September 30, 2013

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: Third Quarter 2013 – Groundwater Monitoring Report P&D 23rd Avenue Associates

P&D 23rd Avenue Associates 1125 Miller Avenue, Oakland, CA Clearwater Project No. CB018R ACEH Fuel Case Leak No. RO0000294

Dear Mr. Wickham,

As the legally authorized representative of the above-referenced project location I have reviewed the attached report 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,

Mr. John Protopappas



September 27, 2013

Mr. Jerry Wickham, P.G. Senior Hazardous Materials Specialist Alameda County Health Care Services Agency Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

Re: Third Quarter 2013 – Groundwater Monitoring Report

P&D 23rd Avenue Associates LLC (Formerly 23rd Avenue Partners) 1125 Miller Avenue Oakland, California Geotracker Global ID # T0600177455 Clearwater Group Project Number CB018R

Dear Mr. Wickham,

This report, prepared by Clearwater Group (Clearwater) on behalf of P&D 23rd Avenue Associates LLC, summarizes the results of quarterly groundwater-monitoring activities conducted during the third quarter 2013, at 1125 Miller Avenue in Oakland, Alameda County, California (*site*) [**Figures 1** and **2**]. This report responds to items #2 and #4 from the directive dated March 26, 2013, from Alameda County Environmental Health (ACEH) which is included in **Attachment A**.

A summary (which is periodically updated) of historic investigation work, remediation completed at the *site*, and details regarding groundwater-monitoring activities is included in **Attachment A**; a reference list is included at the end of the summary text. Well construction details for groundwater-monitoring wells MW-1 through MW-3 are included in **Table 1**. Field activities were performed in general accordance with Clearwater's field protocols, included in **Attachment B**. Information on groundwater level and well purging, recorded on the *Well Inspection and Water Level Gauging Form* and *Groundwater Sampling Forms: Low-Flow, Low-Stress Method*, is included in **Attachment C**.

GROUNDWATER MONITORING

Groundwater Monitoring Activities

On September 6, 2013, three groundwater-monitoring wells (MW-1 through MW-3) were gauged, and groundwater samples were collected for analysis from all three wells.



Laboratory Analyses

Groundwater samples were analyzed by Kiff Analytical, LLC (Kiff), a State of California Department of Health Services-certified analytical laboratory, located in Davis, California. The samples were analyzed for concentrations of benzene, toluene, ethylbenzene, and xylenes (collectively known as BTEX); methyl tertiary butyl ether (MTBE); total petroleum hydrocarbons as gasoline (TPH-g); and volatile organic compounds including tetrachloroethene (PCE) and its breakdown products, by United States Environmental Protection Agency (EPA) Method 8260B. The samples were also analyzed for total petroleum hydrocarbons as diesel (TPH-d) by EPA Method 8015M. The analytical report for the third quarter 2013 groundwater-monitoring event including chain-of-custody documentation (Kiff Report number 85938) is included in **Attachment D**.

GROUNDWATER MONITORING RESULTS

Groundwater Elevation and Flow

The static depth-to-water measurements recorded in the groundwater-monitoring wells on September 6, 2013, ranged from approximately 10.29 feet below ground surface (MW-1) to 12.27 feet below ground surface (MW-3) [**Table 2**]. Depth-to-water measurements and well elevation data were used to generate a groundwater elevation map (**Figure 3**). During the third quarter 2013 groundwater-monitoring event, the inferred direction of groundwater flow was to the southwest at a gradient of 0.0039. The groundwater flow direction has been plotted in **Figure 4**, Groundwater Flow Rose Diagram, and is inconsistent and 90 degrees different from the previous observation, which was southeast.

Groundwater Quality Parameters

During the September 6, 2013, event, the samples were described as clear with neither hydrocarbon sheen nor hydrocarbon odor documented or observed in or on the groundwater purged from any of the wells.

Groundwater Sample Analytical Results

The laboratory reported various concentrations of the following contaminants of concern above the laboratory detection limits: TPH-d, benzene, chloroform, and trichloroethene (TCE). The values detected during the September 6, 2013, sampling event are listed in the table below:



Groundwater Sampling Results from September 6, 2013

Well	Sampling	TPH-d	TPH-g	Benzene	Chloroform	TCE					
Number	Date	$(\mu g/L)$	$(\mu g/L)$	$(\mu g/L)$	$(\mu g/L)$	$(\mu g/L)$					
MW-1	9/6/2013	< 50	< 50	< 0.50	< 0.50	1.4					
MW-2	9/6/2013	350	< 50	3.8	0.54	2.6					
MW-3	9/6/2013	150 ^B	< 50	< 0.50	1.1	5.2					
ESL A		100	100	1.0	70	5.0					
μg/L	Micrograms per lite	er									
Footnote A	Environmental Screening Levels (ESL), from 2013 Tier 1 ESLs (screening levels resulting from default setting), available from http://www.waterboards.ca.gov/rwqcb2/water_issues/programs/ESL/Lookup_Tables_Summary_May_2013.pd										
Ecotosta D	f Laboratory note: Discrete peaks in Diesel range, atypical for Diesel Fuel.										
Footnote B	•	-									
Boldface	Values in boldface type represent results above the Environmental Screening Levels										

Analytical results and data on depth to water and groundwater elevation are presented in **Table 3**. These data span the history of environmental work at the *site*; all grab groundwater data are included in this table as well. **Figure 5** presents the site plan showing reported concentrations of dissolved-phase compounds in the groundwater samples collected on September 6, 2013.

RESULTS

Of the three monitoring wells, MW-2 and MW-3 were the only wells impacted with contaminants of concern from the fuel tank release. Groundwater samples collected from all of the wells contained low concentrations of trichloroethene.

GEOTRACKER

Clearwater uploaded depth-to-water data spreadsheets known as GEO_WELL and electronic laboratory reports (EDFs) to the State of California GeoTracker website (www.geotracker.swrcb.ca.gov) on September 18, 2013. Confirmations of the submittal of these data electronically to the website are included (**Attachment E**). This report, upon its completion and certification, will be converted into a PDF file and uploaded to the GeoTracker website per the January 1, 2005, GEO_REPORT requirement.

PROJECT STATUS SUMMARY

Significant activities performed for this *site* during the third quarter of 2013 included:

- Installation of the vapor sealant on the dispenser island excavation on August 12 and 13, 2013; and
- The third quarter 2013 groundwater monitoring event on September 6, 2013.



RECOMMENDATIONS

Clearwater recommends consideration of this *site* for case closure following the completion of one full hydrologic cycle of quarterly sampling events. The next sampling events are planned for the following months:

- December 2013; and
- March 2014

After the full hydrologic cycle, Clearwater will have the appropriate data to evaluate site closure for this site. Clearwater recommends evaluating the *site* based on the Low-Threat Case Closure Policy at that time.



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. In the course of normal business, recommendations by the in-house professional may include the use of equipment, services, or products in which the Company has an interest. Therefore, the Company is making full disclosure of potential or perceived conflicts of interest to all parties.

This report was prepared under the supervision of a State of California Professional Geologist, Engineer, or other licensed professional. 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 and groundwater 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.

Sincerely,

CLEARWATER GROUP

Gavin P. Fisco

Geologist

James A. Jacobs P.G. #4815, C.H.G. #88

Chief Hydrogeologist

Olivia Jacobs, C.E.M #1465 Chief Executive Officer



FIGURES

Figure 1: Site Vicinity Map

Figure 2: Site Plan

Figure 3: Groundwater Elevation and Contour Map (September 6, 2013)

Figure 4: Groundwater Flow Rose Diagram

Figure 5: Dissolved-Phase Analytical Concentrations (September 6, 2013)

TABLES

Table 1: Well Construction Data

Table 2: Cumulative Groundwater Elevation and Gradient Summary Table 3: Cumulative Groundwater Elevation and Analytical Results

ATTACHMENTS

Attachment A: ACEH March 26, 2013 Case File Review for Fuel Leak Case No.

RO0000294 and GeoTracker Global ID T0600177455

Summary of Site Investigation Activities and References List

Attachment B: Low-Flow (Minimal Drawdown) Groundwater Monitoring Standard

Operating Procedure

Attachment C: Well Inspection and Water Level Gauging Form

Groundwater Sampling Forms: Low-Flow, Low-Stress Method

Attachment D: Kiff Analytical, LLC Report Number 85938
Attachment E: GeoTracker Upload Confirmation Pages

cc: Mr. John Protopappas

Madison Park Financial

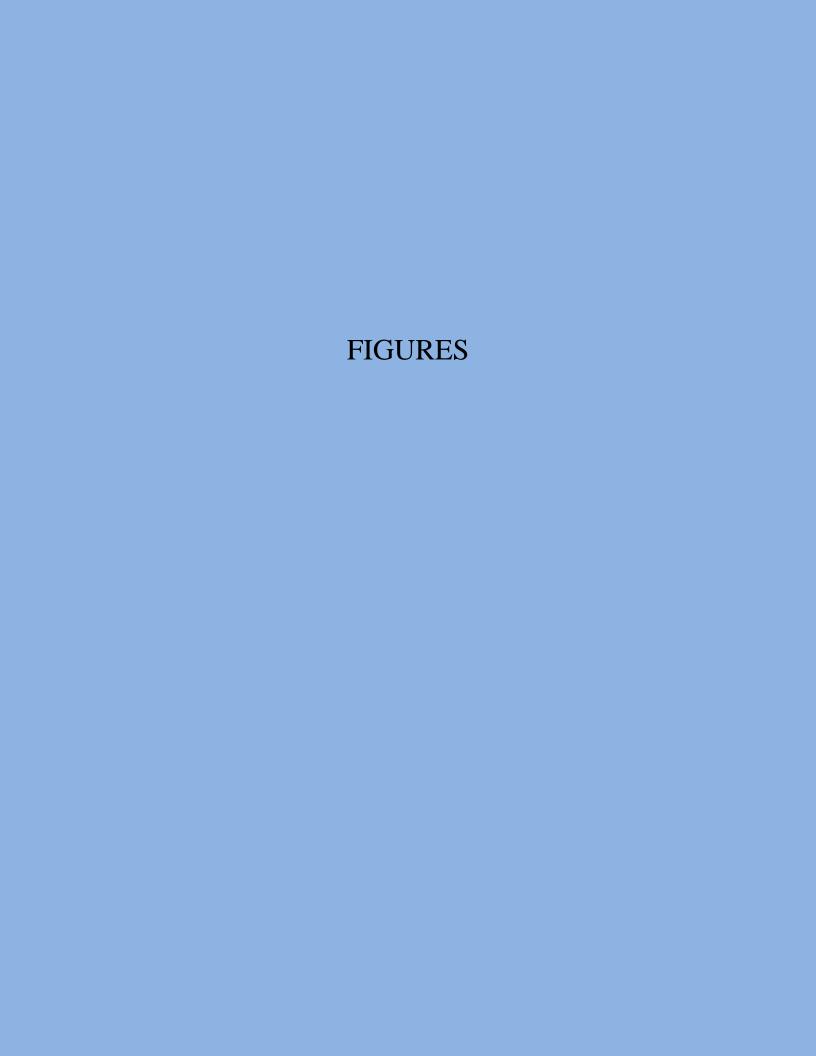
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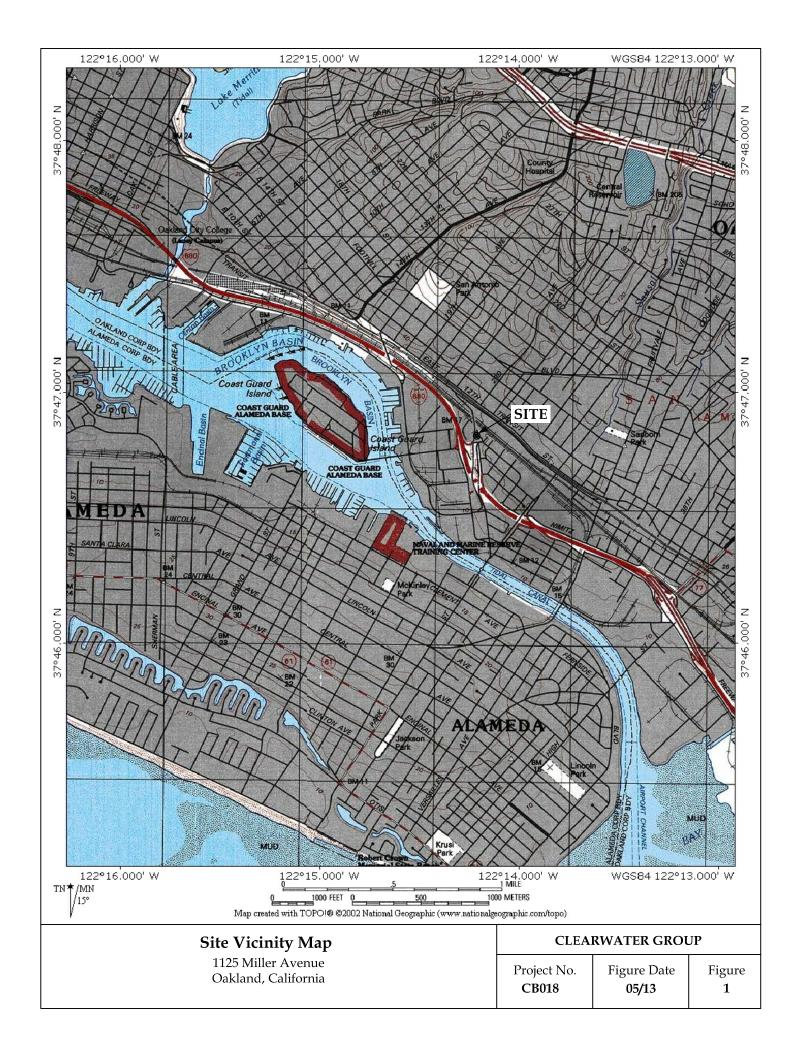
Mr. Leroy Griffin City of Oakland Fire Department

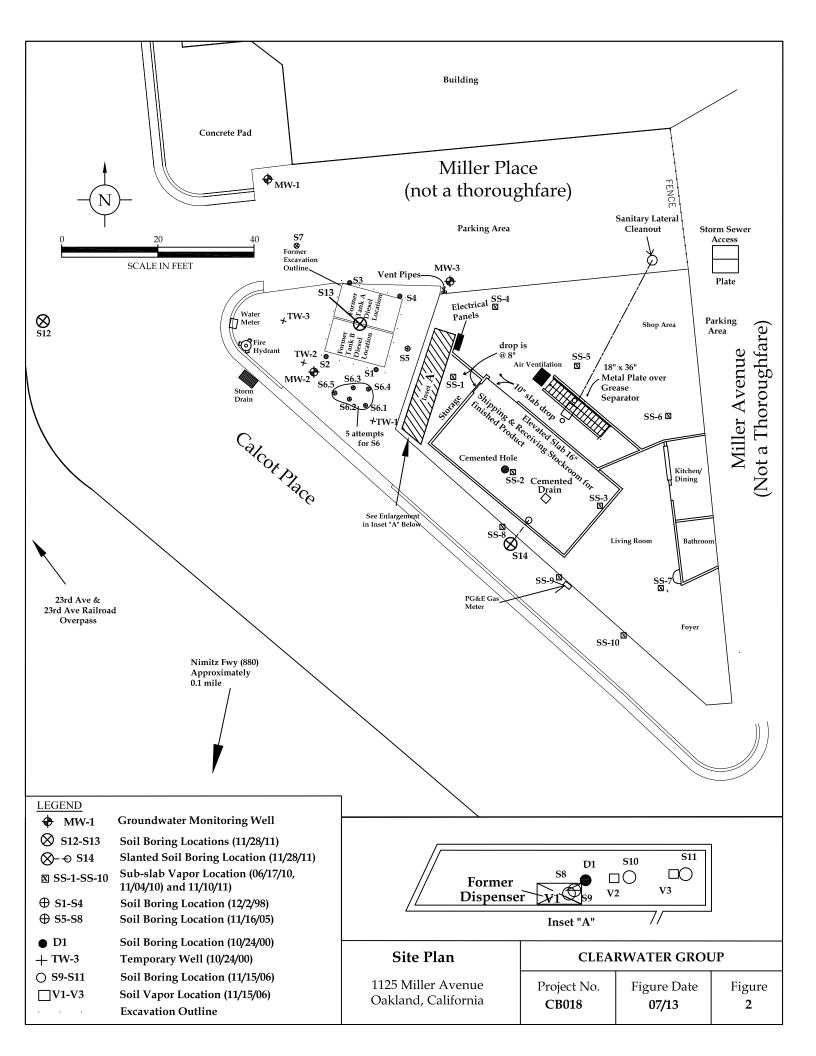
250 Frank H. Ogawa Plaza, Suite 3341

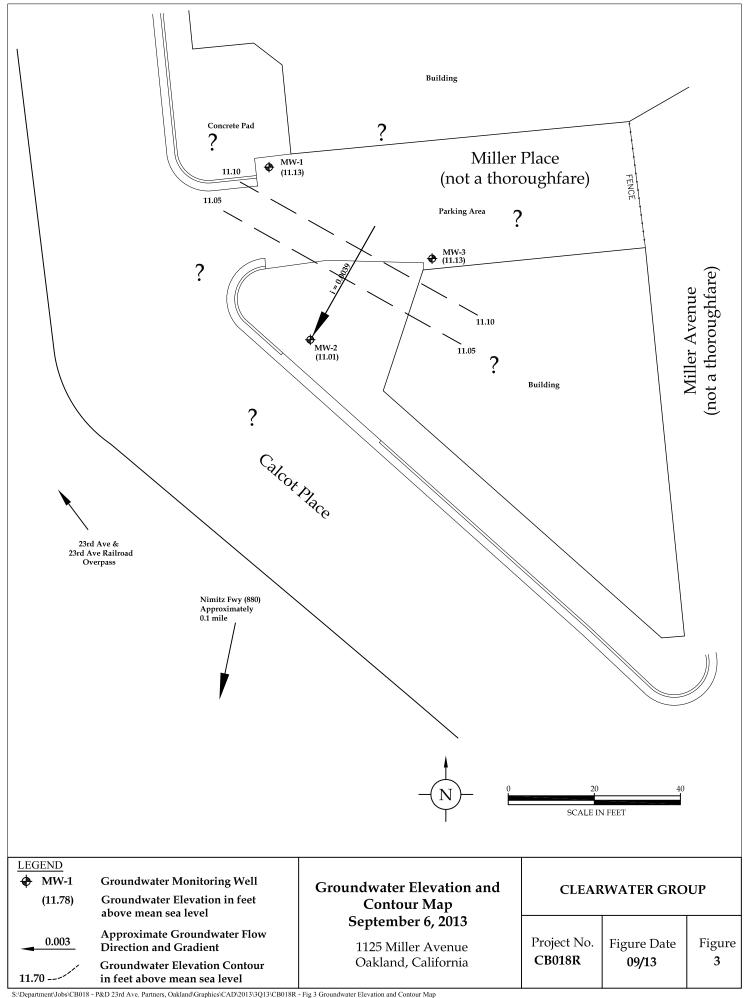
Oakland, CA 94612-2032

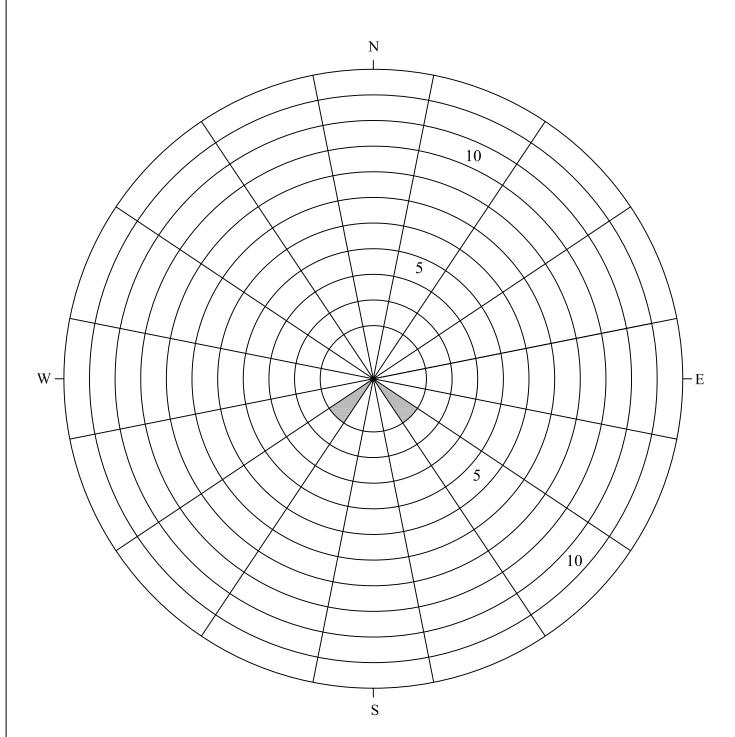
Alameda County Environmental Health Services (Sent via electronic upload to the Geotracker website)











Each individual, shaded segment (between adjacent concentric circles) represents one groundwater monitoring event, with groundwater flow in the direction indicated (for example, south, south-southeast, southeast).

The direction reflects predominant flow direction, incorporating elevation data from all site wells.

Legend

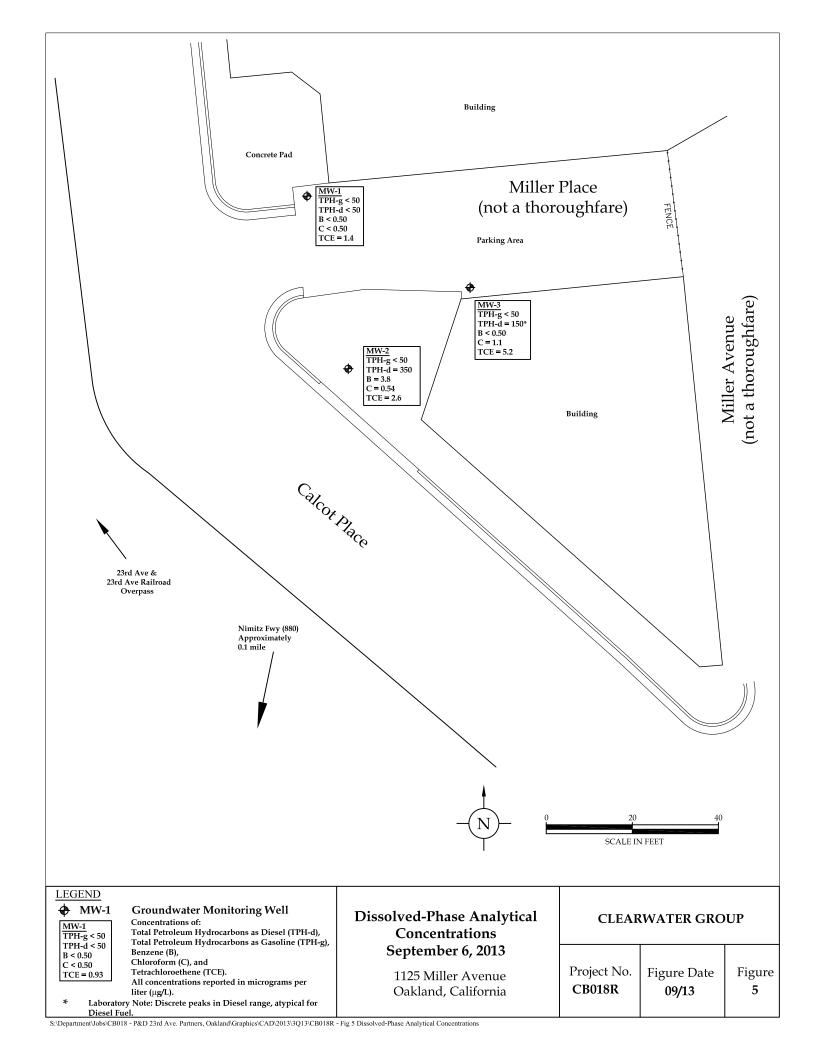
 $\overline{N} = North$

E = East

S = South

W = West

Groundwater Flow Rose Diagram	CLEARWATER GROUP					
1125 Miller Avenue	Project No.	Figure Date	Figure			
Oakland, California	CB018R	09/13	4			



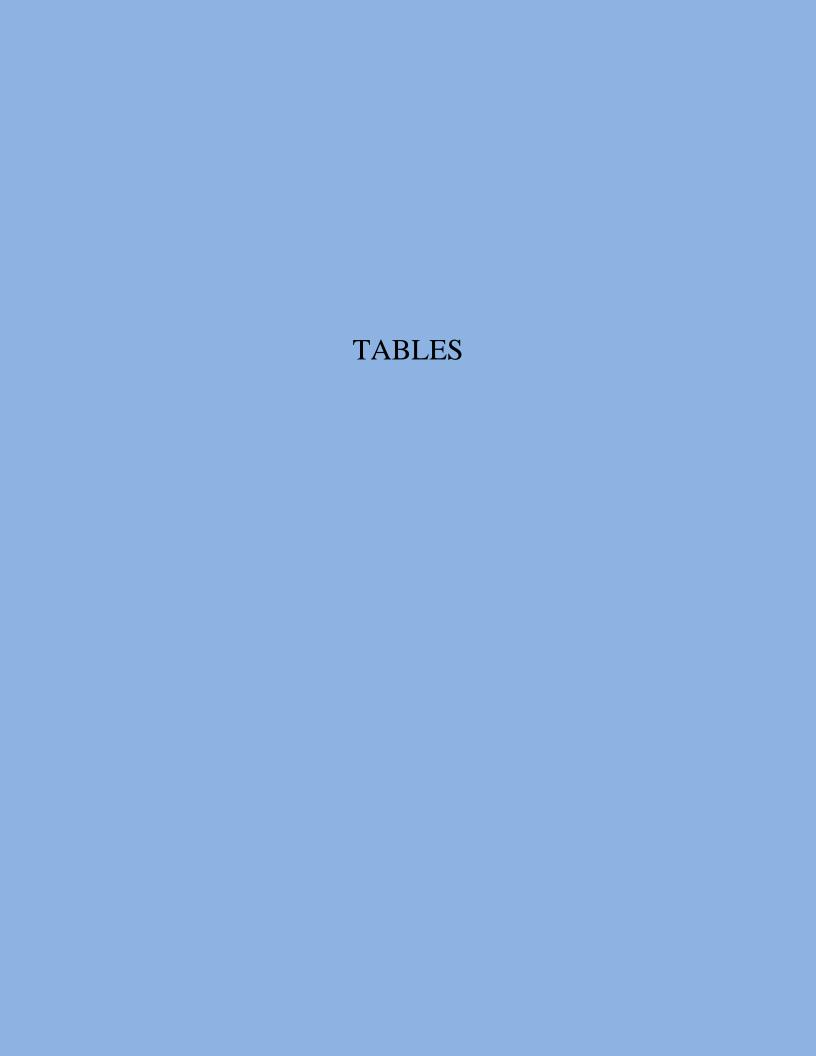


TABLE 1 Well Construction Data

P & D 23rd Avenue Associates LLC 1125 Miller Avenue Oakland, California

Clearwater Project No. CB018

Well Number	Date Installed	Borehole Diameter (inches)	Depth of Borehole (feet) *	Casing Diameter (inches)	Screened Interval (feet) *	Filter Pack (feet) *	Bentonite Seal (feet) *	Concrete/ Cement Seal (feet) *	TOC Elevation (feet AMSL)	Latitude Decimal Degrees	Longitude Decimal Degrees
MW-1	06/14/2013	6.0	25.0	2.0	9.0 - 24.0	8.0 - 25.0	7.0 - 8.0	0.0 - 7.0	21.42	37.7807930	-122.2368373
MW-2	06/14/2013	6.0	25.0	2.0	9.0 - 24.0	8.0 - 25.0	7.0 - 8.0	0.0 - 7.0	21.57	37.7806835	-122.2368016
MW-3	06/14/2013	6.0	25.0	2.0	9.0 - 24.0	8.0 - 25.0	7.0 - 8.0	0.0 - 7.0	23.40	37.7807367	-122.2367051

Notes:

TOC Top-of-casing elevation in feet relative to mean sea level

AMSL Above mean sea level (feet) * Feet below ground surface

 $Well \ construction \ details \ for \ MW-1 \ through \ MW-3 \ were \ obtained \ from \ boring \ logs \ prepared \ by \ Clearwater \ Group.$

Monitoring well elevation and GPS survey event for wells MW-1 through MW-3 was conducted by Morrow Surveying in June 2013.

TABLE 2

Cumulative Groundwater Elevation and Gradient Summary

P & D 23rd Avenue Associates LLC 1125 Miller Avenue Oakland, California Clearwater Project No. CB018

Sample Date	MW-1 TOC (feet) = 21.42		MV TOC (feet) =	V-2 21.57	MV TOC (feet) =	-	Groundwater Gradient and	
1	DTW (feet)	GWE (feet)	DTW (feet)	GWE (feet)	DTW (feet)	GWE (feet)	Flow Direction	
04/26/2013	9.64	11.78	9.87	11.70	11.71	11.69	0.0025	SE
09/06/2013	10.29	11.13	10.56	11.01	12.27	11.13	0.0039	\mathbf{SW}

Notes:

TOC Top-of-casing elevation surveyed by Morrow Surveying on June 20, 2013

DTW Depth-to-water measurement collected on northern side of the TOC

GWE Static groundwater elevation (TOC-DTW = GWE)

Table 3 **Cumulative Groundwater Elevation and Analytical Results**

P & D 23rd Avenue Associates LLC 1125 Miller Avenue Oakland, California Clearwater Project No. CB018

Sample Point Location	Sample ID	Sampling Date	Depth (feet bgs)	TOC (feet)	DTW (feet)	GWE (feet)	TPH-d (µg/L)	TPH-g (µg/L)	B (μg/L)	Τ (μg/L)	Ε (μg/L)	X (μg/L)	MTBE (μg/L)	Chloroform (µg/L)	TCE (µg/L)
Environmental Screening Levels in μg/L ^F							100	100	1.0	40	30	20	5.0	70	5.0
Low Threat Clos	sure Threshold	A, B	Cri	terion 1 '	C				N	lo limits defi	ned in polic	y for Criter	ion 1		
TW2	TW2	10/24/2000	16	-	-	-	660	-	65	2.4	< 0.5	3.2	< 2.5	-	-
TW3	TW3	10/24/2000	17	-	-	-	800	-	0.9	< 0.5	< 0.5	<1.5	<2.5	-	-
S5	S5	11/16/2005	17	-	-	-	890	-	< 0.50	< 0.50	< 0.50	< 0.50	-	-	-
S12	S-12	11/28/2011	11-15	_	_	_	1,300 ^D	<50	< 0.50	< 0.50	< 0.50	< 0.50	-	-	-
S13	S-13	11/28/2011	11-15	-	-	-	36,000	200	< 0.50	< 0.50	< 0.50	< 0.50	-	-	-
S14	S-14	11/28/2011	11-15	-	-	-	$290~^{\rm D}$	<50	< 0.50	< 0.50	< 0.50	< 0.50	-	-	-
MW-1	MW-1	06/26/2013	-	21.42	9.64	11.78	< 50	<50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.93
		09/06/2013	-	21.42	10.29	11.13	< 50	<50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.4
MW-2	MW-2	06/26/2013	-	21.57	9.87	11.70	2,500	55	7.8	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.6
		09/06/2013	-	21.57	10.56	11.01	350	< 50	3.8	< 0.50	< 0.50	< 0.50	< 0.50	0.54	2.6
MW-3	MW-3	06/26/2013	-	23.4	11.71	11.69	<50	<50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.99	4.3
		09/06/2013	-	23.4	12.27	11.13	150 ^E	<50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.1	5.2

Notes:

Footnote C

TPH-d Total petroleum hydrocarbons as diesel using EPA Method 8015/8020 (modified)

TPH-g Total petroleum hydrocarbons as gasoline using EPA Method 8260B

В Benzene using EPA Method 8020/8260B T Toluene using EPA Method 8020/8260B Ethylene using EPA Method 8020/8260B E Х Xylenes using EPA Method 8020/8260B MTBE

Methyl tertiary-butyl ether using EPA Method 8260B TCE Trichloroethene using EPA Method 8260B

Chloroform Chloroform using EPA Method 8260B

Micrograms per liter (approximately equal to parts per billion: ppb) $\mu g/L$

Not analyzed, not available, or not applicable

<### Not detected in concentrations exceeding the indicated laboratory reporting limit

bgs Below Ground Surface

TOC Top-of-casing elevation surveyed by Morrow Surveying on June 20, 2013 DTW Depth-to-water measurement collected on northern side of the TOC

Static groundwater elevation (TOC-DTW = GWE) GWE

Footnote A Low Threat Closure Thresholds are from 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 General Critera: 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 has been removed to the extent

practicable; g. Soil or groundwater has been tested for methyl tert-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.

Low Threat Closure, Criterion 1: a) The contaminant plume that exceeds water quality objectives is less than 100 feet in length, b) There is no free product, c) The nearest existing water

supply well or surface water body is greater than 250 feet from the defined plume boundary.

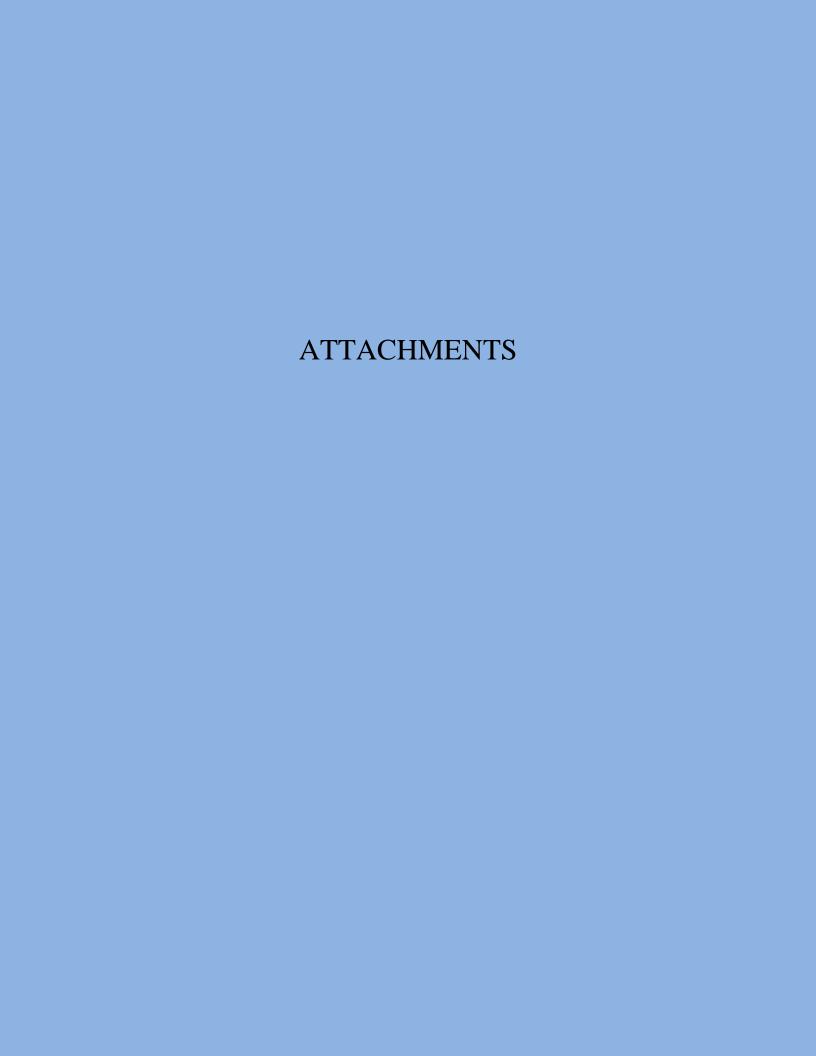
Footnote D Laboratory note: Discrete peaks, higher boiling hydrocarbons present, atypical for Diesel Fuel.

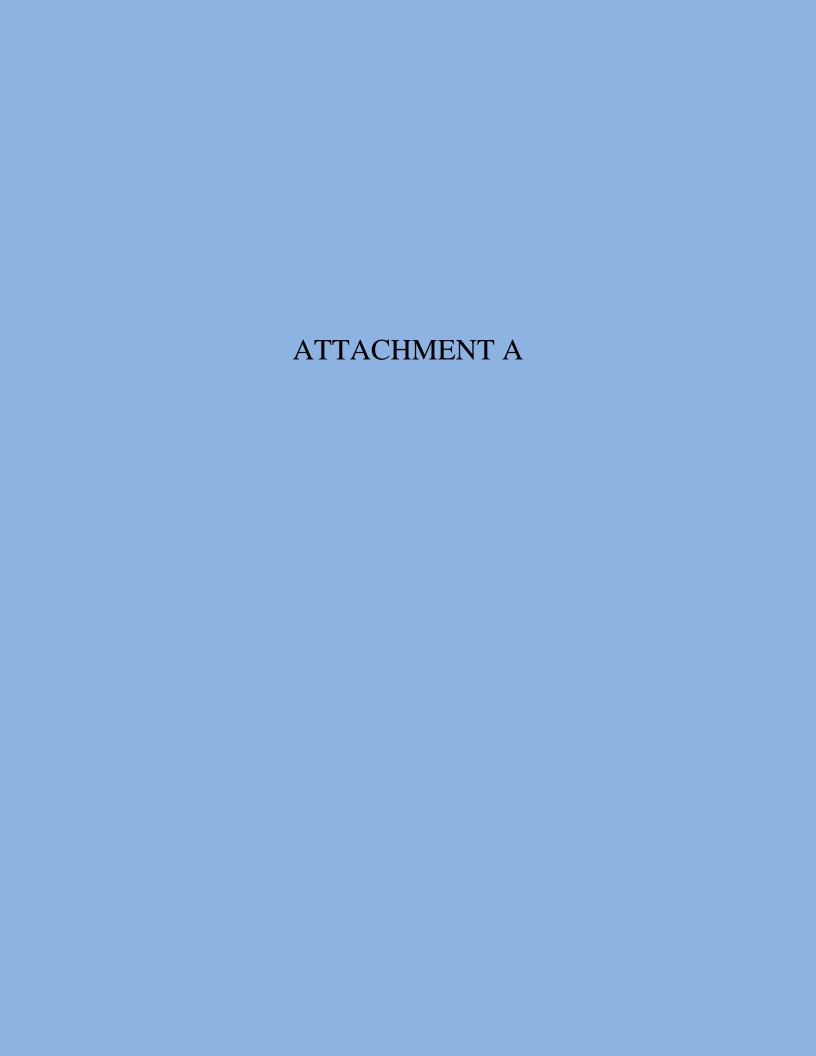
Footnote E Laboratory note: Discrete peaks in Diesel range, atypical for Diesel Fuel.

Footnote F Environmental Screening Levels (ESL), from 2013 Tier 1 ESLs (screening levels resulting from default setting), available from

http://www.waterboards.ca.gov/rwqcb2/water_issues/programs/ESL/Lookup_Tables_Summary_May_2013.pdf

Analytical results reported in italics are from the December 31, 2001 Subsurface Exploration Report prepared by Environmental Bio-Systems





ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY



ALEX BRISCOE, Director

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

March 26, 2013

Mr. John Protopappas P&D 23rd Avenue Associates LLC P.O. Box 687 Oakland, CA 94604 (*Sent via E-mail to: John@MPFCorp.com*)

Subject: Case File Review for Fuel Leak Case No. RO0000294 and GeoTracker Global ID T0600177455, 23rd 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 document entitled, "2000-Foot Radius Well Search Report," dated February 21, 2013. The Well Search Report, which was prepared on your behalf by Clearwater Group, presents results from a well search conducted using Alameda County Public Works Agency and California Department of Water Resources databases. The Well Search Report was submitted in response to the technical comments in ACEH correspondence dated December 5, 2012, which is attached for reference. However, ACEH's correspondence requested a Work Plan to address six technical comments. The Well Search Report addresses only one of the six technical comments in ACEH's December 5, 2012 correspondence.

The Well Search Report recommends that the site be considered for low-risk case closure but does not evaluate site conditions against the general and media-specific criteria in the State Water Resources Control Board Low-Threat Closure Policy (LTCP). Due to the presence of volatile organic compounds (VOCs) in soil vapor, the site does not appear to meet general criteria b of the LTCP, which requires that the unauthorized release consists only of petroleum.

The site may be evaluated for case closure under the LTCP in the future if the extent of VOCs is evaluated and the VOCs do not pose a risk to human health or the environment. In order to complete this evaluation, we request that you submit a Work Plan that addresses the technical comments below, most of which were previously requested in our December 5, 2012 correspondence.

TECHNICAL COMMENTS

1. **Volatile Organic Compounds in Sub-slab Soil Vapor**. Review of the "Update of the Soil Vapor Sample Analytical Report Presented in Sub-Slab Soil Vapor Sampling Report," dated October 9, 2012 indicates that tetrachloroethene (PCE) was detected in 3 of 10 sub-slab vapor samples collected on December 9, 2011 at concentrations ranging from 5.7 to 240 micrograms per cubic meter (µg/m³). The Analytical Report states that all volatile organic compound (VOCs) concentrations are well below the residential CHHLs. This statement is not accurate since the maximum PCE concentration of 240 µg/m³ exceeds the residential CHHSL

Mr. John Protopappas RO000294 March 26, 2013 Page 2

of 180 μ g/m³. However, the maximum concentration of PCE does not exceed the San Francisco Bay Regional Water Quality Control Board Environmental Screening Level (ESL) for commercial land use of 2,100 μ g/m³. The detections of PCE were not evaluated or discussed in any recently submitted reports or during a November 14, 2012 meeting. In the Work Plan requested below, we request that you include an evaluation of whether the VOCs in sub-slab vapor represent a human health threat for vapor intrusion or propose additional data collection to compete this evaluation.

- 2. Volatile Organic Compounds in Groundwater. Further review of the case file indicates that groundwater does not appear to have been analyzed for VOCs other than petroleum hydrocarbon constituents. Due to the detections of PCE in sub-slab soil vapor, PCE is a chemical of concern for the site. The absence of VOC data for groundwater may represent a data gap for the site. Vapor intrusion assessments are generally conducted using multiple lines of evidence. VOC data for groundwater would provide an additional line of evidence to evaluate the PCE detected in sub-slab vapor discussed in technical comment 2. Therefore, the collection of a limited number of groundwater samples for VOC analysis is to be included in the Work Plan requested below.
- 3. **Residual Diesel Contamination.** Hand excavation was conducted inside the western end of the building in the area of a former fuel dispenser. The excavation was stopped at a depth of 2.5 feet below grade. However, soil containing elevated concentrations of total petroleum hydrocarbons as diesel remains in place beneath the western end of the building as indicated by elevated concentrations of TPH as diesel (TPHd) in confirmation soil samples. The TPHd does not appear to pose a human health risk for vapor intrusion to the western end of the building. Napthalene was not detected at concentrations exceeding the LTCP criteria of 93 µg/m³ in sub-slab soil vapor samples collected beneath the building. As discussed during the November 14, 2012 meeting, the residual TPHd although not an apparent health risk based on comparison to LTCP criteria, may represent an odor or nuisance condition. A method for sealing the floor in this area of the building to mitigate possible nuisance conditions was proposed by Clearwater Group and was discussed during the meeting. However, you may wish to delay presenting plans for mitigation of possible nuisance vapor conditions in the western portion of the building pending completion of an evaluation of the VOC issue discussed in technical comments 1 and 2.
- 4. Delineation of TPHd Plume. A total of an additional ten soil borings was proposed for soil and groundwater sampling in the document entitled, "Soil and Groundwater Investigation Results," dated February 29, 2012. The purpose of the proposed borings was to define the lateral and vertical definition of diesel impacts. As discussed during the November 14, 2012 meeting, the results of a detailed well survey will be reviewed to determine whether additional delineation is necessary for the TPHd plume. However, as requested in technical comment 2, the collection of a limited number of groundwater samples for VOC analysis is to be included in the Work Plan requested below. Depending upon their locations, these additional groundwater samples could also provide further delineation of TPHd in groundwater.
- 5. Well Search Report. Based on the results of the well search, the nearest water supply well appears to be a 345 feet deep well located approximately 450 feet west northwest of the site. The nearest well is described as abandoned but not destroyed through a permitted process. Table 4 of the Well Search, which is entitled, "Well and Tank Locations Identified in Sanborn

Mr. John Protopappas RO000294 March 26, 2013 Page 3

Map Well Search," presents a detailed list of water tank and wind mill locations. Figure 4 provides a detailed map of the water tank locations, which show two water tank locations immediately west of the site. The Well Search Report includes no discussion, conclusions, or recommendations regarding the water tank locations. In the Work Plan requested below, please include some evaluation of these data along with plans to conduct a door to door well survey to verify that no water supply wells are present at these locations.

TECHNICAL REPORT REQUEST

Please upload technical reports to the ACEH ftp site (Attention: Jerry Wickham), and to the State Water Resources Control Board's GeoTracker website according to the following schedule and file-naming convention:

May 28, 2013 – Work Plan

File to be named: WP_R_yyyy-mm-dd RO294

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.

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

Sincerely,

Digitally signed by Jerry Wickham DN: cn=Jerry Wickham, o=Alameda County Environmental

Health, ou, email=jerry.wickham@acgov.org, c=US

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

Attachment: ACEH Correspondence dated December 5, 2012

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)

Robert Nelson, Clearwater Group, 229 Tewksbury Avenue, Pt. Richmond, CA 94801 (Sent via E-mail to: RNelson@clearwatergroup.com)

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

Mr. John Protopappas RO000294 March 26, 2013 Page 4

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

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

GeoTracker, File

Attachment 1

Responsible Party(ies) Legal Requirements/Obligations

REPORT/DATA REQUESTS

These reports/data are being requested pursuant to Division 7 of the California Water Code (Water Quality), Chapter 6.7 of Division 20 of the California Health and Safety Code (Underground Storage of Hazardous Substances), and Chapter 16 of Division 3 of Title 23 of the California Code of Regulations (Underground Storage Tank Regulations).

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (Local Oversight Program [LOP] for unauthorized releases from petroleum Underground Storage Tanks [USTs], and Site Cleanup Program [SCP] for unauthorized releases of non-petroleum hazardous substances) require submission of reports in electronic format pursuant to Chapter 3 of Division 7, Sections 13195 and 13197.5 of the California Water Code, and Chapter 30, Articles 1 and 2, Sections 3890 to 3895 of Division 3 of Title 23 of the California Code of Regulations (23 CCR). Instructions for submission of electronic documents to the ACEH FTP site are provided on the attached "Electronic Report Upload Instructions."

Submission of reports to the ACEH FTP site is in addition to requirements for electronic submittal of information (ESI) to the State Water Resources Control Board's (SWRCB) Geotracker website. In April 2001, the SWRCB adopted 23 CCR, Division 3, Chapter 16, Article 12, Sections 2729 and 2729.1 (Electronic Submission of Laboratory Data for UST Reports). Article 12 required electronic submittal of analytical laboratory data submitted in a report to a regulatory agency (effective September 1, 2001), and surveyed locations (latitude, longitude and elevation) of groundwater monitoring wells (effective January 1, 2002) in Electronic Deliverable Format (EDF) to Geotracker. Article 12 was subsequently repealed in 2004 and replaced with Article 30 (Electronic Submittal of Information) which expanded the ESI requirements to include electronic submittal of any report or data required by a regulatory agency from a cleanup site. The expanded ESI submittal requirements for petroleum UST sites subject to the requirements of 23 CCR, Division, 3, Chapter 16, Article 11, became effective December 16, 2004. All other electronic submittals required pursuant to Chapter 30 became effective January 1, 2005. Please visit the SWRCB website for more information on these requirements. (https://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, 7835, 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, late 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.

Alameda County Environmental Cleanup Oversight Programs (LOP and SCP)

REVISION DATE: July 25, 2012

ISSUE DATE: July 5, 2005

PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010

SECTION: Miscellaneous Administrative Topics & Procedures

SUBJECT: Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (petroleum UST and SCP) 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.
- <u>Do not</u> 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.
 <u>Documents with password protection will not be accepted.</u>
- 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 .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 ://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 .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.

SUMMARY OF SITE INVESTIGATION ACTIVITIES AND REFERENCES LIST

P&D 23rd Avenue Associates, LLC 1125 Miller Avenue Oakland, California ACEH Site Number RO#0000294 Clearwater Group Project Number CB018

Site Location

The P&D 23rd Avenue Associates, LLC property (*site*), an underground storage tank (UST) fuel release *site*, is located at 1125 Miller Avenue, in the City of Oakland, County of Alameda, California. The *site* is improved with a two-story structure constructed on a single slab on grade foundation, which is currently in use as a "work-live" building by a graphic artist who operates a t-shirt production workshop and lives in an apartment located adjacent to and above the work space. The United States Geological Survey Oakland East Quadrangle Map shows the *site* to be located in Section 6, Township 2 south, Range 3 west of the Mount Diablo Base and Meridian (USGS, 1980).

Miller Avenue bounds the *site* to the east, and Miller Place bounds the *site* to the north. Calcot Place defines the property to the southwest. A "work-live" apartment building is located across Miller Place to the northwest, north, and northeast, and a fenced parking and storage lot abuts the *site* to the northeast, east, and southeast. The main line of the Union Pacific Railroad is located to the north, beyond the "work-live" apartments and behind a chain-link fence. The 23rd Avenue railroad overcrossing ramp structure lies across Calcot Place to the west.

Site History

1870 to 1998 – History before the UST removal

Historical records for the *site* and neighboring properties as far back as the 1870's were obtained from local resources. Between 1870 and 1998 the *site* and neighboring properties have had many uses, including industrial, commercial, and most recently, residential. The former north and east parcel boundaries of the 1125 Miller Avenue *site* were established in 1903. In 1963, after part of the block was taken by the City of Oakland by "eminent domain," the current hypotenuse property boundary was formed and defined by Calcot Place.

- Between 1878 and 1903, the current property was part of 25th Avenue and a block defined by Park Avenue (now 23rd Avenue), East 10th Street, 26th Avenue, 25th Avenue, and the Central Pacific Railroad Company railroad bed. No information, except that about ownership, regarding specific use of the *site* is reasonably ascertainable from the locally available historical data record for this time period. Data were reported in the December 1, 2010 "Historical Property Uses" Report produced by Clearwater Group (Clearwater).
- Between 1924 and 1928 (after subdivision), the west half of the northern half of the current *site* (Parcels 1 and 2) was developed with a commercial/industrial structure.
- Between 1928 (first phone directory listing) and 1946, the *site* (Parcels 1 and 2) was used by Bay Cities Forge Company, for blacksmithing and general metal "forgings," as stated in the Polk's Telephone Directory (listing and advertisement). The interior work area of the Forge (west half of Parcels 1 and 2) aligns with five refusals at soil boring S6 as well as the refusal at TW1 shown in **Figure A**. The unimproved backyard (east half of Parcels

- 1 and 2) was improved, by 1950, with a brick incinerator (at the current location of the workshop and the kitchen and bathroom). In 1947, Parcel 3 was improved with a Residence fronting on 23rd Avenue, and in 1950 Parcel 4 was improved with a soda bottling works.
- The Sanborn map shows that, in the backyard of the Residence, a garage structure (structure labeled "auto") and a garden were present at the *site* (Parcel 3). The former location of the auto garage is approximately equivalent to the current position of part of the living room, bathroom, and kitchen.
- According to Mr. Ronald Dreisbach (a part owner of P&D 23rd Avenue Associates, LLC), the *site* (Parcel 1 and 2) was used for lumber storage, and the neighboring property to the north was used as a planing mill and a lumber yard as early as 1940; these uses are corroborated by Mr. Dreisbach's photo of his father at the property and by the Sanborn Maps. The incinerator that was at the *site* was built for the burning of sawdust and wood debris originating from the lumber planing operation. The incinerator was constructed in the current location of the kitchen/dining area and a large portion of the current printing workshop at the *site*. According to the telephone directories, the planing mill operation to the north ceased in approximately 1955 and was replaced by a box and lumber operation, which was replaced by a fruit sorting and packing operation.
- In 1952-1957, the *site* was used as a warehouse (except for the incinerator) for Parcels 1 and 2, a residence for Parcel 3, and a venetian blind factory for Parcel 4.
- In 1959, the *site* was used for the storage of firewood and old machinery as well as for a records storage warehouse; the incinerator was no longer in use on Parcels 1 and 2. Parcel 3 was razed, and Parcel 4 remained as a venetian blind factory.
- In 1960, Parcels 1 and 2 continued to be used for a records storage warehouse as well as for a woodworking shop. Parcel 3 was improved with a steel warehouse. Parcel 4 remained in use as a venetian blind factory.
- Between 1962 and 1963, the City of Oakland (City) took the *site* by eminent domain for construction of its 23rd Avenue railroad overcrossing ramp. After the City took the property, the *site* buildings were razed.
- After the block was razed, a new street, Calcot Place, was constructed across the block. The Dreisbachs, who had owned Parcels 1 and 2 of the block, became the owners of the new "triangle" property upon which they built a new building (Architect Plans are dated 1966), which is the current building.
- No records are present regarding the year that the two 5,000-gallon fuel tanks were installed. However, the architect's drawing dated 1966 for the *site* indicates the existence of plans for a canopy to be built over a concrete pad, which corresponds to the location of the tank pit. This suggests that the tanks were considered in the planning of the 1966 architectural design. Mr. Dreisbach reported the use of gas and diesel in the tanks since the 1970's.
- According to Sanborn maps, a printing company operated at the *site* between 1967 and 1969. Between 1970 and 1980, according to street directories, the *site* was used as a U.S. Department of Agriculture (USDA) meat inspection facility and warehouse. Two floor drains and a grease trap that drained to the sanitary sewer (see **Figure A**), were likely installed during this time for use with the meat inspection facility operations.
- Telephone directory records indicate that between 1980 and 1981 the USDA meat inspection facility ceased operations at the *site*.

- Between 1981 and 1990, the *site* was used as a mechanics shop for the rebuilding of Cummins diesel injectors. Hazardous materials were stored or used on *site* for this operation.
- In 1985 the fire department reported that two 5,000-gallon diesel tanks were in use. (Again, the date of tank installation is not reasonably ascertainable in the record.) Hazardous waste was reported to have been generated in the form of diesel, solvents, and sludge originating from the injectors. [Until recently (2010), two floor drains from the meat packing operation (the current t-shirt warehouse area) were open. They are now cemented closed.]
- In 1989, leakage was detected at the unions of the delivery lines on both fuel pumps, during a routine inspection.
- In March 1990, Heitz Trucking, Inc. began to use the *site*.
- In 1993, a routine inspection reported the generation of waste oil and solvents, which were being stored at the *site*.
- In 1995, the *site* was re-developed as an artist "work-live" space; however, the truck refueling facility remained in operation.
- In 1996, a routine inspection reported that fuel had spilled into the storm sewer system and that the UST vent pipes were broken.
- In 1998, a fuel spill from the fuel tank dispenser into the storm sewer was reported, and broken vent pipes were noted.
- In 1990, Mechanic Jim Brooks claimed that he had "worked with the tank system for 10 years."
- During December 1990, seepage of fuel at a vent pipe coupling located one foot above ground was reported, according to the Fire Department.

December 1998

Environmental Bio-Systems (EBS) excavated and removed two 5,000-gallon diesel USTs and the associated product piping from the tank pit at the *site*. A total of four soil samples were collected near the ends of each tank from approximately nine feet below ground surface (bgs). All four soil samples were subsequently analyzed for total petroleum hydrocarbons detected as diesel (TPH-d); benzene, toluene, ethylbenzene, and total xylenes (BTEX); and methyl tertiary butyl ether (MTBE). Samples were collected from the pit wall northeast and southeast of Tank A (the northern tank). No detections were reported above the method detection limit in the samples collected from the northeast and southeast ends of Tank A. Samples were collected from the pit wall northwest and southwest of Tank B (the southern tank); the northwest sample was found to contain 1,800 milligrams per kilogram (mg/kg) TPH-d and 0.051 mg/kg xylenes, and no detections were reported above the method detection limit in the southwest sample.

February 2000

The February 18, 2000 "Workplan: Subsurface Exploration" was produced by EBS.

October 2000

In October 2000, EBS drilled four soil borings (designated TW1, TW2, TW3, and D1). Soil borings TW1 through TW3 were drilled in the concrete-paved area surrounding the former UST excavation. Boring D1 was drilled in the building, adjacent to the former dispenser location, which had been housed within an enclosed room at the west end of the building.

EBS collected four soil samples from the borings and installed pre-packed temporary well points in two of the borings (TW2 and TW3). Soil sample TW2 was collected at 16.5 feet bgs, and soil sample TW3 was collected at 17 feet bgs; two soil samples were collected from D1. The drilling and sampling were performed by FAST-TEK Engineering Support Services of Point Richmond, California (C-57 Lic. #624461) using a Geoprobe 5400 direct push rig. Borings TW2 and TW3 were drilled to a total depth of 22 feet bgs. Boring D1 was drilled to a total depth of 8 feet bgs, and boring TW1 was abandoned at 3 feet bgs because of subsurface obstructions; neither the soil nor groundwater was sampled at this location. Groundwater was encountered between 16.5 feet and 17.0 feet bgs. EBS submitted four soil samples and two groundwater samples to Analytical Sciences, Inc. of Petaluma, California, a California Statecertified laboratory for TPH-d, BTEX, and MtBE analyses. The results were presented in the EBS "Subsurface Exploration Report" dated December 31, 2001.

Soil sample TW2-16.5' was found to contain 4,200 mg/kg TPH-d and 1.4 mg/kg benzene. Soil sample TW3-17' was found to contain 2,700 mg/kg TPH-d. Soil samples D1-3' and D1-8' were found to contain 3,400 and 34 mg/kg TPH-d, respectively. Groundwater sample TW2-H₂O was found to contain 660 micrograms per liter (μ g/L) TPH-d, 65 μ g/L benzene, 2.4 μ g/L toluene, and 3.2 μ g/L total xylenes. Groundwater sample TW3-H₂O was found to contain 800 μ g/L TPH-d and 0.9 μ g/L benzene.

April 2002

On April 15, 2002, Alameda County Environmental Health Department (ACEH) approved the work proposed in Clearwater's "Site Closure Workplan" (dated March 21, 2002). An October 3, 2002, "Site Closure Report" reported findings of the work that had been approved in the workplan. Sensitive receptors listed in the "Site Closure Report" included the residents of the building, and Clearwater recommended that migration pathways (via concrete cracks and other permeable features) be sealed. On the basis of information on groundwater flow available in reports on other local sites, the groundwater flow direction was found to be north at a gradient of 0.01. No drinking water wells were found to be present in the direct vicinity per the EDR report. However, subsequently, several wells per block have been identified on the Sanborn Maps. The only subsurface conduits identified were the utility trenches under and around the property.

November 2005

On November 16, 2005, Clearwater supervised the advancement of four soil borings (S5 through S8) at the *site*. One grab groundwater sample was collected from soil boring S5, which was located between the dispenser and the former tank pit. Boring logs indicated that the subsurface (to 20 feet) is composed of mostly clayey gravel (most likely this reflects backfill), and the laboratory results showed no detectable concentrations of BTEX. The concentrations of TPH-d in soil ranged from 5.8 mg/kg in S5-20' to 1,200 mg/kg in S7-15'. Analytical results of the groundwater sample at S5 indicated a TPH-d concentration of 890 μ g/L, and no other constituents of concern were reported. Evidence of previous forge use was observed in the drilling of soil boring S6 (5 refusals), consisting of metal slag, debris, and general fill materials. These results were reported in the February 23, 2006, Clearwater document titled "Subsurface Investigation Results."

June 2006

On the basis of approvals by ACEH on June 13, 2006, and August 4, 2006, Clearwater performed a soil investigation and soil vapor survey at the *site*. Soil samples were collected from S9 through S11 at 4 feet bgs. Soil vapor samples were collected at borings V1 through V3. TPH-d was reported at concentrations ranging between 21 mg/kg in S11 to 7,500 mg/kg in S9. No soil sample results showed concentrations of BTEX above the laboratory reporting limit of 0.0050 mg/kg. Two soil vapor samples were collected from each vapor boring at 4 feet bgs. Concentrations of TPH-d detected in vapor samples ranged from 180,000 micrograms per cubic-meter (µg/m³) in V2.2 4L (V2 at 2 feet bgs using a 4 liter canister) to 7,300,000 µg/m³ in V3.4 1L. Results were documented in the January 11, 2007, Clearwater report titled "Results of Soil Vapor and Soil Boring Sampling Investigation – Risk Based Corrective Analysis Report."

June 2010

On October 28, 2009, ACEH concurred with Clearwater's work plan titled "Work Plan for Sub-Slab Vapor Sampling" (dated September 9, 2008), and this work phase was begun on June 10, 2010. Soil vapor samples were collected from the soil vapor points on June 17, 2010. Samples were collected at installed soil vapor points SS-1 through SS-6. The constituent of concern, TPH-d, was not detected in any of the soil vapor samples. Toluene (T) was detected in SS-3 at $2,600~\mu g/m^3$. Xylenes (X) were detected in SS-3 at $6,050~\mu g/m^3$. Ethylbenzene (E) was detected in SS-3 at $2,000~\mu g/m^3$. TPH-g was detected in SS-3 at $37,000~\mu g/m^3$. No other constituents of concern were detected. The source for TPH-g and TEX was unknown. This information is documented in the Clearwater July 23, 2010, report titled "Results of Sub-Slab Soil Vapor Investigation Report." To rule out propane as the TPH-g source (SS-3 is close to a 3-inch diameter natural gas line servicing the building structure but not currently in use), both methane and PG&E's leak detection gas were tested for. The results for both were negative.

Because of the elevated reporting levels reported in the soil vapor samples collected June 17, 2010, ACEH requested re-sampling of the 6 soil vapor sample points, in a letter dated August 16, 2010. Re-sampling was performed on November 4, 2010. The re-sampling results indicated a TPH-d concentration of 5,800 μ g/m³ at vapor sampling point SS-3. No other detections of TPH-d were reported by the laboratory. Naphthalene was detected in SS-3 (8.0 μ g/m³) and in SS-6 (4.6 μ g/m³). Analytes 1-methylnaphthalene (24 μ g/m³) and 2-methylnaphthalene (36 μ g/m³) were both detected in SS-3. Analyte 2-methylnaphthalene was also detected in SS-6 (4.3 μ g/m³). Concentrations of TPH-g and TEX were detected above detection limits in SS-3 (TPH-g at 13,000 μ g/m³, toluene at 60 μ g/m³, ethylbenzene at 560 μ g/m³, and xylenes at 2,940 μ g/m³).

The focus of the investigation shifted to identifying the source that was contributing to the TPH-g and TEX detections. The lack of benzene detections indicated that the detected fraction of TPH-g was likely a weathered fuel and thus the evidence of a relatively old release. Concurrently, Clearwater obtained data on historical uses for information on the possible source of such a release. The uses of interest include an auto garage, a truck parts repair company, an incinerator, a forgings (blacksmith), and the fueling facility. The utility infrastructure in the surrounding streets may provide a conduit. But no clear source was identified. The "Historical Uses" Report on the *site* was produced on December 1, 2010.

The November 4, 2010, soil vapor sampling results were documented in the December 10, 2010, report titled "Results of Additional Sub-Slab Vapor Investigation." This investigation included a workplan.

Clearwater staff met with ACEH staff to review the workplan. Discussion during the meeting resulted in the following changes to the projected plan of work at the *site*: 1) the installation of an additional vapor sample point (SS-7) within the first floor living area; 2) a round of sampling of all existing vapor points (SS-1 through SS-7); 3) three soil borings for the collection of soil and groundwater data near the former tank pit, west of the former tank pit, and west of SS-3; and 4) the (limited) excavation of impacted soil and removal of the vent pipes and dispenser island. Clearwater produced a workplan addendum to address these changes.

February 2011

Per the February 1, 2011, ACEH approval of Clearwater's January 24, 2011, work plan addendum titled "Revised Workplan," soil vapor points SS-5R and SS-7 were installed on February 10, 2011. SS-5R replaced SS-5 because the original SS-5 had been crushed by a t-shirt printer. SS-7 was installed within the living room as a step-out from SS-3. On April 1, 2011, soil vapor probes SS-1 through SS-7 were sampled. TPH-g was detected in all the samples collected during the April 2011 event, at concentrations ranging from <160 $\mu g/m^3$ in several samples to 12,000 $\mu g/m^3$ in sample SS-3. In addition to naphthalene (8,200 $\mu g/m^3$) and TPH-g (12,000 $\mu g/m^3$), all the BTEX components were detected in sample SS-3. Only toluene was detected in samples SS-5 (8.2 $\mu g/m^3$) and SS-7 (5.9 $\mu g/m^3$). Naphthalene was also detected in SS-7 at a concentration of 10 $\mu g/m^3$. TPH-d was detected above the detection limit in SS-3 (8,200 $\mu g/m^3$) and SS-4 (9,500 $\mu g/m^3$). Because of inconclusive source information, Clearwater requested the installation of additional step-out soil vapor sampling points, which ACEH approved.

November 2011

Per concurrence from ACEH on June 6, 2011, Clearwater installed soil vapor points SS-8 through SS-10 on November 10, 2011.

A soil and groundwater investigation event took place on November 28, 2011. Soil samples were collected at various depths in soil borings S12 through S14. The highest TPH-d concentration in soil [(in the tank pit) 1,900 mg/kg] was detected in S13 at 14 feet bgs. TPH-g was detected at 65 mg/kg in S13 at 14 feet bgs. A total of three grab groundwater samples were collected during the November 28, 2011, investigation, at borings S-12, S-13, and S-14. The highest TPH-d concentration was detected in S-13 at 36,000 μ g/L (collected between 11 and 15 feet bgs). The highest TPH-g concentration was detected in S-13 at 200 μ g/L (collected between 11 and 15 feet bgs). (The PG&E field clearance technician advises Clearwater that there is a 4" gas main in Calcot Place, near the SB-12 location.)

On December 8, 2011, soil vapor samples were collected at sample points SS-1 through SS-10.

February 2012

On February 29, 2012, Clearwater produced Sub-Slab Soil Vapor Sampling Report, and Soil and Groundwater Investigation Results.

June 2012

Alameda County Health Care Services requested that the claimant submit a work plan by August 28, 2012, to address the technical comments, or meet with ACEH representatives to agree to a work scope, the surgical dig, and collection of soil vapor sampling samples and analysis for VOCs using the existing 10 soil vapor points. The meeting occurred on November 14, 2012.

Prior to excavating the Dispenser Room, Clearwater staff prepared an *Excavation and Filling Procedures* plan for the 6-foot-wide by 6-foot-deep by 3-foot-long excavation.

October 2012

As requested by ACEH, Clearwater requested from the laboratory that previously reported soil vapor analytical data be re-generated with the addition of chlorinated solvents detections. Air Toxics Ltd. Laboratory provided the laboratory report for the updated data collected on December 8, 2011. VOC detections included the following, which were added to the cumulative sol vapor tables: TPH-g, TPH-d, naphthalene, 1-methyl naphthalene, toluene, ethylbenzene, xylenes, 1, 3, 5-Trimethylbenzene, 1, 2, 4-Trimethylbenzene, Ethanol, tetrachloroethene, methyl chloride, hexane, cyclohexane, cumene, chloroform, Freon 11, Freon 12, Freon 113, 4-ethyltoluene, acetone, and tetrahydrofuran were detected. Some soil vapor points are located in the residential-use area and some are located in commercial-use area. All detections were at levels well below the CHHSLs for their respective use-area. The reporting of this data was provided in Clearwater's, *Update of the Soil Vapor Sample Analytical Report Presented in the Sub-Slab Soil Vapor Sampling Report*.

The dispenser vent pipes and the dispenser room concrete pad were removed. Visibly stained soil below the dispenser area was removed/excavated, and PID readings and samples were taken. Three drums of soil were generated from the excavation and disposed of under manifest. The analytical report from the waste disposal data was sent to Clearwater from Kiff Analytical, and the determination was made that this document does not need to be uploaded due to its status as a waste characterization report.

November 2012 - January 2013

The subslab excavation report, *Sub-Slab Excavation Report*, was produced. An agency meeting occurred at ACEH to review progress and re-set the future scope of work. Per ACEH directive to identify wells within 2,000 feet, a DWR Well Completion Report Request to the ACEH and an Alameda County Public Works Agency (ACPWA) well search request were prepared and submitted to those agencies. A Site area visit was conducted to check for any utility sumps or any obvious presence of wells within the 2,000 foot radius. An EDR Sanborn Map report to identify wells within a ½ mile radius around the site was requested and produced. This included a Sanborn Map report order of 14 Tiles.

February 2013

The 2,000-Foot-Radius Well Search Report was produced. From the DWR and the ACPWA sources, forty sites with wells were identified. Upwards of 138 historic well sites (evidenced by windmill and/or water tank on roof) were identified in the radius on the Sanborn Tiles.

May 2013

On May 6, notice of additional funding from the USTCF was received. On May 23, Clearwater staff produced the *Workplan for Groundwater Investigation Monitoring Well Installation, Vapor Point Destruction, and Excavation Closure*.

June 2013

Three wells (MW-1 through MW-3) were installed, developed, surveyed, and sampled. Control density fill, a vapor barrier, and a concrete pad were used to bring the excavation back up to grade level. On June 26, 2013, Clearwater staff performed the second quarter 2013 groundwater monitoring event.

August 2013

On August 1, 2013, Clearwater submitted the *Second Quarter 2013 – Groundwater Monitoring* Report to ACEH. On August 12 and 13, 2013, Clearwater staff installed the final vapor seal on the slab. On August 29, 2013, Clearwater submitted the *Evaluation of Sub-Slab Soil Vapor*, which detailed the re-reporting of the sub-slab soil vapor results, to ACEH.

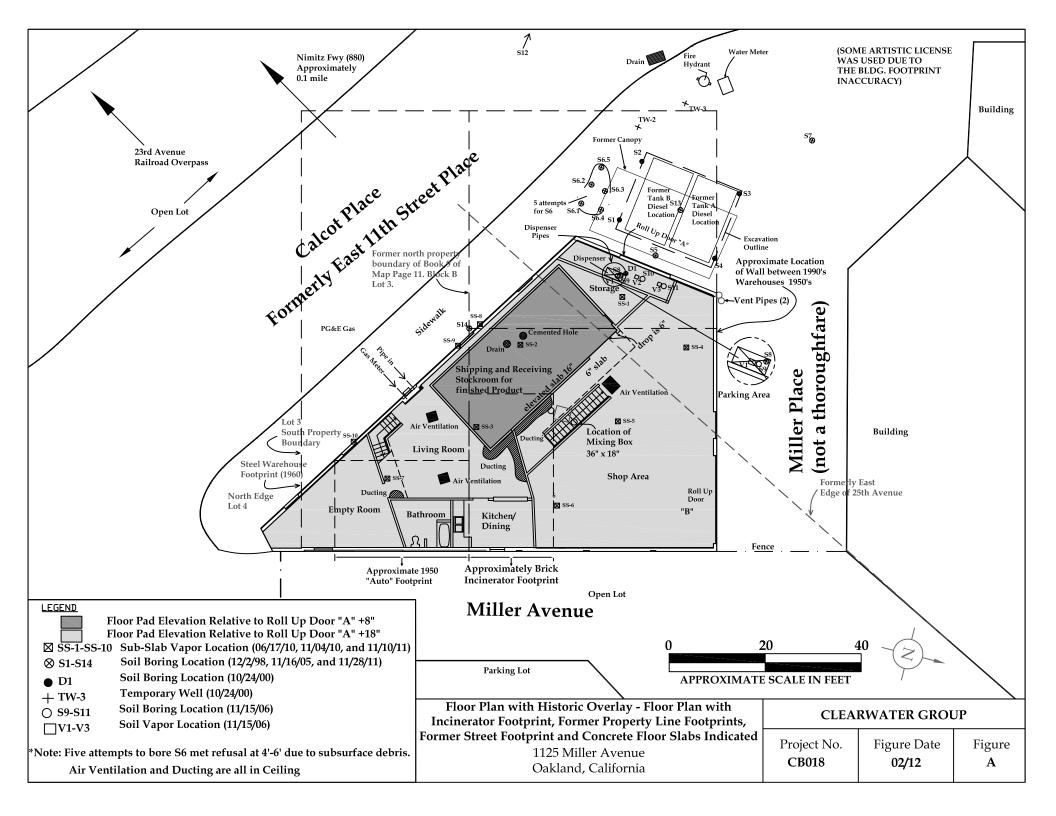
September 2013

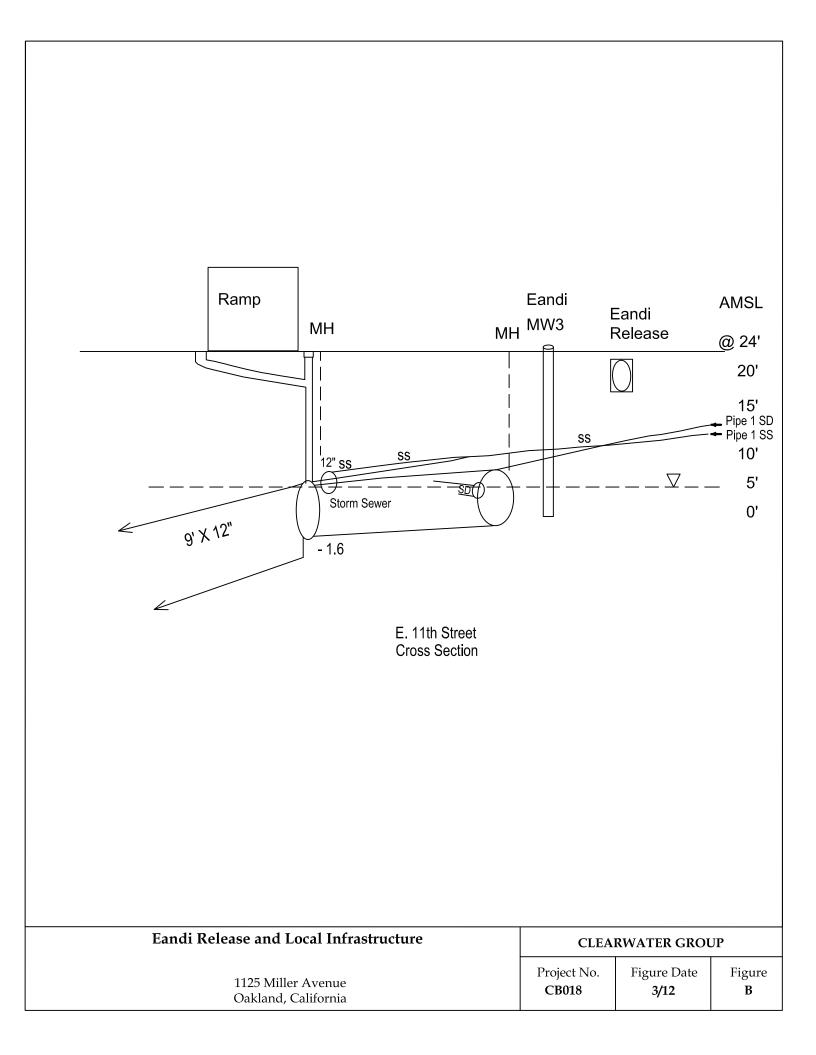
On September 6, 2013, Clearwater staff performed the third quarter 2013 groundwater monitoring event.

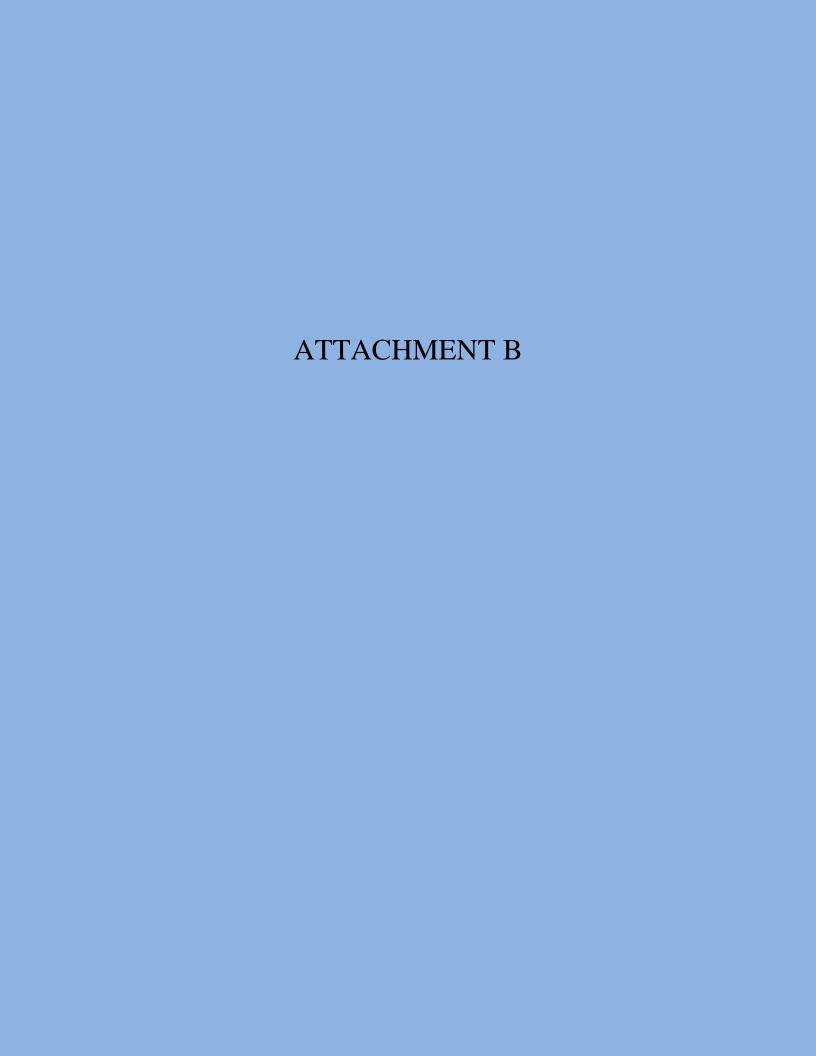
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- U.S. Geological Survey (USGS), Oakland East, California Quadrangle Map, 7.5-Minute Series, Topographic, 1959, Photorevised 1980.
- Environmental Bio-Systems, Inc., April 21, 1999, UST Excavation, 23rd Avenue Partners, 1125 Miller Avenue, Oakland, CA.
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- Clearwater Group, July 23, 2010, <u>Results of Sub-Slab Soil Vapor Investigation Report</u>, 23rd Avenue Partners, 1125 Miller Ave., Oakland, CA 94617.
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- Clearwater Group, February 29, 2012, <u>Soil and Groundwater Investigation Results</u>, 23rd Avenue Partners, 1125 Miller Ave., Oakland, CA 94617.
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CLEARWATER GROUP

Low-Flow (Minimal Drawdown) Groundwater Monitoring Standard Operating Procedure

Purpose: The purpose of this standard operating procedure (SOP) is to provide a method of purging that minimizes its impact on the groundwater chemistry during sample collection and to minimize the volume of water that is being purged and disposed of. This will be accomplished by placing the pump intake within the screen interval and by keeping the drawdown at a minimal level until the water quality parameters have stabilized and sample collection is complete. The flow rate at which the pump will be operating will be dependent upon both hydraulic conductivity of the aquifer and the drawdown, with the goal of minimizing the drawdown. The flow rate from the pump during purging and sampling will be at a rate that will not compromise the integrity of the analyte that is being sampled. The flow of groundwater to the pump intake will be dependent on the distribution of the hydraulic conductivity (K) of the aquifer within the screen interval. In order to minimize the drawdown in the monitoring well, a low-flow rate must be utilized. Low-flow refers to the velocity at which water enters the pump intake from the surrounding formation in the immediate vicinity of the well screen.

Equipment: Depth-to-water measuring device – An electronic water-level indicator or steel tape and chalk, with marked intervals of 0.01 foot. Interface probe for determination of liquid products (Non-Aqueous Phase Liquid) presence, if needed. Steel tape and weight – Used for measuring total depth of well. Lead weight should not be used. Sampling pump – Submersible or bladder pumps with adjustable rate controls are preferred. Pumps are to be constructed of inert materials, such as stainless steel and Teflon®. Pump types that are acceptable include gear and helical driven, centrifugal (low-flow type) and air-activated piston. Adjustable rate, peristaltic pump can be used when the depth to water is 20 feet or less. Tubing – Teflon® or Teflon®-lined polyethylene tubing is preferred when sampling for organic compounds. Polyethylene tubing can be used when sampling in organics. Power Source – If a combustion type (gasoline or diesel driven) generator is used, it must be placed downwind of the sampling area. Flow measurement supplies - flow meter, graduated cylinder and a stopwatch. Multi-Parameter meter with flowthrough-cell – This can be one instrument or more contained in a flow-through cell. The waterquality indicator parameters that must be monitored are pH, oxidation-reduction potential (ORP), dissolved oxygen (DO), specific conductivity, and temperature. Turbidity readings must be collected before the flow-thru cell because of the potential for sediment buildup, which can bias the turbidity measurements. Calibration fluids for all instruments should be NIST-traceable, and there should be enough for daily calibration throughout the sampling event. The inlet of the flow cell must be located near the bottom of the flow cell and the outlet near the top. The size of the flow cell should be kept to a minimum and a closed cell is preferred. The flow cell must not contain any air or gas bubbles when monitoring for the water-quality indicator parameters. Decontamination Supplies – Include a reliable and documented source of distilled water and any solvents (if used). Pressure sprayers, buckets or decontamination tubes for pumps, brushes, and non-phosphate soap will also be needed. Sample bottles, sample preservation supplies, sample tags or labels, and chain-of-custody forms. Filtration equipment, if needed. disposable filter is recommended. Polyethylene sheeting, which will be placed on ground around the wellhead. Personal protective equipment specified in the Site Health and Safety Plan. Air monitoring equipment as specified in the Site Health and Safety Plan. Tool box – All needed tools for all site equipment used. A 55-gallon drum or container to contain the purged water. Materials of construction of the sampling equipment (bladders, pumps, tubing, and other equipment that comes in contact with the sample) should be limited to stainless steel, Teflon®, glass and other inert material. This will reduce the chance that the sampling materials will alter the groundwater where concentrations of the site contaminants are expected to be near the detection limits. The thickness of the sample tubing diameter should be maximized, and the tubing length should be minimized so that the loss of contaminants into and through the tubing walls may be reduced and the rate of stabilization of groundwater parameters is maximized.

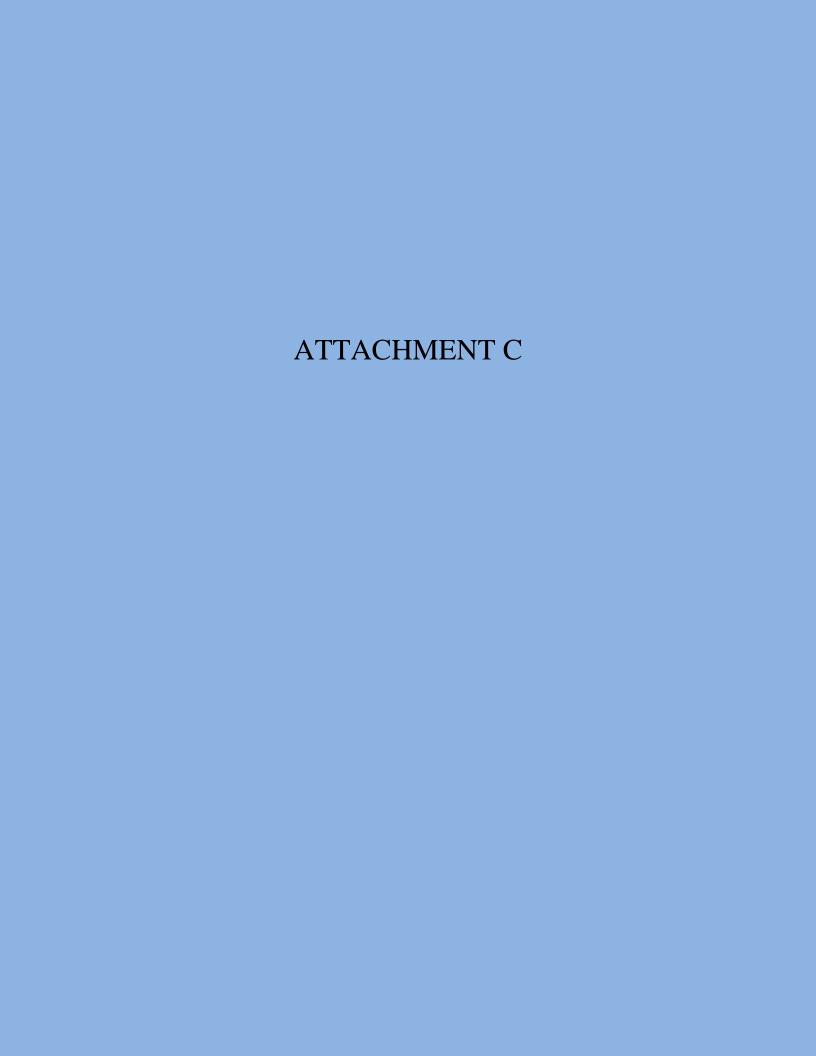
Paper/Forms: Well construction data, field and water quality data from the previous sampling event. Well keys and map of well locations. Field notebook, groundwater sampling logs, and calculator. Site Specific Health and Safety Plan.

Procedures:

- Use a bailer to collect a sample from the top of the water column in the well and put into a glass jar to settle for 1 hour. Check for presence of sheen and denote on field notes.
- Set up equipment at well. Connect tubing to YSI flow-thru cell. Outflow tubing should be from top spout of the YSI flow-thru cell directed into a 5-gallon purge bucket. New inflow tubing to YSI flow-thru cell should be connected into the bottom of the YSI coming from the pump. A flow regulator device can be attached in line between the YSI flow-thru cell and the pump.
- Pump reel is connected to the controller.
- Controller is connected to car battery of running vehicle or separate deep charge rechargeable car battery
- Desired flow is set using controller.
- Parameters are collected every 3 minutes until three sets of parameter measurements are within desired range (listed on purge form).
- Flow-thru cell is removed, and sample is collected directly from tubing, making sure not to change the flow rate.

Important: These three procedures must be adhered to for process to be considered "low flow":

- **Flow rate**: rate must be kept at less than **500 ml/min**. Optimal for many surface aquifers is 150-250 ml/min, although if aquifer is high producing, this may be higher.
- **Drawdown:** drawdown should be less than **3/10ths (0.3 foot)** of a foot measured from static depth to water.
- **Pump placement**: If specific zones of contamination, or lithologic zones that have a greater chance of bearing contaminants (i.e. sandy or gravelly lithologies) are known to be present within a zone that is within the well screen interval, this zone will be specified on the field sheet prior to sampling and the pump intake placed accordingly; otherwise, the pump intake should be placed at the middle of the screened interval. If the water level is below the middle of the screened interval, the pump intake should be placed approximately 2–3 feet below the depth of the water. Ideally, 2–3 feet of water (head) should be over the pump so that "stagnant" water that has been sitting in the well is not purged.



CLEARWATER

GROUP

229 Tewksbury Avenue, Point Richmond, CA 94801 Tel: (510) 307-9943 Fax: (510) 232-2823

Well Inspection and Water Level Gauging Form

Date: 9/6/2013	*
Project Name: 23rd Avenue Partners	
Project Number: CB018R	
Field Personnel: K Pape	

Well ID	Time	Inspect Well Bolts and Cover		DTW (feet)*	DTB (feet)*	DTP (feet)*	Comments
MW-3	9:48	oti	no locat	12.27	23.47		MUSSING GRESKEY
MW-1	9:52	otr	lock	12.27	23.46		missing Gasket
MW-2	9:56	eti	no	10.56	23.48		mussing Gasket missing Gasket missing Gasket
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Dis-	:						
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Notes:	
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DTW = depth to water
DTB = depth to bottom of well (minimize disturbance)

DTP = depth to product

* Measured from top of PVC casing, north side.

Field Form

	Sample Location		MW-3		
CLEARWATER		Date		9,	16/2013
G R O U		Proje	ct Name	23rd Avenue Partn	ers
Environmental Services		Project Number		CB018R	
Static Depth to Water (ft)	12.27		Sample C	ollection Time	10:44
Total Purge Volume (gal)	2,3		Purg	e Method	Low-Flow
Total Depth (ft)	Total Depth (ft) 23:47		Sample Meth	od and Analytical	TPH-g, TPH-d, BTEX, MTBE, VOC Full List by 8260B and 8015M
Screen Depth Interval (ft)	8' - 23'		Water Descri	ption (Sheen YN)	cloudy w/no octor
Pump Intake Depth (feet)	1/2 water column est. @ 20' /9'		Samplin	ng Personnel	K. Pope

Time (min)	Volume Purged (L)	Flow Rate (mL/min)	Depth to Water (ft)	Drawdown (ft)	Temp © +/- 0_1	Dissolved Oxygen (mg/L) +/- 10%	Conductivity (u-siemens/cm) +/- 3%	pH (SU) +/- 0.1	ORP (mV) +/- 10 mV	Comments:
10:16										
10319	104	250	12.32		19.69	1.09	369	6.50	44.3	
10:22	2.3	250	12:32		19,56	0.81	389	6.54	38:0	
10:25	3.1	250	12.32		19.64	0.83	4/1	6.57	33.8	
10:28	309	250	12.32		19.62	0:85	419	10:58	33.0	
10:31	5.0	250	12.32		19.63	0.74	498	6.58	32.05	
10:34	5.8	250	12.32		19.62	0.76	413	6.58	32,4	
10:37	6.7	250	12.32		19.63	0.67	406	6:58	31.4	
10:49	707	250	12:32		19.64	0.72	WID	6:58	3019	

Field Form	В	
Page	of	1

C - D • G	Sample	Location	MW-1		
CLEARWATER		D	Pate	91	16 12013
GROU		Projec	ct Name	23rd Avenue Partr	ners
Environmental Services		Project Number		CB018R	
Static Depth to Water (ft)	10,27		Sample C	ollection Time	11:44
Total Purge Volume (gal)	2.7		Purg	e Method	Low-Flow
Total Depth (ft) 23-46		Sample N		od and Analytical	TPH-g, TPH-d, BTEX, MTBE, VOC Full List by 8260B and 8015M
Screen Depth Interval (ft) 8' - 23'		Water Desc		ption (Sheen YN)	clear w/no odor
Pump Intake Depth (feet)	1/2 water column est. @ 20' 17'		Samplii	ng Personnel	K. Popa

Time (min)	Volume Purged (L)	Flow Rate (mL/min)	Depth to Water (ft)	Drawdown (ft)	Temp © +/- 0.1	Dissolved Oxygen (mg/L) +/- 10%	Conductivity (u-siemens/cm) +/- 3%	pH (SU) +/- 0.1	ORP (mV) +/- 10 mV	Comments:	
11:08											
11370	1.8	300	10.44		20.86	11.19	3	7.17	95-4		
11:14	2.5	300	10.46		20.87	11.05	2	6.96	99.8	lowered flow more	
11:17	3,4	250	10-42		20.96	10.07	3	6.86	101.8		
11:20	4.1	250	10-42		21.02	10.66	3	6.80	104.2		
11:23	506	260	10.42		21.10	10.50	3	6-76	106:5		
11:26	6.3	250	10.42		21.15	10.40	2	6.75	107.4		
11:29	7.0	250	10.42		21-21	10-28	3	6:75	109.4		
11:32	7.7	250	10.42		21.28	10:17	2	6,75	111.2		
11:35	9.0	250	10.42		21.37	10.05	2	6.75	114.3		80
11:38	1000	250	10.47		21.45	9.94	2	6.75	118,2		
1/34/	10,6	250	10:42		21,46	9.88	2	6.75	122.8		1
							8.5				-

		Sample	e Location	mw	1-1 B
CLEARW	(LEARWATER		Date	9,	16/2013
	G R O U P		Client	23 rd	Ave Partners
Environmental S	ervices	Site		CB01	8 R
Static Depth to Water (ft)	10-27		Sample Co	ollection Time	13256
Total Purge Volume (gal)	3.4		Purge	e Method	how - Flow
Total Depth (ft)	23.46		Sample Meth	od and Analytical	TPH-6 TPH-OD BTEX, MTBE, VOC FULL HON 8260B & 8065 W
Screen Depth Interval (ft)	8'-23'		Water I	Description	clear v/na odor
Pump Intake Depth (feet)	17.0'		Samplin	g Personnel	K Pape

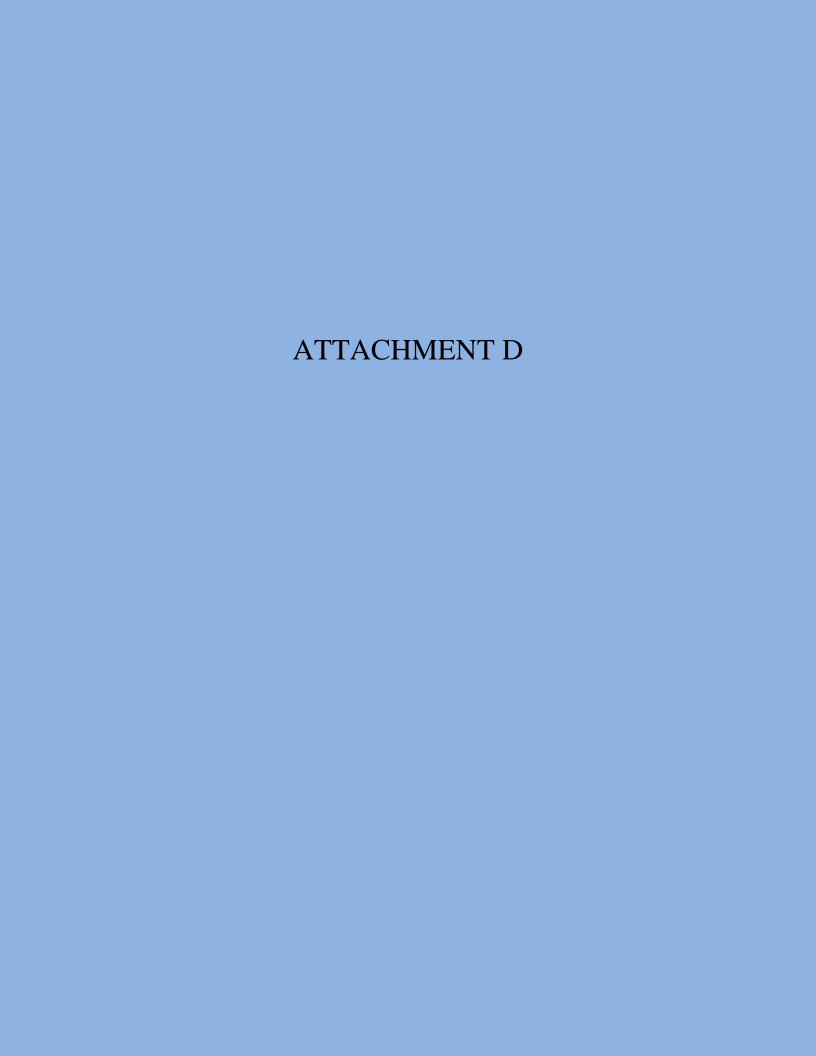
Time (min)	Volume Purged (L)	Flow Rate (mL/min)	Depth to Water (ft)	Drawdown (ft)	Temp © +/- 0_1	Dissolved Oxygen (mg/L) +/- 10%	Conductivity (u-siemens/cm) +/- 3%	pH (SU) +/- 0.1	ORP (mV) +/- 10 mV	Comments:
13:13										
13:16	1.5	250	10.42		21.75	2.52	98:0	5.61	76.0	
13:19	2.1	250	10.42		21.79	2.37	119.0	5.53	72.5	
13:22	3,4	250	10.42		21.70	2.04	104-	5.76	57.1	
13: 25	Hel	250	10.42		21.80	1.93	108	5.95	50.2	
13:28	5.0	250	10:42		21.87	1.80	103	6.02	45,4	
13:31	600	250	10:4.2		21.90	1.67	113	6:25	34,4	
13:34	618	250	10:42		21.91	1.55	117	6:22	36,7	
13:37	7.5	250	10.42		21-93	1.45	131	6.33	33.8	
13:40	901	250	10.42		21.97	1.36	130	6.32	32.0	
13:43	9.8	250	1042		21.97	1.29	127	6.39	29.9	
13:46	10.7	250	19:42		22.06	1.20	110	6.42	27.7	
13:49	11.6	250	10:42		22.20	1.15	108	6:48	22.3	
13:52	13.0	250	10:42		22.20	1.04	113	6.51	22.5	
							,			

Field Form	В	
Page /	of	1

	Sample	E Location	MW-2		
CLEARWATER		I	Date	9/6/	12013
G R O U P		Proje	ct Name	23rd Avenue Partn	ers
Environmental Services		Project Number		CB018R	
Static Depth to Water (ft)	10.56		Sample C	ollection Time	12:50
Total Purge Volume (gal)	2,8	Purg		e Method	Low-Flow
Total Depth (ft) 23, 48			Sample Meth	od and Analytical	TPH-g, TPH-d, BTEX, MTBE, VOC Full List by 8260B and 8015M
Screen Depth Interval (ft)	Screen Depth Interval (ft) 8' - 23'		Water Descrip	ption (Sheen 🌃	clear w/no odor
Pump Intake Depth (feet)	1/2 water column est. @ 20'		Samplin	ng Personnel	K Pape

Time (min)	Volume Purged (L)	Flow Rate (mL/min)	Depth to Water (ft)	Drawdown (ft)	Temp © +/- 0.1	Dissolved Oxygen (mg/L) +/- 10%	Conductivity (u-siemens/cm) +/- 3%	pH (SU) +/- 0.1	ORP (mV) +/- 10 mV	Comments:
12310										
12:13	0.9	250	10057		21.35	0.37	140	5.97	82.1	
12:16	1,8	250	10.51		21.28	0.24	158	5.83	66.3	
12:19	2.8	250	10,57		21-24	0.17	150	5,97	55-7	
12:22	3.5	250	10,5T		21.23	0.21	175	6,09	48.8	
12:25	4-1	250	10.57		21.25	0.22	168	6.22	45.2	
12: 28	6.1	250	10,57		21.23	0.19	188	6.27	43.5	
12:31	6.3	250	10.57		21.11	0.21	98	Le.21	42.0	
12:34	6.9	250	10-57		21.18	0.24	70	6.23	42.4	
12:37	7.6	250	10-57		21.24	0.25	67	6.29	37.3	
12:40	8.2	250	10.57		21.16	0.23	70	6.32	35.1	
12:43	9.3	250	10.57		21,18	0.26	81	6.33	33-7	
12:46	19.4	250	10.57		21.15	0,29	90	6,32	36.6	

Field Form	В	
Page)	of \	





Date: 09/17/2013

Laboratory Results

Olivia Jacobs Clearwater Group, Inc 229 Tewksbury Avenue Point Richmond, CA 94801

Subject: 3 Water Samples

Project Name: 23rd Avenue Partners

Project Number: CB018R

Dear Ms. Jacobs,

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

Troy D. Turpen



Date: 09/17/2013

Project Name: 23rd Avenue Partners

Project Number: CB018R

Sample: MW-3 Lab Number: 85938-01 Matrix: Water

Sample Date :09/06/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
TPH as Diesel	150	50	ug/L	M EPA 8015	09/16/13 10:10
(Note: Discrete peaks in Diesel rand	ne atypical for Diese	l Fuel)	_		

(Note: Discrete peaks in Diesel range, atypical for Diesel Fuel.)

% Recovery M EPA 8015 09/16/13 10:10 Octacosane (Diesel Surrogate) 96.8

Sample: MW-2 Matrix : Water Lab Number: 85938-03

Sample Date :09/06/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed	
TPH as Diesel	350	50	ug/L	M EPA 8015	09/16/13 11:19	
Octacosane (Diesel Surrogate)	104		% Recovery	M EPA 8015	09/16/13 11:19	

Sample: MW-1 Matrix: Water Lab Number: 85938-04

Sample Date :09/06/2013

Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Date/Time Analyzed
TPH as Diesel	< 50	50	ug/L	M EPA 8015	09/16/13 11:54
Octacosane (Diesel Surrogate)	99.7		% Recovery	M EPA 8015	09/16/13 11:54

Method



Date: 09/17/2013

Sample: MW-3

Project Name: 23rd Avenue Partners

Project Number : CB018R Lab Number : 85938-01

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	09/13/13 14:42
TPH as Gasoline	< 50	50	ug/L	09/13/13 14:42
Dichlorodifluoromethane	< 0.50	0.50	ug/L	09/13/13 14:42
Chloromethane	< 0.50	0.50	ug/L	09/13/13 14:42
Vinyl Chloride	< 0.50	0.50	ug/L	09/13/13 14:42
Bromomethane	< 20	20	ug/L	09/13/13 14:42
Chloroethane	< 0.50	0.50	ug/L	09/13/13 14:42
Trichlorofluoromethane	< 0.50	0.50	ug/L	09/13/13 14:42
1,1-Dichloroethene	< 0.50	0.50	ug/L	09/13/13 14:42
Methylene Chloride	< 5.0	5.0	ug/L	09/13/13 14:42
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	09/13/13 14:42
1,1-Dichloroethane	< 0.50	0.50	ug/L	09/13/13 14:42
2,2-Dichloropropane	< 0.50	0.50	ug/L	09/13/13 14:42
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	09/13/13 14:42
Chloroform	1.1	0.50	ug/L	09/13/13 14:42
Bromochloromethane	< 0.50	0.50	ug/L	09/13/13 14:42
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	09/13/13 14:42
1,1-Dichloropropene	< 0.50	0.50	ug/L	09/13/13 14:42
1,2-Dichloroethane	< 0.50	0.50	ug/L	09/13/13 14:42
Carbon Tetrachloride	< 0.50	0.50	ug/L	09/13/13 14:42
Benzene	< 0.50	0.50	ug/L	09/13/13 14:42
Trichloroethene	5.2	0.50	ug/L	09/13/13 14:42
1,2-Dichloropropane	< 0.50	0.50	ug/L	09/13/13 14:42
Bromodichloromethane	< 0.50	0.50	ug/L	09/13/13 14:42
Dibromomethane	< 0.50	0.50	ug/L	09/13/13 14:42
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	09/13/13 14:42
Toluene	< 0.50	0.50	ug/L	09/13/13 14:42
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	09/13/13 14:42
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	09/13/13 14:42
1,3-Dichloropropane	< 0.50	0.50	ug/L	09/13/13 14:42
Tetrachloroethene	< 0.50	0.50	ug/L	09/13/13 14:42
Dibromochloromethane	< 0.50	0.50	ug/L	09/13/13 14:42
1,2-Dibromoethane	< 0.50	0.50	ug/L	09/13/13 14:42
Chlorobenzene	< 0.50	0.50	ug/L	09/13/13 14:42



Date: 09/17/2013

Sample: MW-3

Project Name: 23rd Avenue Partners

Project Number: CB018R Lab Number: 85938-01

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	09/13/13 14:42
Ethylbenzene	< 0.50	0.50	ug/L	09/13/13 14:42
P,M-Xylene	< 1.0	1.0	ug/L	09/13/13 14:42
O-Xylene	< 0.50	0.50	ug/L	09/13/13 14:42
Styrene	< 0.50	0.50	ug/L	09/13/13 14:42
Isopropyl benzene	< 0.50	0.50	ug/L	09/13/13 14:42
Bromoform	< 0.50	0.50	ug/L	09/13/13 14:42
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	09/13/13 14:42
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	09/13/13 14:42
n-Propylbenzene	< 0.50	0.50	ug/L	09/13/13 14:42
Bromobenzene	< 0.50	0.50	ug/L	09/13/13 14:42
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	09/13/13 14:42
2+4-Chlorotoluene	< 1.0	1.0	ug/L	09/13/13 14:42
tert-Butylbenzene	< 0.50	0.50	ug/L	09/13/13 14:42
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	09/13/13 14:42
sec-Butylbenzene	< 0.50	0.50	ug/L	09/13/13 14:42
p-Isopropyltoluene	< 0.50	0.50	ug/L	09/13/13 14:42
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	09/13/13 14:42
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	09/13/13 14:42
n-Butylbenzene	< 0.50	0.50	ug/L	09/13/13 14:42
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	09/13/13 14:42
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	09/13/13 14:42
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	09/13/13 14:42
Hexachlorobutadiene	< 0.50	0.50	ug/L	09/13/13 14:42
Naphthalene	< 0.50	0.50	ug/L	09/13/13 14:42
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	09/13/13 14:42
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	09/13/13 14:42
4-Bromofluorobenzene (Surr)	97.4		% Recovery	09/13/13 14:42
Toluene - d8 (Surr)	100		% Recovery	09/13/13 14:42



Date: 09/17/2013

Sample: MW-2

Project Name: 23rd Avenue Partners

Project Number: CB018R Lab Number: 85938-03

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	09/13/13 15:14
			_	
TPH as Gasoline	< 50	50	ug/L	09/13/13 15:14
Dichlorodifluoromethane	< 0.50	0.50	ug/L	09/13/13 15:14
Chloromethane	< 0.50	0.50	ug/L	09/13/13 15:14
Vinyl Chloride	< 0.50	0.50	ug/L	09/13/13 15:14
Bromomethane	< 20	20	ug/L	09/13/13 15:14
Chloroethane	< 0.50	0.50	ug/L	09/13/13 15:14
Trichlorofluoromethane	< 0.50	0.50	ug/L	09/13/13 15:14
1,1-Dichloroethene	< 0.50	0.50	ug/L	09/13/13 15:14
Methylene Chloride	< 5.0	5.0	ug/L	09/13/13 15:14
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	09/13/13 15:14
1,1-Dichloroethane	< 0.50	0.50	ug/L	09/13/13 15:14
2,2-Dichloropropane	< 0.50	0.50	ug/L	09/13/13 15:14
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	09/13/13 15:14
Chloroform	0.54	0.50	ug/L	09/13/13 15:14
Bromochloromethane	< 0.50	0.50	ug/L	09/13/13 15:14
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	09/13/13 15:14
1,1-Dichloropropene	< 0.50	0.50	ug/L	09/13/13 15:14
1,2-Dichloroethane	< 0.50	0.50	ug/L	09/13/13 15:14
Carbon Tetrachloride	< 0.50	0.50	ug/L	09/13/13 15:14
Benzene	3.8	0.50	ug/L	09/13/13 15:14
Trichloroethene	2.6	0.50	ug/L	09/13/13 15:14
1,2-Dichloropropane	< 0.50	0.50	ug/L	09/13/13 15:14
Bromodichloromethane	< 0.50	0.50	ug/L	09/13/13 15:14
Dibromomethane	< 0.50	0.50	ug/L	09/13/13 15:14
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	09/13/13 15:14
Toluene	< 0.50	0.50	ug/L	09/13/13 15:14
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	09/13/13 15:14
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	09/13/13 15:14
1,3-Dichloropropane	< 0.50	0.50	ug/L	09/13/13 15:14
Tetrachloroethene	< 0.50	0.50	ug/L	09/13/13 15:14
Dibromochloromethane	< 0.50	0.50	ug/L	09/13/13 15:14
1,2-Dibromoethane	< 0.50	0.50	ug/L	09/13/13 15:14
Chlorobenzene	< 0.50	0.50	ug/L	09/13/13 15:14



Date: 09/17/2013

Sample: MW-2

Project Name: 23rd Avenue Partners

Project Number: CB018R Lab Number: 85938-03

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	09/13/13 15:14
Ethylbenzene	< 0.50	0.50	ug/L	09/13/13 15:14
P,M-Xylene	< 1.0	1.0	ug/L	09/13/13 15:14
O-Xylene	< 0.50	0.50	ug/L	09/13/13 15:14
Styrene	< 0.50	0.50	ug/L	09/13/13 15:14
Isopropyl benzene	< 0.50	0.50	ug/L	09/13/13 15:14
Bromoform	< 0.50	0.50	ug/L	09/13/13 15:14
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	09/13/13 15:14
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	09/13/13 15:14
n-Propylbenzene	< 0.50	0.50	ug/L	09/13/13 15:14
Bromobenzene	< 0.50	0.50	ug/L	09/13/13 15:14
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	09/13/13 15:14
2+4-Chlorotoluene	< 1.0	1.0	ug/L	09/13/13 15:14
tert-Butylbenzene	< 0.50	0.50	ug/L	09/13/13 15:14
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	09/13/13 15:14
sec-Butylbenzene	< 0.50	0.50	ug/L	09/13/13 15:14
p-Isopropyltoluene	< 0.50	0.50	ug/L	09/13/13 15:14
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	09/13/13 15:14
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	09/13/13 15:14
n-Butylbenzene	< 0.50	0.50	ug/L	09/13/13 15:14
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	09/13/13 15:14
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	09/13/13 15:14
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	09/13/13 15:14
Hexachlorobutadiene	< 0.50	0.50	ug/L	09/13/13 15:14
Naphthalene	< 0.50	0.50	ug/L	09/13/13 15:14
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	09/13/13 15:14
1,2-Dichloroethane-d4 (Surr)	99.3		% Recovery	09/13/13 15:14
4-Bromofluorobenzene (Surr)	97.4		% Recovery	09/13/13 15:14
Toluene - d8 (Surr)	99.9		% Recovery	09/13/13 15:14



Date: 09/17/2013

Sample: MW-1

Project Name: 23rd Avenue Partners

Project Number : CB018R Lab Number : 85938-04

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	09/13/13 15:46
TPH as Gasoline	< 50	50	ug/L	09/13/13 15:46
Dichlorodifluoromethane	< 0.50	0.50	ug/L	09/13/13 15:46
Chloromethane	< 0.50	0.50	ug/L	09/13/13 15:46
Vinyl Chloride	< 0.50	0.50	ug/L	09/13/13 15:46
Bromomethane	< 20	20	ug/L	09/13/13 15:46
Chloroethane	< 0.50	0.50	ug/L	09/13/13 15:46
Trichlorofluoromethane	< 0.50	0.50	ug/L	09/13/13 15:46
1,1-Dichloroethene	< 0.50	0.50	ug/L	09/13/13 15:46
Methylene Chloride	< 5.0	5.0	ug/L	09/13/13 15:46
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	09/13/13 15:46
1,1-Dichloroethane	< 0.50	0.50	ug/L	09/13/13 15:46
2,2-Dichloropropane	< 0.50	0.50	ug/L	09/13/13 15:46
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	09/13/13 15:46
Chloroform	< 0.50	0.50	ug/L	09/13/13 15:46
Bromochloromethane	< 0.50	0.50	ug/L	09/13/13 15:46
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	09/13/13 15:46
1,1-Dichloropropene	< 0.50	0.50	ug/L	09/13/13 15:46
1,2-Dichloroethane	< 0.50	0.50	ug/L	09/13/13 15:46
Carbon Tetrachloride	< 0.50	0.50	ug/L	09/13/13 15:46
Benzene	< 0.50	0.50	ug/L	09/13/13 15:46
Trichloroethene	1.4	0.50	ug/L	09/13/13 15:46
1,2-Dichloropropane	< 0.50	0.50	ug/L	09/13/13 15:46
Bromodichloromethane	< 0.50	0.50	ug/L	09/13/13 15:46
Dibromomethane	< 0.50	0.50	ug/L	09/13/13 15:46
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	09/13/13 15:46
Toluene	< 0.50	0.50	ug/L	09/13/13 15:46
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	09/13/13 15:46
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	09/13/13 15:46
1,3-Dichloropropane	< 0.50	0.50	ug/L	09/13/13 15:46
Tetrachloroethene	< 0.50	0.50	ug/L	09/13/13 15:46
Dibromochloromethane	< 0.50	0.50	ug/L	09/13/13 15:46
1,2-Dibromoethane	< 0.50	0.50	ug/L	09/13/13 15:46
Chlorobenzene	< 0.50	0.50	ug/L	09/13/13 15:46



Date: 09/17/2013

Sample: MW-1

Project Name: 23rd Avenue Partners

Project Number : CB018R Lab Number : 85938-04

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	09/13/13 15:46
Ethylbenzene	< 0.50	0.50	ug/L	09/13/13 15:46
P,M-Xylene	< 1.0	1.0	ug/L	09/13/13 15:46
O-Xylene	< 0.50	0.50	ug/L	09/13/13 15:46
Styrene	< 0.50	0.50	ug/L	09/13/13 15:46
Isopropyl benzene	< 0.50	0.50	ug/L	09/13/13 15:46
Bromoform	< 0.50	0.50	ug/L	09/13/13 15:46
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	09/13/13 15:46
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	09/13/13 15:46
n-Propylbenzene	< 0.50	0.50	ug/L	09/13/13 15:46
Bromobenzene	< 0.50	0.50	ug/L	09/13/13 15:46
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	09/13/13 15:46
2+4-Chlorotoluene	< 1.0	1.0	ug/L	09/13/13 15:46
tert-Butylbenzene	< 0.50	0.50	ug/L	09/13/13 15:46
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	09/13/13 15:46
sec-Butylbenzene	< 0.50	0.50	ug/L	09/13/13 15:46
p-Isopropyltoluene	< 0.50	0.50	ug/L	09/13/13 15:46
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	09/13/13 15:46
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	09/13/13 15:46
n-Butylbenzene	< 0.50	0.50	ug/L	09/13/13 15:46
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	09/13/13 15:46
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	09/13/13 15:46
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	09/13/13 15:46
Hexachlorobutadiene	< 0.50	0.50	ug/L	09/13/13 15:46
Naphthalene	< 0.50	0.50	ug/L	09/13/13 15:46
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	09/13/13 15:46
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	09/13/13 15:46
4-Bromofluorobenzene (Surr)	96.7		% Recovery	09/13/13 15:46
Toluene - d8 (Surr)	99.9		% Recovery	09/13/13 15:46

Date: 09/17/2013

QC Report : Method Blank Data

Project Name: 23rd Avenue Partners

Parameter	Measured Value	Method Reporting Limit Units		Analysis Method	Date Analyzed	
TPH as Diesel	< 50	50	ug/L	M EPA 8015	09/13/2013	
		30	•			
Octacosane (Diesel Surrogate)	100		%	M EPA 8015	09/13/2013	
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013	
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/13/2013	
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013	
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013	
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013	
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013	
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013	
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013	
1,1-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013	
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013	
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013	
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013	
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013	
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013	
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013	
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013	
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013	
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013	
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013	
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013	
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013	
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013	
2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	09/13/2013	
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013	
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013	
Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013	
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013	
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013	
Bromoform	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013	
Bromomethane	< 20	20	ug/L	EPA 8260B	09/13/2013	
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013	
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013	

Parameter	Measured Value	Method Reportir Limit	ng Units	Analysis Method	Date Analyzed
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013
Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013
Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	09/13/2013
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013
O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013
P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	09/13/2013
Styrene	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013
n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013
n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013
p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013
sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013
tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	09/13/2013
1,2-Dichloroethane-d4 (Surr)	100		%	EPA 8260B	09/13/2013
4-Bromofluorobenzene (Surr)	96.6		%	EPA 8260B	09/13/2013
Toluene - d8 (Surr)	99.6		%	EPA 8260B	09/13/2013

Date: 09/17/2013

Project Name : 23rd Avenue Partners

QC Report : Matrix Spike/ Matrix Spike Duplicate

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spike Sample Value		Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicat Spiked Sample Percent Recov.			Relative Percent Diff. Limit
TPH as Diesel														
	BLANK	<50	1000	1000	1030	1050	ug/L	M EPA 8015	9/13/13	103	105	2.30	70-130	25
1,1,1,2-Tetrach	loroethane													
	85918-12	<0.50	40.0	40.0	43.3	42.0	ug/L	EPA 8260B	9/13/13	108	105	3.04	70.0-130	25
1,1,1-Trichloroe	ethane													
	85918-12	<0.50	40.0	40.0	42.8	41.6	ug/L	EPA 8260B	9/13/13	107	104	2.95	70.0-130	25
1,1,2,2-Tetrach	loroethane													
	85918-12	<0.50	40.0	40.0	43.5	42.7	ug/L	EPA 8260B	9/13/13	109	107	1.84	70.0-130	25
1,1,2-Trichloroe	ethane													
	85918-12	<0.50	40.0	40.0	42.7	41.8	ug/L	EPA 8260B	9/13/13	107	105	2.06	70.0-130	25
1,1-Dichloroeth	ane													
	85918-12	<0.50	40.0	40.0	41.8	40.0	ug/L	EPA 8260B	9/13/13	104	100	4.26	70.0-130	25
1,1-Dichloroeth	ene													
	85918-12	<0.50	40.0	40.0	42.4	40.3	ug/L	EPA 8260B	9/13/13	106	101	5.14	70.0-130	25
1,1-Dichloropro	pene													
	85918-12	<0.50	40.0	40.0	42.5	40.5	ug/L	EPA 8260B	9/13/13	106	101	4.76	70.0-130	25
1,2,3-Trichlorob	enzene													
	85918-12	<0.50	40.0	40.0	41.3	40.4	ug/L	EPA 8260B	9/13/13	103	101	2.29	70.0-130	25

Date: 09/17/2013

Project Name : 23rd Avenue Partners

QC Report : Matrix Spike/ Matrix Spike Duplicate

	Spiked	Sample	Spike	Spike Dup.	Spiked Sample	Duplicate Spike Sample	e d	Analysis	Date	Spiked Sample	Duplicate Spiked Sample Percent		Spiked Sample Percent	Relative Percent Diff.
Parameter	Sample	Value	Level	Level	Value	Value	Units	Method	Analyzed	Recov.	Recov.	Diff.	Limit	Limit
1,2,3-Trichlorop	ropane													_
	85918-12	<0.50	40.0	40.0	42.7	42.0	ug/L	EPA 8260B	9/13/13	107	105	1.62	70.0-130	25
1,2,4-Trichlorob	enzene													
	85918-12	<0.50	40.0	40.0	40.9	40.5	ug/L	EPA 8260B	9/13/13	102	101	1.10	70.0-130	25
1,2,4-Trimethyll	penzene													
	85918-12	<0.50	40.0	40.0	43.2	41.6	ug/L	EPA 8260B	9/13/13	108	104	3.86	70.0-130	25
1,2-Dibromoeth	ane													
	85918-12	<0.50	40.3	40.3	42.5	42.3	ug/L	EPA 8260B	9/13/13	105	105	0.576	70.0-130	25
1,2-Dichlorober	nzene													
	85918-12	<0.50	40.0	40.0	41.3	40.2	ug/L	EPA 8260B	9/13/13	103	100	2.62	70.0-130	25
1,2-Dichloroeth	ane													
	85918-12	<0.50	40.0	40.0	41.4	41.0	ug/L	EPA 8260B	9/13/13	104	102	1.04	70.0-130	25
1,2-Dichloropro	pane													
	85918-12	<0.50	40.0	40.0	41.4	40.5	ug/L	EPA 8260B	9/13/13	103	101	2.00	70.0-130	25
1,2-dibromo-3-d	chloropropar	ne												
	85918-12	<0.50	40.0	40.0	41.5	41.3	ug/L	EPA 8260B	9/13/13	104	103	0.558	70.0-130	25
1,3,5-Trimethyll	penzene													
	85918-12	<0.50	40.0	40.0	43.7	42.1	ug/L	EPA 8260B	9/13/13	109	105	3.72	70.0-130	25
1,3-Dichlorober	nzene													
	85918-12	<0.50	40.0	40.0	42.0	40.3	ug/L	EPA 8260B	9/13/13	105	101	3.98	70.0-130	25

Date: 09/17/2013

Project Name : 23rd Avenue Partners

QC Report : Matrix Spike/ Matrix Spike Duplicate

	Orilland	0	Oction	Spike	Spiked	Duplicate Spike	e d	A construction	Data	Spiked Sample	Duplicate Spiked Sample	Relative	Spiked Sample Percent	Relative Percent
Parameter	Spiked Sample	Sample Value	Spike Level	Dup. Level	Sample Value	Samṗle Value	Units	Analysis Method	Date Analyzed	Recov.	Percent Recov.	Percent Diff.	Recov. Limit	Diff. Limit
1,3-Dichloropro	pane													
	85918-12	<0.50	40.0	40.0	42.3	41.4	ug/L	EPA 8260B	9/13/13	106	103	2.31	70.0-130	25
1,4-Dichloroben	zene													
	85918-12	<0.50	40.0	40.0	40.9	39.6	ug/L	EPA 8260B	9/13/13	102	98.9	3.32	70.0-130	25
2+4-Chlorotolue	ene													
	85918-12	<1.0	80.0	80.0	83.1	80.8	ug/L	EPA 8260B	9/13/13	104	101	2.73	70.0-130	25
2,2-Dichloropro	pane													
	85918-12	<0.50	40.0	40.0	45.0	42.8	ug/L	EPA 8260B	9/13/13	113	107	5.18	70.0-130	25
Benzene														
	85918-12	<0.50	40.0	40.0	40.1	39.2	ug/L	EPA 8260B	9/13/13	100	97.9	2.46	70.0-130	25
Bromobenzene														
	85918-12	<0.50	40.0	40.0	42.0	40.6	ug/L	EPA 8260B	9/13/13	105	102	3.26	70.0-130	25
Bromochlorome	thane													
	85918-12	<0.50	40.0	40.0	42.8	40.8	ug/L	EPA 8260B	9/13/13	107	102	4.67	70.0-130	25
Bromodichloron														
	85918-12	<0.50	40.0	40.0	44.0	43.1	ug/L	EPA 8260B	9/13/13	110	108	2.15	70.0-130	25
Bromoform														
	85918-12	<0.50	40.0	40.0	44.7	43.1	ug/L	EPA 8260B	9/13/13	112	108	3.74	70.0-135	25
Bromomethane														
	85918-12	<20	200	200	181	183	ug/L	EPA 8260B	9/13/13	90.3	91.7	1.50	50.0-135	25

Date: 09/17/2013

Project Name : 23rd Avenue Partners

QC Report : Matrix Spike/ Matrix Spike Duplicate

				Spike	Spiked	Duplicate Spike	e ed			Spiked Sample	Duplicat Spiked Sample	Relative	Spiked Sample Percent	Relative Percent
Parameter	Spiked Sample	Sample Value	Spike Level	Dup. Level	Sample Value	Samṗle Value	Units	Analysis Method	Date Analyzed	Percent	Percent Recov.	Percent Diff.	Recov. Limit	Diff. Limit
Carbon Tetrach	loride													_
	85918-12	<0.50	40.0	40.0	44.1	42.3	ug/L	EPA 8260B	9/13/13	110	106	3.96	70.0-130	25
Chlorobenzene														
	85918-12	<0.50	40.0	40.0	41.0	40.0	ug/L	EPA 8260B	9/13/13	103	100	2.54	70.0-130	25
Chloroethane														
	85918-12	<0.50	40.0	40.0	41.7	39.6	ug/L	EPA 8260B	9/13/13	104	99.1	5.02	70.0-130	25
Chloroform														
	85918-12	<0.50	40.0	40.0	42.1	40.6	ug/L	EPA 8260B	9/13/13	105	102	3.49	70.0-130	25
Chloromethane														
	85918-12	<0.50	40.0	40.0	39.9	38.4	ug/L	EPA 8260B	9/13/13	99.8	96.0	3.96	70.0-130	25
Dibromochloror	nethane													
	85918-12	<0.50	40.0	40.0	43.6	42.8	ug/L	EPA 8260B	9/13/13	109	107	1.83	70.0-130	25
Dibromomethar	ne													
	85918-12	<0.50	40.0	40.0	42.2	42.0	ug/L	EPA 8260B	9/13/13	106	105	0.569	70.0-130	25
Dichlorodifluoro	methane													
	85918-12	<0.50	40.0	40.0	37.1	35.7	ug/L	EPA 8260B	9/13/13	92.7	89.4	3.70	65.0-140	25
Ethylbenzene														
	85918-12	<0.50	40.0	40.0	41.4	39.7	ug/L	EPA 8260B	9/13/13	103	99.4	4.03	70.0-130	25
Hexachlorobuta	idiene													
	85918-12	<0.50	40.0	40.0	42.5	40.6	ug/L	EPA 8260B	9/13/13	106	101	4.57	70.0-130	25

Date: 09/17/2013

Project Name : 23rd Avenue Partners

QC Report : Matrix Spike/ Matrix Spike Duplicate

				Spike	Spiked	Duplicate Spike	e d			Spiked Sample	Duplicat Spiked Sample	Relative	Spiked Sample Percent	Relative Percent
Parameter	Spiked Sample	Sample Value	Spike Level	Dup. Level	Sample Value	Samṗle Value	Units	Analysis Method	Date Analyzed	Percent	Percent Recov.	Percent Diff.	Recov. Limit	Diff. Limit
Isopropyl benze	ene													
	85918-12	<0.50	40.0	40.0	42.4	41.4	ug/L	EPA 8260B	9/13/13	106	104	2.40	70.0-130	25
Methyl-t-butyl e	ther													
	85918-12	<0.50	39.9	39.9	40.6	40.2	ug/L	EPA 8260B	9/13/13	102	101	1.09	70.0-130	25
Methylene Chlo	ride													
	85918-12	<5.0	40.0	40.0	40.7	39.0	ug/L	EPA 8260B	9/13/13	102	97.6	4.10	70.0-130	25
Naphthalene														
	85918-12	<0.50	40.0	40.0	42.4	42.2	ug/L	EPA 8260B	9/13/13	106	106	0.430	70.0-130	25
O-Xylene														
	85918-12	<0.50	40.0	40.0	42.7	40.8	ug/L	EPA 8260B	9/13/13	107	102	4.65	70.0-130	25
P + M Xylene														
_	85918-12	<1.0	40.0	40.0	41.6	40.4	ug/L	EPA 8260B	9/13/13	104	101	2.80	70.0-130	25
Styrene														
	85918-12	<0.50	40.0	40.0	44.8	43.4	ug/L	EPA 8260B	9/13/13	112	108	3.31	70.0-130	25
Tetrachloroethe														
	85918-12	<0.50	40.0	40.0	41.8	40.1	ug/L	EPA 8260B	9/13/13	105	100	4.14	70.0-130	25
Toluene														
	85918-12	<0.50	40.0	40.0	41.2	40.1	ug/L	EPA 8260B	9/13/13	103	100	2.91	70.0-130	25
Trichloroethene														
	85918-12	<0.50	40.0	40.0	41.3	40.3	ug/L	EPA 8260B	9/13/13	103	101	2.66	70.0-130	25

Date: 09/17/2013

Project Name : 23rd Avenue Partners

QC Report : Matrix Spike/ Matrix Spike Duplicate

	Spiked	Sample	Spike	Spike Dup.	Spiked Sample	Duplicate Spike Sample	e d	Analysis	Date	Spiked Sample	Duplicat Spiked Sample Percent	Relative	Spiked Sample Percent	Relative Percent Diff.
Parameter	Sample	Value	Level	Level	Value	Value	Units	Method	Analyzed	Recov.	Recov.	Diff.	Limit	Limit
Trichlorofluoron	nethane													
	85918-12	<0.50	40.0	40.0	43.0	40.8	ug/L	EPA 8260B	9/13/13	108	102	5.26	70.0-130	25
Vinyl Chloride														
	85918-12	<0.50	40.0	40.0	40.7	39.1	ug/L	EPA 8260B	9/13/13	102	97.9	3.91	70.0-130	25
c-1,3-Dichlorop	ropene													
	85918-12	<5.0	40.0	40.0	44.3	43.2	ug/L	EPA 8260B	9/13/13	111	108	2.71	70.0-130	25
cis-1,2-Dichloro	ethene						_							
	85918-12	<0.50	40.0	40.0	41.5	39.7	ug/L	EPA 8260B	9/13/13	104	99.3	4.41	70.0-130	25
n-butylbenzene							_							
	85918-12	<0.50	40.0	40.0	42.5	41.2	ug/L	EPA 8260B	9/13/13	106	103	3.09	70.0-130	25
n-propylbenzen	е						_							
	85918-12	<0.50	40.0	40.0	42.2	41.2	ug/L	EPA 8260B	9/13/13	106	103	2.46	70.0-130	25
p-isopropyltolue	ene						Ü							
	85918-12	<0.50	40.0	40.0	44.0	42.1	ug/L	EPA 8260B	9/13/13	110	105	4.47	70.0-130	25
sec-butylbenzer	ne						Ü							
	85918-12	<0.50	40.0	40.0	43.1	41.4	ug/L	EPA 8260B	9/13/13	108	103	4.18	70.0-130	25
t-1,2-Dichloroet	hene						Ü							
	85918-12	<5.0	40.0	40.0	42.5	41.1	ug/L	EPA 8260B	9/13/13	106	103	3.32	70.0-130	25
t-1,3-Dichloropr	opene						J							
	85918-12	<5.0	40.0	40.0	43.9	43.2	ug/L	EPA 8260B	9/13/13	110	108	1.61	70.0-130	25

Date: 09/17/2013

Project Name : 23rd Avenue Partners

QC Report : Matrix Spike/ Matrix Spike Duplicate

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spike Sample Value		Analysis Method	Date Analyzed	Percent	Duplicate Spiked Sample Percent Recov.	Relative	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
tert-butylbenzer	ne													
	85918-12	<0.50	40.0	40.0	43.2	41.3	ug/L	EPA 8260B	9/13/13	108	103	4.46	70.0-130	25

Date: 09/17/2013

Project Name : 23rd Avenue Partners

QC Report : Laboratory Control Sample (LCS)

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
1,1,1,2-Tetrachloroethane	40.1	ug/L	EPA 8260B	9/13/13	110	70.0-130
1,1,1-Trichloroethane	40.1	ug/L	EPA 8260B	9/13/13	107	70.0-130
1,1,2,2-Tetrachloroethane	40.1	ug/L	EPA 8260B	9/13/13	110	70.0-130
1,1,2-Trichloroethane	40.1	ug/L	EPA 8260B	9/13/13	103	70.0-130
1,1-Dichloroethane	40.1	ug/L	EPA 8260B	9/13/13	106	70.0-130
1,1-Dichloroethene	40.1	ug/L	EPA 8260B	9/13/13	114	70.0-130
1,1-Dichloropropene	40.1	ug/L	EPA 8260B	9/13/13	106	70.0-130
1,2,3-Trichlorobenzene	40.1	ug/L	EPA 8260B	9/13/13	107	70.0-130
1,2,3-Trichloropropane	40.1	ug/L	EPA 8260B	9/13/13	108	70.0-130
1,2,4-Trichlorobenzene	40.1	ug/L	EPA 8260B	9/13/13	107	70.0-130
1,2,4-Trimethylbenzene	40.1	ug/L	EPA 8260B	9/13/13	111	70.0-130
1,2-Dibromoethane	40.4	ug/L	EPA 8260B	9/13/13	104	70.0-130
1,2-Dichlorobenzene	40.1	ug/L	EPA 8260B	9/13/13	105	70.0-130
1,2-Dichloroethane	40.1	ug/L	EPA 8260B	9/13/13	104	70.0-130
1,2-Dichloropropane	40.1	ug/L	EPA 8260B	9/13/13	103	70.0-130
1,2-dibromo-3-chloropropane	40.1	ug/L	EPA 8260B	9/13/13	105	70.0-130
1,3,5-Trimethylbenzene	40.1	ug/L	EPA 8260B	9/13/13	111	70.0-130
1,3-Dichlorobenzene	40.1	ug/L	EPA 8260B	9/13/13	109	70.0-130
1,3-Dichloropropane	40.1	ug/L	EPA 8260B	9/13/13	104	70.0-130
1,4-Dichlorobenzene	40.1	ug/L	EPA 8260B	9/13/13	102	70.0-130
2+4-Chlorotoluene	80.2	ug/L	EPA 8260B	9/13/13	106	70.0-130
2,2-Dichloropropane	40.1	ug/L	EPA 8260B	9/13/13	112	70.0-130
_J Benzene	40.1	ug/L	EPA 8260B	9/13/13	100	70.0-130

Date: 09/17/2013

Project Name : 23rd Avenue Partners

QC Report : Laboratory Control Sample (LCS)

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Bromobenzene	40.1	ug/L	EPA 8260B	9/13/13	107	70.0-130
Bromochloromethane	40.1	ug/L	EPA 8260B	9/13/13	106	70.0-130
Bromodichloromethane	40.1	ug/L	EPA 8260B	9/13/13	110	70.0-130
Bromoform	40.1	ug/L	EPA 8260B	9/13/13	115	70.0-135
Bromomethane	200	ug/L	EPA 8260B	9/13/13	92.8	50.0-135
Carbon Tetrachloride	40.1	ug/L	EPA 8260B	9/13/13	112	70.0-130
Chlorobenzene	40.1	ug/L	EPA 8260B	9/13/13	103	70.0-130
Chloroethane	40.1	ug/L	EPA 8260B	9/13/13	110	70.0-130
Chloroform	40.1	ug/L	EPA 8260B	9/13/13	106	70.0-130
Chloromethane	40.1	ug/L	EPA 8260B	9/13/13	113	70.0-130
Dibromochloromethane	40.1	ug/L	EPA 8260B	9/13/13	109	70.0-130
Dibromomethane	40.1	ug/L	EPA 8260B	9/13/13	106	70.0-130
Dichlorodifluoromethane	40.1	ug/L	EPA 8260B	9/13/13	116	65.0-140
Ethylbenzene	40.1	ug/L	EPA 8260B	9/13/13	103	70.0-130
Hexachlorobutadiene	40.1	ug/L	EPA 8260B	9/13/13	110	70.0-130
Isopropyl benzene	40.1	ug/L	EPA 8260B	9/13/13	107	70.0-130
Methyl-t-butyl ether	40.0	ug/L	EPA 8260B	9/13/13	105	70.0-130
Methylene Chloride	40.1	ug/L	EPA 8260B	9/13/13	108	70.0-130
Naphthalene	40.1	ug/L	EPA 8260B	9/13/13	109	70.0-130
O-Xylene	40.1	ug/L	EPA 8260B	9/13/13	106	70.0-130
P + M Xylene	40.1	ug/L	EPA 8260B	9/13/13	104	70.0-130
Styrene	40.1	ug/L	EPA 8260B	9/13/13	112	70.0-130
TPH as Gasoline	493	ug/L	EPA 8260B	9/13/13	101	70.0-130

Date: 09/17/2013

Project Name : 23rd Avenue Partners

QC Report : Laboratory Control Sample (LCS)

	.				LCS	LCS Percent
Parameter	Spike Level	Units	Analysis Method	Date Analyzed	Percent Recov.	Recov. Limit
Tetrachloroethene	40.1	ug/L	EPA 8260B	9/13/13	104	70.0-130
Toluene	40.1	ug/L	EPA 8260B	9/13/13	102	70.0-130
Trichloroethene	40.1	ug/L	EPA 8260B	9/13/13	103	70.0-130
Trichlorofluoromethane	40.1	ug/L	EPA 8260B	9/13/13	116	70.0-130
Vinyl Chloride	40.1	ug/L	EPA 8260B	9/13/13	111	70.0-130
c-1,3-Dichloropropene	40.1	ug/L	EPA 8260B	9/13/13	110	70.0-130
cis-1,2-Dichloroethene	40.1	ug/L	EPA 8260B	9/13/13	105	70.0-130
n-butylbenzene	40.1	ug/L	EPA 8260B	9/13/13	107	70.0-130
n-propylbenzene	40.1	ug/L	EPA 8260B	9/13/13	106	70.0-130
p-isopropyltoluene	40.1	ug/L	EPA 8260B	9/13/13	112	70.0-130
sec-butylbenzene	40.1	ug/L	EPA 8260B	9/13/13	112	70.0-130
t-1,2-Dichloroethene	40.1	ug/L	EPA 8260B	9/13/13	110	70.0-130
t-1,3-Dichloropropene	40.1	ug/L	EPA 8260B	9/13/13	111	70.0-130
tert-butylbenzene	40.1	ug/L	EPA 8260B	9/13/13	110	70.0-130



2795 2nd Street, Suite 300 Davis, CA 95618

Lab: 530.297.4800 Fav: 530 297 4802

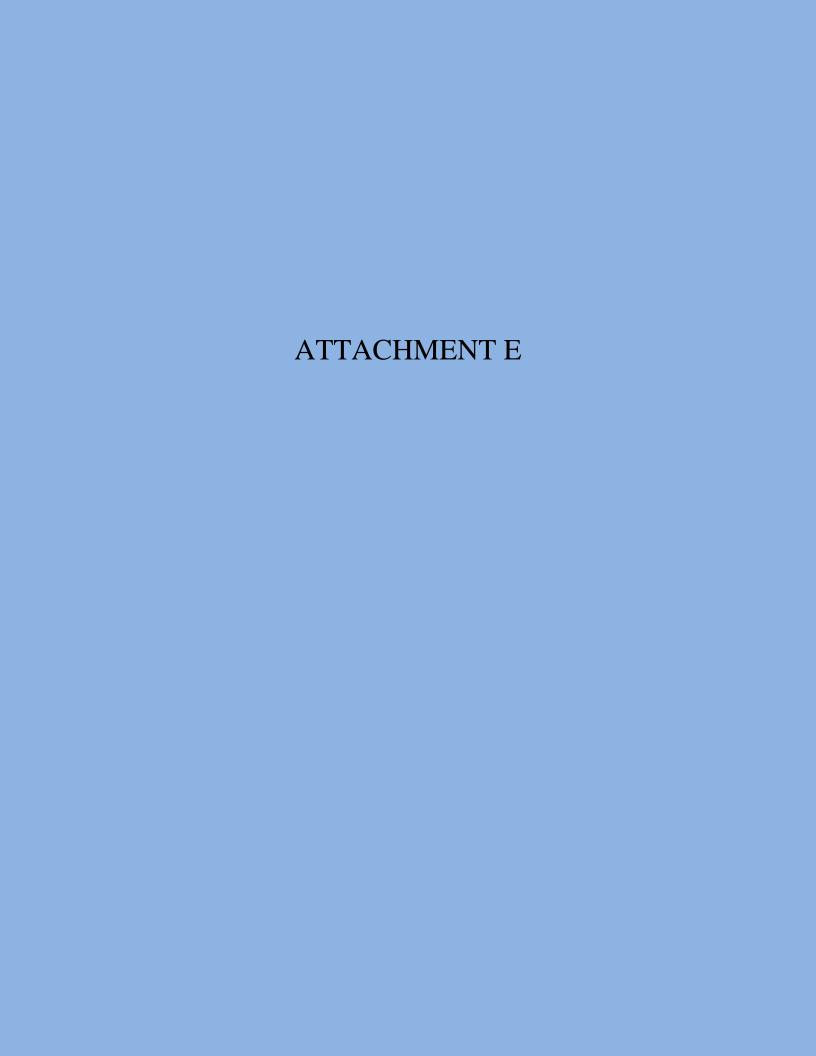
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Analytical LLC SAMPLE R								CHEC	<u>T</u>	srg #: 85 938					
Sample Receipt	Initials/D	ate: RLM	0910	13 s	tora	ge Tim	e: 1636	36 Sample Login			Initials/Date: 2 09/11/3				
			Sp				Method o		Z 4C	Courier Over-the-counter Shipped					
emp °C 2-2 N/A Therm ID (R-1			1R-1	Time 1630			Coolant present		Yes	s No	☐ Water ☐ Tem			emp Excurs	ion
For Shipments On	ily: Coole	r Receipt I	nitials/D	ate/Tir	ne:				Cust	ody Seals	□ N/A		Intact	☐ Broke	n
Chain-of-Custody:				Yes No			Documented on		СОС	Labels	Discrepancies:				
Is COC present?				X			Sample	ID							
Is COC signed by relinquisher?				<u> </u>			Project	D							
Is COC dated by relinquisher?				X			Sample	Date							
Is the sampler's name on the COC?				X			Sample	Time							
Are there analyses or hold for all samples?			es?				Does C	Does COC match project hist			□ N/A	Z	Yes	☐ No	
Samples:				N/A	Yes	No	Commo	ents:							
Are sample custody seals intact?				_X_											
Are sample containers intact?					X										
Is preservation documented?					X										
In-house Analysis:				N/A	Yes	No									
Are preservatives acceptable?					X										
Are samples within holding time?					X										
Are sample container types correct?					X		-								
Is there adequate	sample vol	ume?			X										
Receipt Details:							1								
Matrix	Container Type			# of Containers											
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Proceed With Analysis: YES NO Client Communication:										NO ir	it/Date	: :			



STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A GEO_WELL FILE

SUCCESS

Processing is complete. No errors were found! Your file has been successfully submitted!

Submittal Type: GEO_WELL

Report Title: Groundwater Monitoring - 3Q13

Facility Global ID: T0600177455

Facility Name: 23RD AVENUE PARTNERS

File Name: GEO_WELL.zip
Organization Name: Clearwater Group
Username: CLEARWATERGROUP

<u>IP Address:</u> 76.102.246.211

Submittal Date/Time: 9/18/2013 12:22:16 PM

Confirmation Number: 1258323013

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GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

Processing is complete. No errors were found! Your file has been successfully submitted!

Submittal Type: EDF

Report Title: Groundwater Monitoring - 3Q13 (85938)

Report Type: Monitoring Report - Quarterly

Facility Global ID: T0600177455

Facility Name: 23RD AVENUE PARTNERS

File Name: EDF_23rdAvenuePartners_85938.ZIP

Organization Name: Clearwater Group

<u>Username:</u> CLEARWATERGROUP

<u>IP Address:</u> 76.102.246.211

Submittal Date/Time: 9/18/2013 1:09:06 PM

Confirmation Number: 6872938036

VIEW QC REPORT

VIEW DETECTIONS REPORT

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