P&D ENVIRONMENTAL, INC.
55 Santa Clara Avenue, Suite 240
Oakland, CA 94610
(510) 658-6916

June 2, 2014
Report 0553.R4

Mr. Benny Kwong
EAH Housing
2169 East Francisco Blvd, Suite EAH
San Rafael, CA 94901

SUBJECT: UST REMOVAL REPORT
Cathedral Gardens
638 21st Street
Oakland, CA

Dear Mr. Kwong:

P&D Environmental, Inc. (P&D) has prepared this report documenting the removal of one 500-gallon capacity heating oil underground storage tank (UST) from the subject site. The UST was discovered on May 15, 2014 during excavation on the property near the 21st Street sidewalk. At the time of discovery, the UST was determined to be filled with oily water and low viscosity petroleum hydrocarbon liquid that exhibited a diesel odor. The fluid in the UST was removed from the UST and the UST was removed from the site on May 20, 2014. A Site Location Map (Figure 1), a Site Plan Aerial Photograph showing the approximate location of the UST (Figure 2), and a Site Plan Detail (Figure 3) showing the location of the UST and sample collection locations are attached with this report. All sample collection was performed under the supervision of a professional geologist.

The site addresses have historically included 2100 Martin Luther King Jr. Way, 616-634 21st Street and 635 22nd Street, Oakland, California. Based on the new mailing address for the new housing project, the address used to reference the Cathedral Gardens site in this report documenting the UST removal is 638 21st Street in Oakland, California.

BACKGROUND

Review of a Limited Phase II Environmental Site Assessment report dated June 27, 2011 prepared by Basics Environmental, Inc. of Oakland, California identified the historical use of the property as a church consisting of a cathedral and separate school building beginning in 1880 with demolition of the church in 1993. From 1993 until the time of site development for public housing in mid-2012 a small portable building and the former school building were present at the site.

In mid-2012 development of the site began for a public housing project that included retaining the original school building as part of the project. In preparation for the development project, chlordane-impacted soil and lead-impacted soil were removed from the site. Documentation of the soil disposal is provided in P&D's December 20, 2012 Soil Disposal Documentation Report (document 0553.R3).

During excavation in September 2012 for an underground parking structure for the housing project an UST filled with oily water and low viscosity heating oil was discovered in the central portion of the property at a depth of approximately three feet below the pre-construction ground surface. No pipes were observed to be connected to the UST. Based on the results of soil samples collected following removal of the UST, the City of Oakland Fire Department Hazmat Division did not require further action related to the UST. The area where the UST was discovered was subsequently excavated for completion of the construction of the underground parking structure. Documentation of the UST removal and sample collection are provided in P&D's December 21, 2012 UST Removal Report (document 0553.R2).

On May 15, 2014 during excavation near the 21st Street sidewalk for property perimeter fence columns a second UST that was partially filled with petroleum hydrocarbon liquid was discovered at a depth of approximately 4.5 feet below the pre-construction ground surface elevation. The fluid in the UST was subsequently determined to be oily water with low viscosity heating oil-range fuel.

FIELD ACTIVITIES

Immediately following discovery of the UST on May 15, 2014 notification was provided to Inspector Leroy Griffin of the City of Oakland Fire Department HAZMAT Division. Prior to removal of the UST, an UST removal permit was obtained from the City of Oakland Fire Department HAZMAT Division.

UST Fluid Removal

On May 20, 2014 approximately 335 gallons of fluid consisting primarily of oily water was pumped from the UST into drums by DECON Environmental Services, Inc. (Decon) of Hayward, California in preparation for UST removal. The fluid was hauled from the site on May 21, 2014 as a non-RCRA hazardous waste liquid by Decon to the Clean Harbors facility located in San Jose, California using uniform hazardous waste manifest # 009234311 JJK. Decon is a State-certified hazardous waste hauler.

A copy of uniform hazardous waste manifest #009234311 JJK for removal of liquid from the UST prior to UST removal was mailed to the Department of Toxic Substances Control (DTSC) on May 30, 2014. A copy of the manifest is attached with this report in Appendix A.

UST Removal and Soil Sample Collection

On May 20, 2014 the soil surrounding the UST was excavated and the UST was removed from the UST pit by IMX, Inc. of Oakland, California (IMX). An LEL/oxygen meter was used to evaluate the UST atmosphere, and the meter readings showed 1% LEL and 20.9% oxygen. Prior to removal of the UST from the pit, the UST atmosphere was not inerted based on the LEL and oxygen values obtained from the meter. Inspector Leroy Griffin from the City of Oakland Fire Department HAZMAT Division was onsite and approved removal of the UST from the UST pit.

The top of the UST was at a depth of approximately 4.5 feet below the ground surface (bgs), and the bottom of the UST was at a depth of approximately 7.5 feet below the ground surface (bgs). The soil excavated from above the UST and from the sides of the UST consisted of dark brown

sandy silt and did not exhibit any evidence of discoloration or odor. The excavated soil was stockpiled on a sheet of visqueen and was covered at the end of the day.

Following removal of the UST from the pit, the UST was visually inspected. The UST was measured to be 3 feet in diameter and 10 feet in length with a calculated volume of approximately 500 gallons. The UST was constructed of single wall bare steel with welded seams. The exterior of the UST was observed to be rusted, with rust scaling and holes from corrosion observed at an elevation midway between the top and the bottom of the UST. Multiple corrosion holes were observed in the middle of the UST and several corrosion holes were observed in the bottom of the UST, with the largest hole measuring approximately four and a half inches in diameter and located on the side of the UST.

The soil underneath the UST consisted of blue-gray sandy silt and exhibited a strong petroleum odor. The material directly beneath the UST appeared to be a layer of fine sand measuring several inches in thickness that is assumed to have been associated with construction of the UST pit. Following removal of the UST from the UST pit, soil was excavated from the bottom of the UST pit from a depth of approximately 7.5 feet bgs to a depth of approximately 9.5 feet bgs and stockpiled separately from the soil removed from above and around the UST.

At the direction of Inspector Griffin one soil sample designated as T1-9.5 was collected from the western portion of the UST pit and a second soil sample designated as T2-9.5 was collected from the eastern portion of the UST pit. Both soil samples were collected from the excavator bucket from relatively undisturbed soil that was excavated from the bottom of the UST pit at a depth of approximately 9.5 feet bgs. Additional exploratory excavation was performed at the east end of the UST pit to a depth of approximately 11.5 feet bgs, and a soil sample designated as T2-11.5 was collected from relatively undisturbed soil in the excavator bucket from soil that was excavated from the bottom of the UST pit at a depth of approximately 11.5 feet bgs. This additional soil sample was collected to evaluate any evidence of vertical attenuation of petroleum hydrocarbon concentrations beneath the UST.

Each soil sample was collected into a 2-inch diameter, 6-inch long stainless steel tube. All three soil samples were blue-gray in color and exhibited a moderate petroleum odor. Each of the tubes was filled entirely to ensure that no head space was present in the tube. The ends of the tube were then sequentially covered with aluminum foil and plastic end caps, and the tube was then labeled and stored in a cooler with ice pending delivery to the laboratory. Chain of custody procedures were observed for all sample handling.

One discrete soil sample was collected into a stainless steel tube from each of the soil stockpiles using procedures described above. The soil sample collected from soil excavated from above and around the UST was designated as S1, and the soil sample collected from soil excavated from below the UST was designated as S2.

The sample collection locations are shown in Figure 3. Inspector Leroy Griffin was on site to observe excavation of the bottom of the UST pit and collection of the soil samples from the bottom of the UST pit. A copy of the Oakland Fire Department Underground Storage Tank Closure/Removal Field Inspection Report dated May 20, 2014 is attached with this report as Appendix B.

Photographs showing the UST following removal of the soil from around the UST prior to removal of the UST from the UST pit, the UST at the time of removal from the UST pit, and the UST following removal of the UST from the UST pit are attached with this report as Appendix C.

UST Transportation and Destruction

Following removal of the UST from the UST pit, the UST was loaded onto an Ecology Control Industries (ECI) truck and transported on May 20, 2014 with uniform hazardous waste manifest # 007944808 JJK to the ECI facility in Richmond, California. ECI is a State-certified hazardous waste hauler, and the ECI Richmond facility is a State-certified Transport, Storage and Disposal Facility. The UST was subsequently destroyed at the ECI facility. A copy of the uniform hazardous waste manifest for transportation of the and a copy of the certificate of UST destruction are attached with this report as Appendix D.

A copy of uniform hazardous waste manifest # 007944808 JJK dated May 20, 2014 for transportation of the UST was mailed to the DTSC on May 30, 2014.

Groundwater Sample Collection

On May 23, 2014 a 3.5-inch diameter steel hand auger was used to auger a borehole through the bottom of the borehole for collection of a groundwater grab sample. Based on a discussion with Mr. James Yoo of the Alameda County Public Works Agency, a soil boring permit was not required. Groundwater was encountered at a depth of approximately 15 feet bgs. The borehole extended to a depth of approximately 15.5 feet bgs. The subsurface materials encountered between the depths of 11.5 feet bgs and the total depth explored of 15.5 feet bgs consisted of sandy silt to a depth of approximately 12.5 feet bgs, which was underlain by fine sand to a depth of 15.5 feet bgs. All of the materials encountered in the borehole were discolored blue-gray and exhibited a moderate petroleum hydrocarbon odor.

A ¾-inch diameter slotted PVC pipe was placed into the borehole and a ¼-inch outside diameter polyethylene tube was inserted into the PVC pipe into the groundwater. A peristaltic pump was used to collect the groundwater sample. A moderate petroleum hydrocarbon odor and sheen were observed on the water that was pumped from the borehole. The water was pumped at a rate of approximately 200 milliliters per minute until the water was relatively clear. One groundwater sample designated as UST Pit Water 1 was collected directly from the discharge tubing into 40-milliliter glass Volatile Organic Analysis (VOA) vials which were provided by the laboratory and contained hydrochloric acid preservative. The VOA vials were sealed with caps containing Teflon-lined septa, and were overturned and tapped to ensure that no bubbles were present. The VOA vials were then labeled and placed in a cooler with ice pending delivery to the laboratory. Chain of custody procedures were observed for all sample handling.

Pit Backfilling

On May 23, 2014 following groundwater sample collection the UST pit was backfilled with material that had been excavated from other locations at the site. Compaction testing was performed by Fugro West, Inc. personnel.

Soil Disposal

On May 27, 2014, the soil stockpile that originated from beneath the UST was removed from the site by IMX. A total of 9.31 tons of soil was transported from the site as non-hazardous waste to the Vasco Road Landfill, Livermore, California. Copies of the non-hazardous waste manifest and the WeighMaster Certificate documenting the weight of the soil are attached to this report as Appendix E.

LABORATORY ANALYSIS

The soil samples collected from the bottom of the UST pit (samples T1-9.5, T2-9.5, and T2-11.5), the stockpile soil samples (samples S1 and S2), and the UST pit groundwater sample (UST Pit Water 1) were analyzed at McCampbell Analytical, Inc. (McCampbell) of Pittsburg, California. McCampbell Analytical, Inc. is a State-accredited hazardous waste testing laboratory.

The soil samples were analyzed for Total Petroleum Hydrocarbons as Gasoline (TPH-G) and Stoddard solvent (TPH-SS) using EPA Method 5030B in conjunction with EPA Method 8021B and modified EPA Method 8015B, for Total Petroleum Hydrocarbons as Kerosene (TPH-K), Diesel (TPH-D), Bunker Oil (TPH-BO) and Motor Oil (TPH-MO) using EPA Method 3550B in conjunction with EPA Method 8015B, and for Volatile Organic Compounds (VOCs) including Methyl-tert Butyl Ether (MTBE), benzene, toluene, ethylbenzene, and total xylenes (BTEX) and naphthalene using EPA Method 5030B in conjunction with EPA Method 8260B. The UST pit groundwater sample was analyzed for TPH-G and TPH-SS using EPA Method 5030B in conjunction with EPA Method 8021B and modified EPA Method 8015B, for TPH-K, TPH-D, TPH-BO, and TPH-MO using EPA Method 3510C in conjunction with EPA Method 8015B, and for VOCs, including MTBE, BTEX, and naphthalene, using the same methods as described above for soil samples.

The tank pit sample results are summarized in Table 1, the soil stockpile sample results are summarized in Table 2, and the UST pit groundwater sample results are summarized in Table 3. Copies of the laboratory reports and chain of custody documentation are attached with this report as Appendix F.

DISCUSSION AND RECOMMENDATIONS

Review of Table 1 shows that the laboratory analytical results of the tank pit bottom samples shows that MTBE, BTEX and naphthalene were not detected in any of the samples, and TPH-G was detected in samples T1-9.5, T2-9.5, and T2-11.5 at concentrations of 24, 21, and 20 milligrams per kilogram (mg/kg), respectively; TPH-SS was detected at concentrations of 51, 47, and 41 mg/kg, respectively; TPH-K was detected at concentrations of 570, 970, and 790 mg/kg, respectively; TPH-D was detected at concentrations of 790, 1,100, and 1,100 mg/kg, respectively; TPH-BO was detected at concentrations of 810, 1,100, and 1,100 mg/kg, respectively; and TPH-MO was detected at concentrations of 290, 470, and 380 mg/kg, respectively. Several petroleum hydrocarbon-related VOCs were detected (n-Butyl benzene, sec-Butyl benzene, 4-Isopropyl toluene, and n-Propyl benzene) at concentrations ranging from 0.0064 to 0.15 mg/kg. Review of the laboratory analytical report shows that the laboratory noted that there was significant strongly aged gasoline- or diesel-range compounds in the TPH-G

chromatogram, and described all of the TPH-K, TPH-D, TPH-BO, and TPH-MO results as consisting of unmodified or weakly modified diesel-range compounds.

Review of Table 2 shows that the laboratory analytical results of the stockpile soil samples show that MTBE, BTEX, and naphthalene were not detected in either of the stockpile soil samples, and TPH-G and TPH-SS were not detected in stockpile soil sample S1 that was collected from material that had been excavated from above and around the UST. TPH-K, TPH-D, TPH-BO and TPH-MO were detected in soil sample S1 at concentrations of 8.7, 13, 23, and 18 mg/kg, respectively. TPH-G, TPH-SS, TPH-K, TPH-D, TPH-BO, and TPH-MO were detected in stockpile soil sample S2 at concentrations of 24, 47, 1,300, 1,600, 1,600, and 540 mg/kg, respectively. Similar to the tank pit bottom samples, petroleum hydrocarbon-related VOCs were detected in stockpile soil sample S2 at concentrations ranging from 0.0063 to 0.091 mg/kg. Further review of the laboratory analytical report shows that the laboratory noted that there was significant strongly aged gasoline- or diesel-range compounds in the TPH-G chromatogram, and described all of the TPH-K, TPH-D, TPH-BO, and TPH-MO results as consisting of unmodified or weakly modified diesel-range compounds.

The laboratory analytical results for the groundwater sample collected from beneath the UST pit shows that MTBE and BTEX were not detected; TPH-G, TPH-SS, TPH-K, TPH-D, TPH-BO, and TPH-MO were detected at concentrations of 110, 130, 3,300, 4,600, 4,700, and 1,700 micrograms per Liter (ug/L), respectively. The only VOCs detected in the UST pit groundwater sample were naphthalene and sec-Butyl benzene at concentrations of 1.0 and 2.7 ug/L, respectively. Further review of the laboratory analytical report shows that the laboratory described the TPH-G and TPH-SS results as consisting of Stoddard solvent- or mineral spirits-range compounds, and the laboratory described the TPH-K, TPH-D, TPH-BO, and TPH-MO results as consisting of diesel-range compounds.

Comparison of the soil sample results in Table 1 with their respective San Francisco Bay Regional Water Quality Control Board (RWQCB) December 2013 Table A-1 shallow soil screening level Environmental Screening Levels (ESLs) for residential land use and Table C-1 deep soil screening level Environmental Screening Levels (ESLs) for residential land use shows that none of the detected concentrations exceed their respective ESL values, with the following exceptions:

- TPH-K, TPH-D, TPH-BO, and TPH-MO in soil sample T1-9.5 at concentrations of 570, 790, 810, and 290 mg/kg, respectively, exceed the respective Table A-1 ESL values of 100 mg/kg,
- TPH-K, TPH-D, TPH-BO, and TPH-MO in soil sample T2-9.5 at concentrations of 970, 1,100, 1,100, and 470 mg/kg, respectively, exceed the respective Table A-1 ESL values of 100 mg/kg,
- TPH-K, TPH-D, and TPH-BO in soil sample T2-11.5 at concentrations of 790, 1,100, and 1,100 mg/kg, respectively, exceed the respective Table C-1 ESL values of 110 mg/kg for TPH-K and TPH-D, and 500 mg/kg for TPH-BO.

Similarly, comparison of the groundwater sample results in Table 3 with their respective San Francisco Bay RWQCB December 2013 Table F-1a groundwater screening level ESLs where

groundwater is a current or potential drinking water resource, shows that none of the detected concentrations exceed their respective ESL values, with the following exceptions:

- TPH-G, TPH-SS, TPH-K, TPH-D, TPH-BO, and TPH-MO in groundwater sample UST Pit Water 1 at concentrations of 110, 130, 3,300, 4,600, 4,700, and 1,700 ug/L, respectively, exceed the respective Table F-1a values of 100 ug/L.

Comparison of the groundwater sample results in Table 3 with their respective San Francisco Bay RWQCB December 2013 Table E-1 groundwater screening levels for evaluation of potential vapor intrusion ESLs for a fine-coarse mixture for residential land use shows that none of the detected concentrations exceed their respective ESL values.

Based on the detected petroleum hydrocarbons in soil samples collected from beneath the former UST at concentrations exceeding their respective December 2013 Table A-1 and Table C-1 residential land use ESL values, P&D recommends further investigation of soil at the site to delineate the vertical and horizontal extent of petroleum hydrocarbons in soil.

Based on the detected petroleum hydrocarbons in the groundwater sample collected from beneath the UST pit at a depth of approximately 7.5 feet beneath the former UST, P&D recommends investigation of groundwater at the site to delineate the vertical and horizontal extent of petroleum hydrocarbons in groundwater.

An unauthorized release form was filed with M Mr. Leroy Griffin at the City of Oakland Fire Department HAZMAT Division under separate cover.

DISTRIBUTION

A copy of this report should be sent to Mr. Leroy Griffin at the City of Oakland Fire Department HAZMAT Division.

LIMITATIONS

This report was prepared solely for the use of EAH Housing. The content and conclusions provided by P&D in this assessment are based on information collected during our investigation, which may include, but not be limited to, visual site inspections; interviews with the site owner, regulatory agencies and other pertinent individuals; review of available public documents; subsurface exploration and our professional judgment based on said information at the time of preparation of this document. Any subsurface sample results and observations presented herein are considered to be representative of the area of investigation; however, geological conditions may vary between borings and may not necessarily apply to the general site as a whole. If future subsurface or other conditions are revealed which vary from these findings, the newly revealed conditions must be evaluated and may invalidate the findings of this report.

This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure that the information contained herein is brought to the attention of the appropriate regulatory agencies, where required by law. Additionally, it is the sole responsibility

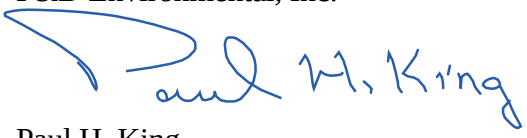
of the owner to properly dispose of any hazardous materials or hazardous wastes left onsite, in accordance with existing laws and regulations.

This report has been prepared in accordance with generally accepted practices using standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. P&D is not responsible for the accuracy or completeness of information provided by other individuals or entities which is used in this report. This report presents our professional judgment based upon data and findings identified in this report and interpretation of such data based upon our experience and background, and no warranty, either express or implied, is made. The conclusions presented are based upon the current regulatory climate and may require revision if future regulatory changes occur.

Should you have any questions, please do not hesitate to contact us at (510) 658-6916.

Sincerely,

P&D Environmental, Inc.



Paul H. King
Professional Geologist #5901
Expires: 12/31/15

Attachments:

Table 1 - Summary of UST Pit Soil Sample Laboratory Analytical Results
Table 2 - Summary of Soil Stockpile Sample Laboratory Analytical Results
Table 3 - Summary of Groundwater Sample Laboratory Analytical Results

Figure 1 - Site Location Map
Figure 2 - Site Plan Aerial Photograph Showing Approximate UST Location
Figure 3 - Site Plan Detail Showing Former UST and Sample Collection Locations

Appendix A - UST Fluid Disposal Uniform Hazardous Waste Manifest
Appendix B - City of Oakland Fire Department Underground Storage Tank Closure/Removal Field Inspection Report dated May 20, 2014
Appendix C - Photographs
Appendix D - UST Disposal Uniform Hazardous Waste Manifest and Certificate of Tank Destruction
Appendix E - Soil Disposal Non-Hazardous Waste Manifest and WeighMaster Certificate
Appendix F - Laboratory Analytical Reports and Chain of Custody Documentation

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TABLES

TABLE 1
SUMMARY OF UST PIT BOTTOM SOIL SAMPLE LABORATORY ANALYTICAL RESULTS

Sample ID	Sample Date	Sample Depth (Feet)	TPH-G	TPH-SS	TPH-K	TPH-D	TPH-BO	TPH-MO	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Other VOCs by EPA 8260B
T1-9.5	5/20/2014	9.5	24, a	51, a	**570, b**	**790, b**	**810, b**	**290, b**	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	All ND, except
														n-Butyl benzene = 0.012,
														sec-Butyl benzene = 0.11,
														4-Isopropyl toluene = 0.0064,
														n-Propyl benzene = 0.0066
T2-9.5	5/20/2014	9.5	21, a	47, a	**970, b**	**1,100, b**	**1,100, b**	**470, b**	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	All ND, except
														sec-Butyl benzene = 0.15
T2-11.5	5/20/2014	11.5	20, a	41, a	790, b	1,100, b	1,100, b	380, b	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	All ND, except
														sec-Butyl benzene = 0.15,
														4-Isopropyl toluene = 0.015
ESL[1]			100	100	100	100	100	100	0.023	0.044	2.9	3.3	2.3	n-Butyl benzene = No Value,
														sec-Butyl benzene = No Value,
														4-Isopropyl toluene = No Value,
														n-Propyl benzene = No Value
ESL[2]			500	500	110	110	500	500	0.023	0.044	2.9	3.3	2.3	n-Butyl benzene = No Value,
														sec-Butyl benzene = No Value,
														4-Isopropyl toluene = No Value,
														n-Propyl benzene = No Value

NOTES

TPH-G = Total Petroleum Hydrocarbons as Gasoline.
TPH-SS = Total Petroleum Hydrocarbons as Stoddard solvent.
TPH-K = Total Petroleum Hydrocarbons as Kerosene.
TPH-D = Total Petroleum Hydrocarbons as Diesel.
TPH-BO = Total Petroleum Hydrocarbons as Bunker Oil.
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil.
MTBE = Methyl-tert-Butyl Ether.
ND = Not Detected.
a = Laboratory Analytical Note: strongly aged gasoline or diesel range compounds are significant in the TPH-G chromatogram.
b = Laboratory Analytical Note: unmodified or weakly modified diesel is significant.
of drinking water. Residential land use.
ESL[1] = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board , updated December 2013, from Table A-1 – Shallow Soil Screening Levels,Groundwater is a current or potential sourc
of drinking water. Residential land use.
ESL[2] = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board , updated December 2013, from Table C-1 – Deep Soil Screening Levels,Groundwater is a current or potential source
of drinking water. Residential land use.
Values in bold exceed their respective ESL[1] values.
Underlined values exceed their respective ESL[2] values.
All results and ESLs reported in milligrams per kilogram (mg/kg) unless otherwise noted.

TABLE 2
SUMMARY OF SOIL STOCKPILE SAMPLE LABORATORY ANALYTICAL RESULTS

Sample ID	Sample Date	TPH-G	TPH-SS	TPH-K	TPH-D	TPH-BO	TPH-MO	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Other VOCs by EPA 8260B
S1	5/20/2014	ND<1.0	ND<1.0	8.7, b	13, b	23, b	18, b	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	All ND
S2	5/20/2014	24, a	47, a	1,300, b	1,600, b	1,600, b	540, b	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	All ND, except
													n-Butyl benzene = 0.010,
													sec-Butyl benzene = 0.091,
													4-Isopropyl toluene = 0.0063

NOTES

TPH-G = Total Petroleum Hydrocarbons as Gasoline.
TPH-SS = Total Petroleum Hydrocarbons as Stoddard solvent.
TPH-K = Total Petroleum Hydrocarbons as Kerosene.
TPH-D = Total Petroleum Hydrocarbons as Diesel.
TPH-BO = Total Petroleum Hydrocarbons as Bunker Oil.
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil.
MTBE = Methyl-tert-Butyl Ether.
ND = Not Detected.
a = Laboratory Analytical Note: strongly aged gasoline or diesel range compounds are significant in the TPH-G chromatogram.
b = Laboratory Analytical Note: unmodified or wekly modified diesel is significant.
All results reported in milligrams per kilogram (mg/kg) unless otherwise noted.

TABLE 3
SUMMARY OF GROUNDWATER SAMPLE LABORATORY ANALYTICAL RESULTS

Sample ID	Sample Date	TPH-G	TPH-SS	TPH-K	TPH-D	TPH-BO	TPH-MO	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Other VOCs by EPA 8260B
UST Pit Water 1	5/23/2014	**110, a**	**130, a**	**3,300, b**	**4,600, b**	**4,700, b**	**1,700, b**	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	All ND, except Naphthalene = 1.0, sec-Butyl benzene = 2.7
ESL[1]		100	100	100	100	100	100	0.023	0.044	2.9	3.3	2.3	Naphthalene = 6.1, sec-Butyl benzene = No Value
ESL[2]		None	None	None	None	None	None	9,900	27	95,000	310	37,000	Naphthalene = 160, sec-Butyl benzene = No Value,

NOTES

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

TPH-SS = Total Petroleum Hydrocarbons as Stoddard solvent.

TPH-K = Total Petroleum Hydrocarbons as Kerosene.

TPH-D = Total Petroleum Hydrocarbons as Diesel.

TPH-BO = Total Petroleum Hydrocarbons as Bunker Oil.

TPH-MO = Total Petroleum Hydrocarbons as Motor Oil.

MTBE = Methyl-tert-Butyl Ether.

ND = Not Detected.

a = Laboratory Analytical Note: TPH pattern that does not appear to be derived from gasoline (Stoddard solvent/ mineral spirits?).

b = Laboratory Analytical Note: unmodified or weakly modified diesel is significant.

ESL[1] = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated December 2013, from Table F-1a – Groundwater Screening Levels, groundwater is a current or potential drinking water resource.

ESL[2] = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated December 2013, from Table E-1 – Groundwater Screening Levels for Evaluation of Potential Vapor Intrusion (Fine-Coarse Mix). Residential Land Use.

Values in bold exceed their respective ESL[1] values.

All results and ESLs reported in milligrams per kilogram (mg/kg) unless otherwise noted.

FIGURES

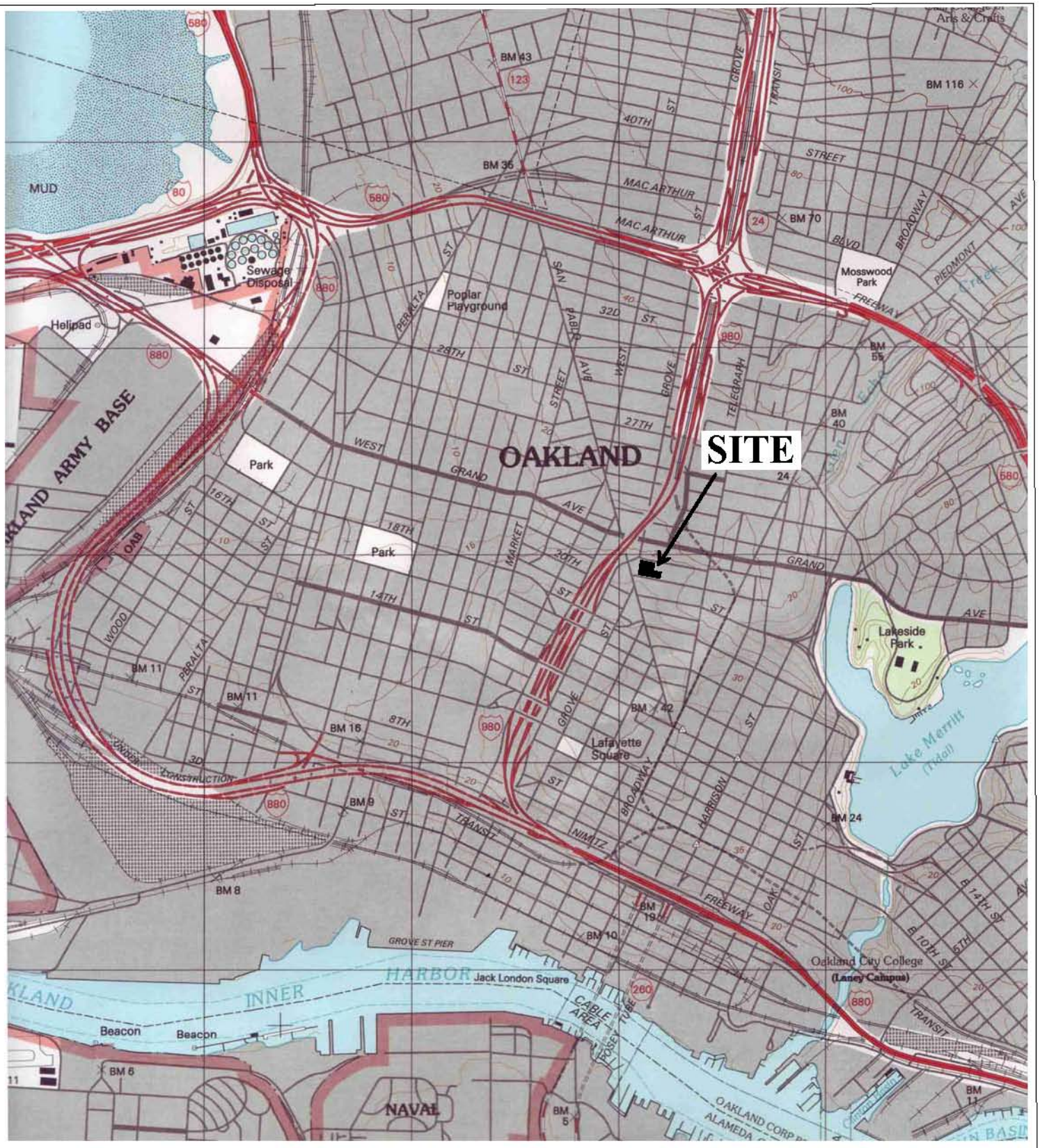


Figure 1
Site Location Map
Cathedral Gardens
638 21st Street
Oakland, California

Base Map From:
U.S. Geological Survey
Oakland West, California
7.5-Minute Quadrangle
Photorevised 1993

P&D Environmental, Inc.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610

0 1,000 2,000
Approximate Scale In Feet

N

Figure 2
Site Plan Aerial Photograph Showing Approximate UST Location
Cathedral Gardens
638 21st Street
Oakland, California

Base Map From:
Basics Environmental, Limited Phase II Environmental Site Sampling Report, dated June 27, 2011, and Google Earth, image dated September 2012

P&D Environmental, Inc.
55 Santa Clara Avenue
Oakland, CA 94610

0 25 50
Approximate Scale In Feet

N

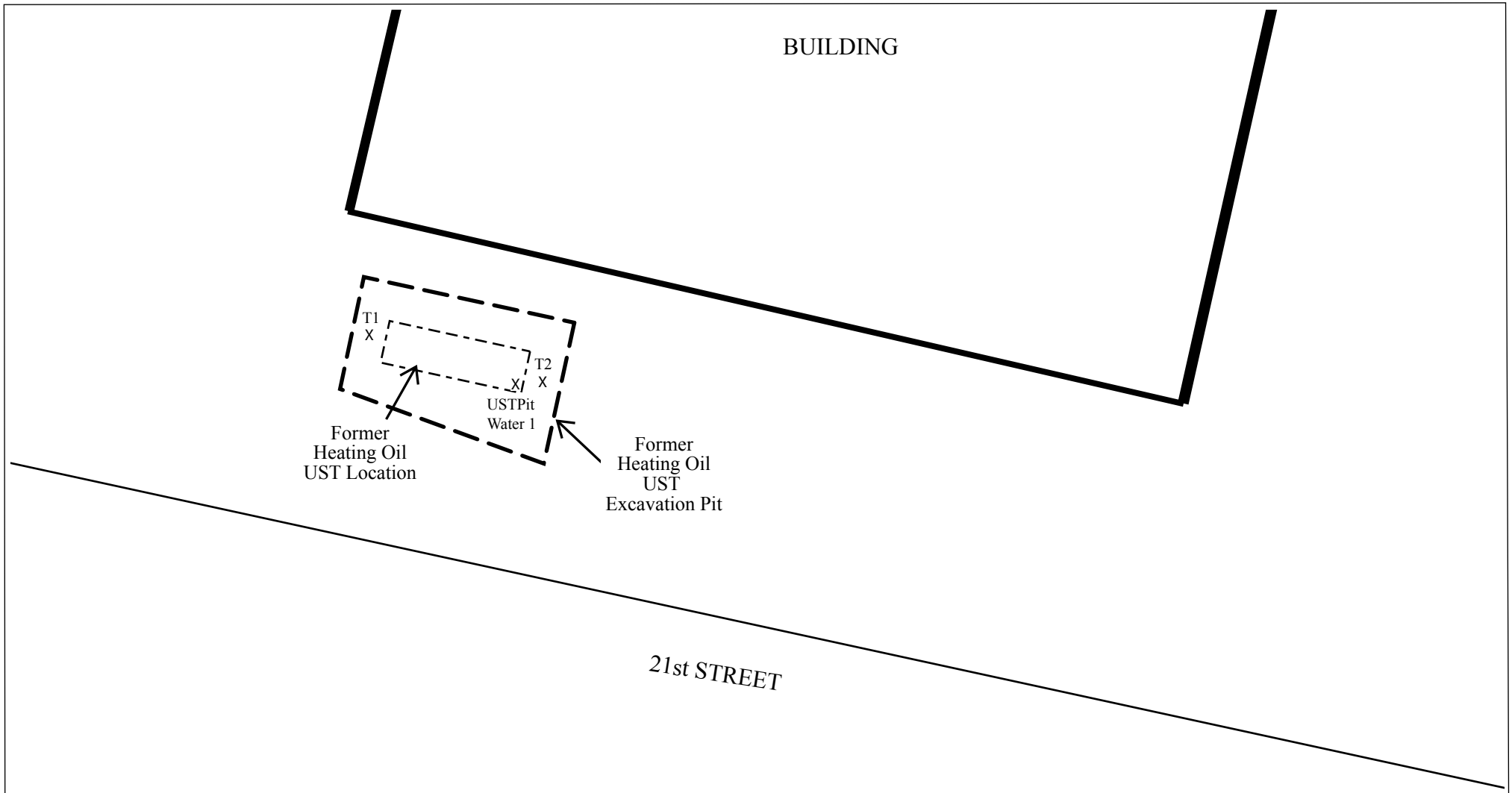


Figure 3
Site Plan Detail Showing Former UST and Sample Collection Locations
Cathedral Gardens
638 21st Street
Oakland, California

Base Map From:
Basics Environmental, Limited Phase II
Environmental Site Sampling Report,
dated June 27, 2011

P&D Environmental, Inc.
55 Santa Clara Avenue
Oakland, CA 94610

0 5 10
Approximate Scale In Feet

N

APPENDIX A
UST Fluid Disposal Uniform Hazardous Waste Manifest

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAC002771459
2. Page 1 of: 1
3. Emergency Response Phone: (800) 925-4994
4. Manifest Tracking Number: 009234311 JJK

GENERATOR

5. Generator's Name and Mailing Address:
CATHEDRAL GARDENS OAKLAND, L.P.
2169 FRANCISCO BLVD E, STE EAH
SAN RAFAEL, CA 94901
Generator's Phone:

Generator's Site Address (if different than mailing address):
CATHEDRAL GARDENS OAKLAND, L.P.
638 E. 21 ST.
OAKLAND, CA 94606
(415) 295-8857

6. Transporter 1 Company Name: MATHESON ENVIRONMENTAL SERVICES, INC. (510) 732-6444
U.S. EPA ID Number: CAR000226894

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
CLEAN HARBORS OF SAN JOSE LLC
1021 BERRYESSA ROAD
SAN JOSE, CA 95133
Facility's Phone: (408) 441-0962
U.S. EPA ID Number: CAD059494310

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN1268 WASTE PETROLEUM DISTILLATES, N.O.S. (DIESEL FUEL, GASOLINE), 3, PG II, ERG #:128	8	DM	335	G	213 D001 D002 D018
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1: PO#: CH812256 ERG#: 128
PO#: JIS#6448
WO#: WO777
Ref#:1105

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: BENNY KWONG
Signature:
Month: 5 Day: 20 Year: 14

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: MIKE COLLIER
Signature:
Month: 05 Day: 21 Year: 14
Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name:
Signature:
Month: Day: Year:

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

APPENDIX B

City Of Oakland Fire Department Underground Storage Tank Closure/Removal Field Inspection Report Dated May 20, 2014

OAKLAND FIRE DEPARTMENT/FIRE PREVENTION BUREAU
HAZARDOUS MATERIALS UNIT

250 FRANK H. OGAWA PLAZA, SUITE 3341, OAKLAND, CA 94612-2032 • (510) 238-3927

HAZARDOUS MATERIALS INSPECTION REPORT

Site Number	Facility Name	Facility Address	Zip Code
N/A	Cathedral Gardens	638 21 St Bldg 1	94612

Inspection Report

☑ **PERMISSION TO INSPECT GRANTED**

1. On site for removal of one UST, 500 gallon single wall steel tank.

2. Contractor of record IMX Inc
Consultant for environment P+D Environmental

3) Tank was removed from excavation with no issues.

Observation:

1) Tank had severals holes from corrosion, seams were intact

2) Excavation had discolored soil (Greenish)
Samples were taken at 9.5, bottom of the tank was 7.5'
TPH - BTEX 8260, kerosine, Stoddard solvent.

Facility Contact/Print Name:	Inspected By:		
Heena Dhawan		☑ AFM Griffin	238-7759
		☐ Insp. Matthews	238-2396
Facility Contact/Signature:	238-3927	☐ Insp. Skillern	238-7253
[signature]		☐ ________	238-3927
	Date: 5/20/14		

538-156 (10/10)

OAKLAND FIRE DEPARTMENT, OES
UNDERGROUND STORAGE TANK CLOSURE/REMOVAL FIELD INSPECTION REPORT

Site Address: 638 21ST	Name of Facility: Cathedral Gardens
Inspector: LEROY GRIFFIN	Contact on site: HENG DHAWAN
Date and Time of Arrival:	Contractor/Consultant: P+D ENVIRONMENTAL

General Requirements	Yes	No	N/A
Approved closure plan on site.	✓		
Changes to approved plan noted.			✓
Residuals properly stored/transported.	✓		
Receipt for adequate dry ice noted.			✓

General Requirements	Yes	No	N/A
Site Safety Plan properly signed.	✓		
40B:C fire extinguisher on site.	✓		
"No Smoking" signs posted.	✓		
Gas detector challenged by inspector.	✓		

Tank Observations	T #1	T #2	T #3	T #4
Tank Capacity (gallons)	500			
Material last stored	H.O			
Dry ice used (pounds)	0			
Combustible gas concentration as %LEL. *(Note time & sampling point)*				
(1) NEAR BACKHOE	0			
(2)				
(3)				
Oxygen concentration as % volume. *(Note time &sampling point.)*				
(1)	21			
(2)				
(3)				
Tank Material	STEEL			
Wrapping/Coating, if any	NO			
Obvious holes?	YES			

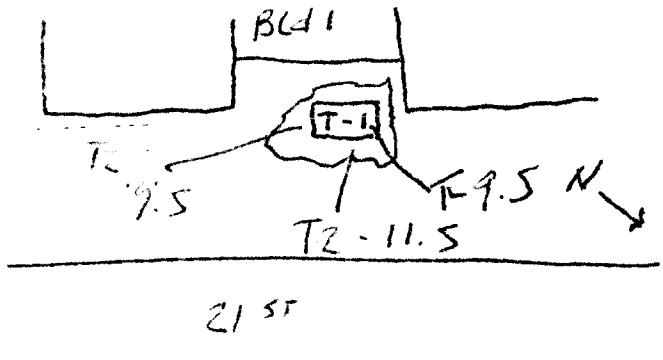
Tank Observations	T #1	T #2	T #3	T #4
Obvious corrosion?	YES			
Obvious odors from tank?	NO			
Seams intact?	YES			
Tank bed backfill material	SAND			
Obvious discoloration?	YES			
Obvious odors ex tank bed?	YES			
Water in excavation?	NO			
Sheen/product on water?	N/A			
Tank tagged by transporter?				
Tank wrapped for transport?				
Tank plugged w/ vent cap?	Y			
Date/time tank hauled off?				
No. of soil samples taken?				
Depth of soil samples (ft. bgs)				

Piping Removal	Yes	No	N/A
All piping removed hauled off w/ tanks?			N/A
Obvious holes on pipes?			
Obvious odors from pipes?			
Obvious soil discoloration in piping trench?			
Obvious odors from piping trench?			
Water in piping trench?			N/A
Number & depth of soil samples from piping trench?			2
Number & depth of water samples from piping trench?			

General Observations	Yes	No	N/A
Leak from any tank suspected?	X		
"Leak Report" form given to the operator?			
Obviously contaminated soil excavated?	X		
Soil stockpile sampled?	X		
Stockpile lined AND covered?	X		
Water in excavation sampled?			X
Number/depth of water samples taken?		N/A	
All samples properly preserved for transport?	X		

Additional Observations	Yes	No	N/A
Soil/water sampling protocols acceptable?	X		
Sampling "chain of custody" noted?	X		
Tank pit filled in or covered?			X
Tank pit fenced or barricaded?			
Transporter a registered HW hauler?	X		
Uniform HW Manifest completed?	X		
Contractor/Consultant reminded of complete UST Removal Report due within 30 days?	X		
Date/Time removal/closure operations completed?		9:30	
OT hours or additional charges due from contractor?			

SITE & SAMPLING DIAGRAM



Notes/Comments:

APPENDIX C
Photographs

UST prior to removal

UST at the time of removal

UST after removal

APPENDIX D

UST Disposal Uniform Hazardous Waste Manifest and Certificate of Tank Destruction

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAC002701506	1	800-424-9300	007944808 JJK

GENERATOR

5. Generator's Name and Mailing Address
CATHEDRAL GARDEN OAKLAND LP CARE OF EAH INC
2169 FRANCISCO BLVD E STE B
SAN RAFAEL, CA 94901
Generator's Phone: 415-295-8857

Generator's Site Address (if different than mailing address)
638 21STC
OAKLAND, CA 94612

6. Transporter 1 Company Name: ECOLOGY CONTROL INDUSTRIES — U.S. EPA ID Number: CAD982030173

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
ECOLOGY CONTROL INDUSTRIES
255 PARR BOULEVARD
RICHMOND, CA 94801
Facility's Phone: 510-235-1393
U.S. EPA ID Number: CAD009466392

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON-RCRA HAZARDOUS WASTE SOLID (EMPTY STORAGE TANK)	001	TP	500	P	512
	2.			0		
	3.			0		
	4.			0		

14. Special Handling Instructions and Additional Information
P&D JN: 0553
ECI JOB # 52T45062 TANK # 34554
WEAR PROPER PPE WHEN HANDLING // WEIGHTS AND VOLUMES ARE APPROXIMATE

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: BENNY KWONG — Signature — Month 5 Day 20 Year 14

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: BILL MAASKE — Signature — Month 5 Day 20 Year 14

Transporter 2 Printed/Typed Name — Signature — Month 5 Day 20 Year 14

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H129			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: SHON SPENCE — Signature — Month 5 Day 20 Year 14

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard · Richmond, California 94801
Phone # 510-235-1393

CUSTOMER: P & D ENVIRONMENTAL **JOB NO:** 52T4562

GENERATOR: CATHEDRAL GARDENS OAKLAND, L.P.
638 21 STREET OAKLAND CA 94606

FOR: ECOLOGY CONTROL INDUSTRIES **TANK NO.:** 34554

LOCATION: RICHMOND **DATE:** 05/23/2014

LAST PRODUCT: FUEL OIL **TEST METHOD:** VISUAL GASTECH/1314 SMPN

This is to certify that I have personally determined that this is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE: 500 GALLONS CONDITION: SAFE FOR FIRE

REMARKS:

OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1% ECOLOGY CONTROL INDUSTRIES HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED AND THEREFORE, DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY. ECOLOGY CONTROL INDUSTRIES HAS THE APPROPRIATE PERMITS FOR AND HAS ACCEPTED THE TANK SHIPPED TO US FOR PROCESSING.

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or it in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

STANDARD SAFETY DESIGNATION

SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissible concentrations; and (c) In the judgment of the Inspector's certificate.

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) in the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

Bill Mauser

REPRESENTATIVE TITLE INSPECTOR

APPENDIX E

Soil Disposal Non-Hazardous Waste Manifest and WeighMaster Certificate

1802107

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of
N/A		

d. Generator's Name and Location:
Cathedral Gardens Oakland, L.P. c/o EAH Inc.
638 21 St.
Phone: Oakland, CA 94612 415-295-8857

e. Generator's Mailing Address:
Cathedral Gardens Oakland, L.P. c/o EAH inc.
2169 E. Francisco Blvd., Suite EAH
g. Phone: San Rafael, CA 94901 415-295-8857

owner of the generating facility differs from the generator, provide:

Owner's Name:

i. Owner's Phone No.:

Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
3850148533	5/21/2015	Soil				CY

ENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable ate law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if thi aste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has een treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

Benny Kwong		5-27-14
p. Generator Authorized Agent Name (Print)	q. Signature	r. Date

I. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

. Transporter's Name and Address:
TMX INC
4200 Park #253 Oakland

. Phone:

Ray MacIntyre		5-28-14
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
Vasco Rd. Landfill 4001 N. Vasco Rd. b. Livermore, CA 94551 925-447-0491		

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

M. Pedroza		5-28-14
e. Name of Authorized Agent (Print)	f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
b. Phone:	d. Phone:

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

BENNY KWONG, SR. PROJ. MGR		5/27/14
g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

DESTINATION RETURN

RS-F11A

REV 01/14

ndfill
Vasco Road
CA 925-447-0491

CONTRACT - Exempt Acct
7001 N. VASCO ROAD
LIVERMORE, CA 94551
3850148533

SITE	TICKET #	CELL
01	961920	

WEIGHMASTER: M.Pedroza

DATE/TIME IN	DATE/TIME OUT
05-28-2014 12:29 pm	05-28-2014 12:5

VEHICLE	CONTAINER
10	

REFERENCE: CC/7K75946 CASH

BILL OF LADING:

GROSS WEIGHT	46,000	NET TONS	9.31
TARE WEIGHT	27,380	NET WEIGHT	18,620

INBOUND

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	TRACKING QTY				
9.31	TN	SW-CONT SOIL-ALT DAILY COVE OAKLAND	$30.00	$279.30	$0.00	$279.3

WEIGHMASTER CERTIFICATE - This is to certify that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accurace, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food & Agriculture.

Payment(s)
CREDIT CARD-SCALE $279.30

NET AMOUNT
$279.30
TENDERED
$279.30
CHANGE
$0.00
CHECK#

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

RS-F042UPR (07/12)

SIGNATURE _____

APPENDIX F

Laboratory Analytical Reports and Chain of Custody Documentation

- **McCampbell Workorder # 1405780: T1 & T2 Results**
- **McCampbell Workorder # 1405779: S1 & S2 Results**
- **McCampbell Workorder # 1405960: UST Pit Water 1 Results**

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1405780

Report Created for: P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610

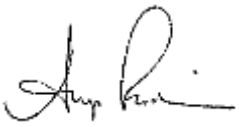
Project Contact: Heena Dhawan
Project P.O.:
Project Name: #0553; Cathedral Gardens

Project Received: 05/20/2014

Analytical Report reviewed & approved for release on 05/21/2014 by:

Question about your data?

Click here to email McCampbell



Angela Rydelius,
Laboratory Manager

1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com
NELAP: 4033ORELAP ♦ ELAP: 1644 ♦ ISO/IEC: 17025:2005 ♦ WSDE: C972-11 ♦ ADEC: UST-098 ♦ UCMR3

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: #0553; Cathedral Gardens
WorkOrder: 1405780

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
TEQ	Toxicity Equivalence

Analytical Qualifier

d7	strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
e1	unmodified or weakly modified diesel is significant

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1405780
Project:	#0553; Cathedral Gardens	**Extraction Method:**	SW5030B
Date Received:	5/20/14 17:07	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
T1-9.5	**1405780-001A**	**Soil**	**05/20/2014**	**GC10**	**90628**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	05/21/2014 02:00
tert-Amyl methyl ether (TAME)	ND	0.0050	1	05/21/2014 02:00
Benzene	ND	0.0050	1	05/21/2014 02:00
Bromobenzene	ND	0.0050	1	05/21/2014 02:00
Bromochloromethane	ND	0.0050	1	05/21/2014 02:00
Bromodichloromethane	ND	0.0050	1	05/21/2014 02:00
Bromoform	ND	0.0050	1	05/21/2014 02:00
Bromomethane	ND	0.0050	1	05/21/2014 02:00
2-Butanone (MEK)	ND	0.020	1	05/21/2014 02:00
t-Butyl alcohol (TBA)	ND	0.050	1	05/21/2014 02:00
n-Butyl benzene	**0.012**	0.0050	1	05/21/2014 02:00
sec-Butyl benzene	**0.11**	0.0050	1	05/21/2014 02:00
tert-Butyl benzene	ND	0.0050	1	05/21/2014 02:00
Carbon Disulfide	ND	0.0050	1	05/21/2014 02:00
Carbon Tetrachloride	ND	0.0050	1	05/21/2014 02:00
Chlorobenzene	ND	0.0050	1	05/21/2014 02:00
Chloroethane	ND	0.0050	1	05/21/2014 02:00
Chloroform	ND	0.0050	1	05/21/2014 02:00
Chloromethane	ND	0.0050	1	05/21/2014 02:00
2-Chlorotoluene	ND	0.0050	1	05/21/2014 02:00
4-Chlorotoluene	ND	0.0050	1	05/21/2014 02:00
Dibromochloromethane	ND	0.0050	1	05/21/2014 02:00
1,2-Dibromo-3-chloropropane	ND	0.0040	1	05/21/2014 02:00
1,2-Dibromoethane (EDB)	ND	0.0040	1	05/21/2014 02:00
Dibromomethane	ND	0.0050	1	05/21/2014 02:00
1,2-Dichlorobenzene	ND	0.0050	1	05/21/2014 02:00
1,3-Dichlorobenzene	ND	0.0050	1	05/21/2014 02:00
1,4-Dichlorobenzene	ND	0.0050	1	05/21/2014 02:00
Dichlorodifluoromethane	ND	0.0050	1	05/21/2014 02:00
1,1-Dichloroethane	ND	0.0050	1	05/21/2014 02:00
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	05/21/2014 02:00
1,1-Dichloroethene	ND	0.0050	1	05/21/2014 02:00
cis-1,2-Dichloroethene	ND	0.0050	1	05/21/2014 02:00
trans-1,2-Dichloroethene	ND	0.0050	1	05/21/2014 02:00
1,2-Dichloropropane	ND	0.0050	1	05/21/2014 02:00
1,3-Dichloropropane	ND	0.0050	1	05/21/2014 02:00
2,2-Dichloropropane	ND	0.0050	1	05/21/2014 02:00
1,1-Dichloropropene	ND	0.0050	1	05/21/2014 02:00

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1405780
Project:	#0553; Cathedral Gardens	**Extraction Method:**	SW5030B
Date Received:	5/20/14 17:07	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
T1-9.5	**1405780-001A**	**Soil**	**05/20/2014**	**GC10**	**90628**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	05/21/2014 02:00
trans-1,3-Dichloropropene	ND	0.0050	1	05/21/2014 02:00
Diisopropyl ether (DIPE)	ND	0.0050	1	05/21/2014 02:00
Ethylbenzene	ND	0.0050	1	05/21/2014 02:00
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	05/21/2014 02:00
Freon 113	ND	0.10	1	05/21/2014 02:00
Hexachlorobutadiene	ND	0.0050	1	05/21/2014 02:00
Hexachloroethane	ND	0.0050	1	05/21/2014 02:00
2-Hexanone	ND	0.0050	1	05/21/2014 02:00
Isopropylbenzene	ND	0.0050	1	05/21/2014 02:00
4-Isopropyl toluene	**0.0064**	0.0050	1	05/21/2014 02:00
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	05/21/2014 02:00
Methylene chloride	ND	0.0050	1	05/21/2014 02:00
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	05/21/2014 02:00
Naphthalene	ND	0.0050	1	05/21/2014 02:00
n-Propyl benzene	**0.0066**	0.0050	1	05/21/2014 02:00
Styrene	ND	0.0050	1	05/21/2014 02:00
1,1,1,2-Tetrachloroethane	ND	0.0050	1	05/21/2014 02:00
1,1,2,2-Tetrachloroethane	ND	0.0050	1	05/21/2014 02:00
Tetrachloroethene	ND	0.0050	1	05/21/2014 02:00
Toluene	ND	0.0050	1	05/21/2014 02:00
1,2,3-Trichlorobenzene	ND	0.0050	1	05/21/2014 02:00
1,2,4-Trichlorobenzene	ND	0.0050	1	05/21/2014 02:00
1,1,1-Trichloroethane	ND	0.0050	1	05/21/2014 02:00
1,1,2-Trichloroethane	ND	0.0050	1	05/21/2014 02:00
Trichloroethene	ND	0.0050	1	05/21/2014 02:00
Trichlorofluoromethane	ND	0.0050	1	05/21/2014 02:00
1,2,3-Trichloropropane	ND	0.0050	1	05/21/2014 02:00
1,2,4-Trimethylbenzene	ND	0.0050	1	05/21/2014 02:00
1,3,5-Trimethylbenzene	ND	0.0050	1	05/21/2014 02:00
Vinyl Chloride	ND	0.0050	1	05/21/2014 02:00
Xylenes, Total	ND	0.0050	1	05/21/2014 02:00

Surrogates	REC (%)	Limits	
Dibromofluoromethane	103	70-130	05/21/2014 02:00
Toluene-d8	112	70-130	05/21/2014 02:00
4-BFB	102	70-130	05/21/2014 02:00

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1405780
Project:	#0553; Cathedral Gardens	**Extraction Method:**	SW5030B
Date Received:	5/20/14 17:07	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
T2-9.5	**1405780-002A**	**Soil**	**05/20/2014**	**GC16**	**90628**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.20	2	05/21/2014 10:06
tert-Amyl methyl ether (TAME)	ND	0.010	2	05/21/2014 10:06
Benzene	ND	0.010	2	05/21/2014 10:06
Bromobenzene	ND	0.010	2	05/21/2014 10:06
Bromochloromethane	ND	0.010	2	05/21/2014 10:06
Bromodichloromethane	ND	0.010	2	05/21/2014 10:06
Bromoform	ND	0.010	2	05/21/2014 10:06
Bromomethane	ND	0.010	2	05/21/2014 10:06
2-Butanone (MEK)	ND	0.040	2	05/21/2014 10:06
t-Butyl alcohol (TBA)	ND	0.10	2	05/21/2014 10:06
n-Butyl benzene	ND	0.010	2	05/21/2014 10:06
sec-Butyl benzene	**0.15**	0.010	2	05/21/2014 10:06
tert-Butyl benzene	ND	0.010	2	05/21/2014 10:06
Carbon Disulfide	ND	0.010	2	05/21/2014 10:06
Carbon Tetrachloride	ND	0.010	2	05/21/2014 10:06
Chlorobenzene	ND	0.010	2	05/21/2014 10:06
Chloroethane	ND	0.010	2	05/21/2014 10:06
Chloroform	ND	0.010	2	05/21/2014 10:06
Chloromethane	ND	0.010	2	05/21/2014 10:06
2-Chlorotoluene	ND	0.010	2	05/21/2014 10:06
4-Chlorotoluene	ND	0.010	2	05/21/2014 10:06
Dibromochloromethane	ND	0.010	2	05/21/2014 10:06
1,2-Dibromo-3-chloropropane	ND	0.0080	2	05/21/2014 10:06
1,2-Dibromoethane (EDB)	ND	0.0080	2	05/21/2014 10:06
Dibromomethane	ND	0.010	2	05/21/2014 10:06
1,2-Dichlorobenzene	ND	0.010	2	05/21/2014 10:06
1,3-Dichlorobenzene	ND	0.010	2	05/21/2014 10:06
1,4-Dichlorobenzene	ND	0.010	2	05/21/2014 10:06
Dichlorodifluoromethane	ND	0.010	2	05/21/2014 10:06
1,1-Dichloroethane	ND	0.010	2	05/21/2014 10:06
1,2-Dichloroethane (1,2-DCA)	ND	0.0080	2	05/21/2014 10:06
1,1-Dichloroethene	ND	0.010	2	05/21/2014 10:06
cis-1,2-Dichloroethene	ND	0.010	2	05/21/2014 10:06
trans-1,2-Dichloroethene	ND	0.010	2	05/21/2014 10:06
1,2-Dichloropropane	ND	0.010	2	05/21/2014 10:06
1,3-Dichloropropane	ND	0.010	2	05/21/2014 10:06
2,2-Dichloropropane	ND	0.010	2	05/21/2014 10:06
1,1-Dichloropropene	ND	0.010	2	05/21/2014 10:06

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1405780
Project:	#0553; Cathedral Gardens	**Extraction Method:**	SW5030B
Date Received:	5/20/14 17:07	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
T2-9.5	**1405780-002A**	**Soil**	**05/20/2014**	**GC16**	**90628**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.010	2	05/21/2014 10:06
trans-1,3-Dichloropropene	ND	0.010	2	05/21/2014 10:06
Diisopropyl ether (DIPE)	ND	0.010	2	05/21/2014 10:06
Ethylbenzene	ND	0.010	2	05/21/2014 10:06
Ethyl tert-butyl ether (ETBE)	ND	0.010	2	05/21/2014 10:06
Freon 113	ND	0.20	2	05/21/2014 10:06
Hexachlorobutadiene	ND	0.010	2	05/21/2014 10:06
Hexachloroethane	ND	0.010	2	05/21/2014 10:06
2-Hexanone	ND	0.010	2	05/21/2014 10:06
Isopropylbenzene	ND	0.010	2	05/21/2014 10:06
4-Isopropyl toluene	ND	0.010	2	05/21/2014 10:06
Methyl-t-butyl ether (MTBE)	ND	0.010	2	05/21/2014 10:06
Methylene chloride	ND	0.010	2	05/21/2014 10:06
4-Methyl-2-pentanone (MIBK)	ND	0.010	2	05/21/2014 10:06
Naphthalene	ND	0.010	2	05/21/2014 10:06
n-Propyl benzene	ND	0.010	2	05/21/2014 10:06
Styrene	ND	0.010	2	05/21/2014 10:06
1,1,1,2-Tetrachloroethane	ND	0.010	2	05/21/2014 10:06
1,1,2,2-Tetrachloroethane	ND	0.010	2	05/21/2014 10:06
Tetrachloroethene	ND	0.010	2	05/21/2014 10:06
Toluene	ND	0.010	2	05/21/2014 10:06
1,2,3-Trichlorobenzene	ND	0.010	2	05/21/2014 10:06
1,2,4-Trichlorobenzene	ND	0.010	2	05/21/2014 10:06
1,1,1-Trichloroethane	ND	0.010	2	05/21/2014 10:06
1,1,2-Trichloroethane	ND	0.010	2	05/21/2014 10:06
Trichloroethene	ND	0.010	2	05/21/2014 10:06
Trichlorofluoromethane	ND	0.010	2	05/21/2014 10:06
1,2,3-Trichloropropane	ND	0.010	2	05/21/2014 10:06
1,2,4-Trimethylbenzene	ND	0.010	2	05/21/2014 10:06
1,3,5-Trimethylbenzene	ND	0.010	2	05/21/2014 10:06
Vinyl Chloride	ND	0.010	2	05/21/2014 10:06
Xylenes, Total	ND	0.010	2	05/21/2014 10:06

Surrogates	REC (%)	Limits	
Dibromofluoromethane	104	70-130	05/21/2014 10:06
Toluene-d8	106	70-130	05/21/2014 10:06
4-BFB	109	70-130	05/21/2014 10:06

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1405780
Project:	#0553; Cathedral Gardens	**Extraction Method:**	SW5030B
Date Received:	5/20/14 17:07	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
T2-11.5	**1405780-003A**	**Soil**	**05/20/2014**	**GC16**	**90642**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.20	2	05/21/2014 10:49
tert-Amyl methyl ether (TAME)	ND	0.010	2	05/21/2014 10:49
Benzene	ND	0.010	2	05/21/2014 10:49
Bromobenzene	ND	0.010	2	05/21/2014 10:49
Bromochloromethane	ND	0.010	2	05/21/2014 10:49
Bromodichloromethane	ND	0.010	2	05/21/2014 10:49
Bromoform	ND	0.010	2	05/21/2014 10:49
Bromomethane	ND	0.010	2	05/21/2014 10:49
2-Butanone (MEK)	ND	0.040	2	05/21/2014 10:49
t-Butyl alcohol (TBA)	ND	0.10	2	05/21/2014 10:49
n-Butyl benzene	ND	0.010	2	05/21/2014 10:49
sec-Butyl benzene	**0.15**	0.010	2	05/21/2014 10:49
tert-Butyl benzene	ND	0.010	2	05/21/2014 10:49
Carbon Disulfide	ND	0.010	2	05/21/2014 10:49
Carbon Tetrachloride	ND	0.010	2	05/21/2014 10:49
Chlorobenzene	ND	0.010	2	05/21/2014 10:49
Chloroethane	ND	0.010	2	05/21/2014 10:49
Chloroform	ND	0.010	2	05/21/2014 10:49
Chloromethane	ND	0.010	2	05/21/2014 10:49
2-Chlorotoluene	ND	0.010	2	05/21/2014 10:49
4-Chlorotoluene	ND	0.010	2	05/21/2014 10:49
Dibromochloromethane	ND	0.010	2	05/21/2014 10:49
1,2-Dibromo-3-chloropropane	ND	0.0080	2	05/21/2014 10:49
1,2-Dibromoethane (EDB)	ND	0.0080	2	05/21/2014 10:49
Dibromomethane	ND	0.010	2	05/21/2014 10:49
1,2-Dichlorobenzene	ND	0.010	2	05/21/2014 10:49
1,3-Dichlorobenzene	ND	0.010	2	05/21/2014 10:49
1,4-Dichlorobenzene	ND	0.010	2	05/21/2014 10:49
Dichlorodifluoromethane	ND	0.010	2	05/21/2014 10:49
1,1-Dichloroethane	ND	0.010	2	05/21/2014 10:49
1,2-Dichloroethane (1,2-DCA)	ND	0.0080	2	05/21/2014 10:49
1,1-Dichloroethene	ND	0.010	2	05/21/2014 10:49
cis-1,2-Dichloroethene	ND	0.010	2	05/21/2014 10:49
trans-1,2-Dichloroethene	ND	0.010	2	05/21/2014 10:49
1,2-Dichloropropane	ND	0.010	2	05/21/2014 10:49
1,3-Dichloropropane	ND	0.010	2	05/21/2014 10:49
2,2-Dichloropropane	ND	0.010	2	05/21/2014 10:49
1,1-Dichloropropene	ND	0.010	2	05/21/2014 10:49

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1405780
Project:	#0553; Cathedral Gardens	**Extraction Method:**	SW5030B
Date Received:	5/20/14 17:07	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
T2-11.5	**1405780-003A**	**Soil**	**05/20/2014**	**GC16**	**90642**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.010	2	05/21/2014 10:49
trans-1,3-Dichloropropene	ND	0.010	2	05/21/2014 10:49
Diisopropyl ether (DIPE)	ND	0.010	2	05/21/2014 10:49
Ethylbenzene	ND	0.010	2	05/21/2014 10:49
Ethyl tert-butyl ether (ETBE)	ND	0.010	2	05/21/2014 10:49
Freon 113	ND	0.20	2	05/21/2014 10:49
Hexachlorobutadiene	ND	0.010	2	05/21/2014 10:49
Hexachloroethane	ND	0.010	2	05/21/2014 10:49
2-Hexanone	ND	0.010	2	05/21/2014 10:49
Isopropylbenzene	ND	0.010	2	05/21/2014 10:49
4-Isopropyl toluene	**0.015**	0.010	2	05/21/2014 10:49
Methyl-t-butyl ether (MTBE)	ND	0.010	2	05/21/2014 10:49
Methylene chloride	ND	0.010	2	05/21/2014 10:49
4-Methyl-2-pentanone (MIBK)	ND	0.010	2	05/21/2014 10:49
Naphthalene	ND	0.010	2	05/21/2014 10:49
n-Propyl benzene	ND	0.010	2	05/21/2014 10:49
Styrene	ND	0.010	2	05/21/2014 10:49
1,1,1,2-Tetrachloroethane	ND	0.010	2	05/21/2014 10:49
1,1,2,2-Tetrachloroethane	ND	0.010	2	05/21/2014 10:49
Tetrachloroethene	ND	0.010	2	05/21/2014 10:49
Toluene	ND	0.010	2	05/21/2014 10:49
1,2,3-Trichlorobenzene	ND	0.010	2	05/21/2014 10:49
1,2,4-Trichlorobenzene	ND	0.010	2	05/21/2014 10:49
1,1,1-Trichloroethane	ND	0.010	2	05/21/2014 10:49
1,1,2-Trichloroethane	ND	0.010	2	05/21/2014 10:49
Trichloroethene	ND	0.010	2	05/21/2014 10:49
Trichlorofluoromethane	ND	0.010	2	05/21/2014 10:49
1,2,3-Trichloropropane	ND	0.010	2	05/21/2014 10:49
1,2,4-Trimethylbenzene	ND	0.010	2	05/21/2014 10:49
1,3,5-Trimethylbenzene	ND	0.010	2	05/21/2014 10:49
Vinyl Chloride	ND	0.010	2	05/21/2014 10:49
Xylenes, Total	ND	0.010	2	05/21/2014 10:49

Surrogates	REC (%)	Limits	
Dibromofluoromethane	104	70-130	05/21/2014 10:49
Toluene-d8	107	70-130	05/21/2014 10:49
4-BFB	114	70-130	05/21/2014 10:49

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1405780
Project:	#0553; Cathedral Gardens	**Extraction Method:**	SW5030B
Date Received:	5/20/14 17:07	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	5/20/14	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Stoddard Solvent Range (C9-C12) Volatile Hydrocarbons with BTEX & MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
T1-9.5	**1405780-001A**	**Soil**	**05/20/2014**	**GC7**	**90640**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**24**	10	10	05/21/2014 04:08
TPH(ss)	**51**	10	10	05/21/2014 04:08
MTBE	**---**	0.50	10	05/21/2014 04:08
Benzene	**---**	0.050	10	05/21/2014 04:08
Toluene	**---**	0.050	10	05/21/2014 04:08
Ethylbenzene	**---**	0.050	10	05/21/2014 04:08
Xylenes	**---**	0.050	10	05/21/2014 04:08

Surrogates	REC (%)	Limits	Analytical Comments: d7	
2-Fluorotoluene	83	70-130		05/21/2014 04:08

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
T2-9.5	**1405780-002A**	**Soil**	**05/20/2014**	**GC7**	**90640**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**21**	10	10	05/21/2014 04:37
TPH(ss)	**47**	10	10	05/21/2014 04:37
MTBE	**---**	0.50	10	05/21/2014 04:37
Benzene	**---**	0.050	10	05/21/2014 04:37
Toluene	**---**	0.050	10	05/21/2014 04:37
Ethylbenzene	**---**	0.050	10	05/21/2014 04:37
Xylenes	**---**	0.050	10	05/21/2014 04:37

Surrogates	REC (%)	Limits	Analytical Comments: d7	
2-Fluorotoluene	86	70-130		05/21/2014 04:37

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
T2-11.5	**1405780-003A**	**Soil**	**05/20/2014**	**GC7**	**90640**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**20**	10	10	05/21/2014 05:37
TPH(ss)	**41**	10	10	05/21/2014 05:37
MTBE	**---**	0.50	10	05/21/2014 05:37
Benzene	**---**	0.050	10	05/21/2014 05:37
Toluene	**---**	0.050	10	05/21/2014 05:37
Ethylbenzene	**---**	0.050	10	05/21/2014 05:37
Xylenes	**---**	0.050	10	05/21/2014 05:37

Surrogates	REC (%)	Limits	Analytical Comments: d7	
2-Fluorotoluene	99	70-130		05/21/2014 05:37

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1405780
Project:	#0553; Cathedral Gardens	**Extraction Method:**	SW3550B
Date Received:	5/20/14 17:07	**Analytical Method:**	SW8015B
Date Prepared:	5/20/14	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
T1-9.5	**1405780-001A**	**Soil**	**05/20/2014**	**GC6B**	**90638**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**790**	1.0	1	05/20/2014 22:51
TPH-Motor Oil (C18-C36)	**290**	5.0	1	05/20/2014 22:51
TPH-Bunker Oil (C10-C36)	**810**	5.0	1	05/20/2014 22:51
TPH-Kerosene (C9-C18)	**570**	1.0	1	05/20/2014 22:51

Surrogates	REC (%)	Limits	Analytical Comments: e1	
C9	115	70-130		05/20/2014 22:51

T2-9.5	1405780-002A	Soil	05/20/2014	GC11B	90638

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**1100**	2.0	2	05/21/2014 12:54
TPH-Motor Oil (C18-C36)	**470**	10	2	05/21/2014 12:54
TPH-Bunker Oil (C10-C36)	**1100**	10	2	05/21/2014 12:54
TPH-Kerosene (C9-C18)	**970**	2.0	2	05/21/2014 12:54

Surrogates	REC (%)	Limits	Analytical Comments: e1	
C9	126	70-130		05/21/2014 12:54

T2-11.5	1405780-003A	Soil	05/20/2014	GC6B	90638

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**1100**	2.0	2	05/21/2014 14:03
TPH-Motor Oil (C18-C36)	**380**	10	2	05/21/2014 14:03
TPH-Bunker Oil (C10-C36)	**1100**	10	2	05/21/2014 14:03
TPH-Kerosene (C9-C18)	**790**	2.0	2	05/21/2014 14:03

Surrogates	REC (%)	Limits	Analytical Comments: e1	
C9	118	70-130		05/21/2014 14:03

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1405780
Date Prepared:	5/20/14	**BatchID:**	90628
Date Analyzed:	5/20/14	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#0553; Cathedral Gardens	**Sample ID:**	MB/LCS-90628 1405773-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0403	0.0050	0.050	-	80.6	70-130
Benzene	ND	0.0449	0.0050	0.050	-	89.8	70-130
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.175	0.050	0.20	-	87.6	70-130
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0450	0.0050	0.050	-	90.1	70-130
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0454	0.0040	0.050	-	90.8	70-130
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0550	0.0040	0.050	-	110	70-130
1,1-Dichloroethene	ND	0.0467	0.0050	0.050	-	93.4	70-130
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1405780
Date Prepared:	5/20/14	**BatchID:**	90628
Date Analyzed:	5/20/14	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#0553; Cathedral Gardens	**Sample ID:**	MB/LCS-90628 1405773-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Diisopropyl ether (DIPE)	ND	0.0409	0.0050	0.050	-	81.8	70-130
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0427	0.0050	0.050	-	85.4	70-130
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0467	0.0050	0.050	-	93.4	70-130
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0472	0.0050	0.050	-	94.3	70-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0474	0.0050	0.050	-	94.9	70-130
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-
Surrogate Recovery							
Dibromofluoromethane	0.130	0.188		0.18	104	108	70-130
Toluene-d8	0.138	0.191		0.18	111	109	70-130
4-BFB	0.0115	0.0155		0.018	92	88	70-130

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1405780
Date Prepared:	5/20/14	**BatchID:**	90628
Date Analyzed:	5/20/14	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#0553; Cathedral Gardens	**Sample ID:**	MB/LCS-90628 1405773-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	0.0386	0.0381	0.050	ND	77.2	76.2	70-130	1.30	30
Benzene	0.0408	0.0406	0.050	ND	81.6	81.3	70-130	0.374	30
t-Butyl alcohol (TBA)	0.173	0.168	0.20	ND	86.6	84.1	70-130	2.94	30
Chlorobenzene	0.0407	0.0404	0.050	ND	81.4	80.9	70-130	0.644	30
1,2-Dibromoethane (EDB)	0.0423	0.0401	0.050	ND	84.5	80.3	70-130	5.16	30
1,2-Dichloroethane (1,2-DCA)	0.0501	0.0486	0.050	ND	100	97.3	70-130	2.95	30
1,1-Dichloroethene	0.0413	0.0405	0.050	ND	82.7	80.9	70-130	2.14	30
Diisopropyl ether (DIPE)	0.0379	0.0375	0.050	ND	75.9	74.9	70-130	1.24	30
Ethyl tert-butyl ether (ETBE)	0.0402	0.0397	0.050	ND	80.4	79.4	70-130	1.23	30
Methyl-t-butyl ether (MTBE)	0.0447	0.0434	0.050	ND	89.4	86.9	70-130	2.83	30
Toluene	0.0423	0.0421	0.050	ND	84.6	84.3	70-130	0.384	30
Trichloroethene	0.0430	0.0417	0.050	ND	86.1	83.3	70-130	3.23	30
Surrogate Recovery									
Dibromofluoromethane	0.185	0.180	0.18		106	103	70-130	2.64	30
Toluene-d8	0.186	0.183	0.18		107	105	70-130	1.84	30
4-BFB	0.0154	0.0152	0.018		88	87	70-130	1.59	30

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1405780
Date Prepared:	5/20/14	**BatchID:**	90642
Date Analyzed:	5/21/14	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#0553; Cathedral Gardens	**Sample ID:**	MB/LCS-90642 1405780-003AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0388	0.0050	0.050	-	77.7	70-130
Benzene	ND	0.0425	0.0050	0.050	-	85	70-130
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.175	0.050	0.20	-	87.7	70-130
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0438	0.0050	0.050	-	87.6	70-130
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0432	0.0040	0.050	-	86.3	70-130
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0492	0.0040	0.050	-	98.4	70-130
1,1-Dichloroethene	ND	0.0440	0.0050	0.050	-	88	70-130
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1405780
Date Prepared:	5/20/14	**BatchID:**	90642
Date Analyzed:	5/21/14	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#0553; Cathedral Gardens	**Sample ID:**	MB/LCS-90642 1405780-003AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Diisopropyl ether (DIPE)	ND	0.0391	0.0050	0.050	-	78.1	70-130
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0407	0.0050	0.050	-	81.3	70-130
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0448	0.0050	0.050	-	89.6	70-130
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0467	0.0050	0.050	-	93.4	70-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0457	0.0050	0.050	-	91.4	70-130
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-
Surrogate Recovery							
Dibromofluoromethane	0.125	0.182		0.18	100	104	70-130
Toluene-d8	0.139	0.193		0.18	111	110	70-130
4-BFB	0.0113	0.0154		0.018	90	88	70-130

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1405780
Date Prepared:	5/20/14	**BatchID:**	90642
Date Analyzed:	5/21/14	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#0553; Cathedral Gardens	**Sample ID:**	MB/LCS-90642 1405780-003AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	NR	NR	0.050	ND<0.010	NR	NR	70-130	NR	30
Benzene	NR	NR	0.050	ND<0.010	NR	NR	70-130	NR	30
t-Butyl alcohol (TBA)	NR	NR	0.20	ND<0.10	NR	NR	70-130	NR	30
Chlorobenzene	NR	NR	0.050	ND<0.010	NR	NR	70-130	NR	30
1,2-Dibromoethane (EDB)	NR	NR	0.050	ND<0.008	NR	NR	70-130	NR	30
1,2-Dichloroethane (1,2-DCA)	NR	NR	0.050	ND<0.008	NR	NR	70-130	NR	30
1,1-Dichloroethene	NR	NR	0.050	ND<0.010	NR	NR	70-130	NR	30
Diisopropyl ether (DIPE)	NR	NR	0.050	ND<0.010	NR	NR	70-130	NR	30
Ethyl tert-butyl ether (ETBE)	NR	NR	0.050	ND<0.010	NR	NR	70-130	NR	30
Methyl-t-butyl ether (MTBE)	NR	NR	0.050	ND<0.010	NR	NR	70-130	NR	30
Toluene	NR	NR	0.050	ND<0.010	NR	NR	70-130	NR	30
Trichloroethene	NR	NR	0.050	ND<0.010	NR	NR	70-130	NR	30
Surrogate Recovery									
Dibromofluoromethane	NR	NR	0.18		NR	NR	70-130	NR	30
Toluene-d8	NR	NR	0.18		NR	NR	70-130	NR	30
4-BFB	NR	NR	0.018		NR	NR	70-130	NR	30

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1405780
Date Prepared:	5/20/14	**BatchID:**	90640
Date Analyzed:	5/21/14	**Extraction Method:**	SW5030B
Instrument:	GC7	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#0553; Cathedral Gardens	**Sample ID:**	MB/LCS-90640 1405780-001AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.590	0.40	0.60	-	98.4	70-130
MTBE	ND	0.0863	0.050	0.10	-	86.3	70-130
Benzene	ND	0.114	0.0050	0.10	-	114	70-130
Toluene	ND	0.110	0.0050	0.10	-	110	70-130
Ethylbenzene	ND	0.118	0.0050	0.10	-	118	70-130
Xylenes	ND	0.360	0.0050	0.30	-	120	70-130
Surrogate Recovery							
2-Fluorotoluene	0.103	0.114		0.10	103	113	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR	0	ND<4	NR	NR	-	NR	
MTBE	NR	NR	0	ND<0.5	NR	NR	-	NR	
Benzene	NR	NR	0	ND<0.05	NR	NR	-	NR	
Toluene	NR	NR	0	ND<0.05	NR	NR	-	NR	
Ethylbenzene	NR	NR	0	ND<0.05	NR	NR	-	NR	
Xylenes	NR	NR	0	ND<0.05	NR	NR	-	NR	
Surrogate Recovery									
2-Fluorotoluene	NR	NR	0		NR	NR	-	NR	

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1405780
Date Prepared:	5/20/14	**BatchID:**	90638
Date Analyzed:	5/21/14	**Extraction Method:**	SW3550B
Instrument:	GC2B, GC6B	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#0553; Cathedral Gardens	**Sample ID:**	MB/LCS-90638 1405779-002AMS/MSD

QC Summary Report for SW8015B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	39.0	1.0	40	-	97.6	70-130
Surrogate Recovery							
C9	27.9	24.5		25	112	98	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	NR	NR	40	1600	NR	NR	70-130	NR	30
Surrogate Recovery									
C9	NR	NR	25		NR	NR	70-130	NR	30

McCampbell Analytical, Inc.
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Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1405780 **ClientCode: PDEO**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Heena Dhawan
P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610
(510) 658-6916 FAX: 510-834-0152

Email: lab@pdenviro.com
cc/3rd Party:
PO:
ProjectNo: #0553; Cathedral Gardens

Bill to:
Accounts Payable
P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610

Requested TAT: 1 day

Date Received: 05/20/2014
Date Printed: 05/20/2014

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1405780-001	T1-9.5	Soil	5/20/2014	☐	A	A										
1405780-002	T2-9.5	Soil	5/20/2014	☐	A	A										
1405780-003	T2-11.5	Soil	5/20/2014	☐	A	A										

Test Legend:

1	8260B_S	2	G-MBTEX_S	3		4		5	
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A contain testgroup.

Prepared by: Maria Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL
Project: #0553; Cathedral Gardens
Comments:

QC Level: LEVEL 2
Client Contact: Heena Dhawan
Contact's Email: lab@pdenviro.com

Work Order: 1405780
Date Received: 5/20/2014

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1405780-001A	T1-9.5	Soil	Multi-Range TPH(g,d,mo)	1	Stainless Tube	☐	5/20/2014	1 day		☐	
			SW8260B (VOCs)			☐		1 day		☐	
1405780-002A	T2-9.5	Soil	Multi-Range TPH(g,d,mo)	1	Stainless Tube	☐	5/20/2014	1 day		☐	
			SW8260B (VOCs)			☐		1 day		☐	
1405780-003A	T2-11.5	Soil	Multi-Range TPH(g,d,mo)	1	Stainless Tube	☐	5/20/2014	1 day		☐	
			SW8260B (VOCs)			☐		1 day		☐	

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:
Stainless Tube =

1405780

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

RUSH

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0553

PROJECT NAME: Cathedral Gardens 638 21st Street, Oakland, CA

SAMPLED BY: (PRINTED & SIGNATURE) Heena Dhawan Heena Dhawan

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS(ES): EPA 8260	TPH-G, K, MO, D, 8015	PRESERVATIVE	REMARKS
T1-9.5	5/20/14		SOIL		1	X	X	ICE	24 HR - RUSH TAT
T2-9.5	↓		↓		1	X	X	↓	↓
T2-11.5	↓		↓		1	X	X	↓	↓

ICE/t° 13.5
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

PRESERVATION	VOAS	O&G	METALS	OTHER

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	Total No. of Samples (This Shipment): 3	LABORATORY:
Heena Dhawan	5/20/14	1654		Total No. of Containers (This Shipment): 3	McCampbell Analytical, Inc
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	LABORATORY CONTACT: Angela Rydelius	LABORATORY PHONE NUMBER: (877) 252-9262
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES (X) NO	

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS: 24-HOUR RUSH TAT

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name: **P & D Environmental**
Date and Time Received: **5/20/2014 5:07:12 PM**
Project Name: **#0553; Cathedral Gardens**
LogIn Reviewed by: Maria Venegas
WorkOrder N°: **1405780** Matrix: Soil
Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 13.5°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: pH<2; 522: pH<4)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: OTHERS)

** NOTE: If the "No" box is checked, see comments below.*

Comments:

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1405779

Report Created for: P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610

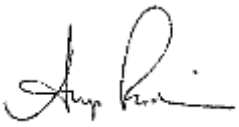
Project Contact: Heena Dhawan
Project P.O.:
Project Name: #0553; Cathedral Gardens

Project Received: 05/20/2014

Analytical Report reviewed & approved for release on 05/21/2014 by:

Question about your data?

Click here to email McCampbell



Angela Rydelius,
Laboratory Manager

1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com
NELAP: 4033ORELAP ♦ ELAP: 1644 ♦ ISO/IEC: 17025:2005 ♦ WSDE: C972-11 ♦ ADEC: UST-098 ♦ UCMR3

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Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: #0553; Cathedral Gardens
WorkOrder: 1405779

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
TEQ	Toxicity Equivalence

Analytical Qualifier

d7	strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
e1	unmodified or weakly modified diesel is significant

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1405779
Project:	#0553; Cathedral Gardens	**Extraction Method:**	SW5030B
Date Received:	5/20/14 16:59	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
S1	**1405779-001A**	**Soil**	**05/20/2014 14:30**	**GC10**	**90628**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	05/21/2014 00:37
tert-Amyl methyl ether (TAME)	ND	0.0050	1	05/21/2014 00:37
Benzene	ND	0.0050	1	05/21/2014 00:37
Bromobenzene	ND	0.0050	1	05/21/2014 00:37
Bromochloromethane	ND	0.0050	1	05/21/2014 00:37
Bromodichloromethane	ND	0.0050	1	05/21/2014 00:37
Bromoform	ND	0.0050	1	05/21/2014 00:37
Bromomethane	ND	0.0050	1	05/21/2014 00:37
2-Butanone (MEK)	ND	0.020	1	05/21/2014 00:37
t-Butyl alcohol (TBA)	ND	0.050	1	05/21/2014 00:37
n-Butyl benzene	ND	0.0050	1	05/21/2014 00:37
sec-Butyl benzene	ND	0.0050	1	05/21/2014 00:37
tert-Butyl benzene	ND	0.0050	1	05/21/2014 00:37
Carbon Disulfide	ND	0.0050	1	05/21/2014 00:37
Carbon Tetrachloride	ND	0.0050	1	05/21/2014 00:37
Chlorobenzene	ND	0.0050	1	05/21/2014 00:37
Chloroethane	ND	0.0050	1	05/21/2014 00:37
Chloroform	ND	0.0050	1	05/21/2014 00:37
Chloromethane	ND	0.0050	1	05/21/2014 00:37
2-Chlorotoluene	ND	0.0050	1	05/21/2014 00:37
4-Chlorotoluene	ND	0.0050	1	05/21/2014 00:37
Dibromochloromethane	ND	0.0050	1	05/21/2014 00:37
1,2-Dibromo-3-chloropropane	ND	0.0040	1	05/21/2014 00:37
1,2-Dibromoethane (EDB)	ND	0.0040	1	05/21/2014 00:37
Dibromomethane	ND	0.0050	1	05/21/2014 00:37
1,2-Dichlorobenzene	ND	0.0050	1	05/21/2014 00:37
1,3-Dichlorobenzene	ND	0.0050	1	05/21/2014 00:37
1,4-Dichlorobenzene	ND	0.0050	1	05/21/2014 00:37
Dichlorodifluoromethane	ND	0.0050	1	05/21/2014 00:37
1,1-Dichloroethane	ND	0.0050	1	05/21/2014 00:37
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	05/21/2014 00:37
1,1-Dichloroethene	ND	0.0050	1	05/21/2014 00:37
cis-1,2-Dichloroethene	ND	0.0050	1	05/21/2014 00:37
trans-1,2-Dichloroethene	ND	0.0050	1	05/21/2014 00:37
1,2-Dichloropropane	ND	0.0050	1	05/21/2014 00:37
1,3-Dichloropropane	ND	0.0050	1	05/21/2014 00:37
2,2-Dichloropropane	ND	0.0050	1	05/21/2014 00:37
1,1-Dichloropropene	ND	0.0050	1	05/21/2014 00:37

(Cont.)

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1405779
Project:	#0553; Cathedral Gardens	**Extraction Method:**	SW5030B
Date Received:	5/20/14 16:59	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
S1	**1405779-001A**	**Soil**	**05/20/2014 14:30**	**GC10**	**90628**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	05/21/2014 00:37
trans-1,3-Dichloropropene	ND	0.0050	1	05/21/2014 00:37
Diisopropyl ether (DIPE)	ND	0.0050	1	05/21/2014 00:37
Ethylbenzene	ND	0.0050	1	05/21/2014 00:37
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	05/21/2014 00:37
Freon 113	ND	0.10	1	05/21/2014 00:37
Hexachlorobutadiene	ND	0.0050	1	05/21/2014 00:37
Hexachloroethane	ND	0.0050	1	05/21/2014 00:37
2-Hexanone	ND	0.0050	1	05/21/2014 00:37
Isopropylbenzene	ND	0.0050	1	05/21/2014 00:37
4-Isopropyl toluene	ND	0.0050	1	05/21/2014 00:37
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	05/21/2014 00:37
Methylene chloride	ND	0.0050	1	05/21/2014 00:37
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	05/21/2014 00:37
Naphthalene	ND	0.0050	1	05/21/2014 00:37
n-Propyl benzene	ND	0.0050	1	05/21/2014 00:37
Styrene	ND	0.0050	1	05/21/2014 00:37
1,1,1,2-Tetrachloroethane	ND	0.0050	1	05/21/2014 00:37
1,1,2,2-Tetrachloroethane	ND	0.0050	1	05/21/2014 00:37
Tetrachloroethene	ND	0.0050	1	05/21/2014 00:37
Toluene	ND	0.0050	1	05/21/2014 00:37
1,2,3-Trichlorobenzene	ND	0.0050	1	05/21/2014 00:37
1,2,4-Trichlorobenzene	ND	0.0050	1	05/21/2014 00:37
1,1,1-Trichloroethane	ND	0.0050	1	05/21/2014 00:37
1,1,2-Trichloroethane	ND	0.0050	1	05/21/2014 00:37
Trichloroethene	ND	0.0050	1	05/21/2014 00:37
Trichlorofluoromethane	ND	0.0050	1	05/21/2014 00:37
1,2,3-Trichloropropane	ND	0.0050	1	05/21/2014 00:37
1,2,4-Trimethylbenzene	ND	0.0050	1	05/21/2014 00:37
1,3,5-Trimethylbenzene	ND	0.0050	1	05/21/2014 00:37
Vinyl Chloride	ND	0.0050	1	05/21/2014 00:37
Xylenes, Total	ND	0.0050	1	05/21/2014 00:37

Surrogates	REC (%)	Limits	
Dibromofluoromethane	105	70-130	05/21/2014 00:37
Toluene-d8	109	70-130	05/21/2014 00:37
4-BFB	90	70-130	05/21/2014 00:37

(Cont.)

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1405779
Project:	#0553; Cathedral Gardens	**Extraction Method:**	SW5030B
Date Received:	5/20/14 16:59	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
S2	**1405779-002A**	**Soil**	**05/20/2014 14:35**	**GC10**	**90628**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	05/21/2014 01:19
tert-Amyl methyl ether (TAME)	ND	0.0050	1	05/21/2014 01:19
Benzene	ND	0.0050	1	05/21/2014 01:19
Bromobenzene	ND	0.0050	1	05/21/2014 01:19
Bromochloromethane	ND	0.0050	1	05/21/2014 01:19
Bromodichloromethane	ND	0.0050	1	05/21/2014 01:19
Bromoform	ND	0.0050	1	05/21/2014 01:19
Bromomethane	ND	0.0050	1	05/21/2014 01:19
2-Butanone (MEK)	ND	0.020	1	05/21/2014 01:19
t-Butyl alcohol (TBA)	ND	0.050	1	05/21/2014 01:19
n-Butyl benzene	**0.010**	0.0050	1	05/21/2014 01:19
sec-Butyl benzene	**0.091**	0.0050	1	05/21/2014 01:19
tert-Butyl benzene	ND	0.0050	1	05/21/2014 01:19
Carbon Disulfide	ND	0.0050	1	05/21/2014 01:19
Carbon Tetrachloride	ND	0.0050	1	05/21/2014 01:19
Chlorobenzene	ND	0.0050	1	05/21/2014 01:19
Chloroethane	ND	0.0050	1	05/21/2014 01:19
Chloroform	ND	0.0050	1	05/21/2014 01:19
Chloromethane	ND	0.0050	1	05/21/2014 01:19
2-Chlorotoluene	ND	0.0050	1	05/21/2014 01:19
4-Chlorotoluene	ND	0.0050	1	05/21/2014 01:19
Dibromochloromethane	ND	0.0050	1	05/21/2014 01:19
1,2-Dibromo-3-chloropropane	ND	0.0040	1	05/21/2014 01:19
1,2-Dibromoethane (EDB)	ND	0.0040	1	05/21/2014 01:19
Dibromomethane	ND	0.0050	1	05/21/2014 01:19
1,2-Dichlorobenzene	ND	0.0050	1	05/21/2014 01:19
1,3-Dichlorobenzene	ND	0.0050	1	05/21/2014 01:19
1,4-Dichlorobenzene	ND	0.0050	1	05/21/2014 01:19
Dichlorodifluoromethane	ND	0.0050	1	05/21/2014 01:19
1,1-Dichloroethane	ND	0.0050	1	05/21/2014 01:19
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	05/21/2014 01:19
1,1-Dichloroethene	ND	0.0050	1	05/21/2014 01:19
cis-1,2-Dichloroethene	ND	0.0050	1	05/21/2014 01:19
trans-1,2-Dichloroethene	ND	0.0050	1	05/21/2014 01:19
1,2-Dichloropropane	ND	0.0050	1	05/21/2014 01:19
1,3-Dichloropropane	ND	0.0050	1	05/21/2014 01:19
2,2-Dichloropropane	ND	0.0050	1	05/21/2014 01:19
1,1-Dichloropropene	ND	0.0050	1	05/21/2014 01:19

(Cont.)

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1405779
Project:	#0553; Cathedral Gardens	**Extraction Method:**	SW5030B
Date Received:	5/20/14 16:59	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
S2	**1405779-002A**	**Soil**	**05/20/2014 14:35**	**GC10**	**90628**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	05/21/2014 01:19
trans-1,3-Dichloropropene	ND	0.0050	1	05/21/2014 01:19
Diisopropyl ether (DIPE)	ND	0.0050	1	05/21/2014 01:19
Ethylbenzene	ND	0.0050	1	05/21/2014 01:19
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	05/21/2014 01:19
Freon 113	ND	0.10	1	05/21/2014 01:19
Hexachlorobutadiene	ND	0.0050	1	05/21/2014 01:19
Hexachloroethane	ND	0.0050	1	05/21/2014 01:19
2-Hexanone	ND	0.0050	1	05/21/2014 01:19
Isopropylbenzene	ND	0.0050	1	05/21/2014 01:19
4-Isopropyl toluene	**0.0063**	0.0050	1	05/21/2014 01:19
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	05/21/2014 01:19
Methylene chloride	ND	0.0050	1	05/21/2014 01:19
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	05/21/2014 01:19
Naphthalene	ND	0.0050	1	05/21/2014 01:19
n-Propyl benzene	ND	0.0050	1	05/21/2014 01:19
Styrene	ND	0.0050	1	05/21/2014 01:19
1,1,1,2-Tetrachloroethane	ND	0.0050	1	05/21/2014 01:19
1,1,2,2-Tetrachloroethane	ND	0.0050	1	05/21/2014 01:19
Tetrachloroethene	ND	0.0050	1	05/21/2014 01:19
Toluene	ND	0.0050	1	05/21/2014 01:19
1,2,3-Trichlorobenzene	ND	0.0050	1	05/21/2014 01:19
1,2,4-Trichlorobenzene	ND	0.0050	1	05/21/2014 01:19
1,1,1-Trichloroethane	ND	0.0050	1	05/21/2014 01:19
1,1,2-Trichloroethane	ND	0.0050	1	05/21/2014 01:19
Trichloroethene	ND	0.0050	1	05/21/2014 01:19
Trichlorofluoromethane	ND	0.0050	1	05/21/2014 01:19
1,2,3-Trichloropropane	ND	0.0050	1	05/21/2014 01:19
1,2,4-Trimethylbenzene	ND	0.0050	1	05/21/2014 01:19
1,3,5-Trimethylbenzene	ND	0.0050	1	05/21/2014 01:19
Vinyl Chloride	ND	0.0050	1	05/21/2014 01:19
Xylenes, Total	ND	0.0050	1	05/21/2014 01:19

Surrogates	REC (%)	Limits	
Dibromofluoromethane	104	70-130	05/21/2014 01:19
Toluene-d8	111	70-130	05/21/2014 01:19
4-BFB	105	70-130	05/21/2014 01:19

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1405779
Project:	#0553; Cathedral Gardens	**Extraction Method:**	SW5030B
Date Received:	5/20/14 16:59	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	5/20/14	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Stoddard Solvent Range (C9-C12) Volatile Hydrocarbons with BTEX & MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
S1	**1405779-001A**	**Soil**	**05/20/2014 14:30**	**GC7**	**90605**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	05/21/2014 01:40
TPH(ss)	ND	1.0	1	05/21/2014 01:40
MTBE	---	0.050	1	05/21/2014 01:40
Benzene	---	0.0050	1	05/21/2014 01:40
Toluene	---	0.0050	1	05/21/2014 01:40
Ethylbenzene	---	0.0050	1	05/21/2014 01:40
Xylenes	---	0.0050	1	05/21/2014 01:40
Surrogates	REC (%)	Limits		
2-Fluorotoluene	93	70-130		05/21/2014 01:40

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
S2	**1405779-002A**	**Soil**	**05/20/2014 14:35**	**GC7**	**90605**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**24**	10	10	05/21/2014 03:38
TPH(ss)	**47**	10	10	05/21/2014 03:38
MTBE	---	0.50	10	05/21/2014 03:38
Benzene	---	0.050	10	05/21/2014 03:38
Toluene	---	0.050	10	05/21/2014 03:38
Ethylbenzene	---	0.050	10	05/21/2014 03:38
Xylenes	---	0.050	10	05/21/2014 03:38
Surrogates	REC (%)	Limits	Analytical Comments: d7	
2-Fluorotoluene	95	70-130		05/21/2014 03:38

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1405779
Project:	#0553; Cathedral Gardens	**Extraction Method:**	SW3550B
Date Received:	5/20/14 16:59	**Analytical Method:**	SW8015B
Date Prepared:	5/20/14	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
S1	**1405779-001A**	**Soil**	**05/20/2014 14:30**	**GC6B**	**90638**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**13**	2.0	2	05/21/2014 12:49
TPH-Motor Oil (C18-C36)	**18**	10	2	05/21/2014 12:49
TPH-Bunker Oil (C10-C36)	**23**	10	2	05/21/2014 12:49
TPH-Kerosene (C9-C18)	**8.7**	2.0	2	05/21/2014 12:49

Surrogates	REC (%)	Limits	Analytical Comments: e1	
C9	118	70-130		05/21/2014 12:49

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
S2	**1405779-002A**	**Soil**	**05/20/2014 14:35**	**GC6A**	**90638**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**1600**	2.0	2	05/21/2014 09:50
TPH-Motor Oil (C18-C36)	**540**	10	2	05/21/2014 09:50
TPH-Bunker Oil (C10-C36)	**1600**	10	2	05/21/2014 09:50
TPH-Kerosene (C9-C18)	**1300**	2.0	2	05/21/2014 09:50

Surrogates	REC (%)	Limits	Analytical Comments: e1	
C9	118	70-130		05/21/2014 09:50

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1405779
Date Prepared:	5/20/14	**BatchID:**	90628
Date Analyzed:	5/20/14	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#0553; Cathedral Gardens	**Sample ID:**	MB/LCS-90628 1405773-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0403	0.0050	0.050	-	80.6	70-130
Benzene	ND	0.0449	0.0050	0.050	-	89.8	70-130
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.175	0.050	0.20	-	87.6	70-130
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0450	0.0050	0.050	-	90.1	70-130
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0454	0.0040	0.050	-	90.8	70-130
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0550	0.0040	0.050	-	110	70-130
1,1-Dichloroethene	ND	0.0467	0.0050	0.050	-	93.4	70-130
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-

(Cont.)

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1405779
Date Prepared:	5/20/14	**BatchID:**	90628
Date Analyzed:	5/20/14	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#0553; Cathedral Gardens	**Sample ID:**	MB/LCS-90628 1405773-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Diisopropyl ether (DIPE)	ND	0.0409	0.0050	0.050	-	81.8	70-130
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0427	0.0050	0.050	-	85.4	70-130
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0467	0.0050	0.050	-	93.4	70-130
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0472	0.0050	0.050	-	94.3	70-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0474	0.0050	0.050	-	94.9	70-130
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-
Surrogate Recovery							
Dibromofluoromethane	0.130	0.188		0.18	104	108	70-130
Toluene-d8	0.138	0.191		0.18	111	109	70-130
4-BFB	0.0115	0.0155		0.018	92	88	70-130

(Cont.)

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1405779
Date Prepared:	5/20/14	**BatchID:**	90628
Date Analyzed:	5/20/14	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#0553; Cathedral Gardens	**Sample ID:**	MB/LCS-90628 1405773-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	0.0386	0.0381	0.050	ND	77.2	76.2	70-130	1.30	30
Benzene	0.0408	0.0406	0.050	ND	81.6	81.3	70-130	0.374	30
t-Butyl alcohol (TBA)	0.173	0.168	0.20	ND	86.6	84.1	70-130	2.94	30
Chlorobenzene	0.0407	0.0404	0.050	ND	81.4	80.9	70-130	0.644	30
1,2-Dibromoethane (EDB)	0.0423	0.0401	0.050	ND	84.5	80.3	70-130	5.16	30
1,2-Dichloroethane (1,2-DCA)	0.0501	0.0486	0.050	ND	100	97.3	70-130	2.95	30
1,1-Dichloroethene	0.0413	0.0405	0.050	ND	82.7	80.9	70-130	2.14	30
Diisopropyl ether (DIPE)	0.0379	0.0375	0.050	ND	75.9	74.9	70-130	1.24	30
Ethyl tert-butyl ether (ETBE)	0.0402	0.0397	0.050	ND	80.4	79.4	70-130	1.23	30
Methyl-t-butyl ether (MTBE)	0.0447	0.0434	0.050	ND	89.4	86.9	70-130	2.83	30
Toluene	0.0423	0.0421	0.050	ND	84.6	84.3	70-130	0.384	30
Trichloroethene	0.0430	0.0417	0.050	ND	86.1	83.3	70-130	3.23	30
Surrogate Recovery									
Dibromofluoromethane	0.185	0.180	0.18		106	103	70-130	2.64	30
Toluene-d8	0.186	0.183	0.18		107	105	70-130	1.84	30
4-BFB	0.0154	0.0152	0.018		88	87	70-130	1.59	30

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1405779
Date Prepared:	5/19/14	**BatchID:**	90605
Date Analyzed:	5/21/14	**Extraction Method:**	SW5030B
Instrument:	GC7	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#0553; Cathedral Gardens	**Sample ID:**	MB/LCS-90605 1405779-002AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.687	0.40	0.60	-	114	70-130
MTBE	ND	0.0813	0.050	0.10	-	81.3	70-130
Benzene	ND	0.115	0.0050	0.10	-	115	70-130
Toluene	ND	0.112	0.0050	0.10	-	112	70-130
Ethylbenzene	ND	0.117	0.0050	0.10	-	117	70-130
Xylenes	ND	0.359	0.0050	0.30	-	120	70-130
Surrogate Recovery							
2-Fluorotoluene	0.120	0.108		0.10	120	108	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR	0	ND<4	NR	NR	-	NR	
MTBE	NR	NR	0	ND<0.5	NR	NR	-	NR	
Benzene	NR	NR	0	ND<0.05	NR	NR	-	NR	
Toluene	NR	NR	0	ND<0.05	NR	NR	-	NR	
Ethylbenzene	NR	NR	0	ND<0.05	NR	NR	-	NR	
Xylenes	NR	NR	0	ND<0.05	NR	NR	-	NR	
Surrogate Recovery									
2-Fluorotoluene	NR	NR	0		NR	NR	-	NR	

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1405779
Date Prepared:	5/20/14	**BatchID:**	90638
Date Analyzed:	5/21/14	**Extraction Method:**	SW3550B
Instrument:	GC2B, GC6B	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#0553; Cathedral Gardens	**Sample ID:**	MB/LCS-90638 1405779-002AMS/MSD

QC Summary Report for SW8015B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	39.0	1.0	40	-	97.6	70-130
Surrogate Recovery							
C9	27.9	24.5		25	112	98	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	NR	NR	40	1600	NR	NR	70-130	NR	30
Surrogate Recovery									
C9	NR	NR	25		NR	NR	70-130	NR	30

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(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1405779 **ClientCode: PDEO**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Heena Dhawan
P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610
(510) 658-6916 FAX: 510-834-0152

Email: lab@pdenviro.com
cc/3rd Party:
PO:
ProjectNo: #0553; Cathedral Gardens

Bill to:
Accounts Payable
P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610

Requested TAT: 1 day

Date Received: 05/20/2014
Date Printed: 05/20/2014

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1405779-001	S1	Soil	5/20/2014 14:30	☐	A	A										
1405779-002	S2	Soil	5/20/2014 14:35	☐	A	A										

Test Legend:

1	8260B_S	2	G-MBTEX_S	3		4		5	
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A contain testgroup.

Prepared by: Maria Venegas

Comments: 1 Day TAT

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL
Project: #0553; Cathedral Gardens
Comments: 1 Day TAT

QC Level: LEVEL 2
Client Contact: Heena Dhawan
Contact's Email: lab@pdenviro.com

Work Order: 1405779
Date Received: 5/20/2014

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1405779-001A	S1	Soil	Multi-Range TPH(g,d,mo)	1	Stainless Tube	☐	5/20/2014 14:30	1 day		☐	
			SW8260B (VOCs)			☐		1 day		☐	
1405779-002A	S2	Soil	Multi-Range TPH(g,d,mo)	1	Stainless Tube	☐	5/20/2014 14:35	1 day		☐	
			SW8260B (VOCs)			☐		1 day		☐	

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:
Stainless Tube =

1405779

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

RUSH

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0553

PROJECT NAME: Cathedral Gardens
638 21st Street,
Oakland, CA

SAMPLED BY: (PRINTED & SIGNATURE)
Heena Dhawan Heena Dhawan

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS(ES): TPH-G, D, MO, BO, K, SS	EPA 8260	PRESERVATIVE	REMARKS
S1	5/20/14	1430	SOIL		1	X	X	ICE	24 Hour Rush
S2	↓	1435	↓		1	X	X	↓	↓

ICE/t° 13.5
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB
PRESERVATION: VOAS | O&G | METALS | OTHER

RELINQUISHED BY: (SIGNATURE) Heena Dhawan	DATE 5/20/14	TIME 1655	RECEIVED BY: (SIGNATURE)	Total No. of Samples (This Shipment) 2	LABORATORY: McCampbell Analytical, Inc
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	Total No. of Containers (This Shipment) 2	
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	LABORATORY CONTACT: Angela Rydelius	LABORATORY PHONE NUMBER: (877) 252-9262
				SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES (X) NO	

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS: 24 Hour Rush Analysis

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Sample Receipt Checklist

Client Name: **P & D Environmental**
Date and Time Received: **5/20/2014 4:59:03 PM**
Project Name: **#0553; Cathedral Gardens**
LogIn Reviewed by: Maria Venegas
WorkOrder N°: **1405779** Matrix: Soil
Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 13.5°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: pH<2; 522: pH<4)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: OTHERS)

** NOTE: If the "No" box is checked, see comments below.*

Comments:

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Analytical Report

WorkOrder: 1405960

Report Created for: P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610

Project Contact: Paul King
Project P.O.:
Project Name: #0553; Cathedral Gardens Oakland, 638 21st Oakland CA 94612
Project Received: 05/23/2014

Analytical Report reviewed & approved for release on 05/28/2014 by:

Question about your data?

Click here to email McCampbell

Angela Rydelius,
Laboratory Manager

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NELAP: 4033ORELAP ♦ ELAP: 1644 ♦ ISO/IEC: 17025:2005 ♦ WSDE: C972-11 ♦ ADEC: UST-098 ♦ UCMR3

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Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: #0553; Cathedral Gardens Oakland, 638 21st Oakland CA 94612
WorkOrder: 1405960

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
TEQ	Toxicity Equivalence

Analytical Qualifiers

d5	TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?)
e1	unmodified or weakly modified diesel is significant

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1405960
Project:	#0553; Cathedral Gardens Oakland, 638 21st Oaklan	**Extraction Method:**	SW5030B
Date Received:	5/23/14 20:17	**Analytical Method:**	SW8260B
Date Prepared:	5/24/14	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
USTPIT WATER 1	**1405960-001B**	**Water**	**05/23/2014 09:00**	**GC28**	**90833**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10	1	05/24/2014 07:49
tert-Amyl methyl ether (TAME)	ND	0.50	1	05/24/2014 07:49
Benzene	ND	0.50	1	05/24/2014 07:49
Bromobenzene	ND	0.50	1	05/24/2014 07:49
Bromochloromethane	ND	0.50	1	05/24/2014 07:49
Bromodichloromethane	ND	0.50	1	05/24/2014 07:49
Bromoform	ND	0.50	1	05/24/2014 07:49
Bromomethane	ND	0.50	1	05/24/2014 07:49
2-Butanone (MEK)	ND	2.0	1	05/24/2014 07:49
t-Butyl alcohol (TBA)	ND	2.0	1	05/24/2014 07:49
n-Butyl benzene	ND	0.50	1	05/24/2014 07:49
sec-Butyl benzene	**2.7**	0.50	1	05/24/2014 07:49
tert-Butyl benzene	ND	0.50	1	05/24/2014 07:49
Carbon Disulfide	ND	0.50	1	05/24/2014 07:49
Carbon Tetrachloride	ND	0.50	1	05/24/2014 07:49
Chlorobenzene	ND	0.50	1	05/24/2014 07:49
Chloroethane	ND	0.50	1	05/24/2014 07:49
Chloroform	ND	0.50	1	05/24/2014 07:49
Chloromethane	ND	0.50	1	05/24/2014 07:49
2-Chlorotoluene	ND	0.50	1	05/24/2014 07:49
4-Chlorotoluene	ND	0.50	1	05/24/2014 07:49
Dibromochloromethane	ND	0.50	1	05/24/2014 07:49
1,2-Dibromo-3-chloropropane	ND	0.20	1	05/24/2014 07:49
1,2-Dibromoethane (EDB)	ND	0.50	1	05/24/2014 07:49
Dibromomethane	ND	0.50	1	05/24/2014 07:49
1,2-Dichlorobenzene	ND	0.50	1	05/24/2014 07:49
1,3-Dichlorobenzene	ND	0.50	1	05/24/2014 07:49
1,4-Dichlorobenzene	ND	0.50	1	05/24/2014 07:49
Dichlorodifluoromethane	ND	0.50	1	05/24/2014 07:49
1,1-Dichloroethane	ND	0.50	1	05/24/2014 07:49
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	05/24/2014 07:49
1,1-Dichloroethene	ND	0.50	1	05/24/2014 07:49
cis-1,2-Dichloroethene	ND	0.50	1	05/24/2014 07:49
trans-1,2-Dichloroethene	ND	0.50	1	05/24/2014 07:49
1,2-Dichloropropane	ND	0.50	1	05/24/2014 07:49
1,3-Dichloropropane	ND	0.50	1	05/24/2014 07:49
2,2-Dichloropropane	ND	0.50	1	05/24/2014 07:49
1,1-Dichloropropene	ND	0.50	1	05/24/2014 07:49

(Cont.)

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1405960
Project:	#0553; Cathedral Gardens Oakland, 638 21st Oaklan	**Extraction Method:**	SW5030B
Date Received:	5/23/14 20:17	**Analytical Method:**	SW8260B
Date Prepared:	5/24/14	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
USTPIT WATER 1	**1405960-001B**	**Water**	**05/23/2014 09:00**	**GC28**	**90833**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50	1	05/24/2014 07:49
trans-1,3-Dichloropropene	ND	0.50	1	05/24/2014 07:49
Diisopropyl ether (DIPE)	ND	0.50	1	05/24/2014 07:49
Ethylbenzene	ND	0.50	1	05/24/2014 07:49
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	05/24/2014 07:49
Freon 113	ND	0.50	1	05/24/2014 07:49
Hexachlorobutadiene	ND	0.50	1	05/24/2014 07:49
Hexachloroethane	ND	0.50	1	05/24/2014 07:49
2-Hexanone	ND	0.50	1	05/24/2014 07:49
Isopropylbenzene	ND	0.50	1	05/24/2014 07:49
4-Isopropyl toluene	ND	0.50	1	05/24/2014 07:49
Methyl-t-butyl ether (MTBE)	ND	0.50	1	05/24/2014 07:49
Methylene chloride	ND	0.50	1	05/24/2014 07:49
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	05/24/2014 07:49
Naphthalene	**1.0**	0.50	1	05/24/2014 07:49
n-Propyl benzene	ND	0.50	1	05/24/2014 07:49
Styrene	ND	0.50	1	05/24/2014 07:49
1,1,1,2-Tetrachloroethane	ND	0.50	1	05/24/2014 07:49
1,1,2,2-Tetrachloroethane	ND	0.50	1	05/24/2014 07:49
Tetrachloroethene	ND	0.50	1	05/24/2014 07:49
Toluene	ND	0.50	1	05/24/2014 07:49
1,2,3-Trichlorobenzene	ND	0.50	1	05/24/2014 07:49
1,2,4-Trichlorobenzene	ND	0.50	1	05/24/2014 07:49
1,1,1-Trichloroethane	ND	0.50	1	05/24/2014 07:49
1,1,2-Trichloroethane	ND	0.50	1	05/24/2014 07:49
Trichloroethene	ND	0.50	1	05/24/2014 07:49
Trichlorofluoromethane	ND	0.50	1	05/24/2014 07:49
1,2,3-Trichloropropane	ND	0.50	1	05/24/2014 07:49
1,2,4-Trimethylbenzene	ND	0.50	1	05/24/2014 07:49
1,3,5-Trimethylbenzene	ND	0.50	1	05/24/2014 07:49
Vinyl Chloride	ND	0.50	1	05/24/2014 07:49
Xylenes, Total	ND	0.50	1	05/24/2014 07:49

Surrogates	REC (%)	Limits	
Dibromofluoromethane	112	70-130	05/24/2014 07:49
Toluene-d8	117	70-130	05/24/2014 07:49
4-BFB	105	70-130	05/24/2014 07:49

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1405960
Project:	#0553; Cathedral Gardens Oakland, 638 21st Oaklan	**Extraction Method:**	SW5030B
Date Received:	5/23/14 20:17	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	5/27/14	**Unit:**	µg/L

Gasoline Range (C6-C12) + Stoddard Solvent Range (C9-C12) as Volatile Hydrocarbons

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
USTPIT WATER1	**1405960-001A**	**Water**	**05/23/2014 09:00**	**GC3**	**90861**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**110**	50	1	05/27/2014 16:43
TPH(ss)	**130**	50	1	05/27/2014 16:43
MTBE	**---**	5.0	1	05/27/2014 16:43
Benzene	**---**	0.50	1	05/27/2014 16:43
Toluene	**---**	0.50	1	05/27/2014 16:43
Ethylbenzene	**---**	0.50	1	05/27/2014 16:43
Xylenes	**---**	0.50	1	05/27/2014 16:43

Surrogates	REC (%)	Limits	Analytical Comments: d5	
aaa-TFT	97	70-130		05/27/2014 16:43

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1405960
Project:	#0553; Cathedral Gardens Oakland, 638 21st Oaklan	**Extraction Method:**	SW3510C
Date Received:	5/23/14 20:17	**Analytical Method:**	SW8015B
Date Prepared:	5/23/14	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
USTPIT WATER1	**1405960-001A**	**Water**	**05/23/2014 09:00**	**GC6B**	**90821**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**4600**	50	1	05/27/2014 20:43
TPH-Motor Oil (C18-C36)	**1700**	250	1	05/27/2014 20:43
TPH-Bunker Oil (C10-C36)	**4700**	100	1	05/27/2014 20:43
TPH-Kerosene (C9-C18)	**3300**	50	1	05/27/2014 20:43

Surrogates	REC (%)	Limits	Analytical Comments: e1	
C9	99	70-130		05/27/2014 20:43

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1405960
Date Prepared:	5/27/14	**BatchID:**	90833
Date Analyzed:	5/23/14	**Extraction Method:**	SW5030B
Instrument:	GC28	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	#0553; Cathedral Gardens Oakland, 638 21st Oakland CA 94612	**Sample ID:**	MB/LCS-90833 1405843-001FMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	20.3	0.50	20	-	101	70-130
Benzene	ND	19.8	0.50	20	-	98.9	70-130
Bromobenzene	ND	-	0.50	-	-	-	-
Bromochloromethane	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	70.7	2.0	80	-	88.4	70-130
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	20.2	0.50	20	-	101	70-130
Chloroethane	ND	-	0.50	-	-	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	-	-	-
1,2-Dibromoethane (EDB)	ND	20.3	0.50	20	-	102	70-130
Dibromomethane	ND	-	0.50	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.50	-	-	-	-
Dichlorodifluoromethane	ND	-	0.50	-	-	-	-
1,1-Dichloroethane	ND	-	0.50	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	18.5	0.50	20	-	92.7	70-130
1,1-Dichloroethene	ND	19.6	0.50	20	-	98	70-130
cis-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
1,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,3-Dichloropropane	ND	-	0.50	-	-	-	-
2,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,1-Dichloropropene	ND	-	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-

(Cont.)

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1405960
Date Prepared:	5/27/14	**BatchID:**	90833
Date Analyzed:	5/23/14	**Extraction Method:**	SW5030B
Instrument:	GC28	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	#0553; Cathedral Gardens Oakland, 638 21st Oakland CA 94612	**Sample ID:**	MB/LCS-90833 1405843-001FMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Diisopropyl ether (DIPE)	ND	20.0	0.50	20	-	100	70-130
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	19.8	0.50	20	-	98.9	70-130
Freon 113	ND	-	0.50	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexachloroethane	ND	-	0.50	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	19.6	0.50	20	-	98	70-130
Methylene chloride	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Naphthalene	ND	-	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.50	-	-	-	-
Toluene	ND	20.7	0.50	20	-	103	70-130
1,2,3-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.50	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.50	-	-	-	-
Trichloroethene	ND	19.8	0.50	20	-	99.1	70-130
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.50	-	-	-	-
Xylenes, Total	ND	-	0.50	-	-	-	-
Surrogate Recovery							
Dibromofluoromethane	27.2	49.9		45	109	111	70-130
Toluene-d8	28.3	50.7		45	113	113	70-130
4-BFB	2.52	4.66		4.5	101	104	70-130

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1405960
Date Prepared:	5/27/14	**BatchID:**	90833
Date Analyzed:	5/23/14	**Extraction Method:**	SW5030B
Instrument:	GC28	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	#0553; Cathedral Gardens Oakland, 638 21st Oakland CA 94612	**Sample ID:**	MB/LCS-90833 1405843-001FMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	22.5	22.9	20	ND	113	114	70-130	1.62	20
Benzene	21.8	21.6	20	ND	109	108	70-130	0.702	20
t-Butyl alcohol (TBA)	83.2	89.5	80	ND	104	112	70-130	7.34	20
Chlorobenzene	21.0	21.2	20	ND	105	106	70-130	1.14	20
1,2-Dibromoethane (EDB)	22.5	22.6	20	ND	113	113	70-130	0	20
1,2-Dichloroethane (1,2-DCA)	20.6	20.5	20	ND	103	102	70-130	0.307	20
1,1-Dichloroethene	19.6	20.7	20	ND	98.1	104	70-130	5.37	20
Diisopropyl ether (DIPE)	22.6	22.4	20	ND	113	112	70-130	1.16	20
Ethyl tert-butyl ether (ETBE)	21.8	22.1	20	ND	109	111	70-130	1.34	20
Methyl-t-butyl ether (MTBE)	21.6	22.2	20	ND	108	111	70-130	2.32	20
Toluene	21.6	21.7	20	ND	108	108	70-130	0	20
Trichloroethene	20.8	21.1	20	ND	104	106	70-130	1.75	20
Surrogate Recovery									
Dibromofluoromethane	51.1	51.7	45		114	115	70-130	1.07	20
Toluene-d8	51.1	50.5	45		113	112	70-130	1.17	20
4-BFB	4.63	4.70	4.5		103	105	70-130	1.56	20

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1405960
Date Prepared:	5/27/14	**BatchID:**	90861
Date Analyzed:	5/27/14	**Extraction Method:**	SW5030B
Instrument:	GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Water	**Unit:**	µg/L
Project:	#0553; Cathedral Gardens Oakland, 638 21st Oakland CA 94612	**Sample ID:**	MB/LCS-90861 1405959-001AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	64.1	40	60	-	107	70-130
MTBE	ND	11.1	5.0	10	-	111	70-130
Benzene	ND	10.3	0.50	10	-	103	70-130
Toluene	ND	10.2	0.50	10	-	102	70-130
Ethylbenzene	ND	10.3	0.50	10	-	103	70-130
Xylenes	ND	31.1	0.50	30	-	104	70-130
Surrogate Recovery							
aaa-TFT	9.81	9.67		10	98	97	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	65.4	65.4	60	ND	109	109	70-130	0	20
MTBE	10.2	10.2	10	ND	103	102	70-130	0.928	20
Benzene	9.47	9.81	10	ND	94.7	98.1	70-130	3.54	20
Toluene	9.62	9.91	10	ND	96.2	99.1	70-130	3.00	20
Ethylbenzene	9.43	9.77	10	ND	94.3	97.7	70-130	3.48	20
Xylenes	28.5	29.4	30	ND	95.1	98.1	70-130	3.11	20
Surrogate Recovery									
aaa-TFT	9.20	9.31	10		92	93	70-130	1.24	20

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1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1405960
Date Prepared:	5/23/14	**BatchID:**	90821
Date Analyzed:	5/27/14	**Extraction Method:**	SW3510C
Instrument:	GC6A, GC6B	**Analytical Method:**	SW8015B
Matrix:	Water	**Unit:**	µg/L
Project:	#0553; Cathedral Gardens Oakland, 638 21st Oakland CA 94612	**Sample ID:**	MB/LCS-90821

QC Summary Report for SW8015B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	857	50	1000	-	85.7	70-130
Surrogate Recovery							
C9	649	613		625	104	98	70-130

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Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1405960 **ClientCode: PDEO**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Paul King
P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610
(510) 658-6916 FAX: 510-834-0152

Email: lab@pdenviro.com
cc/3rd Party:
PO:
ProjectNo: #0553; Cathedral Gardens Oakland, 638 21st Oakland CA 94612

Bill to:
Accounts Payable
P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610

Requested TAT: 2 days

Date Received: 05/23/2014
Date Printed: 05/23/2014

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1405960-001	USTPIT WATER 1	Water	5/23/2014 9:00	☐	B											
1405960-001	USTPIT WATER1	Water	5/23/2014 9:00	☐		A										

Test Legend:

1	8260B_W	2	G-MBTEX_W	3		4		5	
6		7		8		9		10	
11		12							

The following SampID: 001A contains testgroup.

Prepared by: Shana Carter

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL
Project: #0553; Cathedral Gardens Oakland, 638 21st Oakland CA 9
Comments:

QC Level: LEVEL 2
Client Contact: Paul King
Contact's Email: lab@pdenviro.com

Work Order: 1405960
Date Received: 5/23/2014

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1405960-001A	USTPIT WATER1	Water	Multi-Range TPH(g,d,mo)	4	VOA w/ HCl	☐	5/23/2014 9:00	2 days	Present	☐	
1405960-001B	USTPIT WATER 1	Water	SW8260B (VOCs)	4	VOA w/ HCl	☐	5/23/2014 9:00	2 days	Present	☐	

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:
VOA w/ HCl = 43mL VOA w/ HCl

1905960

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

P&D ENVIRONMENTAL, INC.

55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0553

PROJECT NAME: Cathedral Gardens Oakland, 638 21st St, Oakland, CA 94612

SAMPLED BY: (PRINTED & SIGNATURE) Heena Dhawan Heena Dhawan

RUSH

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS(ES): TPH-G, K, DRO, MO, SS	EPA 8260	PRESERVATIVE	REMARKS
UST PIT WATER1	5/23/14	0900	H_2O		8	X	X	TCE	3 day TAT

RELINQUISHED BY: (SIGNATURE) Heena Dhawan — DATE 5/23/14 — TIME 1645 — RECEIVED BY: (SIGNATURE)

RELINQUISHED BY: (SIGNATURE) — DATE 5/24/14 — TIME 0830 — RECEIVED BY: (SIGNATURE) Shana Carter — 5/24/14 18:30

RELINQUISHED BY: (SIGNATURE) — DATE — TIME — RECEIVED FOR LABORATORY BY: (SIGNATURE)

Total No. of Samples (This Shipment): 1
Total No. of Containers (This Shipment): 8

LABORATORY: McCampbell Analytical, Inc

LABORATORY CONTACT: Angela Rydelius

LABORATORY PHONE NUMBER: (877) 252-9262

SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES (X) NO

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS: All VOAs preserved w/ HCl

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name: **P & D Environmental** Date and Time Received: **5/23/2014 8:17:39 PM**

Project Name: **#0553; Cathedral Gardens Oakland, 638 21st Oakland CA 9** LogIn Reviewed by: Shana Carter

WorkOrder N°: **1405960** Matrix: Water Carrier: Rob Pringle (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp:		NA ☑
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: pH<2; 522: pH<4)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☐	No ☑	

** NOTE: If the "No" box is checked, see comments below.*

Comments: