromethane        | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| Dibromomethane              | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| cis-1,3-Dichloropropene     | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| Toluene                     | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| trans-1,3-Dichloropropene   | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| 1,1,2-Trichloroethane       | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| 1,3-Dichloropropane         | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| Tetrachloroethene           | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| Dibromochloromethane        | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| 1,2-Dibromoethane           | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |
| Chlorobenzene               | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:21     |

Sample : CS-4

Project Name : P&D 23rd Ave. Partners

Project Number : CB018H

Lab Number : 82952-04

Matrix : Soil

Sample Date :10/16/2012

Analysis Method: EPA 8260B

| Parameter                    | Measured Value | Method Reporting Limit | Units      | Date/Time Analyzed |
|------------------------------|----------------|------------------------|------------|--------------------|
| 1,1,1,2-Tetrachloroethane    | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:21     |
| Ethylbenzene                 | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:21     |
| P,M-Xylene                   | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:21     |
| O-Xylene                     | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:21     |
| Styrene                      | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:21     |
| Isopropyl benzene            | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:21     |
| Bromoform                    | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:21     |
| 1,1,2,2-Tetrachloroethane    | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:21     |
| 1,2,3-Trichloropropane       | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:21     |
| n-Propylbenzene              | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:21     |
| Bromobenzene                 | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:21     |
| 1,3,5-Trimethylbenzene       | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:21     |
| 2+4-Chlorotoluene            | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:21     |
| tert-Butylbenzene            | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:21     |
| 1,2,4-Trimethylbenzene       | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:21     |
| sec-Butylbenzene             | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:21     |
| p-Isopropyltoluene           | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:21     |
| 1,3-Dichlorobenzene          | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:21     |
| 1,4-Dichlorobenzene          | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:21     |
| n-Butylbenzene               | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:21     |
| 1,2-Dichlorobenzene          | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:21     |
| 1,2-Dibromo-3-chloropropane  | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:21     |
| 1,2,4-Trichlorobenzene       | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:21     |
| Hexachlorobutadiene          | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:21     |
| Naphthalene                  | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:21     |
| 1,2,3-Trichlorobenzene       | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:21     |
| 1,2-Dichloroethane-d4 (Surr) | 102            |                        | % Recovery | 10/18/12 15:21     |
| 4-Bromofluorobenzene (Surr)  | 92.6           |                        | % Recovery | 10/18/12 15:21     |
| Toluene - d8 (Surr)          | 98.0           |                        | % Recovery | 10/18/12 15:21     |



Sample : **CS-5**

Project Name : **P&D 23rd Ave. Partners**

Project Number : **CB018H**

Lab Number : 82952-05

Matrix : Soil

Sample Date :10/16/2012

Analysis Method: EPA 8260B

| Parameter                   | Measured Value | Method Reporting Limit | Units | Date/Time Analyzed |
|-----------------------------|----------------|------------------------|-------|--------------------|
| Methyl-t-butyl ether (MTBE) | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| TPH as Gasoline             | < 1.0          | 1.0                    | mg/Kg | 10/18/12 15:56     |
| Dichlorodifluoromethane     | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| Chloromethane               | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| Vinyl Chloride              | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| Bromomethane                | < 0.020        | 0.020                  | mg/Kg | 10/18/12 15:56     |
| Chloroethane                | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| Trichlorofluoromethane      | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| 1,1-Dichloroethene          | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| Methylene Chloride          | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| trans-1,2-Dichloroethene    | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| 1,1-Dichloroethane          | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| 2,2-Dichloropropane         | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| cis-1,2-Dichloroethene      | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| Chloroform                  | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| Bromochloromethane          | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| 1,1,1-Trichloroethane       | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| 1,1-Dichloropropene         | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| 1,2-Dichloroethane          | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| Carbon Tetrachloride        | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| Benzene                     | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| Trichloroethene             | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| 1,2-Dichloropropane         | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| Bromodichloromethane        | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| Dibromomethane              | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| cis-1,3-Dichloropropene     | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| Toluene                     | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| trans-1,3-Dichloropropene   | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| 1,1,2-Trichloroethane       | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| 1,3-Dichloropropane         | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| Tetrachloroethene           | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| Dibromochloromethane        | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| 1,2-Dibromoethane           | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |
| Chlorobenzene               | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 15:56     |

Sample : CS-5

Project Name : P&D 23rd Ave. Partners

Project Number : CB018H

Lab Number : 82952-05

Matrix : Soil

Sample Date :10/16/2012

Analysis Method: EPA 8260B

| Parameter                    | Measured Value | Method Reporting Limit | Units      | Date/Time Analyzed |
|------------------------------|----------------|------------------------|------------|--------------------|
| 1,1,1,2-Tetrachloroethane    | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:56     |
| Ethylbenzene                 | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:56     |
| P,M-Xylene                   | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:56     |
| O-Xylene                     | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:56     |
| Styrene                      | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:56     |
| Isopropyl benzene            | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:56     |
| Bromoform                    | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:56     |
| 1,1,2,2-Tetrachloroethane    | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:56     |
| 1,2,3-Trichloropropane       | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:56     |
| n-Propylbenzene              | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:56     |
| Bromobenzene                 | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:56     |
| 1,3,5-Trimethylbenzene       | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:56     |
| 2+4-Chlorotoluene            | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:56     |
| tert-Butylbenzene            | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:56     |
| 1,2,4-Trimethylbenzene       | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:56     |
| sec-Butylbenzene             | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:56     |
| p-Isopropyltoluene           | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:56     |
| 1,3-Dichlorobenzene          | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:56     |
| 1,4-Dichlorobenzene          | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:56     |
| n-Butylbenzene               | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:56     |
| 1,2-Dichlorobenzene          | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:56     |
| 1,2-Dibromo-3-chloropropane  | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:56     |
| 1,2,4-Trichlorobenzene       | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:56     |
| Hexachlorobutadiene          | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:56     |
| Naphthalene                  | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:56     |
| 1,2,3-Trichlorobenzene       | < 0.0050       | 0.0050                 | mg/Kg      | 10/18/12 15:56     |
| 1,2-Dichloroethane-d4 (Surr) | 101            |                        | % Recovery | 10/18/12 15:56     |
| 4-Bromofluorobenzene (Surr)  | 90.1           |                        | % Recovery | 10/18/12 15:56     |
| Toluene - d8 (Surr)          | 97.4           |                        | % Recovery | 10/18/12 15:56     |

Sample : **CS-6-Comp 3 Drums**

Project Name : **P&D 23rd Ave. Partners**

Project Number : **CB018H**

Lab Number : 82952-06

Matrix : Soil

Sample Date :10/16/2012

Analysis Method: EPA 8260B

| Parameter                   | Measured Value | Method Reporting Limit | Units | Date/Time Analyzed |
|-----------------------------|----------------|------------------------|-------|--------------------|
| Methyl-t-butyl ether (MTBE) | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 03:24     |
| TPH as Gasoline             | < 1.0          | 1.0                    | mg/Kg | 10/20/12 03:24     |
| Dichlorodifluoromethane     | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 16:34     |
| Chloromethane               | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 03:24     |
| Vinyl Chloride              | < 0.0050       | 0.0050                 | mg/Kg | 10/18/12 16:34     |
| Bromomethane                | < 0.020        | 0.020                  | mg/Kg | 10/20/12 03:24     |
| Chloroethane                | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 03:24     |
| Trichlorofluoromethane      | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 03:24     |
| 1,1-Dichloroethene          | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 03:24     |
| Methylene Chloride          | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 03:24     |
| trans-1,2-Dichloroethene    | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 03:24     |
| 1,1-Dichloroethane          | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 03:24     |
| 2,2-Dichloropropane         | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 03:24     |
| cis-1,2-Dichloroethene      | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 03:24     |
| Chloroform                  | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 03:24     |
| Bromochloromethane          | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 03:24     |
| 1,1,1-Trichloroethane       | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 03:24     |
| 1,1-Dichloropropene         | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 03:24     |
| 1,2-Dichloroethane          | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 03:24     |
| Carbon Tetrachloride        | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 03:24     |
| Benzene                     | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 03:24     |
| Trichloroethene             | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 03:24     |
| 1,2-Dichloropropane         | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 03:24     |
| Bromodichloromethane        | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 03:24     |
| Dibromomethane              | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 03:24     |
| cis-1,3-Dichloropropene     | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 03:24     |
| Toluene                     | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 03:24     |
| trans-1,3-Dichloropropene   | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 03:24     |
| 1,1,2-Trichloroethane       | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 03:24     |
| 1,3-Dichloropropane         | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 03:24     |
| Tetrachloroethene           | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 03:24     |
| Dibromochloromethane        | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 03:24     |
| 1,2-Dibromoethane           | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 03:24     |
| Chlorobenzene               | < 0.0050       | 0.0050                 | mg/Kg | 10/20/12 03:24     |

Sample : CS-6-Comp 3 Drums

Project Name : P&D 23rd Ave. Partners

Project Number : CB018H

Lab Number : 82952-06

Matrix : Soil

Sample Date :10/16/2012

Analysis Method: EPA 8260B

| Parameter                    | Measured Value | Method Reporting Limit | Units      | Date/Time Analyzed |
|------------------------------|----------------|------------------------|------------|--------------------|
| 1,1,1,2-Tetrachloroethane    | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 03:24     |
| Ethylbenzene                 | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 03:24     |
| P,M-Xylene                   | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 03:24     |
| O-Xylene                     | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 03:24     |
| Styrene                      | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 03:24     |
| Isopropyl benzene            | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 03:24     |
| Bromoform                    | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 03:24     |
| 1,1,2,2-Tetrachloroethane    | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 03:24     |
| 1,2,3-Trichloropropane       | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 03:24     |
| n-Propylbenzene              | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 03:24     |
| Bromobenzene                 | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 03:24     |
| 1,3,5-Trimethylbenzene       | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 03:24     |
| 2+4-Chlorotoluene            | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 03:24     |
| tert-Butylbenzene            | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 03:24     |
| 1,2,4-Trimethylbenzene       | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 03:24     |
| sec-Butylbenzene             | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 03:24     |
| p-Isopropyltoluene           | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 03:24     |
| 1,3-Dichlorobenzene          | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 03:24     |
| 1,4-Dichlorobenzene          | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 03:24     |
| n-Butylbenzene               | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 03:24     |
| 1,2-Dichlorobenzene          | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 03:24     |
| 1,2-Dibromo-3-chloropropane  | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 03:24     |
| 1,2,4-Trichlorobenzene       | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 03:24     |
| Hexachlorobutadiene          | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 03:24     |
| <b>Naphthalene</b>           | <b>0.0074</b>  | 0.0050                 | mg/Kg      | 10/20/12 03:24     |
| 1,2,3-Trichlorobenzene       | < 0.0050       | 0.0050                 | mg/Kg      | 10/20/12 03:24     |
| 1,2-Dichloroethane-d4 (Surr) | 106            |                        | % Recovery | 10/20/12 03:24     |
| 4-Bromofluorobenzene (Surr)  | 101            |                        | % Recovery | 10/20/12 03:24     |
| Toluene - d8 (Surr)          | 106            |                        | % Recovery | 10/20/12 03:24     |

Project Name : **P&D 23rd Ave. Partners**

Project Number : **CB018H**

Sample : **CS-6-Comp 3 Drums**

Matrix : Soil

Lab Number : 82952-06

Sample Date :10/16/2012

| Parameter         | Measured Value | Method Reporting Limit | Units | Analysis Method | Date/Time Analyzed |
|-------------------|----------------|------------------------|-------|-----------------|--------------------|
| Antimony          | < 0.75         | 0.75                   | mg/Kg | EPA 6010B       | 10/18/12 14:30     |
| <b>Arsenic</b>    | <b>10</b>      | 0.75                   | mg/Kg | EPA 6010B       | 10/18/12 14:30     |
| <b>Barium</b>     | <b>120</b>     | 0.50                   | mg/Kg | EPA 6010B       | 10/18/12 14:30     |
| <b>Beryllium</b>  | <b>0.29</b>    | 0.25                   | mg/Kg | EPA 6010B       | 10/18/12 14:30     |
| Cadmium           | < 0.50         | 0.50                   | mg/Kg | EPA 6010B       | 10/18/12 14:30     |
| <b>Chromium</b>   | <b>50</b>      | 0.25                   | mg/Kg | EPA 6010B       | 10/18/12 14:30     |
| <b>Cobalt</b>     | <b>11</b>      | 0.25                   | mg/Kg | EPA 6010B       | 10/18/12 14:30     |
| <b>Copper</b>     | <b>120</b>     | 0.50                   | mg/Kg | EPA 6010B       | 10/18/12 14:30     |
| <b>Lead</b>       | <b>66</b>      | 0.50                   | mg/Kg | EPA 6010B       | 10/18/12 14:30     |
| <b>Molybdenum</b> | <b>4.5</b>     | 0.25                   | mg/Kg | EPA 6010B       | 10/18/12 14:30     |
| <b>Nickel</b>     | <b>86</b>      | 0.25                   | mg/Kg | EPA 6010B       | 10/18/12 14:30     |
| Selenium          | < 0.75         | 0.75                   | mg/Kg | EPA 6010B       | 10/18/12 14:30     |
| Silver            | < 0.25         | 0.25                   | mg/Kg | EPA 6010B       | 10/18/12 14:30     |
| Thallium          | < 0.75         | 0.75                   | mg/Kg | EPA 6010B       | 10/18/12 14:30     |
| <b>Vanadium</b>   | <b>30</b>      | 0.25                   | mg/Kg | EPA 6010B       | 10/18/12 14:30     |
| <b>Zinc</b>       | <b>360</b>     | 1.0                    | mg/Kg | EPA 6010B       | 10/18/12 14:30     |
| <b>Mercury</b>    | <b>0.18</b>    | 0.050                  | mg/Kg | EPA 7471A       | 10/19/12 12:52     |

**QC Report : Method Blank Data**

Project Name : **P&D 23rd Ave. Partners**

Project Number : **CB018H**

| Parameter                     | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-------------------------------|----------------|------------------------|-------|-----------------|---------------|
| Mercury                       | < 0.050        | 0.050                  | mg/Kg | EPA 7471A       | 10/19/2012    |
| Antimony                      | < 0.75         | 0.75                   | mg/Kg | EPA 6010B       | 10/18/2012    |
| Arsenic                       | < 0.75         | 0.75                   | mg/Kg | EPA 6010B       | 10/18/2012    |
| Barium                        | < 0.50         | 0.50                   | mg/Kg | EPA 6010B       | 10/18/2012    |
| Beryllium                     | < 0.25         | 0.25                   | mg/Kg | EPA 6010B       | 10/18/2012    |
| Cadmium                       | < 0.50         | 0.50                   | mg/Kg | EPA 6010B       | 10/18/2012    |
| Chromium                      | < 0.25         | 0.25                   | mg/Kg | EPA 6010B       | 10/18/2012    |
| Cobalt                        | < 0.25         | 0.25                   | mg/Kg | EPA 6010B       | 10/18/2012    |
| Copper                        | < 0.50         | 0.50                   | mg/Kg | EPA 6010B       | 10/18/2012    |
| Lead                          | < 0.50         | 0.50                   | mg/Kg | EPA 6010B       | 10/18/2012    |
| Molybdenum                    | < 0.25         | 0.25                   | mg/Kg | EPA 6010B       | 10/18/2012    |
| Nickel                        | < 0.25         | 0.25                   | mg/Kg | EPA 6010B       | 10/18/2012    |
| Selenium                      | < 0.75         | 0.75                   | mg/Kg | EPA 6010B       | 10/18/2012    |
| Silver                        | < 0.25         | 0.25                   | mg/Kg | EPA 6010B       | 10/18/2012    |
| Thallium                      | < 0.75         | 0.75                   | mg/Kg | EPA 6010B       | 10/18/2012    |
| Vanadium                      | < 0.25         | 0.25                   | mg/Kg | EPA 6010B       | 10/18/2012    |
| Zinc                          | < 1.0          | 1.0                    | mg/Kg | EPA 6010B       | 10/18/2012    |
| TPH as Diesel                 | < 1.0          | 1.0                    | mg/Kg | M EPA 8015      | 10/22/2012    |
| Octacosane (Diesel Surrogate) | 79.5           |                        | %     | M EPA 8015      | 10/22/2012    |

| Parameter                   | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------------------------|----------------|------------------------|-------|-----------------|---------------|
| Methyl-t-butyl ether (MTBE) | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| TPH as Gasoline             | < 1.0          | 1.0                    | mg/Kg | EPA 8260B       | 10/18/2012    |
| Dichlorodifluoromethane     | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| Chloromethane               | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| Vinyl Chloride              | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| Bromomethane                | < 0.020        | 0.020                  | mg/Kg | EPA 8260B       | 10/18/2012    |
| Chloroethane                | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| Trichlorofluoromethane      | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| 1,1-Dichloroethene          | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| Methylene Chloride          | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| trans-1,2-Dichloroethene    | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| 1,1-Dichloroethane          | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| 2,2-Dichloropropane         | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| cis-1,2-Dichloroethene      | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| Chloroform                  | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| Bromochloromethane          | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| 1,1,1-Trichloroethane       | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| 1,1-Dichloropropene         | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| 1,2-Dichloroethane          | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| Carbon Tetrachloride        | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| Benzene                     | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| Trichloroethene             | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| 1,2-Dichloropropane         | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| Bromodichloromethane        | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| Dibromomethane              | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| cis-1,3-Dichloropropene     | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| Toluene                     | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| trans-1,3-Dichloropropene   | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| 1,1,2-Trichloroethane       | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| 1,3-Dichloropropane         | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| Tetrachloroethene           | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| Dibromochloromethane        | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| 1,2-Dibromoethane           | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| Chlorobenzene               | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |
| 1,1,1,2-Tetrachloroethane   | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    |

## QC Report : Method Blank Data

Project Name : P&amp;D 23rd Ave. Partners

Project Number : CB018H

| Parameter                    | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed | Parameter                   | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|------------------------------|----------------|------------------------|-------|-----------------|---------------|-----------------------------|----------------|------------------------|-------|-----------------|---------------|
| Ethylbenzene                 | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    | Methyl-t-butyl ether (MTBE) | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| P,M-Xylene                   | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    | TPH as Gasoline             | < 1.0          | 1.0                    | mg/Kg | EPA 8260B       | 10/20/2012    |
| O-Xylene                     | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    | Chloromethane               | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| Styrene                      | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    | Bromomethane                | < 0.020        | 0.020                  | mg/Kg | EPA 8260B       | 10/20/2012    |
| Isopropyl benzene            | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    | Chloroethane                | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| Bromoform                    | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    | Trichlorofluoromethane      | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| 1,1,2,2-Tetrachloroethane    | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    | 1,1-Dichloroethene          | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| 1,2,3-Trichloropropane       | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    | Methylene Chloride          | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| n-Propylbenzene              | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    | trans-1,2-Dichloroethene    | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| Bromobenzene                 | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    | 1,1-Dichloroethane          | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| 1,3,5-Trimethylbenzene       | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    | 2,2-Dichloropropane         | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| 2+4-Chlorotoluene            | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    | cis-1,2-Dichloroethene      | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| tert-Butylbenzene            | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    | Chloroform                  | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| 1,2,4-Trimethylbenzene       | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    | Bromochloromethane          | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| sec-Butylbenzene             | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    | 1,1,1-Trichloroethane       | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| p-Isopropyltoluene           | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    | 1,1-Dichloropropene         | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| 1,3-Dichlorobenzene          | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    | 1,2-Dichloroethane          | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| 1,4-Dichlorobenzene          | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    | Carbon Tetrachloride        | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| n-Butylbenzene               | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    | Benzene                     | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| 1,2-Dichlorobenzene          | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    | Trichloroethene             | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| 1,2-Dibromo-3-chloropropane  | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    | 1,2-Dichloropropane         | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| 1,2,4-Trichlorobenzene       | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    | Bromodichloromethane        | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| Hexachlorobutadiene          | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    | Dibromomethane              | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| Naphthalene                  | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    | cis-1,3-Dichloropropene     | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| 1,2,3-Trichlorobenzene       | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/18/2012    | Toluene                     | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| 1,2-Dichloroethane-d4 (Surr) | 99.7           |                        | %     | EPA 8260B       | 10/18/2012    | trans-1,3-Dichloropropene   | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| 4-Bromofluorobenzene (Surr)  | 92.9           |                        | %     | EPA 8260B       | 10/18/2012    | 1,1,2-Trichloroethane       | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| Toluene - d8 (Surr)          | 99.7           |                        | %     | EPA 8260B       | 10/18/2012    | 1,3-Dichloropropane         | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
|                              |                |                        |       |                 |               | Tetrachloroethene           | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
|                              |                |                        |       |                 |               | Dibromochloromethane        | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
|                              |                |                        |       |                 |               | 1,2-Dibromoethane           | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
|                              |                |                        |       |                 |               | Chlorobenzene               | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
|                              |                |                        |       |                 |               | 1,1,1,2-Tetrachloroethane   | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
|                              |                |                        |       |                 |               | Ethylbenzene                | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
|                              |                |                        |       |                 |               | P,M-Xylene                  | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |

**QC Report : Method Blank Data**Project Name : **P&D 23rd Ave. Partners**Project Number : **CB018H**

| Parameter                    | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|------------------------------|----------------|------------------------|-------|-----------------|---------------|
| O-Xylene                     | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| Styrene                      | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| Isopropyl benzene            | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| Bromoform                    | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| 1,1,2,2-Tetrachloroethane    | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| 1,2,3-Trichloropropane       | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| n-Propylbenzene              | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| Bromobenzene                 | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| 1,3,5-Trimethylbenzene       | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| 2+4-Chlorotoluene            | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| tert-Butylbenzene            | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| 1,2,4-Trimethylbenzene       | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| sec-Butylbenzene             | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| p-Isopropyltoluene           | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| 1,3-Dichlorobenzene          | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| 1,4-Dichlorobenzene          | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| n-Butylbenzene               | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| 1,2-Dichlorobenzene          | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| 1,2-Dibromo-3-chloropropane  | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| 1,2,4-Trichlorobenzene       | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| Hexachlorobutadiene          | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| Naphthalene                  | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| 1,2,3-Trichlorobenzene       | < 0.0050       | 0.0050                 | mg/Kg | EPA 8260B       | 10/20/2012    |
| 1,2-Dichloroethane-d4 (Surr) | 104            |                        | %     | EPA 8260B       | 10/20/2012    |
| 4-Bromofluorobenzene (Surr)  | 100            |                        | %     | EPA 8260B       | 10/20/2012    |
| Toluene - d8 (Surr)          | 104            |                        | %     | EPA 8260B       | 10/20/2012    |

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------|----------------|------------------------|-------|-----------------|---------------|
|-----------|----------------|------------------------|-------|-----------------|---------------|



## QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **P&D 23rd Ave. Partners**Project Number : **CB018H**

| Parameter       | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicate Spiked Sample Percent Recov. | Relative Percent Diff. | Spiked Sample Percent Recov. Limit | Relative Percent Diff. Limit |
|-----------------|---------------|--------------|-------------|------------------|---------------------|-------------------------------|-------|-----------------|---------------|------------------------------|--|------------------------|------------------------------------|------------------------------|
| <b>Mercury</b>  | 82921-03      | < 0.050      | 0.100       | 0.100            | 0.140               | 1.80                          | mg/Kg | EPA 7471A       | 10/19/12      | <b>128</b>                   | <b>1790</b>                            | <b>171</b>             | 75-125                             | 20                           |
| <b>Antimony</b> | 82949-01      | < 0.75       | 50.0        | 50.0             | 13.1                | 12.3                          | mg/Kg | EPA 6010B       | 10/18/12      | <b>25.8</b>                  | <b>24.2</b>                            | 6.45                   | 75-125                             | 20                           |
| Arsenic         | 82949-01      | 3.7          | 50.0        | 50.0             | 51.0                | 53.9                          | mg/Kg | EPA 6010B       | 10/18/12      | 94.7                         | 100                                    | 5.43                   | 75-125                             | 20                           |
| <b>Barium</b>   | 82949-01      | 73           | 50.0        | 50.0             | 124                 | 136                           | mg/Kg | EPA 6010B       | 10/18/12      | 103                          | <b>127</b>                             | 9.38                   | 75-125                             | 20                           |
| Beryllium       | 82949-01      | < 0.25       | 50.0        | 50.0             | 47.4                | 48.2                          | mg/Kg | EPA 6010B       | 10/18/12      | 94.3                         | 95.9                                   | 1.73                   | 75-125                             | 20                           |
| Cadmium         | 82949-01      | < 0.50       | 50.0        | 50.0             | 48.5                | 48.9                          | mg/Kg | EPA 6010B       | 10/18/12      | 97.0                         | 97.9                                   | 0.858                  | 75-125                             | 20                           |
| Chromium        | 82949-01      | 29           | 50.0        | 50.0             | 77.2                | 78.9                          | mg/Kg | EPA 6010B       | 10/18/12      | 95.8                         | 99.0                                   | 2.11                   | 75-125                             | 20                           |
| Cobalt          | 82949-01      | 9.4          | 50.0        | 50.0             | 55.0                | 62.5                          | mg/Kg | EPA 6010B       | 10/18/12      | 91.2                         | 106                                    | 12.8                   | 75-125                             | 20                           |
| Copper          | 82949-01      | 22           | 50.0        | 50.0             | 69.5                | 69.6                          | mg/Kg | EPA 6010B       | 10/18/12      | 95.1                         | 95.4                                   | 0.216                  | 75-125                             | 20                           |

**QC Report : Matrix Spike/ Matrix Spike Duplicate**Project Name : **P&D 23rd Ave. Partners**Project Number : **CB018H**

| Parameter            | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicate Spiked Sample Percent Recov. | Relative Percent Diff. | Spiked Sample Percent Recov. Limit | Relative Percent Diff. Limit |
|----------------------|---------------|--------------|-------------|------------------|---------------------|-------------------------------|-------|-----------------|---------------|------------------------------|--|------------------------|------------------------------------|------------------------------|
| Lead                 | 82949-01      | 3.8          | 50.0        | 50.0             | 48.9                | 49.9                          | mg/Kg | EPA 6010B       | 10/18/12      | 90.1                         | 92.2                                   | 2.10                   | 75-125                             | 20                           |
| Molybdenum           | 82949-01      | 0.38         | 50.0        | 50.0             | 43.3                | 43.8                          | mg/Kg | EPA 6010B       | 10/18/12      | 85.8                         | 86.8                                   | 1.16                   | 75-125                             | 20                           |
| Nickel               | 82949-01      | 24           | 50.0        | 50.0             | 67.2                | 70.0                          | mg/Kg | EPA 6010B       | 10/18/12      | 87.3                         | 92.9                                   | 4.08                   | 75-125                             | 20                           |
| Selenium             | 82949-01      | < 0.75       | 50.0        | 50.0             | 46.2                | 47.4                          | mg/Kg | EPA 6010B       | 10/18/12      | 91.8                         | 94.3                                   | 2.65                   | 75-125                             | 20                           |
| Silver               | 82949-01      | < 0.25       | 12.5        | 12.5             | 12.3                | 12.4                          | mg/Kg | EPA 6010B       | 10/18/12      | 98.6                         | 99.4                                   | 0.767                  | 75-125                             | 20                           |
| Thallium             | 82949-01      | < 0.75       | 50.0        | 50.0             | 43.6                | 44.0                          | mg/Kg | EPA 6010B       | 10/18/12      | 86.5                         | 87.1                                   | 0.696                  | 75-125                             | 20                           |
| Vanadium             | 82949-01      | 42           | 50.0        | 50.0             | 91.7                | 91.2                          | mg/Kg | EPA 6010B       | 10/18/12      | 99.7                         | 98.8                                   | 0.492                  | 75-125                             | 20                           |
| Zinc                 | 82949-01      | 33           | 50.0        | 50.0             | 83.8                | 82.2                          | mg/Kg | EPA 6010B       | 10/18/12      | 101                          | 97.4                                   | 1.99                   | 75-125                             | 20                           |
| <b>TPH as Diesel</b> | 82994-01      | 100          | 19.6        | 19.9             | 186                 | 168                           | mg/Kg | M EPA 8015      | 10/22/12      | <b>416</b>                   | <b>318</b>                             | <b>26.7</b>            | 60-140                             | 25                           |

## QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : P&amp;D 23rd Ave. Partners

Project Number : CB018H

| Parameter                     | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicate Spiked Sample Percent Recov. | Relative Percent Diff. | Spiked Sample Percent Recov. Limit | Relative Percent Diff. Limit |
|-------------------------------|---------------|--------------|-------------|------------------|---------------------|-------------------------------|-------|-----------------|---------------|------------------------------|--|------------------------|------------------------------------|------------------------------|
| 1,1,1,2-Tetrachloroethane     | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0337              | 0.0330                        | mg/Kg | EPA 8260B       | 10/18/12      | 84.9                         | 84.0                                   | 0.985                  | 70.0-130                           | 25                           |
| 1,1,1-Trichloroethane         | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0342              | 0.0337                        | mg/Kg | EPA 8260B       | 10/18/12      | 86.3                         | 85.8                                   | 0.546                  | 70.0-130                           | 25                           |
| 1,1,2,2-Tetrachloroethane     | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0375              | 0.0380                        | mg/Kg | EPA 8260B       | 10/18/12      | 94.4                         | 96.6                                   | 2.23                   | 60.7-133                           | 25                           |
| 1,1,2-Trichloroethane         | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0363              | 0.0362                        | mg/Kg | EPA 8260B       | 10/18/12      | 91.6                         | 92.2                                   | 0.633                  | 70.0-130                           | 25                           |
| 1,1-Dichloroethane            | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0361              | 0.0352                        | mg/Kg | EPA 8260B       | 10/18/12      | 91.0                         | 89.6                                   | 1.56                   | 66.1-120                           | 25                           |
| 1,1-Dichloroethene            | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0334              | 0.0328                        | mg/Kg | EPA 8260B       | 10/18/12      | 84.1                         | 83.6                                   | 0.667                  | 65.9-122                           | 25                           |
| 1,1-Dichloropropene           | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0334              | 0.0327                        | mg/Kg | EPA 8260B       | 10/18/12      | 84.2                         | 83.2                                   | 1.20                   | 70.0-130                           | 25                           |
| <b>1,2,3-Trichlorobenzene</b> | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0228              | 0.0220                        | mg/Kg | EPA 8260B       | 10/18/12      | <b>57.5</b>                  | <b>56.0</b>                            | 2.56                   | 70.0-130                           | 25                           |
| 1,2,3-Trichloropropane        | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0349              | 0.0357                        | mg/Kg | EPA 8260B       | 10/18/12      | 88.0                         | 90.8                                   | 3.21                   | 70.0-130                           | 25                           |
| <b>1,2,4-Trichlorobenzene</b> | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0222              | 0.0210                        | mg/Kg | EPA 8260B       | 10/18/12      | <b>55.8</b>                  | <b>53.6</b>                            | 4.13                   | 70.0-130                           | 25                           |

## QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : P&amp;D 23rd Ave. Partners

Project Number : CB018H

| Parameter                     | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicate Spiked Sample Percent Recov. | Relative Percent Diff. | Spiked Sample Percent Recov. Limit | Relative Percent Diff. Limit |
|-------------------------------|---------------|--------------|-------------|------------------|---------------------|-------------------------------|-------|-----------------|---------------|------------------------------|--|------------------------|------------------------------------|------------------------------|
| <b>1,2,4-Trimethylbenzene</b> |               |              |             |                  |                     |                               |       |                 |               |                              |  |                        |                                    |                              |
| 1,2-Dibromoethane             | 82952-01      | 0.0064       | 0.0397      | 0.0393           | 0.0338              | 0.0317                        | mg/Kg | EPA 8260B       | 10/18/12      | 69.2                         | 64.4                                   | 7.25                   | 70.0-130                           | 25                           |
| 1,2-Dichlorobenzene           | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0363              | 0.0366                        | mg/Kg | EPA 8260B       | 10/18/12      | 91.4                         | 93.0                                   | 1.77                   | 67.2-121                           | 25                           |
| 1,2-Dichloroethane            | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0276              | 0.0274                        | mg/Kg | EPA 8260B       | 10/18/12      | 69.4                         | 69.8                                   | 0.513                  | 56.3-123                           | 25                           |
| 1,2-Dichloropropane           | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0360              | 0.0356                        | mg/Kg | EPA 8260B       | 10/18/12      | 90.7                         | 90.5                                   | 0.206                  | 64.0-124                           | 25                           |
| 1,2-dibromo-3-chloropropane   | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0364              | 0.0359                        | mg/Kg | EPA 8260B       | 10/18/12      | 91.7                         | 91.4                                   | 0.322                  | 66.6-120                           | 25                           |
| 1,3,5-Trimethylbenzene        | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0329              | 0.0352                        | mg/Kg | EPA 8260B       | 10/18/12      | 82.8                         | 89.7                                   | 7.99                   | 59.4-138                           | 25                           |
| 1,3-Dichlorobenzene           | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0307              | 0.0294                        | mg/Kg | EPA 8260B       | 10/18/12      | 77.3                         | 74.8                                   | 3.33                   | 70.0-130                           | 25                           |
| 1,3-Dichloropropane           | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0244              | 0.0237                        | mg/Kg | EPA 8260B       | 10/18/12      | 61.6                         | 60.2                                   | 2.29                   | 52.5-132                           | 25                           |
| 1,4-Dichlorobenzene           | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0359              | 0.0359                        | mg/Kg | EPA 8260B       | 10/18/12      | 90.4                         | 91.3                                   | 0.922                  | 70.0-130                           | 25                           |
|                               | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0273              | 0.0273                        | mg/Kg | EPA 8260B       | 10/18/12      | 68.9                         | 69.6                                   | 0.969                  | 57.0-123                           | 25                           |

## QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : P&amp;D 23rd Ave. Partners

Project Number : CB018H

| Parameter            | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicate Spiked Sample Percent Recov. | Relative Percent Diff. | Spiked Sample Percent Recov. Limit | Relative Percent Diff. Limit |
|----------------------|---------------|--------------|-------------|------------------|---------------------|-------------------------------|-------|-----------------|---------------|------------------------------|--|------------------------|------------------------------------|------------------------------|
| 2+4-Chlorotoluene    | 82952-01      | <0.0050      | 0.0794      | 0.0786           | 0.0576              | 0.0560                        | mg/Kg | EPA 8260B       | 10/18/12      | 72.5                         | 71.3                                   | 1.69                   | 70.0-130                           | 25                           |
| 2,2-Dichloropropane  | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0345              | 0.0332                        | mg/Kg | EPA 8260B       | 10/18/12      | 87.0                         | 84.6                                   | 2.80                   | 70.0-130                           | 25                           |
| Benzene              | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0356              | 0.0351                        | mg/Kg | EPA 8260B       | 10/18/12      | 89.8                         | 89.2                                   | 0.627                  | 67.9-120                           | 25                           |
| Bromobenzene         | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0288              | 0.0284                        | mg/Kg | EPA 8260B       | 10/18/12      | 72.5                         | 72.3                                   | 0.250                  | 70.0-130                           | 25                           |
| Bromochloromethane   | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0348              | 0.0344                        | mg/Kg | EPA 8260B       | 10/18/12      | 87.6                         | 87.5                                   | 0.0694                 | 70.0-130                           | 25                           |
| Bromodichloromethane | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0354              | 0.0349                        | mg/Kg | EPA 8260B       | 10/18/12      | 89.2                         | 88.8                                   | 0.455                  | 70.0-130                           | 25                           |
| Bromoform            | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0333              | 0.0336                        | mg/Kg | EPA 8260B       | 10/18/12      | 83.9                         | 85.4                                   | 1.80                   | 58.2-146                           | 25                           |
| Bromomethane         | 82952-01      | <0.020       | 0.198       | 0.196            | 0.187               | 0.178                         | mg/Kg | EPA 8260B       | 10/18/12      | 94.2                         | 90.6                                   | 3.90                   | 45.5-139                           | 25                           |
| Carbon Tetrachloride | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0316              | 0.0315                        | mg/Kg | EPA 8260B       | 10/18/12      | 79.8                         | 80.2                                   | 0.576                  | 70.0-130                           | 25                           |
| Chlorobenzene        | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0316              | 0.0312                        | mg/Kg | EPA 8260B       | 10/18/12      | 79.7                         | 79.3                                   | 0.523                  | 63.4-122                           | 25                           |

## QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : P&amp;D 23rd Ave. Partners

Project Number : CB018H

| Parameter                  | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicate Spiked Sample Percent Recov. | Relative Percent Diff. | Spiked Sample Percent Recov. Limit | Relative Percent Diff. Limit |
|----------------------------|---------------|--------------|-------------|------------------|---------------------|-------------------------------|-------|-----------------|---------------|------------------------------|--|------------------------|------------------------------------|------------------------------|
| Chloroethane               | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0398              | 0.0388                        | mg/Kg | EPA 8260B       | 10/18/12      | 100                          | 98.6                                   | 1.72                   | 70.0-130                           | 25                           |
| Chloroform                 | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0355              | 0.0349                        | mg/Kg | EPA 8260B       | 10/18/12      | 89.4                         | 88.7                                   | 0.811                  | 67.4-121                           | 25                           |
| Chloromethane              | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0389              | 0.0381                        | mg/Kg | EPA 8260B       | 10/18/12      | 98.1                         | 97.0                                   | 1.12                   | 47.9-127                           | 25                           |
| Dibromochloromethane       | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0340              | 0.0340                        | mg/Kg | EPA 8260B       | 10/18/12      | 85.6                         | 86.6                                   | 1.20                   | 70.0-130                           | 25                           |
| Dibromomethane             | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0332              | 0.0333                        | mg/Kg | EPA 8260B       | 10/18/12      | 83.6                         | 84.7                                   | 1.33                   | 70.0-130                           | 25                           |
| Dichlorodifluoromethane    | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0366              | 0.0368                        | mg/Kg | EPA 8260B       | 10/18/12      | 92.3                         | 93.6                                   | 1.36                   | 40.5-144                           | 25                           |
| Ethylbenzene               | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0336              | 0.0329                        | mg/Kg | EPA 8260B       | 10/18/12      | 84.7                         | 83.7                                   | 1.19                   | 65.5-127                           | 25                           |
| <b>Hexachlorobutadiene</b> | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0183              | 0.0166                        | mg/Kg | EPA 8260B       | 10/18/12      | <b>46.2</b>                  | <b>42.2</b>                            | 8.90                   | 70.0-130                           | 25                           |
| Isopropyl benzene          | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0299              | 0.0291                        | mg/Kg | EPA 8260B       | 10/18/12      | 75.4                         | 74.0                                   | 1.87                   | 70.0-130                           | 25                           |
| Methyl-t-butyl ether       | 82952-01      | <0.0050      | 0.0397      | 0.0394           | 0.0313              | 0.0299                        | mg/Kg | EPA 8260B       | 10/18/12      | 78.7                         | 76.0                                   | 3.56                   | 57.0-122                           | 25                           |

## QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : P&amp;D 23rd Ave. Partners

Project Number : CB018H

| Parameter              | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicate Spiked Sample Percent Recov. | Relative Percent Diff. | Spiked Sample Percent Recov. Limit | Relative Percent Diff. Limit |
|------------------------|---------------|--------------|-------------|------------------|---------------------|-------------------------------|-------|-----------------|---------------|------------------------------|--|------------------------|------------------------------------|------------------------------|
| Methylene Chloride     | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0348              | 0.0340                        | mg/Kg | EPA 8260B       | 10/18/12      | 87.8                         | 86.4                                   | 1.58                   | 70.0-130                           | 25                           |
| <b>Naphthalene</b>     | 82952-01      | 0.055        | 0.0397      | 0.0393           | 0.0777              | 0.0786                        | mg/Kg | EPA 8260B       | 10/18/12      | <b>56.1</b>                  | <b>58.9</b>                            | 4.88                   | 70.0-130                           | 25                           |
| O-Xylene               | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0339              | 0.0328                        | mg/Kg | EPA 8260B       | 10/18/12      | 85.4                         | 83.6                                   | 2.18                   | 62.3-124                           | 25                           |
| P + M Xylene           | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0330              | 0.0321                        | mg/Kg | EPA 8260B       | 10/18/12      | 83.1                         | 81.6                                   | 1.87                   | 62.5-124                           | 25                           |
| Styrene                | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0320              | 0.0312                        | mg/Kg | EPA 8260B       | 10/18/12      | 80.5                         | 79.4                                   | 1.42                   | 70.0-130                           | 25                           |
| Tetrachloroethene      | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0281              | 0.0280                        | mg/Kg | EPA 8260B       | 10/18/12      | 70.9                         | 71.1                                   | 0.347                  | 64.7-122                           | 25                           |
| Toluene                | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0341              | 0.0336                        | mg/Kg | EPA 8260B       | 10/18/12      | 85.9                         | 85.6                                   | 0.295                  | 65.7-120                           | 25                           |
| Trichloroethene        | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0311              | 0.0308                        | mg/Kg | EPA 8260B       | 10/18/12      | 78.5                         | 78.5                                   | 0.0350                 | 63.9-121                           | 25                           |
| Trichlorofluoromethane | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0342              | 0.0337                        | mg/Kg | EPA 8260B       | 10/18/12      | 86.1                         | 85.8                                   | 0.335                  | 70.0-130                           | 25                           |
| Vinyl Chloride         | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0366              | 0.0356                        | mg/Kg | EPA 8260B       | 10/18/12      | 92.4                         | 90.6                                   | 1.89                   | 45.9-127                           | 25                           |

## QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : P&amp;D 23rd Ave. Partners

Project Number : CB018H

| Parameter                     | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicate Spiked Sample Percent Recov. | Relative Percent Diff. | Spiked Sample Percent Recov. Limit | Relative Percent Diff. Limit |
|-------------------------------|---------------|--------------|-------------|------------------|---------------------|-------------------------------|-------|-----------------|---------------|------------------------------|--|------------------------|------------------------------------|------------------------------|
| <b>c-1,3-Dichloropropene</b>  |               |              |             |                  |                     |                               |       |                 |               |                              |  |                        |                                    |                              |
|                               | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0357              | 0.0350                        | mg/Kg | EPA 8260B       | 10/18/12      | 89.9                         | 89.0                                   | 1.04                   | 70.0-130                           | 25                           |
| <b>cis-1,2-Dichloroethene</b> |               |              |             |                  |                     |                               |       |                 |               |                              |  |                        |                                    |                              |
|                               | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0358              | 0.0348                        | mg/Kg | EPA 8260B       | 10/18/12      | 90.1                         | 88.6                                   | 1.73                   | 70.0-130                           | 25                           |
| <b>n-butylbenzene</b>         |               |              |             |                  |                     |                               |       |                 |               |                              |  |                        |                                    |                              |
|                               | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0264              | 0.0250                        | mg/Kg | EPA 8260B       | 10/18/12      | <b>66.7</b>                  | <b>63.6</b>                            | 4.75                   | 70.0-130                           | 25                           |
| <b>n-propylbenzene</b>        |               |              |             |                  |                     |                               |       |                 |               |                              |  |                        |                                    |                              |
|                               | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0288              | 0.0277                        | mg/Kg | EPA 8260B       | 10/18/12      | 72.6                         | 70.5                                   | 2.94                   | 70.0-130                           | 25                           |
| <b>p-isopropyltoluene</b>     |               |              |             |                  |                     |                               |       |                 |               |                              |  |                        |                                    |                              |
|                               | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0255              | 0.0240                        | mg/Kg | EPA 8260B       | 10/18/12      | <b>64.3</b>                  | <b>61.0</b>                            | 5.18                   | 70.0-130                           | 25                           |
| <b>sec-butylbenzene</b>       |               |              |             |                  |                     |                               |       |                 |               |                              |  |                        |                                    |                              |
|                               | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0250              | 0.0236                        | mg/Kg | EPA 8260B       | 10/18/12      | <b>62.9</b>                  | <b>60.2</b>                            | 4.39                   | 70.0-130                           | 25                           |
| <b>t-1,2-Dichloroethene</b>   |               |              |             |                  |                     |                               |       |                 |               |                              |  |                        |                                    |                              |
|                               | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0328              | 0.0325                        | mg/Kg | EPA 8260B       | 10/18/12      | 82.6                         | 82.7                                   | 0.145                  | 70.0-130                           | 25                           |
| <b>t-1,3-Dichloropropene</b>  |               |              |             |                  |                     |                               |       |                 |               |                              |  |                        |                                    |                              |
|                               | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0350              | 0.0342                        | mg/Kg | EPA 8260B       | 10/18/12      | 88.1                         | 87.2                                   | 1.08                   | 70.0-130                           | 25                           |
| <b>tert-butylbenzene</b>      |               |              |             |                  |                     |                               |       |                 |               |                              |  |                        |                                    |                              |
|                               | 82952-01      | <0.0050      | 0.0397      | 0.0393           | 0.0258              | 0.0247                        | mg/Kg | EPA 8260B       | 10/18/12      | <b>64.9</b>                  | <b>62.9</b>                            | 3.16                   | 70.0-130                           | 25                           |



## QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : P&amp;D 23rd Ave. Partners

Project Number : CB018H

| Parameter                     | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicate Spiked Sample Percent Recov. | Relative Percent Diff. | Spiked Sample Percent Recov. Limit | Relative Percent Diff. Limit |
|-------------------------------|---------------|--------------|-------------|------------------|---------------------|-------------------------------|-------|-----------------|---------------|------------------------------|--|------------------------|------------------------------------|------------------------------|
| 1,1,1,2-Tetrachloroethane     | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0340              | 0.0313                        | mg/Kg | EPA 8260B       | 10/19/12      | 87.2                         | 79.1                                   | 9.70                   | 70.0-130                           | 25                           |
| 1,1,1-Trichloroethane         | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0352              | 0.0317                        | mg/Kg | EPA 8260B       | 10/19/12      | 90.0                         | 80.3                                   | 11.4                   | 70.0-130                           | 25                           |
| 1,1,2,2-Tetrachloroethane     | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0352              | 0.0312                        | mg/Kg | EPA 8260B       | 10/19/12      | 90.1                         | 79.0                                   | 13.2                   | 60.7-133                           | 25                           |
| 1,1,2-Trichloroethane         | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0352              | 0.0346                        | mg/Kg | EPA 8260B       | 10/19/12      | 90.2                         | 87.6                                   | 2.90                   | 70.0-130                           | 25                           |
| 1,1-Dichloroethane            | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0353              | 0.0323                        | mg/Kg | EPA 8260B       | 10/19/12      | 90.4                         | 81.7                                   | 10.1                   | 66.1-120                           | 25                           |
| 1,1-Dichloroethene            | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0354              | 0.0302                        | mg/Kg | EPA 8260B       | 10/19/12      | 90.6                         | 76.5                                   | 16.9                   | 65.9-122                           | 25                           |
| 1,1-Dichloropropene           | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0312              | 0.0298                        | mg/Kg | EPA 8260B       | 10/19/12      | 80.0                         | 75.3                                   | 6.05                   | 70.0-130                           | 25                           |
| <b>1,2,3-Trichlorobenzene</b> | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0192              | 0.0163                        | mg/Kg | EPA 8260B       | 10/19/12      | <b>49.3</b>                  | <b>41.2</b>                            | 17.7                   | 70.0-130                           | 25                           |
| 1,2,3-Trichloropropane        | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0353              | 0.0322                        | mg/Kg | EPA 8260B       | 10/19/12      | 90.4                         | 81.6                                   | 10.2                   | 70.0-130                           | 25                           |
| <b>1,2,4-Trichlorobenzene</b> | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0180              | 0.0163                        | mg/Kg | EPA 8260B       | 10/19/12      | <b>46.1</b>                  | <b>41.2</b>                            | 11.2                   | 70.0-130                           | 25                           |

**QC Report : Matrix Spike/ Matrix Spike Duplicate**Project Name : **P&D 23rd Ave. Partners**Project Number : **CB018H**

| Parameter                     | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicate Spiked Sample Percent Recov. | Relative Percent Diff. | Spiked Sample Percent Recov. Limit | Relative Percent Diff. Limit |
|-------------------------------|---------------|--------------|-------------|------------------|---------------------|-------------------------------|-------|-----------------|---------------|------------------------------|--|------------------------|------------------------------------|------------------------------|
| <b>1,2,4-Trimethylbenzene</b> |               |              |             |                  |                     |                               |       |                 |               |                              |  |                        |                                    |                              |
| 1,2-Dibromoethane             | 82952-01      | 0.015        | 0.0391      | 0.0395           | 0.0334              | 0.0290                        | mg/Kg | EPA 8260B       | 10/19/12      | <b>45.8</b>                  | <b>34.2</b>                            | <b>29.1</b>            | 70.0-130                           | 25                           |
| 1,2-Dichlorobenzene           | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0364              | 0.0352                        | mg/Kg | EPA 8260B       | 10/19/12      | 93.3                         | 89.1                                   | 4.58                   | 67.2-121                           | 25                           |
| 1,2-Dichloroethane            | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0256              | 0.0224                        | mg/Kg | EPA 8260B       | 10/19/12      | 65.6                         | 56.7                                   | 14.5                   | 56.3-123                           | 25                           |
| 1,2-Dichloropropane           | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0346              | 0.0328                        | mg/Kg | EPA 8260B       | 10/19/12      | 88.5                         | 83.1                                   | 6.26                   | 64.0-124                           | 25                           |
| 1,2-dibromo-3-chloropropane   | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0338              | 0.0330                        | mg/Kg | EPA 8260B       | 10/19/12      | 86.6                         | 83.5                                   | 3.71                   | 66.6-120                           | 25                           |
|                               | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0353              | 0.0329                        | mg/Kg | EPA 8260B       | 10/19/12      | 90.4                         | 83.2                                   | 8.24                   | 59.4-138                           | 25                           |
| <b>1,3,5-Trimethylbenzene</b> |               |              |             |                  |                     |                               |       |                 |               |                              |  |                        |                                    |                              |
| 1,3-Dichlorobenzene           | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0305              | 0.0244                        | mg/Kg | EPA 8260B       | 10/19/12      | 78.1                         | <b>61.8</b>                            | 23.2                   | 70.0-130                           | 25                           |
| 1,3-Dichloropropane           | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0253              | 0.0215                        | mg/Kg | EPA 8260B       | 10/19/12      | 64.9                         | 54.4                                   | 17.5                   | 52.5-132                           | 25                           |
|                               | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0352              | 0.0339                        | mg/Kg | EPA 8260B       | 10/19/12      | 90.0                         | 85.8                                   | 4.72                   | 70.0-130                           | 25                           |
| <b>1,4-Dichlorobenzene</b>    |               |              |             |                  |                     |                               |       |                 |               |                              |  |                        |                                    |                              |
|                               | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0250              | 0.0221                        | mg/Kg | EPA 8260B       | 10/19/12      | 64.0                         | <b>56.0</b>                            | 13.2                   | 57.0-123                           | 25                           |

## QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : P&amp;D 23rd Ave. Partners

Project Number : CB018H

| Parameter                | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicate Spiked Sample Percent Recov. | Relative Percent Diff. | Spiked Sample Percent Recov. Limit | Relative Percent Diff. Limit |
|--------------------------|---------------|--------------|-------------|------------------|---------------------|-------------------------------|-------|-----------------|---------------|------------------------------|--|------------------------|------------------------------------|------------------------------|
| <b>2+4-Chlorotoluene</b> |               |              |             |                  |                     |                               |       |                 |               |                              |  |                        |                                    |                              |
| 2,2-Dichloropropane      | 82952-01      | <0.0050      | 0.0781      | 0.0790           | 0.0549              | 0.0485                        | mg/Kg | EPA 8260B       | 10/19/12      | 70.2                         | <b>61.4</b>                            | 13.5                   | 70.0-130                           | 25                           |
| Benzene                  | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0351              | 0.0316                        | mg/Kg | EPA 8260B       | 10/19/12      | 89.8                         | 80.0                                   | 11.6                   | 70.0-130                           | 25                           |
|                          | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0337              | 0.0322                        | mg/Kg | EPA 8260B       | 10/19/12      | 86.3                         | 81.4                                   | 5.82                   | 67.9-120                           | 25                           |
| <b>Bromobenzene</b>      |               |              |             |                  |                     |                               |       |                 |               |                              |  |                        |                                    |                              |
| Bromochloromethane       | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0297              | 0.0262                        | mg/Kg | EPA 8260B       | 10/19/12      | 76.1                         | <b>66.3</b>                            | 13.7                   | 70.0-130                           | 25                           |
| Bromodichloromethane     | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0374              | 0.0334                        | mg/Kg | EPA 8260B       | 10/19/12      | 95.8                         | 84.4                                   | 12.7                   | 70.0-130                           | 25                           |
| Bromoform                | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0350              | 0.0333                        | mg/Kg | EPA 8260B       | 10/19/12      | 89.5                         | 84.3                                   | 5.98                   | 70.0-130                           | 25                           |
| Bromomethane             | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0355              | 0.0322                        | mg/Kg | EPA 8260B       | 10/19/12      | 91.0                         | 81.5                                   | 11.0                   | 58.2-146                           | 25                           |
| Carbon Tetrachloride     | 82952-01      | <0.020       | 0.195       | 0.198            | 0.196               | 0.178                         | mg/Kg | EPA 8260B       | 10/19/12      | 100                          | 90.1                                   | 10.8                   | 45.5-139                           | 25                           |
| Chlorobenzene            | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0333              | 0.0297                        | mg/Kg | EPA 8260B       | 10/19/12      | 85.4                         | 75.0                                   | 12.9                   | 70.0-130                           | 25                           |
|                          | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0306              | 0.0284                        | mg/Kg | EPA 8260B       | 10/19/12      | 78.4                         | 71.8                                   | 8.80                   | 63.4-122                           | 25                           |

## QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : P&amp;D 23rd Ave. Partners

Project Number : CB018H

| Parameter                  | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicate Spiked Sample Percent Recov. | Relative Percent Diff. | Spiked Sample Percent Recov. Limit | Relative Percent Diff. Limit |
|----------------------------|---------------|--------------|-------------|------------------|---------------------|-------------------------------|-------|-----------------|---------------|------------------------------|--|------------------------|------------------------------------|------------------------------|
| Chloroethane               | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0366              | 0.0324                        | mg/Kg | EPA 8260B       | 10/19/12      | 93.6                         | 81.9                                   | 13.3                   | 70.0-130                           | 25                           |
| Chloroform                 | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0354              | 0.0326                        | mg/Kg | EPA 8260B       | 10/19/12      | 90.7                         | 82.4                                   | 9.57                   | 67.4-121                           | 25                           |
| Chloromethane              | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0468              | 0.0403                        | mg/Kg | EPA 8260B       | 10/19/12      | 120                          | 102                                    | 16.0                   | 47.9-127                           | 25                           |
| Dibromochloromethane       | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0357              | 0.0348                        | mg/Kg | EPA 8260B       | 10/19/12      | 91.4                         | 88.0                                   | 3.82                   | 70.0-130                           | 25                           |
| Dibromomethane             | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0365              | 0.0347                        | mg/Kg | EPA 8260B       | 10/19/12      | 93.4                         | 87.8                                   | 6.13                   | 70.0-130                           | 25                           |
| Ethylbenzene               | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0299              | 0.0276                        | mg/Kg | EPA 8260B       | 10/19/12      | 76.5                         | 69.8                                   | 9.15                   | 65.5-127                           | 25                           |
| <b>Hexachlorobutadiene</b> | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0139              | 0.0115                        | mg/Kg | EPA 8260B       | 10/19/12      | <b>35.5</b>                  | <b>29.2</b>                            | 19.5                   | 70.0-130                           | 25                           |
| <b>Isopropyl benzene</b>   | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0275              | 0.0239                        | mg/Kg | EPA 8260B       | 10/19/12      | 70.4                         | <b>60.4</b>                            | 15.2                   | 70.0-130                           | 25                           |
| Methyl-t-butyl ether       | 82952-01      | <0.0050      | 0.0391      | 0.0396           | 0.0364              | 0.0340                        | mg/Kg | EPA 8260B       | 10/19/12      | 93.2                         | 85.9                                   | 8.10                   | 57.0-122                           | 25                           |
| Methylene Chloride         | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0368              | 0.0313                        | mg/Kg | EPA 8260B       | 10/19/12      | 94.2                         | 79.1                                   | 17.4                   | 70.0-130                           | 25                           |

**QC Report : Matrix Spike/ Matrix Spike Duplicate**Project Name : **P&D 23rd Ave. Partners**Project Number : **CB018H**

| Parameter              | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicate Spiked Sample Percent Recov. | Relative Percent Diff. | Spiked Sample Percent Recov. Limit | Relative Percent Diff. Limit |
|------------------------|---------------|--------------|-------------|------------------|---------------------|-------------------------------|-------|-----------------|---------------|------------------------------|--|------------------------|------------------------------------|------------------------------|
| <b>Naphthalene</b>     |               |              |             |                  |                     |                               |       |                 |               |                              |  |                        |                                    |                              |
| O-Xylene               | 82952-01      | 0.072        | 0.0391      | 0.0395           | 0.0778              | 0.0706                        | mg/Kg | EPA 8260B       | 10/19/12      | 15.3                         | 0.00                                   | 200                    | 70.0-130                           | 25                           |
| P + M Xylene           | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0315              | 0.0288                        | mg/Kg | EPA 8260B       | 10/19/12      | 80.6                         | 72.8                                   | 10.2                   | 62.3-124                           | 25                           |
| Styrene                | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0296              | 0.0274                        | mg/Kg | EPA 8260B       | 10/19/12      | 75.7                         | 69.3                                   | 8.89                   | 62.5-124                           | 25                           |
| Tetrachloroethene      | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0305              | 0.0287                        | mg/Kg | EPA 8260B       | 10/19/12      | 78.0                         | 72.5                                   | 7.24                   | 70.0-130                           | 25                           |
| Toluene                | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0282              | 0.0265                        | mg/Kg | EPA 8260B       | 10/19/12      | 72.1                         | 67.1                                   | 7.22                   | 64.7-122                           | 25                           |
| Trichloroethene        | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0327              | 0.0314                        | mg/Kg | EPA 8260B       | 10/19/12      | 83.6                         | 79.3                                   | 5.26                   | 65.7-120                           | 25                           |
| Trichlorofluoromethane | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0321              | 0.0304                        | mg/Kg | EPA 8260B       | 10/19/12      | 82.3                         | 76.8                                   | 6.87                   | 63.9-121                           | 25                           |
| c-1,3-Dichloropropene  | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0348              | 0.0301                        | mg/Kg | EPA 8260B       | 10/19/12      | 89.0                         | 76.2                                   | 15.5                   | 70.0-130                           | 25                           |
| cis-1,2-Dichloroethene | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0348              | 0.0340                        | mg/Kg | EPA 8260B       | 10/19/12      | 89.0                         | 86.1                                   | 3.30                   | 70.0-130                           | 25                           |
|                        | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0348              | 0.0312                        | mg/Kg | EPA 8260B       | 10/19/12      | 89.0                         | 79.1                                   | 11.8                   | 70.0-130                           | 25                           |

**QC Report : Matrix Spike/ Matrix Spike Duplicate**Project Name : **P&D 23rd Ave. Partners**Project Number : **CB018H**

| Parameter                 | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicate Spiked Sample Percent Recov. | Relative Percent Diff. | Spiked Sample Percent Recov. Limit | Relative Percent Diff. Limit |
|---------------------------|---------------|--------------|-------------|------------------|---------------------|-------------------------------|-------|-----------------|---------------|------------------------------|--|------------------------|------------------------------------|------------------------------|
| <b>n-butylbenzene</b>     | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0212              | 0.0182                        | mg/Kg | EPA 8260B       | 10/19/12      | <b>54.3</b>                  | <b>46.2</b>                            | 16.1                   | 70.0-130                           | 25                           |
| <b>n-propylbenzene</b>    | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0266              | 0.0232                        | mg/Kg | EPA 8260B       | 10/19/12      | <b>68.0</b>                  | <b>58.6</b>                            | 14.9                   | 70.0-130                           | 25                           |
| <b>p-isopropyltoluene</b> | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0234              | 0.0196                        | mg/Kg | EPA 8260B       | 10/19/12      | <b>59.9</b>                  | <b>49.6</b>                            | 18.8                   | 70.0-130                           | 25                           |
| <b>sec-butylbenzene</b>   | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0236              | 0.0194                        | mg/Kg | EPA 8260B       | 10/19/12      | <b>60.3</b>                  | <b>49.0</b>                            | 20.7                   | 70.0-130                           | 25                           |
| t-1,2-Dichloroethene      | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0352              | 0.0307                        | mg/Kg | EPA 8260B       | 10/19/12      | 90.2                         | 77.8                                   | 14.8                   | 70.0-130                           | 25                           |
| t-1,3-Dichloropropene     | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0344              | 0.0337                        | mg/Kg | EPA 8260B       | 10/19/12      | 88.1                         | 85.2                                   | 3.37                   | 70.0-130                           | 25                           |
| <b>tert-butylbenzene</b>  | 82952-01      | <0.0050      | 0.0391      | 0.0395           | 0.0264              | 0.0212                        | mg/Kg | EPA 8260B       | 10/19/12      | <b>67.5</b>                  | <b>53.7</b>                            | 22.8                   | 70.0-130                           | 25                           |

**QC Report : Laboratory Control Sample (LCS)**Project Name : **P&D 23rd Ave. Partners**Project Number : **CB018H**

| Parameter                 | Spike Level | Units | Analysis Method | Date Analyzed | LCS Percent Recov. | LCS Percent Recov. Limit |
|---------------------------|-------------|-------|-----------------|---------------|--------------------|--------------------------|
| Mercury                   | 0.100       | mg/Kg | EPA 7471A       | 10/19/12      | 97.8               | 85-115                   |
| Antimony                  | 50.0        | mg/Kg | EPA 6010B       | 10/18/12      | 97.2               | 85-115                   |
| Arsenic                   | 50.0        | mg/Kg | EPA 6010B       | 10/18/12      | 98.3               | 85-115                   |
| Barium                    | 50.0        | mg/Kg | EPA 6010B       | 10/18/12      | 98.6               | 85-115                   |
| Beryllium                 | 50.0        | mg/Kg | EPA 6010B       | 10/18/12      | 97.5               | 85-115                   |
| Cadmium                   | 50.0        | mg/Kg | EPA 6010B       | 10/18/12      | 97.6               | 85-115                   |
| Chromium                  | 50.0        | mg/Kg | EPA 6010B       | 10/18/12      | 98.8               | 85-115                   |
| Cobalt                    | 50.0        | mg/Kg | EPA 6010B       | 10/18/12      | 99.5               | 85-115                   |
| Copper                    | 50.0        | mg/Kg | EPA 6010B       | 10/18/12      | 95.3               | 85-115                   |
| Lead                      | 50.0        | mg/Kg | EPA 6010B       | 10/18/12      | 97.6               | 85-115                   |
| Molybdenum                | 50.0        | mg/Kg | EPA 6010B       | 10/18/12      | 97.7               | 85-115                   |
| Nickel                    | 50.0        | mg/Kg | EPA 6010B       | 10/18/12      | 99.2               | 85-115                   |
| Selenium                  | 50.0        | mg/Kg | EPA 6010B       | 10/18/12      | 96.2               | 85-115                   |
| Silver                    | 12.5        | mg/Kg | EPA 6010B       | 10/18/12      | 98.1               | 85-115                   |
| Thallium                  | 50.0        | mg/Kg | EPA 6010B       | 10/18/12      | 98.0               | 85-115                   |
| Vanadium                  | 50.0        | mg/Kg | EPA 6010B       | 10/18/12      | 94.5               | 85-115                   |
| Zinc                      | 50.0        | mg/Kg | EPA 6010B       | 10/18/12      | 98.0               | 85-115                   |
| TPH as Diesel             | 20.0        | mg/Kg | M EPA 8015      | 10/22/12      | 98.0               | 70-130                   |
| 1,1,1,2-Tetrachloroethane | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 91.7               | 70.0-130                 |

**QC Report : Laboratory Control Sample (LCS)**Project Name : **P&D 23rd Ave. Partners**Project Number : **CB018H**

| Parameter                   | Spike Level | Units | Analysis Method | Date Analyzed | LCS Percent Recov. | LCS Percent Recov. Limit |
|-----------------------------|-------------|-------|-----------------|---------------|--------------------|--------------------------|
| 1,1,1-Trichloroethane       | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 94.7               | 70.0-130                 |
| 1,1,2,2-Tetrachloroethane   | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 101                | 60.7-133                 |
| 1,1,2-Trichloroethane       | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 94.6               | 70.0-130                 |
| 1,1-Dichloroethane          | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 95.5               | 66.1-120                 |
| 1,1-Dichloroethene          | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 94.9               | 65.9-122                 |
| 1,1-Dichloropropene         | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 94.6               | 70.0-130                 |
| 1,2,3-Trichlorobenzene      | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 82.8               | 70.0-130                 |
| 1,2,3-Trichloropropane      | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 90.5               | 70.0-130                 |
| 1,2,4-Trichlorobenzene      | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 81.8               | 70.0-130                 |
| 1,2,4-Trimethylbenzene      | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 86.3               | 70.0-130                 |
| 1,2-Dibromoethane           | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 96.0               | 67.2-121                 |
| 1,2-Dichlorobenzene         | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 89.5               | 56.3-123                 |
| 1,2-Dichloroethane          | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 94.9               | 64.0-124                 |
| 1,2-Dichloropropane         | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 96.3               | 66.6-120                 |
| 1,2-dibromo-3-chloropropane | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 86.0               | 59.4-138                 |
| 1,3,5-Trimethylbenzene      | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 90.8               | 70.0-130                 |
| 1,3-Dichlorobenzene         | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 80.6               | 52.5-132                 |
| 1,3-Dichloropropane         | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 94.7               | 70.0-130                 |
| 1,4-Dichlorobenzene         | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 89.1               | 57.0-123                 |
| 2+4-Chlorotoluene           | 0.0765      | mg/Kg | EPA 8260B       | 10/18/12      | 90.3               | 70.0-130                 |
| 2,2-Dichloropropane         | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 96.5               | 70.0-130                 |
| Benzene                     | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 96.6               | 67.9-120                 |
| Bromobenzene                | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 86.4               | 70.0-130                 |



**QC Report : Laboratory Control Sample (LCS)**Project Name : **P&D 23rd Ave. Partners**Project Number : **CB018H**

| Parameter               | Spike Level | Units | Analysis Method | Date Analyzed | LCS Percent Recov. | LCS Percent Recov. Limit |
|-------------------------|-------------|-------|-----------------|---------------|--------------------|--------------------------|
| Bromochloromethane      | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 91.3               | 70.0-130                 |
| Bromodichloromethane    | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 95.0               | 70.0-130                 |
| Bromoform               | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 92.5               | 58.2-146                 |
| Bromomethane            | 0.191       | mg/Kg | EPA 8260B       | 10/18/12      | 104                | 45.5-139                 |
| Carbon Tetrachloride    | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 92.7               | 70.0-130                 |
| Chlorobenzene           | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 91.6               | 63.4-122                 |
| Chloroethane            | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 110                | 70.0-130                 |
| Chloroform              | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 93.8               | 67.4-121                 |
| Chloromethane           | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 110                | 47.9-127                 |
| Dibromochloromethane    | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 93.7               | 70.0-130                 |
| Dibromomethane          | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 87.6               | 70.0-130                 |
| Dichlorodifluoromethane | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 106                | 40.5-144                 |
| Ethylbenzene            | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 97.0               | 65.5-127                 |
| Hexachlorobutadiene     | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 84.0               | 70.0-130                 |
| Isopropyl benzene       | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 92.5               | 70.0-130                 |
| Methyl-t-butyl ether    | 0.0383      | mg/Kg | EPA 8260B       | 10/18/12      | 81.2               | 57.0-122                 |
| Methylene Chloride      | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 92.6               | 70.0-130                 |
| Naphthalene             | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 93.1               | 70.0-130                 |
| O-Xylene                | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 95.6               | 62.3-124                 |
| P + M Xylene            | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 93.8               | 62.5-124                 |
| Styrene                 | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 95.7               | 70.0-130                 |
| Tetrachloroethene       | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 86.0               | 64.7-122                 |
| Toluene                 | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 94.9               | 65.7-120                 |

**QC Report : Laboratory Control Sample (LCS)**Project Name : **P&D 23rd Ave. Partners**Project Number : **CB018H**

| Parameter                 | Spike Level | Units | Analysis Method | Date Analyzed | LCS Percent Recov. | LCS Percent Recov. Limit |
|---------------------------|-------------|-------|-----------------|---------------|--------------------|--------------------------|
| Trichloroethene           | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 85.7               | 63.9-121                 |
| Trichlorofluoromethane    | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 95.6               | 70.0-130                 |
| Vinyl Chloride            | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 103                | 45.9-127                 |
| c-1,3-Dichloropropene     | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 97.4               | 70.0-130                 |
| cis-1,2-Dichloroethene    | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 95.9               | 70.0-130                 |
| n-butylbenzene            | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 93.0               | 70.0-130                 |
| n-propylbenzene           | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 91.0               | 70.0-130                 |
| p-isopropyltoluene        | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 84.0               | 70.0-130                 |
| sec-butylbenzene          | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 85.7               | 70.0-130                 |
| t-1,2-Dichloroethene      | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 89.5               | 70.0-130                 |
| t-1,3-Dichloropropene     | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 95.8               | 70.0-130                 |
| tert-butylbenzene         | 0.0382      | mg/Kg | EPA 8260B       | 10/18/12      | 84.2               | 70.0-130                 |
| 1,1,1,2-Tetrachloroethane | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 93.0               | 70.0-130                 |
| 1,1,1-Trichloroethane     | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 93.7               | 70.0-130                 |
| 1,1,2,2-Tetrachloroethane | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 97.1               | 60.7-133                 |
| 1,1,2-Trichloroethane     | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 95.4               | 70.0-130                 |
| 1,1-Dichloroethane        | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 93.0               | 66.1-120                 |
| 1,1-Dichloroethene        | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 92.4               | 65.9-122                 |
| 1,1-Dichloropropene       | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 88.0               | 70.0-130                 |
| 1,2,3-Trichlorobenzene    | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 89.9               | 70.0-130                 |
| 1,2,3-Trichloropropane    | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 89.4               | 70.0-130                 |
| 1,2,4-Trichlorobenzene    | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 89.0               | 70.0-130                 |

**QC Report : Laboratory Control Sample (LCS)**Project Name : **P&D 23rd Ave. Partners**Project Number : **CB018H**

| Parameter                   | Spike Level | Units | Analysis Method | Date Analyzed | LCS Percent Recov. | LCS Percent Recov. Limit |
|-----------------------------|-------------|-------|-----------------|---------------|--------------------|--------------------------|
| 1,2,4-Trimethylbenzene      | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 91.6               | 70.0-130                 |
| 1,2-Dibromoethane           | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 97.4               | 67.2-121                 |
| 1,2-Dichlorobenzene         | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 90.4               | 56.3-123                 |
| 1,2-Dichloroethane          | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 90.5               | 64.0-124                 |
| 1,2-Dichloropropane         | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 90.6               | 66.6-120                 |
| 1,2-dibromo-3-chloropropane | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 96.4               | 59.4-138                 |
| 1,3,5-Trimethylbenzene      | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 92.0               | 70.0-130                 |
| 1,3-Dichlorobenzene         | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 90.5               | 52.5-132                 |
| 1,3-Dichloropropane         | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 94.0               | 70.0-130                 |
| 1,4-Dichlorobenzene         | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 89.2               | 57.0-123                 |
| 2+4-Chlorotoluene           | 0.0727      | mg/Kg | EPA 8260B       | 10/19/12      | 91.8               | 70.0-130                 |
| 2,2-Dichloropropane         | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 94.7               | 70.0-130                 |
| Benzene                     | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 92.3               | 67.9-120                 |
| Bromobenzene                | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 89.9               | 70.0-130                 |
| Bromochloromethane          | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 97.4               | 70.0-130                 |
| Bromodichloromethane        | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 94.1               | 70.0-130                 |
| Bromoform                   | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 97.8               | 58.2-146                 |
| Bromomethane                | 0.182       | mg/Kg | EPA 8260B       | 10/19/12      | 88.3               | 45.5-139                 |
| Carbon Tetrachloride        | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 94.0               | 70.0-130                 |
| Chlorobenzene               | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 89.7               | 63.4-122                 |
| Chloroethane                | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 90.8               | 70.0-130                 |
| Chloroform                  | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 93.7               | 67.4-121                 |
| Chloromethane               | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 125                | 47.9-127                 |

**QC Report : Laboratory Control Sample (LCS)**Project Name : **P&D 23rd Ave. Partners**Project Number : **CB018H**

| Parameter              | Spike Level | Units | Analysis Method | Date Analyzed | LCS Percent Recov. | LCS Percent Recov. Limit |
|------------------------|-------------|-------|-----------------|---------------|--------------------|--------------------------|
| Dibromochloromethane   | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 99.1               | 70.0-130                 |
| Dibromomethane         | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 96.4               | 70.0-130                 |
| Ethylbenzene           | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 88.2               | 65.5-127                 |
| Hexachlorobutadiene    | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 86.7               | 70.0-130                 |
| Isopropyl benzene      | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 89.6               | 70.0-130                 |
| Methyl-t-butyl ether   | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 87.6               | 57.0-122                 |
| Methylene Chloride     | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 99.7               | 70.0-130                 |
| Naphthalene            | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 93.7               | 70.0-130                 |
| O-Xylene               | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 92.2               | 62.3-124                 |
| P + M Xylene           | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 88.3               | 62.5-124                 |
| Styrene                | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 95.8               | 70.0-130                 |
| Tetrachloroethene      | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 87.7               | 64.7-122                 |
| Toluene                | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 91.8               | 65.7-120                 |
| Trichloroethene        | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 87.5               | 63.9-121                 |
| Trichlorofluoromethane | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 90.0               | 70.0-130                 |
| c-1,3-Dichloropropene  | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 94.8               | 70.0-130                 |
| cis-1,2-Dichloroethene | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 92.5               | 70.0-130                 |
| n-butylbenzene         | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 86.8               | 70.0-130                 |
| n-propylbenzene        | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 90.8               | 70.0-130                 |
| p-isopropyltoluene     | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 90.7               | 70.0-130                 |
| sec-butylbenzene       | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 91.2               | 70.0-130                 |
| t-1,2-Dichloroethene   | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 93.6               | 70.0-130                 |
| t-1,3-Dichloropropene  | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 94.5               | 70.0-130                 |

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **P&D 23rd Ave. Partners**

Project Number : **CB018H**

| Parameter         | Spike Level | Units | Analysis Method | Date Analyzed | LCS Percent Recov. | LCS Percent Recov. Limit |
|-------------------|-------------|-------|-----------------|---------------|--------------------|--------------------------|
| tert-butylbenzene | 0.0364      | mg/Kg | EPA 8260B       | 10/19/12      | 93.4               | 70.0-130                 |



**SAMPLE RECEIPT CHECKLIST**

RECEIVER  
WJR  
Initials

SRG#:

82952

Date:

10/17/12

Project ID:

P&D 23rd Ave - Partners

Method of Receipt:  Courier  Over-the-counter  Shipper

Shipping Only:  FedEx \*  OnTrac \*  Greyhound  Other \*Service level if not Priority or Sunrise (M-F): \_\_\_\_\_

**COC Inspection**

Is COC present?  Yes  No  
 Custody seals on shipping container?  Intact  Broken  Not present  N/A  
 Is COC Signed by Relinquisher?  Yes  No Dated?  Yes  No  
 Is sampler name legibly indicated on COC?  Yes  No  
 Is analysis or hold requested for all samples?  Yes  No  
 Is the turnaround time indicated on COC?  Yes  No  
 Is COC free of whiteout and uninitialed cross-outs?  Yes  No, Whiteout  No, Cross-outs

**Sample Inspection**

Coolant Present: 4-4  Yes  No (includes water)  
 Temperature °C 4-4 Therm. ID# IR-4 Initial WJR Date/Time 10/17/12 / 1142  N/A  
 Are there custody seals on sample containers?  Intact  Broken  Not present  
 Do containers match COC?  Yes  No  No, COC lists absent sample(s)  No, Extra sample(s) present  
 Are there samples matrices other than soil, water, air or carbon?  Yes  No  
 Are any sample containers broken, leaking or damaged?  Yes  No  
 Are preservatives indicated?  Yes, on sample containers  Yes, on COC  Not indicated  N/A  
 Are preservatives correct for analyses requested?  Yes  No  N/A  
 Are samples within holding time for analyses requested?  Yes  No  
 Are the correct sample containers used for the analyses requested?  Yes  No  
 Is there sufficient sample to perform testing?  Yes  No  
 Does any sample contain product, have strong odor or are otherwise suspected to be hot?  Yes  No

**Receipt Details**

Matrix SO Container type steeve # of containers received 6  
 Matrix \_\_\_\_\_ Container type \_\_\_\_\_ # of containers received \_\_\_\_\_  
 Matrix \_\_\_\_\_ Container type \_\_\_\_\_ # of containers received \_\_\_\_\_  
 Date and Time Sample Put into Temp Storage Date: 10/17/12 Time: 1145

**Quicklog**

Are the Sample ID's indicated:  On COC  On sample container(s)  On Both  Not indicated  
 If Sample ID's are listed on both COC and containers, do they all match?  Yes  No  N/A  
 Is the Project ID indicated:  On COC  On sample container(s)  On Both  Not indicated  
 If project ID is listed on both COC and containers, do they all match?  Yes  No  N/A  
 Are the sample collection dates indicated:  On COC  On sample container(s)  On Both  Not indicated  
 If collection dates are listed on both COC and containers, do they all match?  Yes  No  N/A  
 Are the sample collection times indicated:  On COC  On sample container(s)  On Both  Not indicated  
 If collection times are listed on both COC and containers, do they all match?  Yes  No  N/A

**COMMENTS:**

No method on COC for CAM 17. WJR 10/17/12-1148



# Subcontract Laboratory Report Attachments





# CALSCIENCE

WORK ORDER NUMBER: 12-11-0182

*The difference is service*



AIR | SOIL | WATER | MARINE CHEMISTRY

## Analytical Report For

**Client:** Kiff Analytical

**Client Project Name:** P&D 23rd Ave. Partners

**Attention:** Joel Kiff  
2795 2nd Street, Suite 300  
Davis, CA 95618-6505

*Amanda Porter*

Approved for release on 11/9/2012 by:  
Amanda Porter  
Project Manager

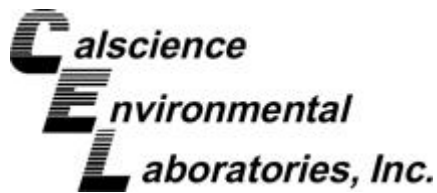
ResultLink ▶

Email your PM ▶



Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any litigation which may arise.





Analytical Report



Kiff Analytical  
2795 2nd Street, Suite 300  
Davis, CA 95618-6505

Date Received: 11/03/12  
Work Order No: 12-11-0182  
Preparation: T22.11.5. All  
Method: EPA 6010B  
Units: mg/L

Project: P&D 23rd Ave. Partners

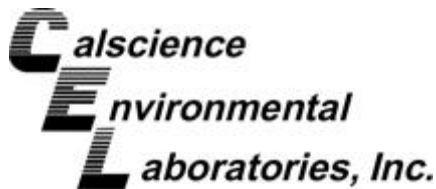
Page 1 of 1

| Client Sample Number | Lab Sample Number | Date /Time Collected | Matrix  | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|----------------------|---------|------------|---------------|--------------------|-------------|
| CS-6-Comp 3 Drums    | 12-11-0182-1-A    | 10/16/12 12:45       | Aqueous | ICP 7300   | 11/05/12      | 11/07/12 15:15     | 121107LA2   |

| Parameter    | Result | RL    | DF | Qual | Parameter        | Result   | RL       | DF             | Qual      |
|--------------|--------|-------|----|------|------------------|----------|----------|----------------|-----------|
| Chromium     | 0.322  | 0.100 | 1  |      | Lead             | 3.29     | 0.100    | 1              |           |
| Method Blank |        |       |    |      | 097-05-006-6,464 | N/A      |          |                |           |
|              |        |       |    |      | Aqueous          | ICP 7300 | 11/05/12 | 11/07/12 15:05 | 121107LA2 |

| Parameter | Result | RL    | DF | Qual | Parameter | Result | RL    | DF | Qual |
|-----------|--------|-------|----|------|-----------|--------|-------|----|------|
| Chromium  | ND     | 0.100 | 1  |      | Lead      | ND     | 0.100 | 1  |      |

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate



Kiff Analytical  
 2795 2nd Street, Suite 300  
 Davis, CA 95618-6505

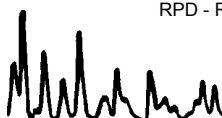
Date Received: 11/03/12  
 Work Order No: 12-11-0182  
 Preparation: T22.11.5. All  
 Method: EPA 6010B

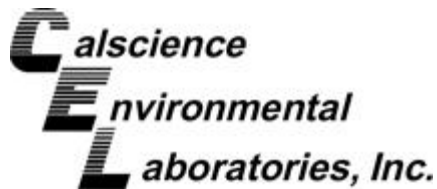
Project P&D 23rd Ave. Partners

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|---------------------|
| 12-11-0328-1              | Aqueous | ICP 7300   | 11/07/12      | 11/07/12      | 121107SA2           |

| Parameter | SAMPLE CONC | SPIKE ADDED | MS CONC | MS %REC | MSD CONC | MSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|-----------|-------------|-------------|---------|---------|----------|----------|---------|-----|--------|------------|
| Chromium  | ND          | 5.000       | 5.080   | 102     | 4.944    | 99       | 75-125  | 3   | 0-20   |            |
| Lead      | ND          | 5.000       | 5.259   | 105     | 5.149    | 103      | 75-125  | 2   | 0-20   |            |

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Kiff Analytical  
 2795 2nd Street, Suite 300  
 Davis, CA 95618-6505

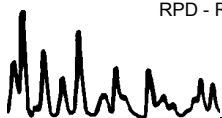
Date Received: N/A  
 Work Order No: 12-11-0182  
 Preparation: T22.11.5. All  
 Method: EPA 6010B

Project: P&D 23rd Ave. Partners

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|-----------------------|
| 097-05-006-6,464          | Aqueous | ICP 7300   | 11/05/12      | 11/07/12      | 121107LA2             |

| Parameter | <u>SPIKE ADDED</u> | <u>LCS CONC</u> | <u>LCS %REC</u> | <u>LCSD CONC</u> | <u>LCSD %REC</u> | <u>%REC CL</u> | <u>RPD</u> | <u>RPD CL</u> | <u>Qualifiers</u> |
|-----------|--------------------|-----------------|-----------------|------------------|------------------|----------------|------------|---------------|-------------------|
| Chromium  | 5.000              | 5.227           | 105             | 5.079            | 102              | 80-120         | 3          | 0-20          |                   |
| Lead      | 5.000              | 5.382           | 108             | 5.189            | 104              | 80-120         | 4          | 0-20          |                   |

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 12-11-0182

| <u>Qualifier</u> | <u>Definition</u>  |
|------------------|--|
| *                | See applicable analysis comment.   |
| <                | Less than the indicated value.   |
| >                | Greater than the indicated value.  |
| 1                | Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.   |
| 2                | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.                             |
| 3                | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.    |
| 4                | The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.  |
| 5                | The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification. |
| 6                | Surrogate recovery below the acceptance limit.   |
| 7                | Surrogate recovery above the acceptance limit.   |
| B                | Analyte was present in the associated method blank.  |
| BU               | Sample analyzed after holding time expired.  |
| E                | Concentration exceeds the calibration range.   |
| ET               | Sample was extracted past end of recommended max. holding time.  |
| HD               | The chromatographic pattern was inconsistent with the profile of the reference fuel standard.  |
| HDH              | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).   |
| HDL              | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).   |
| J                | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.  |
| ME               | LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.   |
| ND               | Parameter not detected at the indicated reporting limit.   |
| Q                | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.  |
| SG               | The sample extract was subjected to Silica Gel treatment prior to analysis.  |
| X                | % Recovery and/or RPD out-of-range.  |
| Z                | Analyte presence was not confirmed by second column or GC/MS analysis.   |

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

MPN - Most Probable Number





2795 Second Street, Suite 300  
 Davis, CA 95618  
 Lab: 530.297.4800  
 Fax: 530.297.4808

Calscience  
 7440 Lincoln Way  
 Garden Grove, CA 92841-1427  
 714-895-5494

**12-11-0182**

COC No. **82952** Page 1 of 1

|  |  |   |   |                            |  |                  |  |          |  |                      |  |  |  |  |  |  |  |                  |  |                  |  |          |  |          |  |
|--|--|---|---|----------------------------|--|------------------|--|----------|--|----------------------|--|--|--|--|--|--|--|------------------|--|------------------|--|----------|--|----------|--|
| Project Contact (Hardcopy or PDF to):<br><b>Jennifer Worsley</b> |  | EDF Report? <b>No</b>   | <b>Chain-of-Custody Record and Analysis Request</b> |                            |  |                  |  |          |  |                      |  |  |  |  |  |  |  |                  |  |                  |  |          |  |          |  |
| Company/Address:<br><b>Kiff Analytical</b>                       |  | Recommended but not mandatory to complete this section:             |   |                            |  |                  |  |          |  |                      |  |  |  |  |  |  |  |                  |  |                  |  |          |  |          |  |
| Phone No.:<br><b>530-297-4800</b>                                |  | FAX No.:<br><b>530-297-4808</b>                                     |   | Sampling Company Log Code: |  | Analysis Request |  |          |  |                      |  |  |  |  |  |  |  | Due Date         |  |                  |  |          |  |          |  |
| Project Number:<br><b>CB018H</b>                                 |  | P.O. No.:<br><b>82952</b>   |   | Global ID:                 |  |                  |  |          |  |                      |  |  |  |  |  |  |  | November 9, 2012 |  | For Lab Use Only |  |          |  |          |  |
| Project Address:<br><b>P&amp;D 23rd Ave. Partners</b>            |  | Deliverables to (Email Address):<br><b>inbox@kiffanalytical.com</b> |   |                            |  |                  |  |          |  |                      |  |  |  |  |  |  |  |                  |  |                  |  |          |  |          |  |
| Project Name:  |  | Container / Preservative  |   |                            |  | Matrix           |  |          |  | ICP 6010 WET SUB (1) |  |  |  |  |  |  |  |                  |  |                  |  |          |  |          |  |
| Project Address:   |  | Sleeve None   |   | Soil                       |  | Soil             |  | Soil     |  |                      |  |  |  |  |  |  |  |                  |  |                  |  |          |  |          |  |
| Sample Designation   |  | Date  |   | Time                       |  | Sleeve None      |  | Soil     |  |                      |  |  |  |  |  |  |  |                  |  |                  |  | Soil     |  | Soil     |  |
| <b>CS-6-Comp 3 Drums</b>   |  | <b>10/16/12</b>   |   | <b>12:45</b>               |  | <b>1</b>         |  | <b>X</b> |  |                      |  |  |  |  |  |  |  |                  |  |                  |  | <b>X</b> |  | <b>X</b> |  |
|  |  |   |   |                            |  |                  |  |          |  |                      |  |  |  |  |  |  |  |                  |  |                  |  |          |  |          |  |
|  |  |   |   |                            |  |                  |  |          |  |                      |  |  |  |  |  |  |  |                  |  |                  |  |          |  |          |  |
|  |  |   |   |                            |  |                  |  |          |  |                      |  |  |  |  |  |  |  |                  |  |                  |  |          |  |          |  |
|  |  |   |   |                            |  |                  |  |          |  |                      |  |  |  |  |  |  |  |                  |  |                  |  |          |  |          |  |
|  |  |   |   |                            |  |                  |  |          |  |                      |  |  |  |  |  |  |  |                  |  |                  |  |          |  |          |  |
|  |  |   |   |                            |  |                  |  |          |  |                      |  |  |  |  |  |  |  |                  |  |                  |  |          |  |          |  |

|   |                         |                     |   |
|---|-------------------------|---------------------|---|
| Relinquished by:<br><i>[Signature]</i> KiffAnalytical | Date<br><b>11/02/12</b> | Time<br><b>1900</b> | Received by:                                  |
| Relinquished by:                                      | Date                    | Time                | Received by:                                  |
| Relinquished by:                                      | Date<br><b>11/03/12</b> | Time<br><b>1050</b> | Received by Laboratory:<br><i>[Signature]</i> |

Remarks: Please refer to attached Test Detail.

Bill to: **Accounts Payable**

Page 6 of 9

## Test Detail for Kiff Work Order: 82952

**ICP 6010 WET SUB (1)**

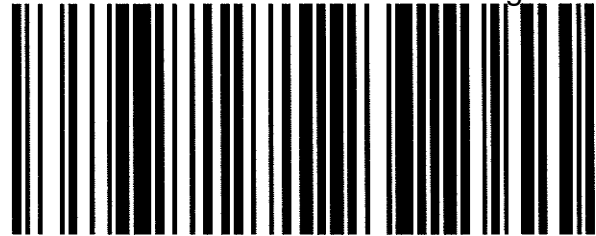
Chromium, WET

Lead, WET



**800.334.5000**  
**ontrac.com**

0182



D10010523619158

Date Printed 11/2/2012

Tracking#D10010523619158

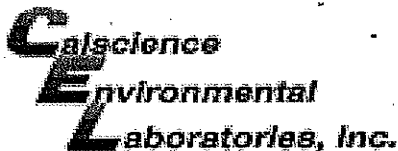
*Shipped From:*  
KIFF ANALYTICAL  
2795 2ND STREET 300  
DAVIS, CA 95618

*Sent By:* SAMPLE RECEIVINGX125  
*Phone#:* (530)297-4800  
*wgt(lbs):* 1  
*Reference:* SUB SRG SAMPLES  
*Reference 2:*

*Ship To Company:*  
**CALSCIENCE ENVIRONMENTAL**  
**7440 LINCOLN WAY**  
**GARDEN GROVE, CA 92841**  
**RECEIVING (714)895-5494**  
  
**B10207210772**

*Service:* **S**  
*Sort Code:* **ORG**  
  
*Special Services:*  
**Saturday Delivery**  
**Signature Required**





WORK ORDER #: 12-11-0182

# SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: KIFF

DATE: 11/03/12

**TEMPERATURE:** Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 1.8 °C - 0.3 °C (CF) = 1.5 °C     Blank     Sample

Sample(s) outside temperature criteria (PM/APM contacted by: \_\_\_\_\_).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature:     Air     Filter

Initial: YL

**CUSTODY SEALS INTACT:**

Cooler     \_\_\_\_\_     No (Not Intact)     Not Present     N/A    Initial: YL

Sample     \_\_\_\_\_     No (Not Intact)     Not Present    Initial: WJ

| SAMPLE CONDITION:  | Yes                                 | No                       | N/A                                 |
|--|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples.....  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| COC document(s) received complete.....   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.                                |                                     |                          |                                     |
| <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. |                                     |                          |                                     |
| Sampler's name indicated on COC.....   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sample container label(s) consistent with COC.....   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Sample container(s) intact and good condition.....   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Proper containers and sufficient volume for analyses requested.....  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Analyses received within holding time.....   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours...  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation noted on COC or sample container.....  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis   |                                     |                          |                                     |
| Volatile analysis container(s) free of headspace.....  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tedlar bag(s) free of condensation.....  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**CONTAINER TYPE:**

**Solid:**  4ozCGJ     8ozCGJ     16ozCGJ     Sleeve (B)     EnCores®     TerraCores®     \_\_\_\_\_

**Water:**  VOA     VOA<sub>h</sub>     VOA<sub>na2</sub>     125AGB     125AGB<sub>h</sub>     125AGB<sub>p</sub>     1AGB     1AGB<sub>na2</sub>     1AGB<sub>s</sub>

500AGB     500AGJ     500AGJ<sub>s</sub>     250AGB     250CGB     250CGB<sub>s</sub>     1PB     1PB<sub>na</sub>     500PB

250PB     250PB<sub>n</sub>     125PB     125PB<sub>z<sub>na</sub></sub>     100PJ     100PJ<sub>na2</sub>     \_\_\_\_\_     \_\_\_\_\_     \_\_\_\_\_

**Air:**  Tedlar®     Canister    **Other:**  \_\_\_\_\_    **Trip Blank Lot#:** \_\_\_\_\_    **Labeled/Checked by:** WJ

**Container:** C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope    **Reviewed by:** YL

**Preservative:** h: HCL n: HNO<sub>3</sub> na<sub>2</sub>: Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> na: NaOH p: H<sub>3</sub>PO<sub>4</sub> s: H<sub>2</sub>SO<sub>4</sub> u: Ultra-pure z<sub>na</sub>: ZnAc<sub>2</sub>+NaOH f: Filtered    **Scanned by:** YL