Xtra OIL COMPANY
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September 30, 2014

RECEIVED
By Alameda County Environmental Health at 2:06 pm, Oct 01, 2014

Ms. Karel Detterman
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

SUBJECT: SUBSURFACE INVESTIGATION REPORT CERTIFICATION
(F1, D1 THROUGH D6, B1 THROUGH B7)
County LOP Case Number RO 0002990
Auto Depot
4171 Broadway
Oakland, California

Dear Ms. Detterman**:**

You will find enclosed one copy of the following draft document prepared by P&D Environmental, Inc. for the subject site

- Subsurface Investigation Report dated September 30, 2014 (document 0398.R1).

I declare under penalty of perjury that the contents and conclusions in the document are true and correct to the best of my knowledge.

Should you have any questions, please do not hesitate to contact me at (510) 865-9506.

Sincerely,

Xtra Oil Company

Keith Simas

Enclosure

0398.L3

P&D ENVIRONMENTAL, INC.

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

September 30, 2014
Report 0398.R1

Mr. Ted Simas
Mr. Keith Simas
Xtra Oil Company
2307 Pacific Ave.
Alameda, CA 94501

SUBJECT: SUBSURFACE INVESTIGATION REPORT
(F1, D1 THROUGH D6, B1 THROUGH B7)
County LOP Case Number RO 0002990
Auto Depot/Xtra Oil
4171 Broadway
Oakland, California

Gentlemen:

P&D Environmental, Inc. (P&D) has prepared this report documenting investigation of former Underground Storage Tanks (USTs) at the subject site. The work scope included collection of soil samples from soil borings at UST fill ports, dispenser islands and UST pits, and locating former UST piping that remains at the subject site. This work was performed in accordance with P&D's Data Gap Evaluation and Subsurface Investigation Work Plan (document 0398.W1) dated August 4, 2014. The work plan was approved in an email from Ms. Karel Detterman of the Alameda County Department of Environmental Health (ACDEH) dated August 5, 2014. A Site Location Map (Figure 1) and a Site Plan (Figure 2) showing the location of the former USTs, fill ports, dispenser islands, UST piping, and sample collection locations are attached with this report.

The former UST fill ports, dispenser islands, UST pits, and the presence and extent of former UST piping were investigated and soil and groundwater samples were collected between August 19 and 22, 2014. All work was performed under the supervision of a professional geologist.

BACKGROUND

The site is presently used for vehicle parking by the adjacent car dealership. The site was previously operated as a retail gasoline station. Review of available documents for the site obtained at the ACDEH Local Oversight Program website, at the GeoTracker website, and in response to a request to the property owner for available documents related to USTs and subsurface investigation has identified the following document related to sample collection following removal of the site USTs.

- December 31, 1986 Removal and Disposal of One Underground Diesel Tank, Five Underground Gasoline Tanks, and One Underground Waste Oil Tank Report prepared by Aqua Science Engineers, Inc. (the report is 3 pages in length, consisting of a narrative, a site map showing sample collection locations, and a laboratory report).

A complete copy of the report is attached with P&D's August 4, 2014 Data Gap Evaluation and Subsurface Investigation Work Plan. The 1986 underground storage tank closure report described soil sample collection from the bottom of each UST pit as follows: two soil samples were collected from both ends of each of the four gasoline and the one diesel UST at a depth of approximately 12.0 feet below the ground surface (bgs), and one soil sample was collected beneath the former waste oil UST at a depth of approximately 8.0 feet bgs. The report does not mention encountering groundwater in any of the excavations, and does not mention sample collection or analysis associated with the UST piping or dispensers, or if the UST piping was removed.

All of the soil samples were analyzed as follows:

- The diesel UST pit soil samples (2) were analyzed for Total Petroleum Hydrocarbons (TPH) as Diesel,
- The gasoline UST pit soil samples (8) were analyzed for TPH as Gasoline (TPH-G), benzene, toluene, and total xylenes,
- The waste oil UST pit soil sample (1) was analyzed for TPH as Motor Oil (TPH-MO).

None of the samples were analyzed for methyl-tert-butyl ether (MTBE) or any other Volatile Organic Compounds (VOCs) including ethylbenzene, or for lead. The sample results are summarized in Table 1 attached with P&D's August 4, 2014 Data Gap Evaluation and Subsurface Investigation Work Plan.

FIELD ACTIVITIES

Prior to performing field activities, drilling permit W2014-0763 was obtained from the Alameda County Public Works Agency (ACPWA), access to the site access was scheduled with the tenant, drilling locations were marked with white paint, Underground Service Alert was notified for underground utility location, and a health and safety plan was prepared. Notification of the drilling dates and sampling dates was also provided to the ACDEH.

Underground UST Piping Locating

On August 19 and 20, 2014 IMX, Inc. of Oakland, California (IMX) personnel used a jackhammer to remove concrete surface cover material at the curbside fill ports, the dispenser islands, and at several areas identified during the UST piping survey in an effort to identify the locations of underground UST piping. An electrical signal was applied to the exposed piping and a magnetometer was used by to locate accessible UST system piping. In addition, in areas where the magnetometer was not successful in identifying the pipe trenches, exploratory excavation was performed to identify the locations of the UST piping trenches. The locations of subsurface piping identified during the investigation are shown on Figure 2.

Drilling Observation and Sample Collection

On August 19, 2014 IMX personnel hand augered using a 3.5-inch outside diameter stainless steel auger to a depth of either 4.0 or 4.5 feet below the ground surface (bgs) at locations F1 (located at the curbside UST fill ports) and D1 through D6 (located at each end of the former pump island dispensers). The hand augered boreholes at the former dispenser islands were hand

augered at locations where dispensers were formerly located based on the presence of dispenser-sized rectangular penetrations in the dispenser islands and the presence of piping within the dispenser island penetrations. The top of the dispenser islands were measured to be 4 inches above the surrounding concrete-covered ground surface, and the depths reported for boreholes at the dispenser islands are relative to the surrounding concrete-covered ground surface and not the top of the dispenser islands. The top of 6-inch diameter horizontal steel fill pipes were encountered at a depth of 1.5 feet bgs at the fill ports, and the top of 2-inch diameter horizontal steel and fiberglass pipes were encountered at a depth of 2.0 feet bgs at the dispenser islands, with the exception of location D1 where pipes were not encountered. The locations of the hand augered boreholes are shown in Figure 2.

The soil from the hand augered boreholes was logged in the field by P&D personnel in accordance with the Unified Soil Classification System (USCS) and geologic techniques, and was field screened with a photoionization detector (PID) equipped with a 10.6 eV bulb and that was calibrated with a 100 part per million (ppm) isobutylene standard. PID values were recorded on the boring logs. The soil from the hand augered boreholes was also field screened for odors, staining, and discoloration. The materials encountered in the hand augered borehole at the fill ports (F1) consisted of black silty clay to the total depth explored of 4.5 feet bgs. The materials encountered in the hand augered boreholes at the dispenser islands (D1 through D6) consisted of brown fine sand to a depth of 2.0 feet bgs, beneath which black or brown clay was encountered to the total depth explored of 4.0 feet bgs. Copies of the boring logs are attached as Appendix A.

The maximum PID values that were measured and petroleum hydrocarbon odors, staining, and discoloration that were observed in the soil from hand augered boreholes F1 and D1 through D6 were as follows:

- F1: No discoloration was observed, and a strong odor was associated with a maximum PID value of 918 ppm at 4.0 feet bgs.
- D1: No discoloration was observed, and a moderate odor was associated with a maximum PID value of 54 ppm at 4.0 feet bgs.
- D2: No discoloration was observed, and a strong odor was associated with a maximum PID value of 888 ppm at 4.0 feet bgs.
- D3: Discoloration was observed beginning at a depth of 4.0 feet bgs, and a strong odor was associated with a maximum PID value of 123 ppm at 4.0 feet bgs.
- D4: Discoloration was observed beginning at a depth of 3.5 feet bgs, and a moderate odor was associated with a maximum PID value of 65 ppm at 3.5 feet bgs.
- D5: No discoloration was observed, and a slight odor was associated with a maximum PID value of 9.2 ppm at 4.0 feet bgs.
- D6: No discoloration was observed, and a moderate odor was associated with a maximum PID value of 14.2 ppm at 4.0 feet bgs.

P&D personnel collected soil samples from the bottom of each hand augered borehole using a stainless steel sampler lined with a 2-inch diameter 6-inch long stainless steel tube that was driven by a slide hammer. Following sample collection the tube was removed from the sampler and the ends of the tube sequentially covered with aluminum foil and plastic endcaps. The samples were labeled and placed in a cooler with ice pending delivery to the laboratory. Chain of custody procedures were observed for all sample handling.

On August 22, 2104 P&D personnel returned to the site and oversaw drilling at locations B1 through B7 (see Figure 2) by Vironex, Inc. of Concord, California (Vironex) using Geoprobe direct push technology. Continuous cores were collected from each borehole using a Geoprobe Macrocore barrel sampler lined with transparent PVC sleeves at locations B1 through B7 to total depths of 15.5, 15.5, 15.5, 25.0, 21.0, 20.0, and 25.0 feet bgs, respectively.

The soil from the continuously cored boreholes was logged in the field in accordance with the USCS and geologic field techniques, and was field screened with a PID equipped with a 10.6 eV bulb and calibrated with a 100 ppm isobutylene standard. PID values were recorded on the boring logs. The soil from the continuous cores was also field screened for odors, staining, and discoloration. Elevated PID values were measured and petroleum hydrocarbon odors, staining, and discoloration were observed in the soil from continuously cored borehole B1 through B9 as follows:

- B1: Discoloration was observed between the depths of 7.0 and 12.0 feet bgs; and moderate to strong petroleum odors with associated PID values of 10.2 to 700 ppm were encountered between the depths of 6.0 and 15.5 feet bgs.
- B2: No discoloration was observed and slight petroleum odors with associated PID values of 1.5 to 7.4 ppm were encountered between the depths of 1.0 to 11.0 feet bgs.
- B3: No discoloration was observed and moderate to strong petroleum odors with associated PID values of 64 to 161 ppm were encountered between the depths of 7.0 to 12.0 feet bgs.
- B4: No discoloration was observed and moderate to strong petroleum odors with associated PID values of 79 to 800 ppm were encountered between the depths of 7.0 to 9.0 feet bgs.
- B5: No discoloration was observed and moderate to strong petroleum odors with associated PID values of 11 to 1,050 ppm were encountered between the depths of 3.0 to 13.0 feet bgs.
- B6: Discoloration was observed between the depths of 5.0 to 15.0 feet bgs and moderate to strong petroleum odors with associated PID values of 10 to 1,080 ppm were encountered between the depths of 1.0 to 15.0 feet bgs.
- B7: No discoloration was observed and moderate to strong petroleum odors with associated PID values of 11.2 to 933 ppm were encountered between the depths of 3.0 to 12.0 feet bgs.

In boreholes B1 through B4 where former UST pits were investigated soil samples were retained for laboratory analysis at depths of 10.0 and 15.0 feet bgs. In addition, one additional soil sample from borehole B1 was retained for laboratory analysis at a depth of 12.0 feet bgs from the UST pit backfill based on the observed presence of free product on the water sample. In boreholes B5 through B7 where former dispensers were investigated soil samples were retained for laboratory analysis at depths of 5.0 and 10.0 feet bgs. In addition, one soil sample from borehole B7 was retained for laboratory analysis at a depth of 15.0 feet bgs based on the observed presence of elevated PID values at a depth of 10.0 feet bgs. The soil samples were retained for laboratory analysis by cutting a 6-inch long section of the transparent PVC containing core from the borehole sequentially covering the ends of the core with aluminum foil and plastic endcaps, labeling and then storing each tube in a cooler with ice pending delivery to the laboratory. Chain of custody procedures will be observed for all sample handling.

Fill was encountered in boreholes B1 through B3 to a depth of 11.0 or 12.0 feet bgs, and in borehole B4 to a depth of 5.5 feet bgs. Beneath the fill the subsurface materials encountered to the total depths explored of 15.5 to 25.0 feet bgs consisted of clay or sandy clay. Fill material was not encountered in boreholes B5 through B7 beneath the surface cover baserock. Beneath the surface cover material in boreholes B5 through B7 the subsurface materials consisted almost entirely of clay, silty clay, or sandy clay to the total depths explored of 21.0, 20.0 and 25.0 feet bgs, respectively, with coarse-grained material encountered in the boreholes as follows.

- B5: Gravelly clayey sand between the depths of 13.0 and 13.5 feet bgs.
- B6: Clayey sand between the depths of 14.0 and 15.0 feet bgs.
- B7: Gravelly clayey sand between the depths of 10.0 and 12.0 feet bgs.

Groundwater was encountered in continuously cored borehole B1 through B3 and B5 through B7 at a depth of at depths of 7.0, 7.0, 12.0, 20.0, 14.0, and 23.0 feet bgs, respectively during drilling on August 22, 2014. Following placement of temporary slotted 1-inch diameter PVC pipe into all of the boreholes, groundwater levels were subsequently measured in boreholes B1 through B3 and B5 through B7 after completion of drilling at depths of 7.4, 7.1, 12.1, 10.6, 13.9 and 7.5 feet bgs, respectively.

Groundwater was not encountered in continuously cored borehole B4 during drilling to a depth of 25.0 feet bgs on August 22, 2014. A temporary 1-inch diameter slotted PVC pipe was placed in the borehole and the casing was dry at the end of field activities on August 22, 2014. On August 23, 2014 groundwater was measured in borehole B4 at a depth of 21.3 feet bgs. Copies of the boring logs for the continuously cored boreholes are attached with this report as Appendix A.

One groundwater sample was collected from the temporary PVC pipe from each borehole using new polyethylene tubing and silicone tubing for each borehole and a peristaltic pump. Approximately 0.1 or 0.2 gallons was purged from each borehole prior to sample collection. Each groundwater sample was transferred to 40-milliliter Volatile Organic Analysis (VOA) vials directly from the discharge tubing. All of the VOA vials were supplied by the laboratory, contained hydrochloric acid preservative, and were sealed with screw caps containing Teflon-lined septa. The sample bottles were all overturned and tapped to ensure that no air bubbles were present, labeled, and placed in a cooler with ice pending delivery to the laboratory. Chain of custody procedures were observed for all sample handling.

At the time of groundwater sample collection free product was observed on the sample and strong petroleum odors were detected at borehole B1. In addition, strong odor was detected and sheen was observed during groundwater sample collection at boreholes B2 and B3. In the remaining boreholes no odor was detected and no sheen was observed during groundwater sample collection.

All drilling and sampling equipment was cleaned with an Alconox solution followed by a clean water rinse prior to use in each borehole. Following completion of logging and sample collection activities, the boreholes were filled with neat cement grout using the temporary PVC pipe as a tremie pipe on August 22, 2014 with the exception of borehole B4, which was filled using the same methods on August 23, 2014 following groundwater sample collection. All soil

generated during subsurface investigation was stored at the site in a labeled 55-gallon drum pending characterization and proper disposal.

GEOLOGY AND HYDROGEOLOGY

Based on review of regional geologic maps from U. S. Geological Survey Professional Paper 943, "Flatland Deposits - Their Geology and Engineering Properties and Their Importance to Comprehensive Planning," by E. J. Helley and K. R. Lajoie, 1979, the subject site is underlain by Late Pleistocene Alluvium (Qpa), which is described as weakly consolidated slightly weathered poorly sorted irregularly interbedded clay, silt, sand, and gravel.

Other than the former UST pit backfill materials, the subsurface materials encountered at the site in the boreholes consisted almost entirely of clay, silty clay, and sandy clay with the exception of one 0.5-foot thick or 1.0-foot thick layer of gravelly clayey sand or clayey sand that was encountered in three of the boreholes.

No groundwater monitoring wells are present at the site to provide historical groundwater level measurements or groundwater flow direction. On August 22, 2014 groundwater was encountered at the site during drilling of boreholes B1 through B3 and B5 through B7 at depths of 7.0, 7.0, 12.0, 20.0, 14.0, and 23.0 feet bgs, respectively, while groundwater was not encountered during drilling of borehole B4. Water levels were subsequently measured in boreholes B1 through B3 and B5 through B7 after completion of drilling at depths of 7.4, 7.1, 12.1, 10.6, 13.9 and 7.5 feet bgs, respectively. On August 23, 2014 groundwater was measured in borehole B4 at a depth of 21.3 feet bgs.

At 3943 Broadway, located approximately 1,000 feet south of the subject site, depth to water level measurements reported between November 2001 and June 2008 in 12 groundwater monitoring wells typically ranged between approximately 8 and 11 feet bgs, with most measurements between either 8 and 10 feet bgs or 9 and 11 feet bgs.

Based on water level measurements in the groundwater monitoring wells at 3943 Broadway, the groundwater flow direction calculated by others in the vicinity of the subject site has ranged from the west-southwest to the southwest. Nearby water surface bodies that are located downgradient from the subject property include Glen Echo Creek, located approximately 3,000 feet to the southeast of the site and Lake Merritt, approximately 7,200 feet to the south.

LABORATORY ANALYSIS

All of the soil and groundwater samples were analyzed at McCampbell Analytical, Inc. (McCampbell) of Pittsburg, California. All of the soil samples were analyzed for TPH-G using EPA Method 5030B in conjunction with modified EPA Method 8015B; for TPH-D and TPH-MO using EPA Method 3550B in conjunction with EPA Method 8015B; for Volatile Organic Compounds (VOCs), including methyl-tert-butyl ether (MTBE), benzene, toluene, ethylbenzene, and xylenes (MBTEX), and fuel oxygenates and lead scavengers, using EPA Method 8260B; and for total lead using EPA Method 3050B in conjunction with EPA Method 6010B. All of the groundwater samples were analyzed for TPH-G using EPA Method 5030B in conjunction with

modified EPA Method 8015B; for TPH-D and TPH-MO using EPA Method 3510C in conjunction with EPA Method 8015B; and for VOCs using EPA Method 8260B.

The former fill port and former fuel island dispenser soil sample results are summarized in Table 1, the borehole soil sample results are summarized in Table 2, and the borehole groundwater sample results are summarized in Table 3. Copies of the laboratory analytical reports are attached with this report as Appendix B. Site maps showing TPH-D, TPH-G, and benzene groundwater concentrations are attached with this report as Figures 3, 4 and 5, respectively.

DISCUSSION AND RECOMMENDATIONS

Review of Table 1 and Table 2 shows that MTBE was not detected in any of the soil samples, and that none of the detected concentrations of benzene, ethylbenzene, or naphthalene exceed their respective State Water Resources Control Board Low Threat Case Closure Policy (LTCP) Table 1 Concentrations of Petroleum Constituents in Soil That Will Have No Significant Risk of Adversely Affecting Human Health for commercial/industrial land use or for utility workers.

Review of Table 1 shows that the only detected concentrations in soil that exceed San Francisco Bay Regional Water Quality Control Board (RWQCB) December 2013 Table A-2 Environmental Screening Level (ESL) values for commercial/industrial land use were as follows:

- TPH-G, TPH-D, and TPH-MO in soil samples F1-4.5 (collected next to the former fill ports), and in samples D2-4.0, and D4-4.0 (collected at former dispenser islands),
- Ethylbenzene, total xylenes, and naphthalene in soil sample F1-4.5, and
- Benzene in soil sample D3-4.0.

Review of Table 2 shows that the only detected concentrations in soil that exceeded RWQCB December 2013 Table A-2 ESL values for commercial/industrial land use were as follows:

- TPH-G, TPH-D, and TPH-MO in borehole soil sample B1-10.0,
- TPH-D in borehole soil sample B3-10.0,
- Benzene in borehole soil sample B5-10.0,
- Naphthalene in borehole soil samples B6-5.0 and B6-10.0, and
- Total xylenes in borehole soil sample B6-10.0.

Review of Table 3 shows that MTBE was not detected in any of the groundwater samples and that the only detected groundwater concentration that exceeded LTCP groundwater-specific criteria for scenarios 2 and 4 was benzene in groundwater sample B6-W. The detected groundwater concentrations exceeding their respective RWQCB December 2013 Table F-1a groundwater ESLs were as follows:

- TPH-G at all locations,
- TPH-D, at all locations except B4,
- TPH-MO at locations B1, B2 and B3,
- Benzene at all locations except B1 and B2,
- Toluene at locations B1 and B6,

- Ethylbenzene at all locations except B2 and B4, and
- naphthalene at all locations except B4.

Review of Table 3 also shows that groundwater concentrations exceeding their respective RWQCB December 2013 Table E-1 groundwater ESL values for evaluation of potential vapor intrusion for a fine-coarse mix for commercial land use were as follows:

- Naphthalene at location B1, and
- Benzene at locations B3 and B6.

Although acetone, Methyl Ethyl Ketone (MEK), ter-Butyl alcohol (TBA) and Methyl Butyl Ketone (MBK) were all detected in the groundwater sample collected from adjacent to the former waste oil UST pit, none of these analytes were detected at concentrations exceeding their respective Table F-1a groundwater ESL values or Table E-1 groundwater ESL values for evaluation of potential vapor intrusion for a fine-coarse mix for commercial land use (there is no Table F-1a ESL for MBK, and for Table E-1 the only ESL is for MEK).

Based on the presence of free product in borehole B1 in the former diesel UST pit, and based on the sample results, P&D recommends the following activities to further evaluate the presence and extent of subsurface petroleum hydrocarbons at the subject site (see Figures 3, 4 and 5):

- Drilling of boreholes B8 through B11 around the former diesel UST pit to first-encountered groundwater to evaluate the horizontal extent of free product detected in the former diesel UST pit. If free product is not detected in the boreholes during drilling, the boreholes will be left open overnight and evaluated the following day to determine if free product has accumulated in any of the boreholes. The free product will be evaluated using a steel tape and product-finding paste. Groundwater samples will be collected at proposed locations B8 and B9 to determine if there is evidence of offsite petroleum-impacted groundwater migration.
- Drilling of boreholes B12 and B13 for collection of groundwater grab samples to evaluate the horizontal extent of TPH-D and TPH-G in the vicinity of boreholes B6 and B7, and to determine if there is evidence of offsite petroleum-impacted groundwater migration at proposed location B13.
- Drilling of boreholes B14 and B15 for collection of groundwater grab samples to evaluate the horizontal extent of TPH-D and TPH-G in the vicinity of boreholes B7 and B3, and to determine if there is evidence of offsite petroleum-impacted groundwater migration at each of the proposed locations.
- Installation of soil gas well SG1 to a depth of 7 feet bgs with a 4-inch outside diameter hand auger and a 2-foot long filter pack interval for evaluation of potential vapor migration associated with benzene detected at location B3.
- All of the boreholes will be drilled and groundwater samples collected and analyzed in accordance with methods and procedures described in this report.
- The soil gas sample will be collected into a one-liter Summa canister and analyzed for TPH-G and VOCs including MBTEX using EPA Method TO-15 and for TPH-D and naphthalene using EPA Method TO-17 in accordance with Department of Toxic Substances Control April 2012 Advisory for Active Soil Gas Investigations.

DISTRIBUTION

A copy of this report will be uploaded to the County ftp website and to GeoTracker.

LIMITATIONS

This report was prepared solely for the use of the Xtra Oil Company. 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 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 boreholes 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 Former Fill Port and Former Dispenser Soil Sample Analytical Results
Table 2 - Summary of Borehole Soil Sample Analytical Results
Table 3 - Summary of Borehole Groundwater Sample Analytical Results

Figure 1 - Site Location Map
Figure 2 - Site Map Showing Sample Collection Locations
Figure 3 - Site Map Showing TPH-D Concentrations in Groundwater
Figure 4 - Site Map Showing TPH-G Concentrations in Groundwater
Figure 5 - Site Map Showing Benzene Concentrations in Groundwater

Appendix A - Soil Boring Logs
Appendix B - Laboratory Analytical Reports and Chain of Custody Documentation

PHK/sjc/mlbd
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TABLES

Table 1
Summary of Former Fill Port and Former Dispenser Soil Sample Analytical Results

Sample ID	Sample Collection Date	Sample Collection Depth (ft bgs)	TPH-G	TPH-D	TPH-MO	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	Other VOCs by EPA Method 8260B	Total Lead
F1-4.5	8/19/2014	4.5	**670, a,b**	**570, d**	**110, d**	ND<1.0	ND<1.0	ND<1.0	**3.8**	**3.4**	ND except, Naphthalene = **7.0**, Isopropylbenzene = 1.7, n-Propyl benzene = 5.9, 1,2,4-Trimethylbenzene = 22, 1,3,5-Trimethylbenzene = 3.7	13
D1-4.0	8/19/2014	4.0	14	11, e	ND<25	ND<0.0050	0.0064	ND<0.0050	0.029	ND<0.0050	ND except, Naphthalene = 0.056, PCE = 0.0081, n-Butyl benzene = 0.059, sec-Butyl benzene = 0.022, Isopropylbenzene = 0.035, n-Propyl benzene = 0.13	6.2
D2-4.0	8/19/2014	4.0	**370**	**720**	**390**	ND<0.10	ND<0.10	ND<0.10	0.39	ND<0.10	ND except, n-Butyl benzene = 0.75, sec-Butyl benzene = 0.35, Isopropylbenzene = 0.73, n-Propyl benzene = 2.3	6.1
D3-4.0	8/19/2014	4.0	20	12, d,e,f	8.5, d,e,f	ND<0.025	**0.079**	ND<0.025	0.23	ND<0.025	ND except, Naphthalene = 0.42, n-Butyl benzene = 0.095, sec-Butyl benzene = 0.030, Isopropylbenzene = 0.040, n-Propyl benzene = 0.16	8.3
D4-4.0	8/19/2014	4.0	**190, b,c**	**700, g**	**440, g**	ND<0.033	ND<0.033	ND<0.033	ND<0.033	ND<0.033	ND except, n-Butyl benzene = 0.30, sec-Butyl benzene = 0.16, Isopropylbenzene = 0.048, n-Propyl benzene = 0.078	8.5
D5-4.0	8/19/2014	4.0	4.8, b,c	12, e,f,h	9.4, e,f,h	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND except, n-Butyl benzene = 0.0097, sec-Butyl benzene = 0.0058, n-Propyl benzene = 0.0093	7.1
D6-4.0	8/19/2014	4.0	1.4, c	1.1, i	ND<5.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	All ND	9.0
LTCP	Commercial/Industrial						0-5' = 8.2		0-5' = 89		Naphthalene 0-5' = 45	
	Commercial/Industrial						5-10' = 12		5-10' = 134		Naphthalene 5-10' = 45	
	Utility Worker						0-10' = 14		0-10' = 314		Naphthalene 0-10' = 219	
ESL	shallow comm		500	110	500	0.023	0.044	2.9	3.3	2.3	Naphthalene = 1.2, PCE = 0.70, n-Butyl benzene = No Value, sec-Butyl benzene = No Value, Isopropylbenzene = No Value, n-Propyl benzene = No Value, 1,2,4-Trimethylbenzene = No Value, 1,3,5-Trimethylbenzene = No Value	320

NOTES:
TPH-G = Total Petroleum Hydrocarbons as Gasoline.
TPH-D = Total Petroleum Hydrocarbons as Diesel.
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil.
MTBE = Methyl tertiary-butyl ether.
VOCs = Volatile Organic Compounds.
PCE = Tetrachloroethene.
ft bgs = feet below ground surface.
ND = Not detected.
a = Laboratory Note: Heavier gasoline range compounds are significant (aged gasoline?).
b = Laboratory Note: No recognizable pattern.
c = Laboratory Note: Strongly aged gasoline or diesel range compounds are significant in the TPH-G chromatogram.
d = Laboratory Note: Gasoline range compounds are significant.
e = Laboratory Note: Diesel range compounds are significant; no recognizable pattern.
f = Laboratory Note: Oil range compounds are significant.
g = Laboratory Note: Aged diesel is significant.
h = Laboratory Note: Stoddard solvent/mineral spirit(?).
i = Laboratory Note: Diesel range compounds are significant; no recognizable pattern; and/or Stoddard solvent/mineral spirit(?).
LTCP = Low Threat Closure Policy, by State Water Resources Control Board, effective August 17, 2012, from Table 1 - Concentrations of Petroleum Constituents in Soil That Will Have No Significant Risk of Adversely Affecting Human Health. Commercial/Industrial and Utility Worker.
ESL = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated December 2013, from Table A-2 – Shallow Soil Screening Levels, groundwater is a current or potential drinking water resource. Commerical/Industrial Land Use.
Hi-lighted depths include the interval 0.0-5.0 feet.
Results in bold exceed their respective ESL values.
Results, ESL values, and LTCP values reported in mg/kg (milligrams per kilogram), unless otherwise indicated.

Table 2
Summary of Borehole Soil Sample Analytical Results

Sample ID	Sample Collection Date	Sample Collection Depth (ft bgs)	TPH-G	TPH-D	TPH-MO	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	Other VOCs by EPA Method 8260B	Total Lead
B1-10.0	8/22/2014	10.0	**560, b,c**	**3,700**	**2,000**	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND except, n-Butyl benzene = 6.6, sec-Butyl benzene = 2.5, Isopropylbenzene = 4.8, n-Propyl benzene = 15	5.3
B1-12.0	8/22/2014	12.0	2.4, c	4.3, i	ND<5.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND except, n-Butyl benzene = 0.016, 1,2,4-Trimethylbenzene = 0.060, 1,3,5-Trimethylbenzene = 0.014	5.0
B1-15.0	8/22/2014	15.0	2.8, c	3.3, i	ND<5.0	ND<0.0050	ND<0.0050	ND<0.0050	0.0074	0.068	ND except, Naphthalene = 0.023, n-Butyl benzene = 0.021, n-Propyl benzene = 0.011 1,2,4-Trimethylbenzene = 0.12, 1,3,5-Trimethylbenzene = 0.024	ND<5.0
B2-10.0	8/22/2014	10.0	4.9, c	24, c,e	40, c,e	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	All ND	6.9
B2-15.0	8/22/2014	15.0	ND<1.0	ND<1.0	ND<5.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	All ND	10.4
B3-10.0	8/22/2014	10.0	99	**160, c,e**	120, c,e	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND except, n-Butyl benzene = 0.70, sec-Butyl benzene = 0.24, n-Propyl benzene = 1.2, Isopropylbenzene = 0.35	6.6
B3-15.0	8/22/2014	15.0	ND<1.0	1.5, c,e,j	6.2, c,e,j	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	All ND	10.3
B4-10.0	8/22/2014	10.0	6.5	22, b,c	94, b,c	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND except, n-Propyl benzene = 0.0063	17
B4-15.0	8/22/2014	15.0	ND<1.0	ND<1.0	ND<5.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	All ND	5.1
B5-5.0	8/22/2014	5.0	3.7	2.8, b,c	5.1, b,c	ND<0.0050	0.010	ND<0.0050	0.020	ND<0.0050	ND except, Naphthalene = 0.12, n-Butyl benzene = 0.0089, n-Propyl benzene = 0.015,	6.1
B5-10.0	8/22/2014	10.0	45	4.1, f	ND<5.0	ND<0.0050	**0.13**	0.0095	0.090	0.18	ND except, Naphthalene = 0.046, MEK = 0.023 n-Propyl benzene = 0.026, Isopropylbenzene = 0.011, 1,2,4-Trimethylbenzene = 0.15, 1,3,5-Trimethylbenzene = 0.036	5.9
B6-5.0	8/22/2014	5.0	81	17, k	ND<5.0	ND<0.050	ND<0.050	ND<0.050	0.37	ND<0.050	ND except, Naphthalene = **1.7**, n-Butyl benzene = 0.19, sec-Butyl benzene = 0.053, n-Propyl benzene = 0.31, Isopropylbenzene = 0.077	8.9
B6-10.0	8/22/2014	10.0	180	30, b,c,d	8.0, b,c,d	ND<0.20	ND<0.20	0.23	2.8	**11**	ND except, Naphthalene = **1.8**, n-Butyl benzene = 0.46, n-Propyl benzene = 0.87, Isopropylbenzene = 0.25, 1,2,4-Trimethylbenzene = 4.3, 1,3,5-Trimethylbenzene = 1.2	7.6
B7-5.0	8/22/2014	5.0	ND<1.0	ND<1.0	ND<5.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	All ND	7.9
B7-10.0	8/22/2014	10.0	120, b,c	31, k	ND<5.0	ND<0.20	ND<0.20	ND<0.20	0.029	ND<0.20	ND except, n-Butyl benzene = 0.13, sec-Butyl benzene = 0.030, n-Propyl benzene = 0.35, Isopropylbenzene = 0.12, 1,2,4-Trimethylbenzene = 0.12, 1,3,5-Trimethylbenzene = 0.031	7.1
B7-15.0	8/22/2014	15.0	ND<1.0	1.6, e	ND<5.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	All ND	5.1
LTCP	Commercial/Industrial						0-5' = 8.2		0-5' = 89		Naphthalene 0-5' = 45	
	Commercial/Industrial						5-10' = 12		5-10' = 134		Naphthalene 5-10' = 45	
	Utility Worker						0-10' = 14		0-10' = 314		Naphthalene 0-10' = 219	
ESL	shallow comm		500	110	500	0.023	0.044	2.9	3.3	2.3	Naphthalene = 1.2, PCE = 0.70, MEK = 4.5, n-Butyl benzene = No Value, sec-Butyl benzene = No Value, Isopropylbenzene = No Value, n-Propyl benzene = No Value, 1,2,4-Trimethylbenzene = No Value, 1,3,5-Trimethylbenzene = No Value	320

NOTES:
TPH-G = Total Petroleum Hydrocarbons as Gasoline.
TPH-D = Total Petroleum Hydrocarbons as Diesel.
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil.
MTBE = Methyl tertiary-butyl ether.
VOCs = Volatile Organic Compounds.
PCE = Tetrachloroethene.
MEK = Methyl ethyl ketone (2-Butanone).
ft bgs = feet below ground surface.
ND = Not detected.
a = Laboratory Note: Heavier gasoline range compounds are significant (aged gasoline?).
b = Laboratory Note: No recognizable pattern.
c = Laboratory Note: Strongly aged gasoline or diesel range compounds are significant in the TPH-G chromatogram.
d = Laboratory Note: Gasoline range compounds are significant.
e = Laboratory Note: Diesel range compounds are significant; no recognizable pattern.
f = Laboratory Note: Oil range compounds are significant.
g = Laboratory Note: Aged diesel is significant.
h = Laboratory Note: Stoddard solvent/mineral spirit(?).
i = Laboratory Note: Diesel range compounds are significant; no recognizable pattern; and/or Stoddard solvent/mineral spirit(?).
j = Laboratory Note: One to a few isolated peaks present in the TPH-D/TPH-MO chromatogram.
k = Laboratory Note: Gasoline range compounds are significant; and/or Stoddard solvent/mineral spirit(?).
LTCP = Low Threat Closure Policy, by State Water Resources Control Board, effective August 17, 2012, from Table 1 - Concentrations of Petroleum Constituents in Soil That Will Have No Significant Risk of Adversely Affecting Human Health. Commercial/Industrial and Utility Worker.
ESL = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated December 2013, from Table A-2 – Shallow Soil Screening Levels, groundwater is a current or potential drinking water resource. Commerical/Industrial Land Use.
Hi-lighted depths include the interval 0.0-10.0 feet.
Results in bold exceed their respective ESL values.
Results, ESL values, and LTCP values reported in mg/kg (milligrams per kilogram), unless otherwise indicated.

Table 3
Summary of Borehole Groundwater Sample Analytical Results

Sample ID	Sample Collection Date	TPH-G	TPH-D	TPH-MO	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	Other VOCs by EPA Method 8260B
B1-W	8/22/2014	**170,000, a,b**	**1,600,000, b,c,d**	**79,000, b,c,d**	ND<500	ND<500	**2,900**	**2,000**	**14,000**	ND, except Naphthalene = **4,000**, n-Propyl benzene = 740, 1,2,4-Trimethylbenzene = 6,700, 1,3,5-Trimethylbenzene = 1,500
B2-W	8/22/2014	**870**	**810, c,d,e**	**800, c,d,e**	ND<5.0	ND<5.0	5.1	12	**110**	ND, except Naphthalene = **210**, n-Propyl benzene = 17, 1,2,4-Trimethylbenzene = 210, 1,3,5-Trimethylbenzene = 42
B3-W	8/22/2014	**13,000**	**9,100, c**	**840, c**	ND<17	**450**	ND<17	**140**	ND<17	ND, except Naphthalene = **380**, n-Butyl benzene = 50, sec-Butyl benzene = 17, Isopropylbenzene = 120, n-Propyl benzene = 300
B4-W	8/23/2014	**480**	63, d	ND<250	ND<0.50	**15**	ND<0.50	3.0	ND<0.50	ND, except Naphthalene = 1.6, Acetone = 46, MEK = 14, TBA = 5.0, MBK = 1.5, Isopropylbenzene = 1.1, n-Propyl benzene = 2.3
B5-W	8/22/2014	**1,900**	**400, c**	ND<500	ND<5.0	**88**	ND<5.0	**58**	**53**	ND, except Naphthalene = **18**, n-Propyl benzene = 11, 1,2,4-Trimethylbenzene = 37, 1,3,5-Trimethylbenzene = 8.5
B6-W	8/22/2014	**33,000**	**3,100, c**	ND<250	ND<100	***5,500***	**200**	**1,700**	**2,400**	ND, except Naphthalene = **630**, MEK = 440, n-Propyl benzene = 180, 1,2,4-Trimethylbenzene = 610, 1,3,5-Trimethylbenzene = 140
B7-W	8/22/2014	**6,100**	**4,100, c**	ND<250	ND<2.5	**8.4**	ND<2.5	**30**	7.1	ND, except Naphthalene = **19**, sec-Butyl benzene = 2.9, Isopropylbenzene = 25, n-Propyl benzene = 58, 1,2,4-Trimethylbenzene = 17, 1,3,5-Trimethylbenzene = 4.3
LTCP	Scenario 2	None	None	None	1,000	3,000	None	None	None	None
Groundwater Specific Criteria	Scenario 4	None	None	None	1,000	1,000	None	None	None	None
ESL[1]		100	100	100	5.0	1.0	40	30	20	Naphthalene = 6.1, Acetone = 1,500, MEK = 4,900, TBA = 12, MBK = No Value, n-Butyl benzene = No Value, sec-Butyl benzene = No Value, Isopropylbenzene = No Value, n-Propyl benzene = No Value, 1,2,4-Trimethylbenzene = No Value, 1,3,5-Trimethylbenzene = No Value
ESL[2]		No Value	No Value	No Value	100,000	270	No Value	3,100	No Value	Naphthalene = 1,600, Acetone = Sample Soil Gas, MEK = 200,000,000, TBA = No Value, MBK = No Value, n-Butyl benzene = No Value, sec-Butyl benzene = No Value, Isopropylbenzene = No Value, n-Propyl benzene = No Value, 1,2,4-Trimethylbenzene = No Value, 1,2,4-Trimethylbenzene = No Value

Table 3
Summary of Borehole Groundwater Sample Analytical Results

NOTES:
TPH-G = Total Petroleum Hydrocarbons as Gasoline.
TPH-D = Total Petroleum Hydrocarbons as Diesel.
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil.
MTBE = Methyl tertiary-butyl ether.
VOCs = Volatile Organic Compounds.
MEK = Methyl Ethyl Ketone (2-Butanone).
TBA = tert-Butyl alcohol.
MBK = Methyl Butyl Ketone (2-hexanone).
ND = Not detected.
a = Laboratory Note: Heavier gasoline range compounds are significant (aged gasoline?).
b = Laboratory Note: Lighter than water immiscible sheen/product present.
c = Laboratory Note: Gasoline range compounds are significant.
d = Laboratory Note: Diesel range compounds are significant; no recognizable pattern.
e = Laboratory Note: Oil range compounds are significant.
LTCP = Low Threat Closure Policy, developed by State Water Resources Control Board , effective August 17, 2012, from Groundwater Specific Criteria Scenarios 2 and 4.
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. Commercial/Industrial Land Use.
Results in bold exceed their respective ESL[1] values.
Underlined results exceed their respective ESL[2] values.
Italicised results exceed their respective LTCP values.
Results, ESL values, and LTCP values reported in µg/L (micrograms per Liter), unless otherwise indicated.

FIGURES

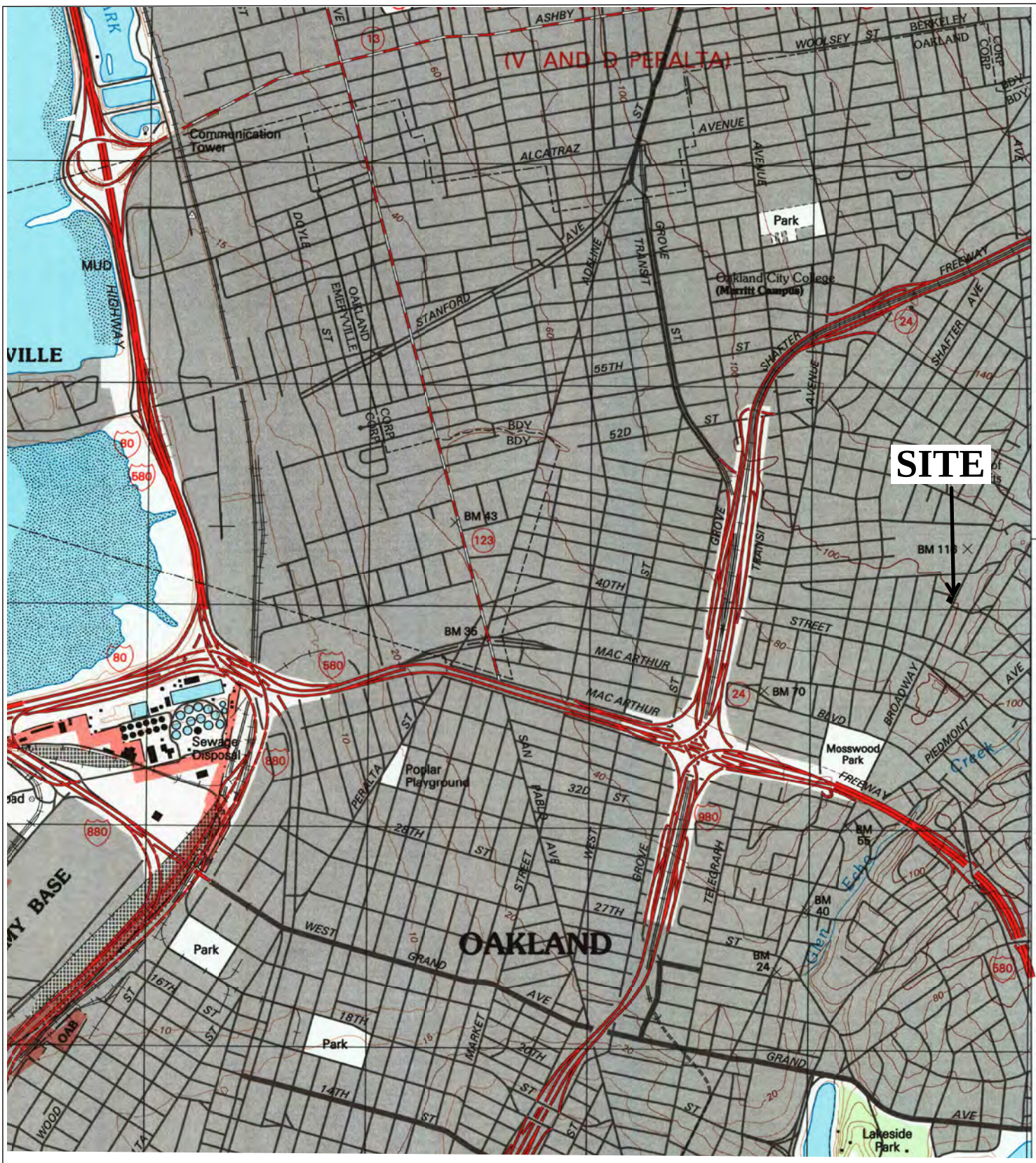

Figure 1
Site Location Map
Auto Depot
4171 Broadway
Oakland, California

Base Map From:
US Geological Survey Oakland West, California 7.5-Minute Quadrangles
Map updated 1996

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

0 1000 2000
Approximate Scale in Feet

N

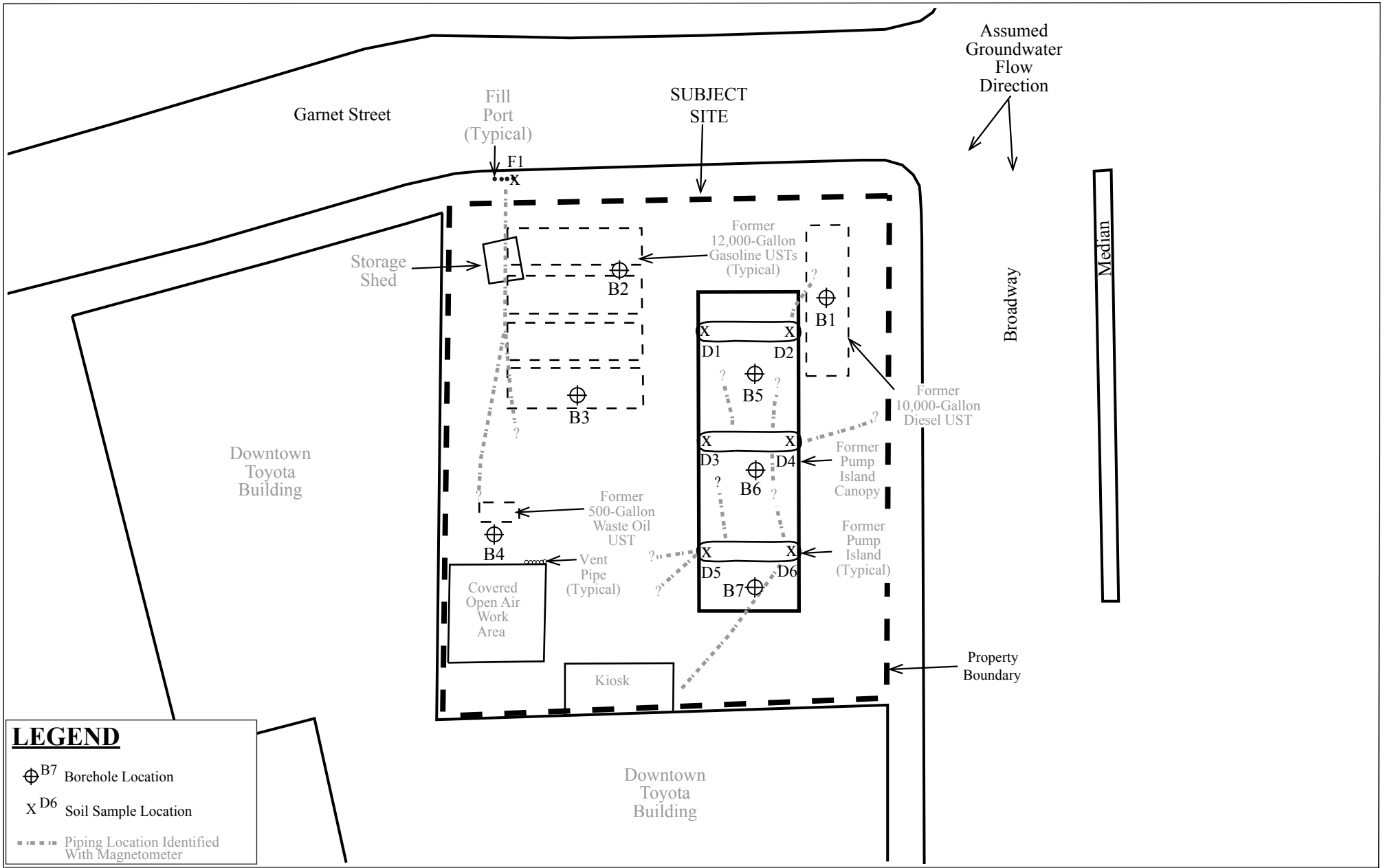

Figure 2
Site Map Showing Sample Collection Locations
Auqua Depot
4171 Broadway
Oakland, California

Base Map from:
Auqua Science Engineers, Inc., dated 12/31/1986,
Google Earth, 2014

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

0 15 30
Approximate Scale in Feet

N

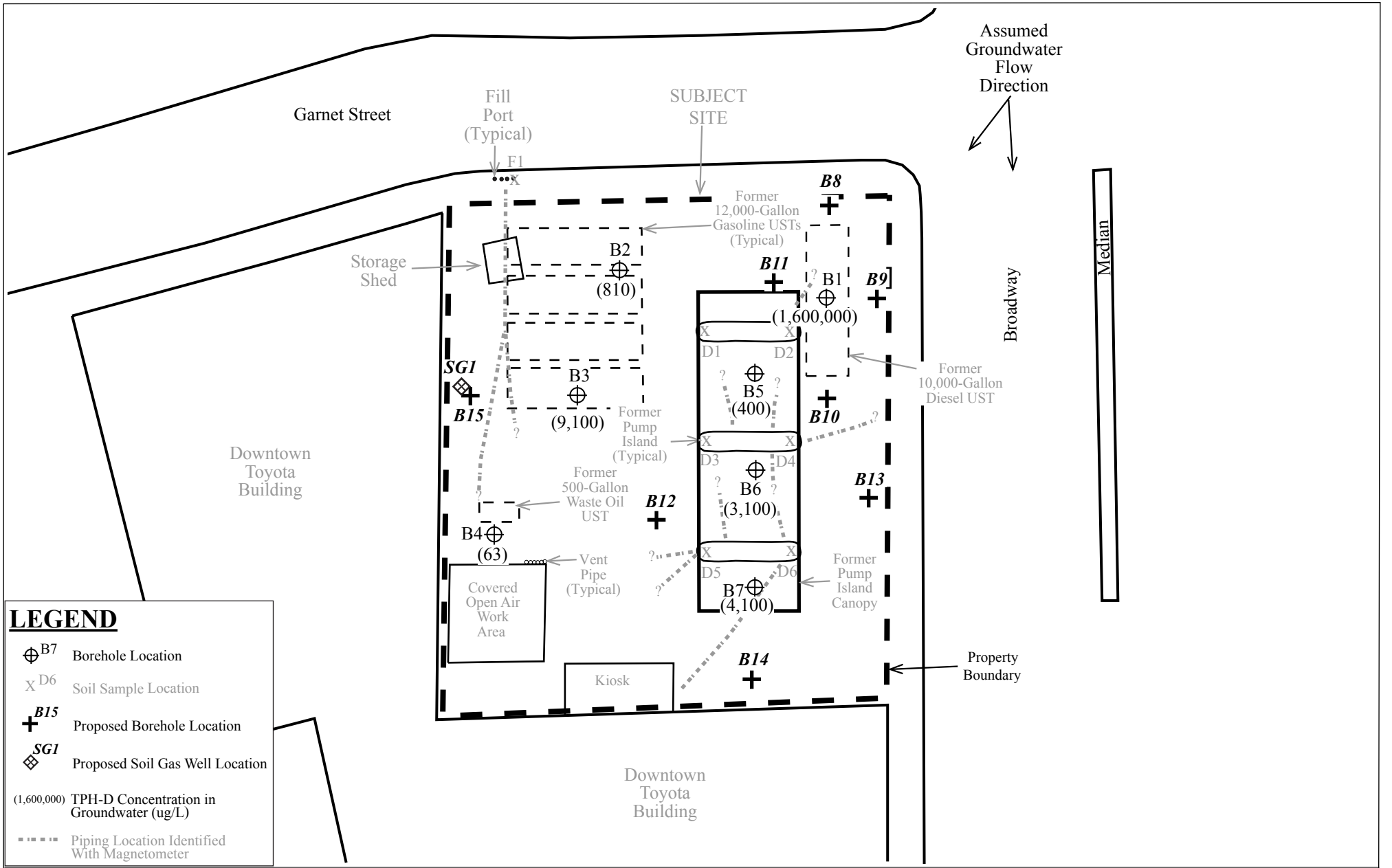

Figure 3
Site Map Showing Sample Collection Locations and TPH-D Concentrations in Groundwater
Auto Depot
4171 Broadway
Oakland, California

Base Map from: Auqua Science Engineers, Inc., dated 12/31/1986, Google Earth, 2014	P&D Environmental, Inc. 55 Santa Clara Avenue, Suite 240 Oakland, CA 94610	0 15 30 Approximate Scale in Feet N

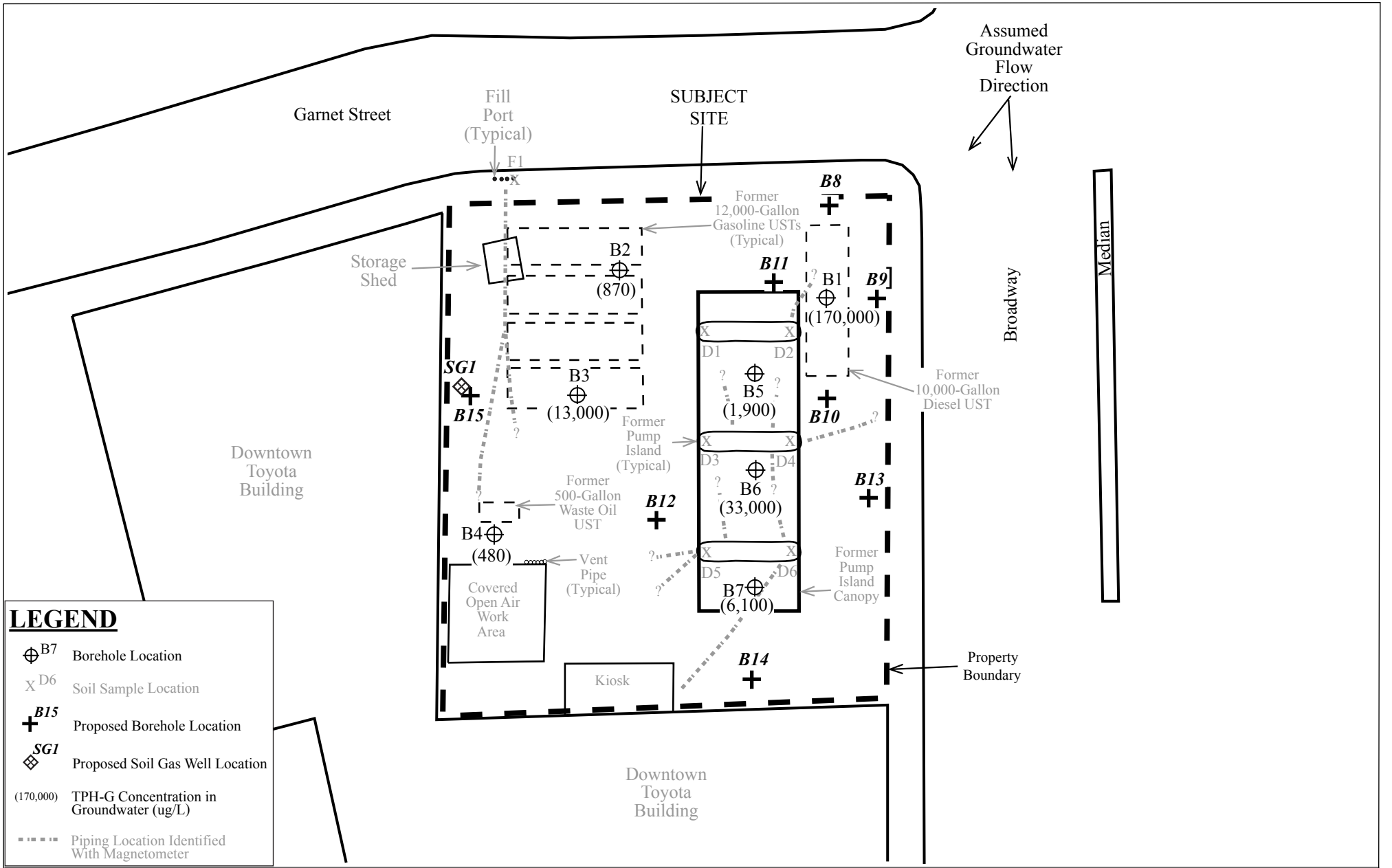

Figure 4
Site Map Showing Sample Collection Locations and TPH-G Concentrations in Groundwater
Auto Depot
4171 Broadway
Oakland, California

Base Map from: Auqua Science Engineers, Inc., dated 12/31/1986, Google Earth, 2014	P&D Environmental, Inc. 55 Santa Clara Avenue, Suite 240 Oakland, CA 94610	0 15 30 Approximate Scale in Feet N

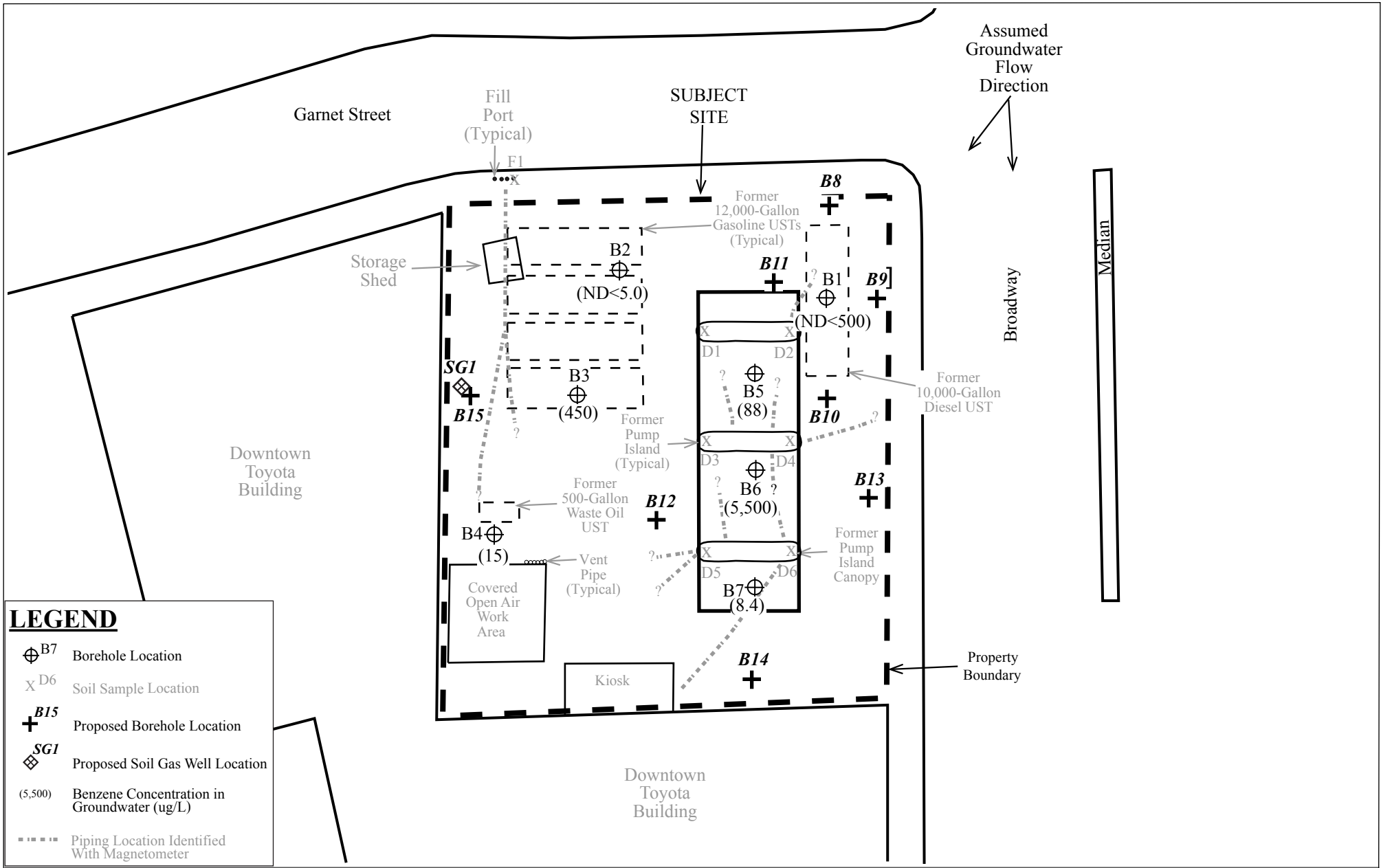

Figure 5
Site Map Showing Sample Collection Locations and Benzene Concentrations in Groundwater
Auto Depot
4171 Broadway
Oakland, California

Base Map from: Auqua Science Engineers, Inc., dated 12/31/1986, Google Earth, 2014	P&D Environmental, Inc. 55 Santa Clara Avenue, Suite 240 Oakland, CA 94610	0 15 30 Approximate Scale in Feet N

APPENDIX A

Soil Boring Logs

P&D ENVIRONMENTAL, INC.

BORING NO.: B1	PROJECT NO.: 0398	PROJECT NAME: Auto Depot/Xtra Oil 4171 Broadway, Oakland	
BORING LOCATION: Approximately 22 ft. south and 14 ft. west of northeast corner of property		ELEVATION AND DATUM: None	
DRILLING AGENCY: Vironex, Inc.	DRILLER: John	DATE & TIME STARTED: 08/22/14 0950	DATE & TIME FINISHED: 08/22/14 1700
DRILLING EQUIPMENT: Geoprobe 6600			
COMPLETION DEPTH: 15.5 Feet	BEDROCK DEPTH: Not Encountered	LOGGED BY: MLBD	CHECKED BY:
FIRST WATER DEPTH: 7.0 Feet	NO. OF SAMPLES: 3 Soil, 1 Water		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.5 ft. Concrete (3-inches) and base rock.			No Well Constructed	0.3	Borehole was continuously cored from 0.0 to 15.5 ft. using a 5.0-foot long 2.0-inch O.D. Geoprobe Macrocore barrel sampler. The barrel sampler was lined with a 4.8-foot long 1.5-inch O.D. transparent PVC tube.
	0.5 to 3.0 ft. Brown fine sand (FILL); medium dense, moist. Slight Petroleum Hydrocarbon (PHC) odor.	FILL			10.2	0.0 to 5.0 ft. 3.2 ft. recovery 5.0 to 10.0 ft. 4.2 ft. recovery 10.0 to 15.5 ft. 4.8 ft. recovery
5	3.0 to 12.0 ft. Dark grayish-brown clayey sand (FILL); loose, saturated, with black discoloration from 7.0 to 12.0 ft. Strong PHC odor from 6.0 to 15.5 ft. (0,65,35) Wet at 6.5 ft. Saturated at 7.0 ft.			▽	266	Water encountered during drilling at 7.0 ft. at 1005. Temporary 1.0-inch diameter slotted PVC casing placed in borehole. Water level was measured at 7.6 ft. at 1030 and at 7.4 ft. at 1040.
10		X B1-10.0			700	Approximately 0.1-gallon purged from borehole prior to groundwater sample collection using new unused disposable polyethylene tubing attached to a peristaltic pump. Water sample B1-W collected at 1600 directly from the discharge tubing. Strong odor, sheen, and free product on sample. Water level subsequently measured at 7.9 ft. at 1623.
		X B1-12.0			409	
	12.0 to 15.0 ft. Brown clay (CL); stiff, moist to wet, with black mottling. Moderate to strong PHC odor. (0,0,100)	CL				
15		X B1-15.0			79	
20						Borehole grouted on 08/22/14 using neat cement grout and a tremie pipe. Mr. Steve Miller with Alameda County Public Works Agency gave verbal authorization to grout the borehole. <u>Drilling Notes:</u> 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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P&D ENVIRONMENTAL, INC.

BORING NO.: B2	PROJECT NO.: 0398	PROJECT NAME: Auto Depot/Xtra Oil 4171 Broadway, Oakland	
BORING LOCATION: Approximately 16 ft. south and 38 ft. east of northwest corner of property		ELEVATION AND DATUM: None	
DRILLING AGENCY: Vironex, Inc.	DRILLER: John	DATE & TIME STARTED: 08/22/14 1030	DATE & TIME FINISHED: 08/22/14 1700
DRILLING EQUIPMENT: Geoprobe 6600			
COMPLETION DEPTH: 15.5 Feet	BEDROCK DEPTH: Not Encountered	LOGGED BY: MLBD	CHECKED BY:
FIRST WATER DEPTH: 7.0 Feet	NO. OF SAMPLES: 2 Soil, 1 Water		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.5 ft. Concrete (3-inches) and base rock.			No Well Constructed	1.5	Borehole was continuously cored from 0.0 to 15.5 ft. using a 5.0-foot long 2.0-inch O.D. Geoprobe Macrocore barrel sampler. The barrel sampler was lined with a 4.8-foot long 1.5-inch O.D. transparent PVC tube.
	0.5 to 2.0 ft. Dark brown clayey fine sand (FILL); medium dense, moist. Slight Petroleum Hydrocarbon (PHC) odor. (0,80,20)	FILL				
5	2.0 to 9.0 ft. Brown fine sand (FILL); medium dense, moist to saturated. Slight PHC odor. (0,90,10) Wet at 6.5 ft. Saturated at 7.0 ft.			▼▽	7.4	0.0 to 5.0 ft. 4.2 ft. recovery 5.0 to 10.0 ft. 3.8 ft. recovery 10.0 to 15.5 ft. 4.8 ft. recovery Water encountered during drilling at 7.0 ft. at 1148. Temporary 1.0-inch diameter slotted PVC casing placed in borehole. Water level was measured at 7.2 ft. at 1200 and at 7.1 ft. at 1210.
	9.0 to 10.0 ft. Dark gray sandy clay (FILL).					
10	10.0 to 11.0 ft. Dark gray fine sand (FILL); loose, saturated. Slight PHC odor. (0,90,10)	X B2-10.0			2.3	Approximately 0.2-gallon purged from borehole prior to groundwater sample collection using new unused disposable polyethylene tubing attached to a peristaltic pump. Water sample B2-W collected at 1630 directly from the discharge tubing. Strong odor and sheen on sample. Water level subsequently measured at 7.9 ft. at 1650.
	11.0 to 15.0 ft. Brown sandy clay (CL); stiff, moist, with black mottling. No PHC odor. (0,20,80)	CL				
15		X B2-15.0			0	
						Borehole grouted on 08/22/14 using neat cement grout and a tremie pipe. Mr. Steve Miller with Alameda County Public Works Agency gave verbal authorization to grout the borehole. <u>Drilling Notes:</u> 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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P&D ENVIRONMENTAL, INC.

BORING NO.: B3	PROJECT NO.: 0398	PROJECT NAME: Auto Depot/Xtra Oil 4171 Broadway, Oakland	
BORING LOCATION: Approximately 44 ft. south and 29 ft. east of northwest corner of property		ELEVATION AND DATUM: None	
DRILLING AGENCY: Vironex, Inc.	DRILLER: John	DATE & TIME STARTED: 08/22/14 1230	DATE & TIME FINISHED: 08/22/14 1700
DRILLING EQUIPMENT: Geoprobe 6600			
COMPLETION DEPTH: 15.0 Feet	BEDROCK DEPTH: Not Encountered	LOGGED BY: MLBD	CHECKED BY:
FIRST WATER DEPTH: 12.0 Feet	NO. OF SAMPLES: 2 Soil, 1 Water		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.5 ft. Concrete (3-inches) and base rock.			No Well Constructed	2.5	Borehole was continuously cored from 0.0 to 15.5 ft. using a 5.0-foot long 2.0-inch O.D. Geoprobe Macrocore barrel sampler. The barrel sampler was lined with a 4.8-foot long 1.5-inch O.D. transparent PVC tube.
	0.5 to 5.0 ft. Dark brown sandy clay (FILL); medium stiff, moist. Slight Petroleum Hydrocarbon (PHC) odor. (0,20,80)	FILL			5.2	0.0 to 5.0 ft. 3.6 ft. recovery 5.0 to 10.0 ft. 4.6 ft. recovery 10.0 to 15.5 ft. 4.8 ft. recovery
5						
	5.0 to 12.0 ft. Dark gray clayey sand (FILL); medium dense, moist to saturated. Moderate to strong PHC odor from 7.0 to 12.0 ft. (0,75,25) Wet at 11.5 ft. Saturated at 12.0 ft.				64 161	Water encountered during drilling at 12.0 ft. at 1245. Temporary 1.0-inch diameter slotted PVC casing placed in borehole. Water level was measured at 12.5 ft. at 1310 and at 12.1 ft. at 1320.
10		X B3-10.0		▼ ▽	96	Approximately 0.1-gallon purged from borehole prior to groundwater sample collection using new unused disposable polyethylene tubing attached to a peristaltic pump. Water sample B3-W collected at 1615 directly from the discharge tubing. Strong odor and sheen on sample. Water level subsequently measured at 10.9 ft. at 1620.
	12.0 to 15.0 ft. Brown sandy clay (CL); stiff, moist, with black mottling. Slight to no PHC odor. (0,20,80)	CL			1.2	
15		X B3-15.0				
20						Borehole grouted on 08/22/14 using neat cement grout and a tremie pipe. Mr. Steve Miller with Alameda County Public Works Agency gave verbal authorization to grout the borehole. <u>Drilling Notes:</u> 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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P&D ENVIRONMENTAL, INC.

BORING NO.: B4	PROJECT NO.: 0398	PROJECT NAME: Auto Depot/Xtra Oil 4171 Broadway, Oakland	
BORING LOCATION: Approximately 42 ft. north and 11 ft. east of southwest corner of property		ELEVATION AND DATUM: None	
DRILLING AGENCY: Vironex, Inc.	DRILLER: John	DATE & TIME STARTED: 08/22/14 1525	DATE & TIME FINISHED: 08/23/14 1200
DRILLING EQUIPMENT: Geoprobe 6600			
COMPLETION DEPTH: 25.0 Feet	BEDROCK DEPTH: Not Encountered	LOGGED BY: MLBD	CHECKED BY:
FIRST WATER DEPTH: Not Encountered	NO. OF SAMPLES: 2 Soil, 1 Water		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.5 ft. Concrete (3-inches) and base rock.			No Well Constructed	0	Borehole was continuously cored from 0.0 to 15.0 ft. using a 5.0-foot long 2.0-inch O.D. Geoprobe Macrocore barrel sampler. The barrel sampler was lined with a 4.8-foot long 1.5-inch O.D. transparent PVC tube.
	0.5 to 3.0 ft. Brown fine sand (FILL); medium dense, moist. No Petroleum Hydrocarbon (PHC) odor. (0,90,10)	FILL				
	3.0 to 4.5 ft. Dark brown clay (FILL); medium stiff, moist. No PHC odor. (0,0,100)				0	0.0 to 5.0 ft. 3.8 ft. recovery 5.0 to 10.0 ft. 4.2 ft. recovery 10.0 to 15.0 ft. 4.8 ft. recovery 15.0 to 20.0 ft. 4.8 ft. recovery 20.0 to 25.0 ft. 4.8 ft. recovery
5	4.5 to 5.5 ft. Dark gray clayey sand (FILL); loose, wet. No PHC odor. (0,80,20)					
	5.5 to 9.0 ft. Dark grayish-brown silty clay (CL); medium stiff, moist. Moderate to strong PHC odor from 7.0 to 9.0 ft.	CL			79	Water not encountered during drilling. Temporary 1.0-inch diameter slotted PVC casing placed in borehole. Borehole was dry at 1530 and at 1700. Borehole temporarily capped with bentonite to allow for recharge over night.
					800	
	9.0 to 9.5 ft. Reddish-brown gravelly clay (CL); stiff, moist. Slight PHC odor. (30,10,60)					
10		X B4-10.0			6.3	Water level was measured on 8/23/14 at 21.3 ft. at 1131.
					3.4	Approximately 200-milliliters purged from borehole prior to groundwater sample collection using new unused disposable polyethylene tubing attached to a peristaltic pump. Water sample B4-W collected at 1145 directly from the discharge tubing. No odor or sheen on sample. Borehole dewatered after pumping an additional 150-milliliters.
15	9.0 to 23.0 ft. Brown sandy clay (CL); stiff, moist. Slight PHC odor from 10.0 to 12.0 ft. (0,20,80)	X B4-15.0			0	
						Borehole grouted on 08/23/14 using neat cement grout and a tremie pipe.
20				▼	0	Mr. Steve Miller with Alameda County Public Works Agency gave verbal authorization to grout the borehole.
	23.0 to 25.0 ft. Color change to olive-brown.					
					0	
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						Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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P&D ENVIRONMENTAL, INC.

BORING NO.: B5	PROJECT NO.: 0398	PROJECT NAME: Auto Depot/Xtra Oil 4171 Broadway, Oakland	
BORING LOCATION: Approximately 40 ft. south and 30 ft. west of northeast corner of property		ELEVATION AND DATUM: None	
DRILLING AGENCY: Vironex, Inc.	DRILLER: John	DATE & TIME STARTED: 08/22/14 0920	DATE & TIME FINISHED: 08/22/14 1700
DRILLING EQUIPMENT: Geoprobe 6600			
COMPLETION DEPTH: 21.0 Feet	BEDROCK DEPTH: Not Encountered	LOGGED BY: MLBD	CHECKED BY: PMK
FIRST WATER DEPTH: 20.0 Feet	NO. OF SAMPLES: 2 Soil, 1 Water		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.5 ft. Concrete (3-inches) and base rock.	FILL		No Well Constructed	1.5	Borehole was continuously cored from 0.0 to 15.0 ft. using a 5.0-foot long 2.0-inch O.D. Geoprobe Macrocore barrel sampler. The barrel sampler was lined with a 4.8-foot long 1.5-inch O.D. transparent PVC tube.
	0.5 to 3.0 ft. Black clay (CL); medium stiff, moist. Slight Petroleum Hydrocarbon (PHC) odor. (0,0,100)					
5	3.0 to 7.0 ft. Dark brown silty clay (CL); medium stiff, moist. Moderate to strong PHC odor. (0,0,100)	X B5-5.0			11	0.0 to 5.0 ft. 4.6 ft. recovery 5.0 to 10.0 ft. 4.8 ft. recovery 10.0 to 15.0 ft. 4.8 ft. recovery
		CL			25	Borehole was dry at 15.0ft; borehole pushed to 21.0 ft. at 1055.
						15.0 to 20.0 ft. 3.8 ft. recovery 20.0 to 25.0 ft. 1.8 ft. recovery
					1,050	
10	7.0 to 13.0 ft. Brown sandy clay (CL); medium stiff, moist, with orange and black mottling. Strong PHC odor from 7.0 to 13.5 ft. (0,20,80)	X B5-10.0		▼	784	Water encountered during drilling at 20.0 ft. at 1110. Temporary 1.0-inch diameter slotted PVC casing placed in borehole. Water level measured at 11.1 ft. at 1120, and at 10.6 ft. at 1130.
					186	Approximately 0.2-gallon purged from borehole prior to groundwater sample collection using new unused disposable polyethylene tubing attached to a peristaltic pump. Water sample B5-W collected at 1545 directly from the discharge tubing. No odor or sheen on sample. Water level subsequently measured at 14.6 ft. at 1556.
	13.0 to 13.5 ft. Brown gravelly clayey sand (SC); medium dense, moist, with abundant coarse angular gravel to 0.5-inch diameter. Strong PHC odor. (20,60,20)	SC				
15	13.5 to 21.0 ft. Brown sandy clay (CL); stiff, moist, with orange and black mottling. No PHC odor. (0,10,90)				1.2	
	20.0 to 21.0 Increase in fine sand content. (0,20,80)	CL				
	Wet at 19.5 ft. Saturated at 20.0 ft.			▽		
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25						Borehole grouted on 08/23/14 using neat cement grout and a tremie pipe. Mr. Steve Miller with Alameda County Public Works Agency gave verbal authorization to grout the borehole. <u>Drilling Notes:</u> 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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P&D ENVIRONMENTAL, INC.

BORING NO.: B6	PROJECT NO.: 0398	PROJECT NAME: Auto Depot/Xtra Oil 4171 Broadway, Oakland	
BORING LOCATION: Approximately 62 ft. south and 30 ft. west of northeast corner of property		ELEVATION AND DATUM: None	
DRILLING AGENCY: Vironex, Inc.	DRILLER: John	DATE & TIME STARTED: 08/22/14 0830	DATE & TIME FINISHED: 08/22/14 1700
DRILLING EQUIPMENT: Geoprobe 6600			
COMPLETION DEPTH: 20.0 Feet	BEDROCK DEPTH: Not Encountered	LOGGED BY: MLBD	CHECKED BY: PMK
FIRST WATER DEPTH: 14.0 Feet	NO. OF SAMPLES: 2 Soil, 1 Water		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.5 ft. Concrete (3-inches) and base rock.	FILL		No Well Constructed	10	Borehole was continuously cored from 0.0 to 20.0 ft. using a 5.0-foot long 2.0-inch O.D. Geoprobe Macrocore barrel sampler. The barrel sampler was lined with a 4.8-foot long 1.5-inch O.D. transparent PVC tube.
	0.5 to 4.0 ft. Black clay (CL); medium stiff, moist. Moderate Petroleum Hydrocarbon (PHC) odor. (0,0,100)				25	0.0 to 5.0 ft. 3.2 ft. recovery 5.0 to 10.0 ft. 4.8 ft. recovery 10.0 to 15.0 ft. 4.8 ft. recovery 15.0 to 20.0 ft. 4.8 ft. recovery
5		X B6-5.0			102	Water encountered during drilling at 14.0 ft. at 0835. Temporary 1.0-inch diameter slotted PVC casing placed in borehole. Water level measured at 14.4 ft. at 0923, and at 13.9 ft. at 0933.
	4.0 to 12.0 ft. Dark brown silty clay (CL); medium stiff, moist, with bluish-gray staining, and moderate to strong PHC odor from 5.0 to 12.0 ft. (0,0,100)	CL			140	
10		X B6-10.0			1,080	Approximately 0.1-gallon purged from borehole prior to groundwater sample collection using new unused disposable polyethylene tubing attached to a peristaltic pump. Water sample B6-W collected at 1515 directly from the discharge tubing. No odor or sheen on sample. Water level subsequently measured at 12.0 ft. at 1530.
	12.0 to 14.0 ft. Brown sandy clay (CL); stiff, moist, with bluish-gray staining. Strong PHC odor. (0,20,80) Wet at 13.5 ft. Saturated at 14.0 ft.			▼ ▽		
	14.0 to 15.0 ft. Bluish-gray clayey sand (SC); medium dense, wet, with bluish-gray staining. Strong PHC odor. (0,80,20)	SC			832	
15						
	15.0 to 20.0 ft. Brown sandy clay (CL); stiff, moist, with orange mottling. No PHC odor. (0,0,100)	CL			0.5	
					0	
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25						Borehole grouted on 08/22/14 using neat cement grout and a tremie pipe. Mr. Steve Miller with Alameda County Public Works Agency gave verbal authorization to grout the borehole. <u>Drilling Notes:</u> 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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P&D ENVIRONMENTAL, INC.

BORING NO.: B7	PROJECT NO.: 0398	PROJECT NAME: Auto Depot/Xtra Oil 4171 Broadway, Oakland	
BORING LOCATION: Approximately 27 ft. north and 30 ft. west of southeast corner of property		ELEVATION AND DATUM: None	
DRILLING AGENCY: Vironex, Inc.	DRILLER: John	DATE & TIME STARTED: 08/22/14 0730	DATE & TIME FINISHED: 08/22/14 1700
DRILLING EQUIPMENT: Geoprobe 6600			
COMPLETION DEPTH: 25.0 Feet	BEDROCK DEPTH: Not Encountered	LOGGED BY: MLBD	CHECKED BY: PMK
FIRST WATER DEPTH: 23.0 Feet	NO. OF SAMPLES: 3 Soil, 1 Water		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.5 ft. Concrete (3-inches) and base rock.	FILL		No Well Constructed	0	Borehole was continuously cored from 0.0 to 20.0 ft. using a 5.0-foot long 2.0-inch O.D. Geoprobe Macrocore barrel sampler. The barrel sampler was lined with a 4.8-foot long 1.5-inch O.D. transparent PVC tube.
	0.5 to 3.0 ft. Black clay (CL); medium stiff, moist. No Petroleum Hydrocarbon (PHC) odor. (0,0,100)	CL			2.1	0.0 to 5.0 ft. 4.8 ft. recovery 5.0 to 10.0 ft. 4.8 ft. recovery 10.0 to 15.0 ft. 4.8 ft. recovery 15.0 to 20.0 ft. 4.8 ft. recovery
5	3.0 to 10.0 ft. Dark brown silty clay (CL); medium stiff, moist. Moderate to Strong PHC odor from 6.5 to 10.0 ft. (0,0,100)	X B7-5.0		▼	24	Borehole was dry at 20.0 ft. at 0745; borehole pushed to 25.0 ft. at 1132.
					933	20.0 to 25.0 ft. 4.0 ft. recovery
10	10.0 to 12.0 ft. Brown gravelly clayey sand (SC); medium dense, moist, with abundant coarse angular gravel to 0.5-inch diameter. Strong PHC odor. (20,60,20)	X B7-10.0 SC			433	Water encountered during drilling at 23.0 ft. at 1155. Temporary 1.0-inch diameter slotted PVC casing placed in borehole. Water level measured at 7.8 ft. at 1200, and at 7.5 ft. at 1210.
					11.2	Approximately 0.2-gallon purged from borehole prior to groundwater sample collection using new unused disposable polyethylene tubing attached to a peristaltic pump. Water sample B7-W collected at 1335 directly from the discharge tubing. No odor or sheen on sample. Water level was subsequently measured at 10.2 ft. at 1500.
15	12.0 to 20.0 ft. Brown sandy clay (CL); stiff, moist, with orange mottling. Slight to no PHC odor. (0,20,80)	X B7-15.0			1.2	Borehole grouted on 08/22/14 using neat cement grout and a tremie pipe.
		CL				Mr. Steve Miller with Alameda County Public Works Agency gave verbal authorization to grout the borehole.
20	20.0 to 23.0 ft. Brown silty clay (CL); medium stiff, moist to wet, with black mottling. No PHC odor. (0,0,100) Wet at 22.5 ft. Saturated at 23.0 ft.			▽	0	
	23.0 to 25.0 ft. Brown sandy clay (CL); soft, saturated, with few coarse angular gravel to 0.25-inch diameter. No PHC odor. (5,25,70)				0	
25						Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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P&D ENVIRONMENTAL, INC.

BORING NO.: F1	PROJECT NO.: 0398	PROJECT NAME: Auto Depot/Xtra Oil 4171 Broadway, Oakland	
BORING LOCATION: Approximately 5 ft. north and 85 ft. west of northeast corner of property		ELEVATION AND DATUM: None	
DRILLING AGENCY: IMX, Inc.	DRILLER: Jose	DATE & TIME STARTED: 08/19/14 0950	DATE & TIME FINISHED: 08/20/14 1330
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger			
COMPLETION DEPTH: 5.0 Feet	BEDROCK DEPTH: Not Encountered	LOGGED BY: MLBD	CHECKED BY:
FIRST WATER DEPTH: Not Encountered	NO. OF SAMPLES: 1 Soil		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.3 ft. Concrete	FILL		No Well Constructed	7.9	Borehole was hand augered from 0.3 to 4.5 ft. using a 3.5-inch O.D. hand auger. Water was not encountered during augering. Soil sample collected using a stainless steel sampler lined with a stainless steel tube driven by a slide hammer.
	0.3 to 5.0 ft. Black silty clay (CL); stiff, moist. Strong Petroleum Hydrocarbon (PHC) odor at 4.0 ft. (0,0,100)	CL			918	
5	X F1-4.5				24	Borehole grouted on 08/20/14 using neat cement grout and a tremie pipe. No permit was required because the borehole was less than 5-feet deep. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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P&D ENVIRONMENTAL, INC.

BORING NO.: D1	**PROJECT NO.:** 0398	**PROJECT NAME:** Auto Depot/Xtra Oil 4171 Broadway, Oakland	
BORING LOCATION: Western end of nothernmost pump island		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: IMX, Inc.	**DRILLER:** Jose	**DATE & TIME STARTED:** 08/19/14 1630	**DATE & TIME FINISHED:** 08/20/14 1330
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger			
COMPLETION DEPTH: 4.5 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** MLBD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** 1 Soil		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.3 ft. Concrete			No Well Constructed		Borehole was hand augered from 0.3 to 4.0 ft. using a 3.5-inch O.D. hand auger.
	0.0 to 2.0 ft. Brown fine sand (FILL).	FILL				
	2.0 to 4.5 ft. Black clay (CL); stiff, moist. Slight to moderate Petroleum Hydrocarbon (PHC) odor. (0,0,100)	CL			5.2	Water was not encountered during augering.
	Color change to brown at 4.0 ft.	X D1-4.0			14.7 54	Soil sample collected using a stainless steel sampler lined with a stainless steel tube driven by a slide hammer.
5						Borehole grouted on 08/20/14 using neat cement grout and a tremie pipe.
						No permit was required because the borehole was less than 5-feet deep.
						Drilling Notes:
10						1) Field estimates of percent gravel, sand, and fines are shown in parentheses.
						2) Density determinations are qualitative and are not based on quantitative evaluation.
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P&D ENVIRONMENTAL, INC.

BORING NO.: D2	PROJECT NO.: 0398	PROJECT NAME: Auto Depot/Xtra Oil 4171 Broadway, Oakland	
BORING LOCATION: Eastern end of nothernmost pump island		ELEVATION AND DATUM: None	
DRILLING AGENCY: IMX, Inc.	DRILLER: Jose	DATE & TIME STARTED: 08/19/14 1615	DATE & TIME FINISHED: 08/20/14 1330
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger			
COMPLETION DEPTH: 4.5 Feet	BEDROCK DEPTH: Not Encountered	LOGGED BY: MLBD	CHECKED BY:
FIRST WATER DEPTH: Not Encountered	NO. OF SAMPLES: 1 Soil		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.3 ft. Concrete			No Well Constructed		Borehole was hand augered from 0.3 to 4.0 ft. using a 3.5-inch O.D. hand auger.
	0.3 to 2.0 ft. Brown fine sand (FILL).	FILL			768	Water was not encountered during augering.
	2.0 to 4.5 ft. Black clay (CL); stiff, moist. Strong Petroleum Hydrocarbon (PHC) odor.(0,0,100)	CL			857	Soil sample collected using a stainless steel sampler lined with a stainless steel tube driven by a slide hammer.
		X D2-4.0			888	
5						Borehole grouted on 08/20/14 using neat cement grout and a tremie pipe.
						No permit was required because the borehole was less than 5-feet deep.
						Drilling Notes:
10						1) Field estimates of percent gravel, sand, and fines are shown in parentheses.
						2) Density determinations are qualitative and are not based on quantitative evaluation.
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P&D ENVIRONMENTAL, INC.

BORING NO.: D3	PROJECT NO.: 0398	PROJECT NAME: Auto Depot/Xtra Oil 4171 Broadway, Oakland	
BORING LOCATION: Western end of center pump island		ELEVATION AND DATUM: None	
DRILLING AGENCY: IMX, Inc.	DRILLER: Jose	DATE & TIME STARTED: 08/19/14 1439	DATE & TIME FINISHED: 08/20/14 1330
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger			
COMPLETION DEPTH: 4.5 Feet	BEDROCK DEPTH: Not Encountered	LOGGED BY: MLBD	CHECKED BY:
FIRST WATER DEPTH: Not Encountered	NO. OF SAMPLES: 1 Soil		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.3 ft. Concrete 0.3 to 2.0 ft. Brown fine sand (FILL).	FILL		No Well Constructed		Borehole was hand augered from 0.3 to 4.0 ft. using a 3.5-inch O.D. hand auger.
	2.0 to 4.0 ft. Black clay (CL); stiff, moist. (0,0,100) Strong Petroleum Hydrocarbon (PHC) odor at 4.0 ft. Green staining from 4.0 to 4.5 ft.	CL X D3-4.0			14.9 9 123	Water was not encountered during augering. Soil sample collected using a stainless steel sampler lined with a stainless steel tube driven by a slide hammer.
5						Borehole grouted on 08/20/14 using neat cement grout and a tremie pipe. No permit was required because the borehole was less than 5-feet deep. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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P&D ENVIRONMENTAL, INC.

BORING NO.: D4	PROJECT NO.: 0398	PROJECT NAME: Auto Depot/Xtra Oil 4171 Broadway, Oakland	
BORING LOCATION: Eastern end of center pump island		ELEVATION AND DATUM: None	
DRILLING AGENCY: IMX, Inc.	DRILLER: Jose	DATE & TIME STARTED: 08/19/14 1450	DATE & TIME FINISHED: 08/20/14 1330
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger			
COMPLETION DEPTH: 4.5 Feet	BEDROCK DEPTH: Not Encountered	LOGGED BY: MLBD	CHECKED BY:
FIRST WATER DEPTH: Not Encountered	NO. OF SAMPLES: 1 Soil		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.3 ft. Concrete					
	0.3 to 2.0 ft. Brown fine sand (FILL).	FILL		No Well Constructed		Borehole was hand augered from 0.3 to 4.0 ft. using a 3.5-inch O.D. hand auger.
	2.0 to 4.0 ft. Black clay (CL); stiff, moist. (0,0,100) Slight to moderate Petroleum Hydrocarbon (PHC) odor and green staining at 3.5 ft.	CL			10 22.2 65 15.2	Water was not encountered during augering. Soil sample collected using a stainless steel sampler lined with a stainless steel tube driven by a slide hammer.
		X D4-4.0				
5						Borehole grouted on 08/20/14 using neat cement grout and a tremie pipe. No permit was required because the borehole was less than 5-feet deep. Drilling Notes: 1) Field estimates of percent gravel, sand, and fines are shown in parentheses. 2) Density determinations are qualitative and are not based on quantitative evaluation.
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P&D ENVIRONMENTAL, INC.

BORING NO.: D5	PROJECT NO.: 0398	PROJECT NAME: Auto Depot/Xtra Oil 4171 Broadway, Oakland	
BORING LOCATION: Western end of southernmost pump island		ELEVATION AND DATUM: None	
DRILLING AGENCY: IMX, Inc.	DRILLER: Jose	DATE & TIME STARTED: 08/19/14 1515	DATE & TIME FINISHED: 08/20/14 1330
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger			
COMPLETION DEPTH: 4.5 Feet	BEDROCK DEPTH: Not Encountered	LOGGED BY: MLBD	CHECKED BY:
FIRST WATER DEPTH: Not Encountered	NO. OF SAMPLES: 1 Soil		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.3 ft. Concrete					
	0.3 to 2.0 ft. Brown fine sand (FILL).	FILL		No Well Constructed		Borehole was hand augered from 0.3 to 4.0 ft. using a 3.5-inch O.D. hand auger.
	2.0 to 4.5 ft. Black clay (CL); stiff, moist. Slight Petroleum Hydrocarbon (PHC) odor. (0,0,100) Color change to brown at 3.0 ft.	CL			0	Water was not encountered during augering.
		X D5-4.0			4.1	Soil sample collected using a stainless steel sampler lined with a stainless steel tube driven by a slide hammer.
					9.2	
5						Borehole grouted on 08/20/14 using neat cement grout and a tremie pipe.
						No permit was required because the borehole was less than 5-feet deep.
						Drilling Notes:
10						1) Field estimates of percent gravel, sand, and fines are shown in parentheses.
						2) Density determinations are qualitative and are not based on quantitative evaluation.
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P&D ENVIRONMENTAL, INC.

BORING NO.: D6	**PROJECT NO.:** 0398	**PROJECT NAME:** Auto Depot/Xtra Oil 4171 Broadway, Oakland	
BORING LOCATION: Eastern end of southernmost pump island		**ELEVATION AND DATUM:** None	
DRILLING AGENCY: IMX, Inc.	**DRILLER:** Jose	**DATE & TIME STARTED:** 08/19/14 1515	**DATE & TIME FINISHED:** 08/20/14 1330
DRILLING EQUIPMENT: 3.5-inch O.D. Hand Auger			
COMPLETION DEPTH: 4.5 Feet	**BEDROCK DEPTH:** Not Encountered	**LOGGED BY:** MLBD	**CHECKED BY:** PMK
FIRST WATER DEPTH: Not Encountered	**NO. OF SAMPLES:** 1 Soil		

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	BLOW COUNT PER 6"	WELL CONSTRUCTION LOG	PID	REMARKS
	0.0 to 0.3 ft. Concrete			No Well Constructed		Borehole was hand augered from 0.3 to 4.0 ft. using a 3.5-inch O.D. hand auger.
	0.3 to 2.0 ft. Brown fine sand (FILL).	FILL			4.2	Water was not encountered during augering.
	2.0 to 4.5 ft. Black clay (CL); stiff, moist. Slight to moderate Petroleum Hydrocarbon (PHC) odor. (0,0,100)	CL			8.2	Soil sample collected using a stainless steel sampler lined with a stainless steel tube driven by a slide hammer.
		X D6-4.0			14.2	
5						Borehole grouted on 08/20/14 using neat cement grout and a tremie pipe.
						No permit was required because the borehole was less than 5-feet deep.
						Drilling Notes:
10						1) Field estimates of percent gravel, sand, and fines are shown in parentheses.
						2) Density determinations are qualitative and are not based on quantitative evaluation.
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APPENDIX B

Laboratory Analytical Reports and Chain of Custody Documentation

- **McCampbell Work Order # 1408725: Soil Samples F1-4.5, and D1-4.0 Through D6-4.0 Results**
- **McCampbell Work Order # 1408878: Soil Samples Collected from Boreholes B1 Through B7 Results**
- **McCampbell Work Order # 1408884: Water Samples Collected from Boreholes B1 Through B7 Results**

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1408725

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

Project Contact: Paul King
Project P.O.:
Project Name: #0398; Auto Depot

Project Received: 08/20/2014

Analytical Report reviewed & approved for release on 08/28/2014 by:

Question about your data?

Click here to email McCampbell

Angela Rydelius,
Laboratory Manager

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Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: #0398; Auto Depot
WorkOrder: 1408725

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.
PF	Prep Factor
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

S	spike recovery outside accepted recovery limits
c4	surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.
d1	weakly modified or unmodified gasoline is significant
d2	heavier gasoline range compounds are significant (aged gasoline?)
d7	strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
d9	no recognizable pattern
e1	unmodified or weakly modified diesel is significant
e2/e11	diesel range compounds are significant; no recognizable pattern; and/or stoddard solvent/mineral spirit (?)
e2	diesel range compounds are significant; no recognizable pattern
e3	aged diesel is significant
e4	gasoline range compounds are significant.
e7	oil range compounds are significant
e11	stoddard solvent/mineral spirit (?)

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408725
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/20/14 19:30	**Analytical Method:**	SW8260B
Date Prepared:	8/20/14	**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
F1-4.5	1408725-001A	Soil	08/19/2014 14:30	GC38	94294

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	20	200	08/25/2014 18:45
tert-Amyl methyl ether (TAME)	ND	1.0	200	08/25/2014 18:45
Benzene	ND	1.0	200	08/25/2014 18:45
Bromobenzene	ND	1.0	200	08/25/2014 18:45
Bromochloromethane	ND	1.0	200	08/25/2014 18:45
Bromodichloromethane	ND	1.0	200	08/25/2014 18:45
Bromoform	ND	1.0	200	08/25/2014 18:45
Bromomethane	ND	1.0	200	08/25/2014 18:45
2-Butanone (MEK)	ND	4.0	200	08/25/2014 18:45
t-Butyl alcohol (TBA)	ND	10	200	08/25/2014 18:45
n-Butyl benzene	ND	1.0	200	08/25/2014 18:45
sec-Butyl benzene	ND	1.0	200	08/25/2014 18:45
tert-Butyl benzene	ND	1.0	200	08/25/2014 18:45
Carbon Disulfide	ND	1.0	200	08/25/2014 18:45
Carbon Tetrachloride	ND	1.0	200	08/25/2014 18:45
Chlorobenzene	ND	1.0	200	08/25/2014 18:45
Chloroethane	ND	1.0	200	08/25/2014 18:45
Chloroform	ND	1.0	200	08/25/2014 18:45
Chloromethane	ND	1.0	200	08/25/2014 18:45
2-Chlorotoluene	ND	1.0	200	08/25/2014 18:45
4-Chlorotoluene	ND	1.0	200	08/25/2014 18:45
Dibromochloromethane	ND	1.0	200	08/25/2014 18:45
1,2-Dibromo-3-chloropropane	ND	0.80	200	08/25/2014 18:45
1,2-Dibromoethane (EDB)	ND	0.80	200	08/25/2014 18:45
Dibromomethane	ND	1.0	200	08/25/2014 18:45
1,2-Dichlorobenzene	ND	1.0	200	08/25/2014 18:45
1,3-Dichlorobenzene	ND	1.0	200	08/25/2014 18:45
1,4-Dichlorobenzene	ND	1.0	200	08/25/2014 18:45
Dichlorodifluoromethane	ND	1.0	200	08/25/2014 18:45
1,1-Dichloroethane	ND	1.0	200	08/25/2014 18:45
1,2-Dichloroethane (1,2-DCA)	ND	0.80	200	08/25/2014 18:45
1,1-Dichloroethene	ND	1.0	200	08/25/2014 18:45
cis-1,2-Dichloroethene	ND	1.0	200	08/25/2014 18:45
trans-1,2-Dichloroethene	ND	1.0	200	08/25/2014 18:45
1,2-Dichloropropane	ND	1.0	200	08/25/2014 18:45
1,3-Dichloropropane	ND	1.0	200	08/25/2014 18:45
2,2-Dichloropropane	ND	1.0	200	08/25/2014 18:45
1,1-Dichloropropene	ND	1.0	200	08/25/2014 18:45

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408725
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/20/14 19:30	**Analytical Method:**	SW8260B
Date Prepared:	8/20/14	**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
F1-4.5	**1408725-001A**	**Soil**	**08/19/2014 14:30**	**GC38**	**94294**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	1.0	200	08/25/2014 18:45
trans-1,3-Dichloropropene	ND	1.0	200	08/25/2014 18:45
Diisopropyl ether (DIPE)	ND	1.0	200	08/25/2014 18:45
Ethylbenzene	**3.8**	1.0	200	08/25/2014 18:45
Ethyl tert-butyl ether (ETBE)	ND	1.0	200	08/25/2014 18:45
Freon 113	ND	20	200	08/25/2014 18:45
Hexachlorobutadiene	ND	1.0	200	08/25/2014 18:45
Hexachloroethane	ND	1.0	200	08/25/2014 18:45
2-Hexanone	ND	1.0	200	08/25/2014 18:45
Isopropylbenzene	**1.7**	1.0	200	08/25/2014 18:45
4-Isopropyl toluene	ND	1.0	200	08/25/2014 18:45
Methyl-t-butyl ether (MTBE)	ND	1.0	200	08/25/2014 18:45
Methylene chloride	ND	1.0	200	08/25/2014 18:45
4-Methyl-2-pentanone (MIBK)	ND	1.0	200	08/25/2014 18:45
Naphthalene	**7.0**	1.0	200	08/25/2014 18:45
n-Propyl benzene	**5.9**	1.0	200	08/25/2014 18:45
Styrene	ND	1.0	200	08/25/2014 18:45
1,1,1,2-Tetrachloroethane	ND	1.0	200	08/25/2014 18:45
1,1,2,2-Tetrachloroethane	ND	1.0	200	08/25/2014 18:45
Tetrachloroethene	ND	1.0	200	08/25/2014 18:45
Toluene	ND	1.0	200	08/25/2014 18:45
1,2,3-Trichlorobenzene	ND	1.0	200	08/25/2014 18:45
1,2,4-Trichlorobenzene	ND	1.0	200	08/25/2014 18:45
1,1,1-Trichloroethane	ND	1.0	200	08/25/2014 18:45
1,1,2-Trichloroethane	ND	1.0	200	08/25/2014 18:45
Trichloroethene	ND	1.0	200	08/25/2014 18:45
Trichlorofluoromethane	ND	1.0	200	08/25/2014 18:45
1,2,3-Trichloropropane	ND	1.0	200	08/25/2014 18:45
1,2,4-Trimethylbenzene	**22**	1.0	200	08/25/2014 18:45
1,3,5-Trimethylbenzene	**3.7**	1.0	200	08/25/2014 18:45
Vinyl Chloride	ND	1.0	200	08/25/2014 18:45
Xylenes, Total	**3.4**	1.0	200	08/25/2014 18:45

Surrogates	REC (%)	Limits	
Dibromofluoromethane	111	70-130	08/25/2014 18:45
Toluene-d8	90	70-130	08/25/2014 18:45
4-BFB	97	70-130	08/25/2014 18:45

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CDPH ELAP 1644 ♦ NELAP 4033ORELAP AK Analyst's Initial Angela Rydelius, Lab Manager

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408725
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/20/14 19:30	**Analytical Method:**	SW8260B
Date Prepared:	8/20/14	**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
D1-4.0	**1408725-002A**	**Soil**	**08/19/2014 16:30**	**GC38**	**94294**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	08/26/2014 16:28
tert-Amyl methyl ether (TAME)	ND	0.0050	1	08/26/2014 16:28
Benzene	**0.0064**	0.0050	1	08/26/2014 16:28
Bromobenzene	ND	0.0050	1	08/26/2014 16:28
Bromochloromethane	ND	0.0050	1	08/26/2014 16:28
Bromodichloromethane	ND	0.0050	1	08/26/2014 16:28
Bromoform	ND	0.0050	1	08/26/2014 16:28
Bromomethane	ND	0.0050	1	08/26/2014 16:28
2-Butanone (MEK)	ND	0.020	1	08/26/2014 16:28
t-Butyl alcohol (TBA)	ND	0.050	1	08/26/2014 16:28
n-Butyl benzene	**0.059**	0.0050	1	08/26/2014 16:28
sec-Butyl benzene	**0.022**	0.0050	1	08/26/2014 16:28
tert-Butyl benzene	ND	0.0050	1	08/26/2014 16:28
Carbon Disulfide	ND	0.0050	1	08/26/2014 16:28
Carbon Tetrachloride	ND	0.0050	1	08/26/2014 16:28
Chlorobenzene	ND	0.0050	1	08/26/2014 16:28
Chloroethane	ND	0.0050	1	08/26/2014 16:28
Chloroform	ND	0.0050	1	08/26/2014 16:28
Chloromethane	ND	0.0050	1	08/26/2014 16:28
2-Chlorotoluene	ND	0.0050	1	08/26/2014 16:28
4-Chlorotoluene	ND	0.0050	1	08/26/2014 16:28
Dibromochloromethane	ND	0.0050	1	08/26/2014 16:28
1,2-Dibromo-3-chloropropane	ND	0.0040	1	08/26/2014 16:28
1,2-Dibromoethane (EDB)	ND	0.0040	1	08/26/2014 16:28
Dibromomethane	ND	0.0050	1	08/26/2014 16:28
1,2-Dichlorobenzene	ND	0.0050	1	08/26/2014 16:28
1,3-Dichlorobenzene	ND	0.0050	1	08/26/2014 16:28
1,4-Dichlorobenzene	ND	0.0050	1	08/26/2014 16:28
Dichlorodifluoromethane	ND	0.0050	1	08/26/2014 16:28
1,1-Dichloroethane	ND	0.0050	1	08/26/2014 16:28
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	08/26/2014 16:28
1,1-Dichloroethene	ND	0.0050	1	08/26/2014 16:28
cis-1,2-Dichloroethene	ND	0.0050	1	08/26/2014 16:28
trans-1,2-Dichloroethene	ND	0.0050	1	08/26/2014 16:28
1,2-Dichloropropane	ND	0.0050	1	08/26/2014 16:28
1,3-Dichloropropane	ND	0.0050	1	08/26/2014 16:28
2,2-Dichloropropane	ND	0.0050	1	08/26/2014 16:28
1,1-Dichloropropene	ND	0.0050	1	08/26/2014 16:28

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Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/20/14 19:30	**Analytical Method:**	SW8260B
Date Prepared:	8/20/14	**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
D1-4.0	**1408725-002A**	**Soil**	**08/19/2014 16:30**	**GC38**	**94294**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	08/26/2014 16:28
trans-1,3-Dichloropropene	ND	0.0050	1	08/26/2014 16:28
Diisopropyl ether (DIPE)	ND	0.0050	1	08/26/2014 16:28
Ethylbenzene	**0.029**	0.0050	1	08/26/2014 16:28
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	08/26/2014 16:28
Freon 113	ND	0.10	1	08/26/2014 16:28
Hexachlorobutadiene	ND	0.0050	1	08/26/2014 16:28
Hexachloroethane	ND	0.0050	1	08/26/2014 16:28
2-Hexanone	ND	0.0050	1	08/26/2014 16:28
Isopropylbenzene	**0.035**	0.0050	1	08/26/2014 16:28
4-Isopropyl toluene	ND	0.0050	1	08/26/2014 16:28
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	08/26/2014 16:28
Methylene chloride	ND	0.0050	1	08/26/2014 16:28
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	08/26/2014 16:28
Naphthalene	**0.056**	0.0050	1	08/26/2014 16:28
n-Propyl benzene	**0.13**	0.0050	1	08/26/2014 16:28
Styrene	ND	0.0050	1	08/26/2014 16:28
1,1,1,2-Tetrachloroethane	ND	0.0050	1	08/26/2014 16:28
1,1,2,2-Tetrachloroethane	ND	0.0050	1	08/26/2014 16:28
Tetrachloroethene	**0.0081**	0.0050	1	08/26/2014 16:28
Toluene	ND	0.0050	1	08/26/2014 16:28
1,2,3-Trichlorobenzene	ND	0.0050	1	08/26/2014 16:28
1,2,4-Trichlorobenzene	ND	0.0050	1	08/26/2014 16:28
1,1,1-Trichloroethane	ND	0.0050	1	08/26/2014 16:28
1,1,2-Trichloroethane	ND	0.0050	1	08/26/2014 16:28
Trichloroethene	ND	0.0050	1	08/26/2014 16:28
Trichlorofluoromethane	ND	0.0050	1	08/26/2014 16:28
1,2,3-Trichloropropane	ND	0.0050	1	08/26/2014 16:28
1,2,4-Trimethylbenzene	ND	0.0050	1	08/26/2014 16:28
1,3,5-Trimethylbenzene	ND	0.0050	1	08/26/2014 16:28
Vinyl Chloride	ND	0.0050	1	08/26/2014 16:28
Xylenes, Total	ND	0.0050	1	08/26/2014 16:28

Surrogates	REC (%)	Limits	
Dibromofluoromethane	88	70-130	08/26/2014 16:28
Toluene-d8	99	70-130	08/26/2014 16:28
4-BFB	105	70-130	08/26/2014 16:28

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Client:	P & D Environmental	**WorkOrder:**	1408725
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/20/14 19:30	**Analytical Method:**	SW8260B
Date Prepared:	8/20/14	**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
D2-4.0	**1408725-003A**	**Soil**	**08/19/2014 16:25**	**GC38**	**94294**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	2.0	20	08/26/2014 13:40
tert-Amyl methyl ether (TAME)	ND	0.10	20	08/26/2014 13:40
Benzene	ND	0.10	20	08/26/2014 13:40
Bromobenzene	ND	0.10	20	08/26/2014 13:40
Bromochloromethane	ND	0.10	20	08/26/2014 13:40
Bromodichloromethane	ND	0.10	20	08/26/2014 13:40
Bromoform	ND	0.10	20	08/26/2014 13:40
Bromomethane	ND	0.10	20	08/26/2014 13:40
2-Butanone (MEK)	ND	0.40	20	08/26/2014 13:40
t-Butyl alcohol (TBA)	ND	1.0	20	08/26/2014 13:40
n-Butyl benzene	**0.75**	0.10	20	08/26/2014 13:40
sec-Butyl benzene	**0.35**	0.10	20	08/26/2014 13:40
tert-Butyl benzene	ND	0.10	20	08/26/2014 13:40
Carbon Disulfide	ND	0.10	20	08/26/2014 13:40
Carbon Tetrachloride	ND	0.10	20	08/26/2014 13:40
Chlorobenzene	ND	0.10	20	08/26/2014 13:40
Chloroethane	ND	0.10	20	08/26/2014 13:40
Chloroform	ND	0.10	20	08/26/2014 13:40
Chloromethane	ND	0.10	20	08/26/2014 13:40
2-Chlorotoluene	ND	0.10	20	08/26/2014 13:40
4-Chlorotoluene	ND	0.10	20	08/26/2014 13:40
Dibromochloromethane	ND	0.10	20	08/26/2014 13:40
1,2-Dibromo-3-chloropropane	ND	0.080	20	08/26/2014 13:40
1,2-Dibromoethane (EDB)	ND	0.080	20	08/26/2014 13:40
Dibromomethane	ND	0.10	20	08/26/2014 13:40
1,2-Dichlorobenzene	ND	0.10	20	08/26/2014 13:40
1,3-Dichlorobenzene	ND	0.10	20	08/26/2014 13:40
1,4-Dichlorobenzene	ND	0.10	20	08/26/2014 13:40
Dichlorodifluoromethane	ND	0.10	20	08/26/2014 13:40
1,1-Dichloroethane	ND	0.10	20	08/26/2014 13:40
1,2-Dichloroethane (1,2-DCA)	ND	0.080	20	08/26/2014 13:40
1,1-Dichloroethene	ND	0.10	20	08/26/2014 13:40
cis-1,2-Dichloroethene	ND	0.10	20	08/26/2014 13:40
trans-1,2-Dichloroethene	ND	0.10	20	08/26/2014 13:40
1,2-Dichloropropane	ND	0.10	20	08/26/2014 13:40
1,3-Dichloropropane	ND	0.10	20	08/26/2014 13:40
2,2-Dichloropropane	ND	0.10	20	08/26/2014 13:40
1,1-Dichloropropene	ND	0.10	20	08/26/2014 13:40

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408725
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/20/14 19:30	**Analytical Method:**	SW8260B
Date Prepared:	8/20/14	**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
D2-4.0	**1408725-003A**	**Soil**	**08/19/2014 16:25**	**GC38**	**94294**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.10	20	08/26/2014 13:40
trans-1,3-Dichloropropene	ND	0.10	20	08/26/2014 13:40
Diisopropyl ether (DIPE)	ND	0.10	20	08/26/2014 13:40
Ethylbenzene	**0.39**	0.10	20	08/26/2014 13:40
Ethyl tert-butyl ether (ETBE)	ND	0.10	20	08/26/2014 13:40
Freon 113	ND	2.0	20	08/26/2014 13:40
Hexachlorobutadiene	ND	0.10	20	08/26/2014 13:40
Hexachloroethane	ND	0.10	20	08/26/2014 13:40
2-Hexanone	ND	0.10	20	08/26/2014 13:40
Isopropylbenzene	**0.73**	0.10	20	08/26/2014 13:40
4-Isopropyl toluene	ND	0.10	20	08/26/2014 13:40
Methyl-t-butyl ether (MTBE)	ND	0.10	20	08/26/2014 13:40
Methylene chloride	ND	0.10	20	08/26/2014 13:40
4-Methyl-2-pentanone (MIBK)	ND	0.10	20	08/26/2014 13:40
Naphthalene	ND	0.10	20	08/26/2014 13:40
n-Propyl benzene	**2.3**	0.10	20	08/26/2014 13:40
Styrene	ND	0.10	20	08/26/2014 13:40
1,1,1,2-Tetrachloroethane	ND	0.10	20	08/26/2014 13:40
1,1,2,2-Tetrachloroethane	ND	0.10	20	08/26/2014 13:40
Tetrachloroethene	ND	0.10	20	08/26/2014 13:40
Toluene	ND	0.10	20	08/26/2014 13:40
1,2,3-Trichlorobenzene	ND	0.10	20	08/26/2014 13:40
1,2,4-Trichlorobenzene	ND	0.10	20	08/26/2014 13:40
1,1,1-Trichloroethane	ND	0.10	20	08/26/2014 13:40
1,1,2-Trichloroethane	ND	0.10	20	08/26/2014 13:40
Trichloroethene	ND	0.10	20	08/26/2014 13:40
Trichlorofluoromethane	ND	0.10	20	08/26/2014 13:40
1,2,3-Trichloropropane	ND	0.10	20	08/26/2014 13:40
1,2,4-Trimethylbenzene	ND	0.10	20	08/26/2014 13:40
1,3,5-Trimethylbenzene	ND	0.10	20	08/26/2014 13:40
Vinyl Chloride	ND	0.10	20	08/26/2014 13:40
Xylenes, Total	ND	0.10	20	08/26/2014 13:40

Surrogates	REC (%)	Limits	
Dibromofluoromethane	110	70-130	08/26/2014 13:40
Toluene-d8	93	70-130	08/26/2014 13:40
4-BFB	107	70-130	08/26/2014 13:40

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408725
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/20/14 19:30	**Analytical Method:**	SW8260B
Date Prepared:	8/20/14	**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
D3-4.0	**1408725-004A**	**Soil**	**08/19/2014 15:00**	**GC38**	**94294**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.50	5	08/26/2014 15:02
tert-Amyl methyl ether (TAME)	ND	0.025	5	08/26/2014 15:02
Benzene	**0.079**	0.025	5	08/26/2014 15:02
Bromobenzene	ND	0.025	5	08/26/2014 15:02
Bromochloromethane	ND	0.025	5	08/26/2014 15:02
Bromodichloromethane	ND	0.025	5	08/26/2014 15:02
Bromoform	ND	0.025	5	08/26/2014 15:02
Bromomethane	ND	0.025	5	08/26/2014 15:02
2-Butanone (MEK)	ND	0.10	5	08/26/2014 15:02
t-Butyl alcohol (TBA)	ND	0.25	5	08/26/2014 15:02
n-Butyl benzene	**0.095**	0.025	5	08/26/2014 15:02
sec-Butyl benzene	**0.030**	0.025	5	08/26/2014 15:02
tert-Butyl benzene	ND	0.025	5	08/26/2014 15:02
Carbon Disulfide	ND	0.025	5	08/26/2014 15:02
Carbon Tetrachloride	ND	0.025	5	08/26/2014 15:02
Chlorobenzene	ND	0.025	5	08/26/2014 15:02
Chloroethane	ND	0.025	5	08/26/2014 15:02
Chloroform	ND	0.025	5	08/26/2014 15:02
Chloromethane	ND	0.025	5	08/26/2014 15:02
2-Chlorotoluene	ND	0.025	5	08/26/2014 15:02
4-Chlorotoluene	ND	0.025	5	08/26/2014 15:02
Dibromochloromethane	ND	0.025	5	08/26/2014 15:02
1,2-Dibromo-3-chloropropane	ND	0.020	5	08/26/2014 15:02
1,2-Dibromoethane (EDB)	ND	0.020	5	08/26/2014 15:02
Dibromomethane	ND	0.025	5	08/26/2014 15:02
1,2-Dichlorobenzene	ND	0.025	5	08/26/2014 15:02
1,3-Dichlorobenzene	ND	0.025	5	08/26/2014 15:02
1,4-Dichlorobenzene	ND	0.025	5	08/26/2014 15:02
Dichlorodifluoromethane	ND	0.025	5	08/26/2014 15:02
1,1-Dichloroethane	ND	0.025	5	08/26/2014 15:02
1,2-Dichloroethane (1,2-DCA)	ND	0.020	5	08/26/2014 15:02
1,1-Dichloroethene	ND	0.025	5	08/26/2014 15:02
cis-1,2-Dichloroethene	ND	0.025	5	08/26/2014 15:02
trans-1,2-Dichloroethene	ND	0.025	5	08/26/2014 15:02
1,2-Dichloropropane	ND	0.025	5	08/26/2014 15:02
1,3-Dichloropropane	ND	0.025	5	08/26/2014 15:02
2,2-Dichloropropane	ND	0.025	5	08/26/2014 15:02
1,1-Dichloropropene	ND	0.025	5	08/26/2014 15:02

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408725
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/20/14 19:30	**Analytical Method:**	SW8260B
Date Prepared:	8/20/14	**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
D3-4.0	**1408725-004A**	**Soil**	**08/19/2014 15:00**	**GC38**	**94294**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.025	5	08/26/2014 15:02
trans-1,3-Dichloropropene	ND	0.025	5	08/26/2014 15:02
Diisopropyl ether (DIPE)	ND	0.025	5	08/26/2014 15:02
Ethylbenzene	**0.23**	0.025	5	08/26/2014 15:02
Ethyl tert-butyl ether (ETBE)	ND	0.025	5	08/26/2014 15:02
Freon 113	ND	0.50	5	08/26/2014 15:02
Hexachlorobutadiene	ND	0.025	5	08/26/2014 15:02
Hexachloroethane	ND	0.025	5	08/26/2014 15:02
2-Hexanone	ND	0.025	5	08/26/2014 15:02
Isopropylbenzene	**0.040**	0.025	5	08/26/2014 15:02
4-Isopropyl toluene	ND	0.025	5	08/26/2014 15:02
Methyl-t-butyl ether (MTBE)	ND	0.025	5	08/26/2014 15:02
Methylene chloride	ND	0.025	5	08/26/2014 15:02
4-Methyl-2-pentanone (MIBK)	ND	0.025	5	08/26/2014 15:02
Naphthalene	**0.42**	0.025	5	08/26/2014 15:02
n-Propyl benzene	**0.16**	0.025	5	08/26/2014 15:02
Styrene	ND	0.025	5	08/26/2014 15:02
1,1,1,2-Tetrachloroethane	ND	0.025	5	08/26/2014 15:02
1,1,2,2-Tetrachloroethane	ND	0.025	5	08/26/2014 15:02
Tetrachloroethene	ND	0.025	5	08/26/2014 15:02
Toluene	ND	0.025	5	08/26/2014 15:02
1,2,3-Trichlorobenzene	ND	0.025	5	08/26/2014 15:02
1,2,4-Trichlorobenzene	ND	0.025	5	08/26/2014 15:02
1,1,1-Trichloroethane	ND	0.025	5	08/26/2014 15:02
1,1,2-Trichloroethane	ND	0.025	5	08/26/2014 15:02
Trichloroethene	ND	0.025	5	08/26/2014 15:02
Trichlorofluoromethane	ND	0.025	5	08/26/2014 15:02
1,2,3-Trichloropropane	ND	0.025	5	08/26/2014 15:02
1,2,4-Trimethylbenzene	ND	0.025	5	08/26/2014 15:02
1,3,5-Trimethylbenzene	ND	0.025	5	08/26/2014 15:02
Vinyl Chloride	ND	0.025	5	08/26/2014 15:02
Xylenes, Total	ND	0.025	5	08/26/2014 15:02

Surrogates	REC (%)	Limits	
Dibromofluoromethane	97	70-130	08/26/2014 15:02
Toluene-d8	92	70-130	08/26/2014 15:02
4-BFB	93	70-130	08/26/2014 15:02

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408725
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/20/14 19:30	**Analytical Method:**	SW8260B
Date Prepared:	8/20/14	**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
D4-4.0	**1408725-005A**	**Soil**	**08/19/2014 15:15**	**GC38**	**94294**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.67	6.7	08/26/2014 15:45
tert-Amyl methyl ether (TAME)	ND	0.033	6.7	08/26/2014 15:45
Benzene	ND	0.033	6.7	08/26/2014 15:45
Bromobenzene	ND	0.033	6.7	08/26/2014 15:45
Bromochloromethane	ND	0.033	6.7	08/26/2014 15:45
Bromodichloromethane	ND	0.033	6.7	08/26/2014 15:45
Bromoform	ND	0.033	6.7	08/26/2014 15:45
Bromomethane	ND	0.033	6.7	08/26/2014 15:45
2-Butanone (MEK)	ND	0.13	6.7	08/26/2014 15:45
t-Butyl alcohol (TBA)	ND	0.33	6.7	08/26/2014 15:45
n-Butyl benzene	**0.30**	0.033	6.7	08/26/2014 15:45
sec-Butyl benzene	**0.16**	0.033	6.7	08/26/2014 15:45
tert-Butyl benzene	ND	0.033	6.7	08/26/2014 15:45
Carbon Disulfide	ND	0.033	6.7	08/26/2014 15:45
Carbon Tetrachloride	ND	0.033	6.7	08/26/2014 15:45
Chlorobenzene	ND	0.033	6.7	08/26/2014 15:45
Chloroethane	ND	0.033	6.7	08/26/2014 15:45
Chloroform	ND	0.033	6.7	08/26/2014 15:45
Chloromethane	ND	0.033	6.7	08/26/2014 15:45
2-Chlorotoluene	ND	0.033	6.7	08/26/2014 15:45
4-Chlorotoluene	ND	0.033	6.7	08/26/2014 15:45
Dibromochloromethane	ND	0.033	6.7	08/26/2014 15:45
1,2-Dibromo-3-chloropropane	ND	0.027	6.7	08/26/2014 15:45
1,2-Dibromoethane (EDB)	ND	0.027	6.7	08/26/2014 15:45
Dibromomethane	ND	0.033	6.7	08/26/2014 15:45
1,2-Dichlorobenzene	ND	0.033	6.7	08/26/2014 15:45
1,3-Dichlorobenzene	ND	0.033	6.7	08/26/2014 15:45
1,4-Dichlorobenzene	ND	0.033	6.7	08/26/2014 15:45
Dichlorodifluoromethane	ND	0.033	6.7	08/26/2014 15:45
1,1-Dichloroethane	ND	0.033	6.7	08/26/2014 15:45
1,2-Dichloroethane (1,2-DCA)	ND	0.027	6.7	08/26/2014 15:45
1,1-Dichloroethene	ND	0.033	6.7	08/26/2014 15:45
cis-1,2-Dichloroethene	ND	0.033	6.7	08/26/2014 15:45
trans-1,2-Dichloroethene	ND	0.033	6.7	08/26/2014 15:45
1,2-Dichloropropane	ND	0.033	6.7	08/26/2014 15:45
1,3-Dichloropropane	ND	0.033	6.7	08/26/2014 15:45
2,2-Dichloropropane	ND	0.033	6.7	08/26/2014 15:45
1,1-Dichloropropene	ND	0.033	6.7	08/26/2014 15:45

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408725
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/20/14 19:30	**Analytical Method:**	SW8260B
Date Prepared:	8/20/14	**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
D4-4.0	**1408725-005A**	**Soil**	**08/19/2014 15:15**	**GC38**	**94294**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.033	6.7	08/26/2014 15:45
trans-1,3-Dichloropropene	ND	0.033	6.7	08/26/2014 15:45
Diisopropyl ether (DIPE)	ND	0.033	6.7	08/26/2014 15:45
Ethylbenzene	ND	0.033	6.7	08/26/2014 15:45
Ethyl tert-butyl ether (ETBE)	ND	0.033	6.7	08/26/2014 15:45
Freon 113	ND	0.67	6.7	08/26/2014 15:45
Hexachlorobutadiene	ND	0.033	6.7	08/26/2014 15:45
Hexachloroethane	ND	0.033	6.7	08/26/2014 15:45
2-Hexanone	ND	0.033	6.7	08/26/2014 15:45
Isopropylbenzene	**0.048**	0.033	6.7	08/26/2014 15:45
4-Isopropyl toluene	ND	0.033	6.7	08/26/2014 15:45
Methyl-t-butyl ether (MTBE)	ND	0.033	6.7	08/26/2014 15:45
Methylene chloride	ND	0.033	6.7	08/26/2014 15:45
4-Methyl-2-pentanone (MIBK)	ND	0.033	6.7	08/26/2014 15:45
Naphthalene	ND	0.033	6.7	08/26/2014 15:45
n-Propyl benzene	**0.078**	0.033	6.7	08/26/2014 15:45
Styrene	ND	0.033	6.7	08/26/2014 15:45
1,1,1,2-Tetrachloroethane	ND	0.033	6.7	08/26/2014 15:45
1,1,2,2-Tetrachloroethane	ND	0.033	6.7	08/26/2014 15:45
Tetrachloroethene	ND	0.033	6.7	08/26/2014 15:45
Toluene	ND	0.033	6.7	08/26/2014 15:45
1,2,3-Trichlorobenzene	ND	0.033	6.7	08/26/2014 15:45
1,2,4-Trichlorobenzene	ND	0.033	6.7	08/26/2014 15:45
1,1,1-Trichloroethane	ND	0.033	6.7	08/26/2014 15:45
1,1,2-Trichloroethane	ND	0.033	6.7	08/26/2014 15:45
Trichloroethene	ND	0.033	6.7	08/26/2014 15:45
Trichlorofluoromethane	ND	0.033	6.7	08/26/2014 15:45
1,2,3-Trichloropropane	ND	0.033	6.7	08/26/2014 15:45
1,2,4-Trimethylbenzene	ND	0.033	6.7	08/26/2014 15:45
1,3,5-Trimethylbenzene	ND	0.033	6.7	08/26/2014 15:45
Vinyl Chloride	ND	0.033	6.7	08/26/2014 15:45
Xylenes, Total	ND	0.033	6.7	08/26/2014 15:45

Surrogates	REC (%)	Limits	
Dibromofluoromethane	102	70-130	08/26/2014 15:45
Toluene-d8	95	70-130	08/26/2014 15:45
4-BFB	116	70-130	08/26/2014 15:45

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408725
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/20/14 19:30	**Analytical Method:**	SW8260B
Date Prepared:	8/20/14	**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
D5-4.0	**1408725-006A**	**Soil**	**08/19/2014 15:40**	**GC38**	**94294**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	08/26/2014 17:11
tert-Amyl methyl ether (TAME)	ND	0.0050	1	08/26/2014 17:11
Benzene	ND	0.0050	1	08/26/2014 17:11
Bromobenzene	ND	0.0050	1	08/26/2014 17:11
Bromochloromethane	ND	0.0050	1	08/26/2014 17:11
Bromodichloromethane	ND	0.0050	1	08/26/2014 17:11
Bromoform	ND	0.0050	1	08/26/2014 17:11
Bromomethane	ND	0.0050	1	08/26/2014 17:11
2-Butanone (MEK)	ND	0.020	1	08/26/2014 17:11
t-Butyl alcohol (TBA)	ND	0.050	1	08/26/2014 17:11
n-Butyl benzene	**0.0097**	0.0050	1	08/26/2014 17:11
sec-Butyl benzene	**0.0058**	0.0050	1	08/26/2014 17:11
tert-Butyl benzene	ND	0.0050	1	08/26/2014 17:11
Carbon Disulfide	ND	0.0050	1	08/26/2014 17:11
Carbon Tetrachloride	ND	0.0050	1	08/26/2014 17:11
Chlorobenzene	ND	0.0050	1	08/26/2014 17:11
Chloroethane	ND	0.0050	1	08/26/2014 17:11
Chloroform	ND	0.0050	1	08/26/2014 17:11
Chloromethane	ND	0.0050	1	08/26/2014 17:11
2-Chlorotoluene	ND	0.0050	1	08/26/2014 17:11
4-Chlorotoluene	ND	0.0050	1	08/26/2014 17:11
Dibromochloromethane	ND	0.0050	1	08/26/2014 17:11
1,2-Dibromo-3-chloropropane	ND	0.0040	1	08/26/2014 17:11
1,2-Dibromoethane (EDB)	ND	0.0040	1	08/26/2014 17:11
Dibromomethane	ND	0.0050	1	08/26/2014 17:11
1,2-Dichlorobenzene	ND	0.0050	1	08/26/2014 17:11
1,3-Dichlorobenzene	ND	0.0050	1	08/26/2014 17:11
1,4-Dichlorobenzene	ND	0.0050	1	08/26/2014 17:11
Dichlorodifluoromethane	ND	0.0050	1	08/26/2014 17:11
1,1-Dichloroethane	ND	0.0050	1	08/26/2014 17:11
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	08/26/2014 17:11
1,1-Dichloroethene	ND	0.0050	1	08/26/2014 17:11
cis-1,2-Dichloroethene	ND	0.0050	1	08/26/2014 17:11
trans-1,2-Dichloroethene	ND	0.0050	1	08/26/2014 17:11
1,2-Dichloropropane	ND	0.0050	1	08/26/2014 17:11
1,3-Dichloropropane	ND	0.0050	1	08/26/2014 17:11
2,2-Dichloropropane	ND	0.0050	1	08/26/2014 17:11
1,1-Dichloropropene	ND	0.0050	1	08/26/2014 17:11

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408725
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/20/14 19:30	**Analytical Method:**	SW8260B
Date Prepared:	8/20/14	**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
D5-4.0	**1408725-006A**	**Soil**	**08/19/2014 15:40**	**GC38**	**94294**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	08/26/2014 17:11
trans-1,3-Dichloropropene	ND	0.0050	1	08/26/2014 17:11
Diisopropyl ether (DIPE)	ND	0.0050	1	08/26/2014 17:11
Ethylbenzene	ND	0.0050	1	08/26/2014 17:11
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	08/26/2014 17:11
Freon 113	ND	0.10	1	08/26/2014 17:11
Hexachlorobutadiene	ND	0.0050	1	08/26/2014 17:11
Hexachloroethane	ND	0.0050	1	08/26/2014 17:11
2-Hexanone	ND	0.0050	1	08/26/2014 17:11
Isopropylbenzene	ND	0.0050	1	08/26/2014 17:11
4-Isopropyl toluene	ND	0.0050	1	08/26/2014 17:11
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	08/26/2014 17:11
Methylene chloride	ND	0.0050	1	08/26/2014 17:11
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	08/26/2014 17:11
Naphthalene	ND	0.0050	1	08/26/2014 17:11
n-Propyl benzene	**0.0093**	0.0050	1	08/26/2014 17:11
Styrene	ND	0.0050	1	08/26/2014 17:11
1,1,1,2-Tetrachloroethane	ND	0.0050	1	08/26/2014 17:11
1,1,2,2-Tetrachloroethane	ND	0.0050	1	08/26/2014 17:11
Tetrachloroethene	ND	0.0050	1	08/26/2014 17:11
Toluene	ND	0.0050	1	08/26/2014 17:11
1,2,3-Trichlorobenzene	ND	0.0050	1	08/26/2014 17:11
1,2,4-Trichlorobenzene	ND	0.0050	1	08/26/2014 17:11
1,1,1-Trichloroethane	ND	0.0050	1	08/26/2014 17:11
1,1,2-Trichloroethane	ND	0.0050	1	08/26/2014 17:11
Trichloroethene	ND	0.0050	1	08/26/2014 17:11
Trichlorofluoromethane	ND	0.0050	1	08/26/2014 17:11
1,2,3-Trichloropropane	ND	0.0050	1	08/26/2014 17:11
1,2,4-Trimethylbenzene	ND	0.0050	1	08/26/2014 17:11
1,3,5-Trimethylbenzene	ND	0.0050	1	08/26/2014 17:11
Vinyl Chloride	ND	0.0050	1	08/26/2014 17:11
Xylenes, Total	ND	0.0050	1	08/26/2014 17:11

Surrogates	REC (%)	Limits	
Dibromofluoromethane	98	70-130	08/26/2014 17:11
Toluene-d8	97	70-130	08/26/2014 17:11
4-BFB	113	70-130	08/26/2014 17:11

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408725
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/20/14 19:30	**Analytical Method:**	SW8260B
Date Prepared:	8/20/14	**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
D6-4.0	**1408725-007A**	**Soil**	**08/19/2014 16:10**	**GC38**	**94294**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	08/25/2014 21:59
tert-Amyl methyl ether (TAME)	ND	0.0050	1	08/25/2014 21:59
Benzene	ND	0.0050	1	08/25/2014 21:59
Bromobenzene	ND	0.0050	1	08/25/2014 21:59
Bromochloromethane	ND	0.0050	1	08/25/2014 21:59
Bromodichloromethane	ND	0.0050	1	08/25/2014 21:59
Bromoform	ND	0.0050	1	08/25/2014 21:59
Bromomethane	ND	0.0050	1	08/25/2014 21:59
2-Butanone (MEK)	ND	0.020	1	08/25/2014 21:59
t-Butyl alcohol (TBA)	ND	0.050	1	08/25/2014 21:59
n-Butyl benzene	ND	0.0050	1	08/25/2014 21:59
sec-Butyl benzene	ND	0.0050	1	08/25/2014 21:59
tert-Butyl benzene	ND	0.0050	1	08/25/2014 21:59
Carbon Disulfide	ND	0.0050	1	08/25/2014 21:59
Carbon Tetrachloride	ND	0.0050	1	08/25/2014 21:59
Chlorobenzene	ND	0.0050	1	08/25/2014 21:59
Chloroethane	ND	0.0050	1	08/25/2014 21:59
Chloroform	ND	0.0050	1	08/25/2014 21:59
Chloromethane	ND	0.0050	1	08/25/2014 21:59
2-Chlorotoluene	ND	0.0050	1	08/25/2014 21:59
4-Chlorotoluene	ND	0.0050	1	08/25/2014 21:59
Dibromochloromethane	ND	0.0050	1	08/25/2014 21:59
1,2-Dibromo-3-chloropropane	ND	0.0040	1	08/25/2014 21:59
1,2-Dibromoethane (EDB)	ND	0.0040	1	08/25/2014 21:59
Dibromomethane	ND	0.0050	1	08/25/2014 21:59
1,2-Dichlorobenzene	ND	0.0050	1	08/25/2014 21:59
1,3-Dichlorobenzene	ND	0.0050	1	08/25/2014 21:59
1,4-Dichlorobenzene	ND	0.0050	1	08/25/2014 21:59
Dichlorodifluoromethane	ND	0.0050	1	08/25/2014 21:59
1,1-Dichloroethane	ND	0.0050	1	08/25/2014 21:59
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	08/25/2014 21:59
1,1-Dichloroethene	ND	0.0050	1	08/25/2014 21:59
cis-1,2-Dichloroethene	ND	0.0050	1	08/25/2014 21:59
trans-1,2-Dichloroethene	ND	0.0050	1	08/25/2014 21:59
1,2-Dichloropropane	ND	0.0050	1	08/25/2014 21:59
1,3-Dichloropropane	ND	0.0050	1	08/25/2014 21:59
2,2-Dichloropropane	ND	0.0050	1	08/25/2014 21:59
1,1-Dichloropropene	ND	0.0050	1	08/25/2014 21:59

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408725
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/20/14 19:30	**Analytical Method:**	SW8260B
Date Prepared:	8/20/14	**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
D6-4.0	**1408725-007A**	**Soil**	**08/19/2014 16:10**	**GC38**	**94294**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	08/25/2014 21:59
trans-1,3-Dichloropropene	ND	0.0050	1	08/25/2014 21:59
Diisopropyl ether (DIPE)	ND	0.0050	1	08/25/2014 21:59
Ethylbenzene	ND	0.0050	1	08/25/2014 21:59
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	08/25/2014 21:59
Freon 113	ND	0.10	1	08/25/2014 21:59
Hexachlorobutadiene	ND	0.0050	1	08/25/2014 21:59
Hexachloroethane	ND	0.0050	1	08/25/2014 21:59
2-Hexanone	ND	0.0050	1	08/25/2014 21:59
Isopropylbenzene	ND	0.0050	1	08/25/2014 21:59
4-Isopropyl toluene	ND	0.0050	1	08/25/2014 21:59
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	08/25/2014 21:59
Methylene chloride	ND	0.0050	1	08/25/2014 21:59
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	08/25/2014 21:59
Naphthalene	ND	0.0050	1	08/25/2014 21:59
n-Propyl benzene	ND	0.0050	1	08/25/2014 21:59
Styrene	ND	0.0050	1	08/25/2014 21:59
1,1,1,2-Tetrachloroethane	ND	0.0050	1	08/25/2014 21:59
1,1,2,2-Tetrachloroethane	ND	0.0050	1	08/25/2014 21:59
Tetrachloroethene	ND	0.0050	1	08/25/2014 21:59
Toluene	ND	0.0050	1	08/25/2014 21:59
1,2,3-Trichlorobenzene	ND	0.0050	1	08/25/2014 21:59
1,2,4-Trichlorobenzene	ND	0.0050	1	08/25/2014 21:59
1,1,1-Trichloroethane	ND	0.0050	1	08/25/2014 21:59
1,1,2-Trichloroethane	ND	0.0050	1	08/25/2014 21:59
Trichloroethene	ND	0.0050	1	08/25/2014 21:59
Trichlorofluoromethane	ND	0.0050	1	08/25/2014 21:59
1,2,3-Trichloropropane	ND	0.0050	1	08/25/2014 21:59
1,2,4-Trimethylbenzene	ND	0.0050	1	08/25/2014 21:59
1,3,5-Trimethylbenzene	ND	0.0050	1	08/25/2014 21:59
Vinyl Chloride	ND	0.0050	1	08/25/2014 21:59
Xylenes, Total	ND	0.0050	1	08/25/2014 21:59

Surrogates	REC (%)	Limits	
Dibromofluoromethane	111	70-130	08/25/2014 21:59
Toluene-d8	97	70-130	08/25/2014 21:59
4-BFB	99	70-130	08/25/2014 21:59

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408725
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/20/14 19:30	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	8/20/14	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
F1-4.5	**1408725-001A**	**Soil**	**08/19/2014 14:30**	**GC7**	**94293**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**670**	200	200	08/22/2014 16:43
MTBE	**---**	10	200	08/22/2014 16:43
Benzene	**---**	1.0	200	08/22/2014 16:43
Toluene	**---**	1.0	200	08/22/2014 16:43
Ethylbenzene	**---**	1.0	200	08/22/2014 16:43
Xylenes	**---**	1.0	200	08/22/2014 16:43

Surrogates	REC (%)	Limits	Analytical Comments: d2,d9
2-Fluorotoluene	119	70-130	08/22/2014 16:43

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
D1-4.0	**1408725-002A**	**Soil**	**08/19/2014 16:30**	**GC7**	**94293**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**14**	1.0	1	08/21/2014 18:08
MTBE	**---**	0.050	1	08/21/2014 18:08
Benzene	**---**	0.0050	1	08/21/2014 18:08
Toluene	**---**	0.0050	1	08/21/2014 18:08
Ethylbenzene	**---**	0.0050	1	08/21/2014 18:08
Xylenes	**---**	0.0050	1	08/21/2014 18:08

Surrogates	REC (%)	Limits	Analytical Comments: d1
2-Fluorotoluene	100	70-130	08/21/2014 18:08

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
D2-4.0	**1408725-003A**	**Soil**	**08/19/2014 16:25**	**GC19**	**94293**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**370**	20	20	08/25/2014 15:17
MTBE	**---**	1.5	20	08/25/2014 15:17
Benzene	**---**	0.10	20	08/25/2014 15:17
Toluene	**---**	0.10	20	08/25/2014 15:17
Ethylbenzene	**---**	0.10	20	08/25/2014 15:17
Xylenes	**---**	0.10	20	08/25/2014 15:17

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: d1,c4
2-Fluorotoluene	221	S	70-130	08/25/2014 15:17

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408725
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/20/14 19:30	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	8/20/14	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
D3-4.0	**1408725-004A**	**Soil**	**08/19/2014 15:00**	**GC19**	**94293**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**20**	5.0	5	08/25/2014 15:47
MTBE	**---**	0.25	5	08/25/2014 15:47
Benzene	**---**	0.025	5	08/25/2014 15:47
Toluene	**---**	0.025	5	08/25/2014 15:47
Ethylbenzene	**---**	0.025	5	08/25/2014 15:47
Xylenes	**---**	0.025	5	08/25/2014 15:47

Surrogates	REC (%)	Limits	Analytical Comments: d1
2-Fluorotoluene	114	70-130	08/25/2014 15:47

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
D4-4.0	**1408725-005A**	**Soil**	**08/19/2014 15:15**	**GC19**	**94293**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**190**	5.0	5	08/26/2014 12:31
MTBE	**---**	0.25	5	08/26/2014 12:31
Benzene	**---**	0.025	5	08/26/2014 12:31
Toluene	**---**	0.025	5	08/26/2014 12:31
Ethylbenzene	**---**	0.025	5	08/26/2014 12:31
Xylenes	**---**	0.025	5	08/26/2014 12:31

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: d7,d9,c4
2-Fluorotoluene	174	S	70-130	08/26/2014 12:31

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
D5-4.0	**1408725-006A**	**Soil**	**08/19/2014 15:40**	**GC19**	**94293**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**4.8**	1.0	1	08/26/2014 19:39
MTBE	**---**	0.050	1	08/26/2014 19:39
Benzene	**---**	0.0050	1	08/26/2014 19:39
Toluene	**---**	0.0050	1	08/26/2014 19:39
Ethylbenzene	**---**	0.0050	1	08/26/2014 19:39
Xylenes	**---**	0.0050	1	08/26/2014 19:39

Surrogates	REC (%)	Limits	Analytical Comments: d7,d9
2-Fluorotoluene	100	70-130	08/26/2014 19:39

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408725
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/20/14 19:30	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	8/20/14	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
D6-4.0	**1408725-007A**	**Soil**	**08/19/2014 16:10**	**GC19**	**94293**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**1.4**	1.0	1	08/26/2014 13:01
MTBE	**---**	0.050	1	08/26/2014 13:01
Benzene	**---**	0.0050	1	08/26/2014 13:01
Toluene	**---**	0.0050	1	08/26/2014 13:01
Ethylbenzene	**---**	0.0050	1	08/26/2014 13:01
Xylenes	**---**	0.0050	1	08/26/2014 13:01

Surrogates	REC (%)	Limits	Analytical Comments: d7	
2-Fluorotoluene	91	70-130		08/26/2014 13:01

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408725
Project:	#0398; Auto Depot	**Extraction Method:**	SW3050B
Date Received:	8/20/14 19:30	**Analytical Method:**	SW6010B
Date Prepared:	8/20/14	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
F1-4.5	**1408725-001A**	**Soil/TOTAL**	**08/19/2014 14:30**	**ICP-JY**	**94295**

Analytes	Result	RL	DF	Date Analyzed
Lead	**13**	5.0	1	08/21/2014 18:22

Surrogates	REC (%)	Limits	
Tb 350.917	111	70-130	08/21/2014 18:22

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
D1-4.0	**1408725-002A**	**Soil/TOTAL**	**08/19/2014 16:30**	**ICP-JY**	**94295**

Analytes	Result	RL	DF	Date Analyzed
Lead	**6.2**	5.0	1	08/21/2014 18:24

Surrogates	REC (%)	Limits	
Tb 350.917	107	70-130	08/21/2014 18:24

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
D2-4.0	**1408725-003A**	**Soil/TOTAL**	**08/19/2014 16:25**	**ICP-JY**	**94295**

Analytes	Result	RL	DF	Date Analyzed
Lead	**6.1**	5.0	1	08/21/2014 18:26

Surrogates	REC (%)	Limits	
Tb 350.917	113	70-130	08/21/2014 18:26

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
D3-4.0	**1408725-004A**	**Soil/TOTAL**	**08/19/2014 15:00**	**ICP-JY**	**94295**

Analytes	Result	RL	DF	Date Analyzed
Lead	**8.3**	5.0	1	08/21/2014 18:29

Surrogates	REC (%)	Limits	
Tb 350.917	105	70-130	08/21/2014 18:29

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408725
Project:	#0398; Auto Depot	**Extraction Method:**	SW3050B
Date Received:	8/20/14 19:30	**Analytical Method:**	SW6010B
Date Prepared:	8/20/14	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
D4-4.0	**1408725-005A**	**Soil/TOTAL**	**08/19/2014 15:15**	**ICP-JY**	**94295**

Analytes	Result	RL	DF	Date Analyzed
Lead	**8.5**	5.0	1	08/21/2014 18:36

Surrogates	REC (%)	Limits	
Tb 350.917	108	70-130	08/21/2014 18:36

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
D5-4.0	**1408725-006A**	**Soil/TOTAL**	**08/19/2014 15:40**	**ICP-JY**	**94295**

Analytes	Result	RL	DF	Date Analyzed
Lead	**7.1**	5.0	1	08/21/2014 18:38

Surrogates	REC (%)	Limits	
Tb 350.917	102	70-130	08/21/2014 18:38

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
D6-4.0	**1408725-007A**	**Soil/TOTAL**	**08/19/2014 16:10**	**ICP-JY**	**94295**

Analytes	Result	RL	DF	Date Analyzed
Lead	**9.0**	5.0	1	08/21/2014 18:45

Surrogates	REC (%)	Limits	
Tb 350.917	107	70-130	08/21/2014 18:45

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408725
Project:	#0398; Auto Depot	**Extraction Method:**	SW3550B
Date Received:	8/20/14 19:30	**Analytical Method:**	SW8015B
Date Prepared:	8/20/14	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
F1-4.5	**1408725-001A**	**Soil**	**08/19/2014 14:30**	**GC11B**	**94292**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**570**	1.0	1	08/26/2014 16:06
TPH-Motor Oil (C18-C36)	**110**	5.0	1	08/26/2014 16:06

Surrogates	REC (%)	Limits	Analytical Comments: e1,e4	
C9	119	70-130		08/26/2014 16:06

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
D1-4.0	**1408725-002A**	**Soil**	**08/19/2014 16:30**	**GC11B**	**94292**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**11**	5.0	5	08/26/2014 03:53
TPH-Motor Oil (C18-C36)	ND	25	5	08/26/2014 03:53

Surrogates	REC (%)	Limits	Analytical Comments: e2	
C9	110	70-130		08/26/2014 03:53

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
D2-4.0	**1408725-003A**	**Soil**	**08/19/2014 16:25**	**GC11B**	**94292**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**720**	10	10	08/25/2014 23:18
TPH-Motor Oil (C18-C36)	**390**	50	10	08/25/2014 23:18

Surrogates	REC (%)	Limits	Analytical Comments: e1	
C9	113	70-130		08/25/2014 23:18

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
D3-4.0	**1408725-004A**	**Soil**	**08/19/2014 15:00**	**GC11A**	**94292**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**12**	1.0	1	08/25/2014 22:10
TPH-Motor Oil (C18-C36)	**8.5**	5.0	1	08/25/2014 22:10

Surrogates	REC (%)	Limits	Analytical Comments: e4,e7,e2	
C9	115	70-130		08/25/2014 22:10

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408725
Project:	#0398; Auto Depot	**Extraction Method:**	SW3550B
Date Received:	8/20/14 19:30	**Analytical Method:**	SW8015B
Date Prepared:	8/20/14	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
D4-4.0	**1408725-005A**	**Soil**	**08/19/2014 15:15**	**GC9b**	**94292**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**700**	50	50	08/23/2014 12:33
TPH-Motor Oil (C18-C36)	**440**	250	50	08/23/2014 12:33

Surrogates	REC (%)	Limits	Analytical Comments: e3	
C9	119	70-130		08/23/2014 12:33

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
D5-4.0	**1408725-006A**	**Soil**	**08/19/2014 15:40**	**GC11A**	**94292**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**12**	1.0	1	08/25/2014 21:01
TPH-Motor Oil (C18-C36)	**9.4**	5.0	1	08/25/2014 21:01

Surrogates	REC (%)	Limits	Analytical Comments: e11,e7,e2	
C9	116	70-130		08/25/2014 21:01

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
D6-4.0	**1408725-007A**	**Soil**	**08/19/2014 16:10**	**GC11A**	**94292**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**1.1**	1.0	1	08/25/2014 19:53
TPH-Motor Oil (C18-C36)	ND	5.0	1	08/25/2014 19:53

Surrogates	REC (%)	Limits	Analytical Comments: e2/e11	
C9	104	70-130		08/25/2014 19:53

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1408725
Date Prepared:	8/20/14	**BatchID:**	94294
Date Analyzed:	8/21/14	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#0398; Auto Depot	**Sample ID:**	MB/LCS-94294 1408725-003AMS/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	0.0463	0.0050	0.050	-	92.5	61-115
Benzene	ND	0.0486	0.0050	0.050	-	97.1	75-126
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	0.200	0.050	0.20	-	100	63-125
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	0.0508	0.0050	0.050	-	102	80-118
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	0.0490	0.0040	0.050	-	97.9	74-121
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	0.0484	0.0040	0.050	-	96.9	68-122
1,1-Dichloroethene	ND	0.0422	0.0050	0.050	-	84.5	65-138
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:**	1408725
Date Prepared:	8/20/14	**BatchID:**	94294
Date Analyzed:	8/21/14	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#0398; Auto Depot	**Sample ID:**	MB/LCS-94294 1408725-003AMS/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	0.0479	0.0050	0.050	-	95.8	68-117
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0469	0.0050	0.050	-	93.7	67-116
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	0.0475	0.0050	0.050	-	95	66-118
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	0.0508	0.0050	0.050	-	102	84-129
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	0.0492	0.0050	0.050	-	98.3	82-130
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	0.137	0.131		0.12	109	105	80-120
Toluene-d8	0.124	0.121		0.12	99	96	80-120
4-BFB	0.0127	0.0128		0.012	102	102	80-120

(Cont.)

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1408725
Date Prepared:	8/20/14	**BatchID:**	94294
Date Analyzed:	8/21/14	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#0398; Auto Depot	**Sample ID:**	MB/LCS-94294 1408725-003AMS/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	ND<0.1	NR	NR	-	NR	
Benzene	NR	NR	0	ND<0.1	NR	NR	-	NR	
t-Butyl alcohol (TBA)	NR	NR	0	ND<1	NR	NR	-	NR	
Chlorobenzene	NR	NR	0	ND<0.1	NR	NR	-	NR	
1,2-Dibromoethane (EDB)	NR	NR	0	ND<0.08	NR	NR	-	NR	
1,2-Dichloroethane (1,2-DCA)	NR	NR	0	ND<0.08	NR	NR	-	NR	
1,1-Dichloroethene	NR	NR	0	ND<0.1	NR	NR	-	NR	
Diisopropyl ether (DIPE)	NR	NR	0	ND<0.1	NR	NR	-	NR	
Ethyl tert-butyl ether (ETBE)	NR	NR	0	ND<0.1	NR	NR	-	NR	
Methyl-t-butyl ether (MTBE)	NR	NR	0	ND<0.1	NR	NR	-	NR	
Toluene	NR	NR	0	ND<0.1	NR	NR	-	NR	
Trichloroethene	NR	NR	0	ND<0.1	NR	NR	-	NR	
Surrogate Recovery									
Dibromofluoromethane	NR	NR	0		NR	NR	-	NR	
Toluene-d8	NR	NR	0		NR	NR	-	NR	
4-BFB	NR	NR	0		NR	NR	-	NR	

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1408725
Date Prepared:	8/20/14	**BatchID:**	94293
Date Analyzed:	8/21/14	**Extraction Method:**	SW5030B
Instrument:	GC7	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#0398; Auto Depot	**Sample ID:**	MB/LCS-94293 1408725-002AMS/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	0.569	0.40	0.60	-	94.9	70-130
MTBE	ND	0.0731	0.050	0.10	-	73.1	70-130
Benzene	ND	0.106	0.0050	0.10	-	106	70-130
Toluene	ND	0.103	0.0050	0.10	-	103	70-130
Ethylbenzene	ND	0.113	0.0050	0.10	-	113	70-130
Xylenes	ND	0.336	0.0050	0.30	-	112	70-130
Surrogate Recovery							
2-Fluorotoluene	0.112	0.114		0.10	112	114	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	3.8	NR	NR	-	NR	
MTBE	NR	NR	0	ND	NR	NR	-	NR	
Benzene	NR	NR	0	0.013	NR	NR	-	NR	
Toluene	NR	NR	0	0.048	NR	NR	-	NR	
Ethylbenzene	NR	NR	0	0.028	NR	NR	-	NR	
Xylenes	NR	NR	0	0.017	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:**	1408725
Date Prepared:	8/20/14	**BatchID:**	94295
Date Analyzed:	8/21/14	**Extraction Method:**	SW3050B
Instrument:	ICP-JY	**Analytical Method:**	SW6010B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#0398; Auto Depot	**Sample ID:**	MB/LCS-94295 1408725-004AMS/MSD

QC Summary Report for SW6010B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	47.2	5.0	50	-	94.5	75-125
Surrogate Recovery							
Tb 350.917	528	510		500	106	102	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	58.0	56.0	50	8.340	99.4	95.4	75-125	3.55	25
Surrogate Recovery									
Tb 350.917	573	560	500		115	112	70-130	2.34	20

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1408725
Date Prepared:	8/20/14	**BatchID:**	94292
Date Analyzed:	8/21/14 - 8/22/14	**Extraction Method:**	SW3550B
Instrument:	GC6A	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#0398; Auto Depot	**Sample ID:**	MB/LCS-94292 1408725-001AMS/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	36.0	1.0	40	-	90	70-130
Surrogate Recovery							
C9	18.9	20.1		25	76	80	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	0	570	NR	NR	-	NR	
Surrogate Recovery									
C9	NR	NR	0		NR	NR	-	NR	

McCampbell Analytical, Inc.
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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1408725 **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: #0398; Auto Depot

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

Requested TAT: 5 days

Date Received: **08/20/2014**
Date Printed: **08/20/2014**

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
1408725-001	F1-4.5	Soil	8/19/2014 14:30	☐	A	A	A									
1408725-002	D1-4.0	Soil	8/19/2014 16:30	☐	A	A	A									
1408725-003	D2-4.0	Soil	8/19/2014 16:25	☐	A	A	A									
1408725-004	D3-4.0	Soil	8/19/2014 15:00	☐	A	A	A									
1408725-005	D4-4.0	Soil	8/19/2014 15:15	☐	A	A	A									
1408725-006	D5-4.0	Soil	8/19/2014 15:40	☐	A	A	A									
1408725-007	D6-4.0	Soil	8/19/2014 16:10	☐	A	A	A									

Test Legend:

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

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A contain testgroup.

Prepared by: Jena Alfaro

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: #0398; Auto Depot
Comments:

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

Work Order: 1408725
Date Received: 8/20/2014

☐ 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
1408725-001A	F1-4.5	Soil	Multi-Range TPH(g,d,mo)	1	Stainless Tube	☐	8/19/2014 14:30	5 days		☐	
			SW6010B (Lead)			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1408725-002A	D1-4.0	Soil	Multi-Range TPH(g,d,mo)	1	Stainless Tube	☐	8/19/2014 16:30	5 days		☐	
			SW6010B (Lead)			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1408725-003A	D2-4.0	Soil	Multi-Range TPH(g,d,mo)	1	Stainless Tube	☐	8/19/2014 16:25	5 days		☐	
			SW6010B (Lead)			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1408725-004A	D3-4.0	Soil	Multi-Range TPH(g,d,mo)	1	Stainless Tube	☐	8/19/2014 15:00	5 days		☐	
			SW6010B (Lead)			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1408725-005A	D4-4.0	Soil	Multi-Range TPH(g,d,mo)	1	Stainless Tube	☐	8/19/2014 15:15	5 days		☐	
			SW6010B (Lead)			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1408725-006A	D5-4.0	Soil	Multi-Range TPH(g,d,mo)	1	Stainless Tube	☐	8/19/2014 15:40	5 days		☐	
			SW6010B (Lead)			☐		5 days		☐	

*** 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 =

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WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL
Project: #0398; Auto Depot
Comments:

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

Work Order: 1408725
Date Received: 8/20/2014

☐ 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
1408725-006A	D5-4.0	Soil	SW8260B (VOCs)	1	Stainless Tube	☐	8/19/2014 15:40	5 days		☐	
1408725-007A	D6-4.0	Soil	Multi-Range TPH(g,d,mo)	1	Stainless Tube	☐	8/19/2014 16:10	5 days		☐	
			SW6010B (Lead)			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	

*** 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 =

CHAIN OF CUSTODY RECORD

1408725 PAGE 1 OF 1

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

PROJECT NUMBER: 0398

PROJECT NAME: AUTO DEPOT 4171 BROADWAY OAKLAND, CA

SAMPLED BY: (PRINTED & SIGNATURE) MICHAEL BASS-DESCHENES

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS(ES): TPH-MULTI RANGE (G, D, MO)	EPA 8260B	TOTAL LEAD	PRESERVATIVE	REMARKS
F1-4.5	8/19/14	1430	soil		1	X	X	X	ICE	NORMAL TAT
D1-4.0		1630			1	X	X	X		
D2-4.0		1625			1	X	X	X		
D3-4.0		1500			1	X	X	X		
D4-4.0		1515			1	X	X	X		
D5-4.0		1540			1	X	X	X		
D6-4.0	↓	1610	↓		1	X	X	X	↓	↓

	DATE	TIME			
RELINQUISHED BY: (SIGNATURE)	8/20/14	1100	RECEIVED BY: (SIGNATURE)	Total No. of Samples (This Shipment): 7	LABORATORY: MCCAMPBELL ANALYTICAL, INC
RELINQUISHED BY: (SIGNATURE)	8/20/14	1715	RECEIVED BY: (SIGNATURE)	Total No. of Containers (This Shipment): 7	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:

ICE T 2.5
GOOD CONDITION ___ APPROPRIATE
HEAD SPACE ABSENT ___ CONTAINERS ___
DECHLORINATED IN LAB ___ PRESERVED IN LAB ___

PRESERVATION	VOAS	O & G	METALS	OTHER

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Sample Receipt Checklist

Client Name: **P & D Environmental**
Date and Time Received: **8/20/2014 7:30:03 PM**

Project Name: **#0398; Auto Depot**
LogIn Reviewed by: Jena Alfaro

WorkOrder №: **1408725** Matrix: Soil
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: 2.5°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: WET ICE)		
Total Chlorine present (EPA 522)?	Yes ☐	No ☐	NA ☑

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

Comments:

McCampbell Analytical, Inc.

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Analytical Report

WorkOrder: 1408878

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

Project Contact: Paul King
Project P.O.:
Project Name: #0398; Auto Depot 4171 Broadway

Project Received: 08/25/2014

Analytical Report reviewed & approved for release on 09/03/2014 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: #0398; Auto Depot 4171 Broadway
WorkOrder: 1408878

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.
PF	Prep Factor
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

S	spike recovery outside accepted recovery limits
a3	sample diluted due to high organic content.
c4	surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.
d1	weakly modified or unmodified gasoline is significant
d7	strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
d9	no recognizable pattern
e1	unmodified or weakly modified diesel is significant
e2	diesel range compounds are significant; no recognizable pattern
e4/e11	gasoline range compounds are significant.; and/or stoddard solvent/mineral spirit (?)
e4	gasoline range compounds are significant.
e6	one to a few isolated peaks present in the TPH(d/mo) chromatogram
e7	oil range compounds are significant
e11/e2	stoddard solvent/mineral spirit (?); and/or diesel range compounds are significant; no recognizable pattern
e11	stoddard solvent/mineral spirit (?)

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8260B
Date Prepared:	8/25/14	**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
B1-10.0	**1408878-001A**	**Soil**	**08/22/2014 10:00**	**GC38**	**94437**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	20	200	08/29/2014 14:40
tert-Amyl methyl ether (TAME)	ND	1.0	200	08/29/2014 14:40
Benzene	ND	1.0	200	08/29/2014 14:40
Bromobenzene	ND	1.0	200	08/29/2014 14:40
Bromochloromethane	ND	1.0	200	08/29/2014 14:40
Bromodichloromethane	ND	1.0	200	08/29/2014 14:40
Bromoform	ND	1.0	200	08/29/2014 14:40
Bromomethane	ND	1.0	200	08/29/2014 14:40
2-Butanone (MEK)	ND	4.0	200	08/29/2014 14:40
t-Butyl alcohol (TBA)	ND	10	200	08/29/2014 14:40
n-Butyl benzene	**6.6**	1.0	200	08/29/2014 14:40
sec-Butyl benzene	**2.5**	1.0	200	08/29/2014 14:40
tert-Butyl benzene	ND	1.0	200	08/29/2014 14:40
Carbon Disulfide	ND	1.0	200	08/29/2014 14:40
Carbon Tetrachloride	ND	1.0	200	08/29/2014 14:40
Chlorobenzene	ND	1.0	200	08/29/2014 14:40
Chloroethane	ND	1.0	200	08/29/2014 14:40
Chloroform	ND	1.0	200	08/29/2014 14:40
Chloromethane	ND	1.0	200	08/29/2014 14:40
2-Chlorotoluene	ND	1.0	200	08/29/2014 14:40
4-Chlorotoluene	ND	1.0	200	08/29/2014 14:40
Dibromochloromethane	ND	1.0	200	08/29/2014 14:40
1,2-Dibromo-3-chloropropane	ND	0.80	200	08/29/2014 14:40
1,2-Dibromoethane (EDB)	ND	0.80	200	08/29/2014 14:40
Dibromomethane	ND	1.0	200	08/29/2014 14:40
1,2-Dichlorobenzene	ND	1.0	200	08/29/2014 14:40
1,3-Dichlorobenzene	ND	1.0	200	08/29/2014 14:40
1,4-Dichlorobenzene	ND	1.0	200	08/29/2014 14:40
Dichlorodifluoromethane	ND	1.0	200	08/29/2014 14:40
1,1-Dichloroethane	ND	1.0	200	08/29/2014 14:40
1,2-Dichloroethane (1,2-DCA)	ND	0.80	200	08/29/2014 14:40
1,1-Dichloroethene	ND	1.0	200	08/29/2014 14:40
cis-1,2-Dichloroethene	ND	1.0	200	08/29/2014 14:40
trans-1,2-Dichloroethene	ND	1.0	200	08/29/2014 14:40
1,2-Dichloropropane	ND	1.0	200	08/29/2014 14:40
1,3-Dichloropropane	ND	1.0	200	08/29/2014 14:40
2,2-Dichloropropane	ND	1.0	200	08/29/2014 14:40
1,1-Dichloropropene	ND	1.0	200	08/29/2014 14:40

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Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
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Date Prepared:	8/25/14	**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
B1-10.0	**1408878-001A**	**Soil**	**08/22/2014 10:00**	**GC38**	**94437**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	1.0	200	08/29/2014 14:40
trans-1,3-Dichloropropene	ND	1.0	200	08/29/2014 14:40
Diisopropyl ether (DIPE)	ND	1.0	200	08/29/2014 14:40
Ethylbenzene	ND	1.0	200	08/29/2014 14:40
Ethyl tert-butyl ether (ETBE)	ND	1.0	200	08/29/2014 14:40
Freon 113	ND	20	200	08/29/2014 14:40
Hexachlorobutadiene	ND	1.0	200	08/29/2014 14:40
Hexachloroethane	ND	1.0	200	08/29/2014 14:40
2-Hexanone	ND	1.0	200	08/29/2014 14:40
Isopropylbenzene	**4.8**	1.0	200	08/29/2014 14:40
4-Isopropyl toluene	ND	1.0	200	08/29/2014 14:40
Methyl-t-butyl ether (MTBE)	ND	1.0	200	08/29/2014 14:40
Methylene chloride	ND	1.0	200	08/29/2014 14:40
4-Methyl-2-pentanone (MIBK)	ND	1.0	200	08/29/2014 14:40
Naphthalene	ND	1.0	200	08/29/2014 14:40
n-Propyl benzene	**15**	1.0	200	08/29/2014 14:40
Styrene	ND	1.0	200	08/29/2014 14:40
1,1,1,2-Tetrachloroethane	ND	1.0	200	08/29/2014 14:40
1,1,2,2-Tetrachloroethane	ND	1.0	200	08/29/2014 14:40
Tetrachloroethene	ND	1.0	200	08/29/2014 14:40
Toluene	ND	1.0	200	08/29/2014 14:40
1,2,3-Trichlorobenzene	ND	1.0	200	08/29/2014 14:40
1,2,4-Trichlorobenzene	ND	1.0	200	08/29/2014 14:40
1,1,1-Trichloroethane	ND	1.0	200	08/29/2014 14:40
1,1,2-Trichloroethane	ND	1.0	200	08/29/2014 14:40
Trichloroethene	ND	1.0	200	08/29/2014 14:40
Trichlorofluoromethane	ND	1.0	200	08/29/2014 14:40
1,2,3-Trichloropropane	ND	1.0	200	08/29/2014 14:40
1,2,4-Trimethylbenzene	ND	1.0	200	08/29/2014 14:40
1,3,5-Trimethylbenzene	ND	1.0	200	08/29/2014 14:40
Vinyl Chloride	ND	1.0	200	08/29/2014 14:40
Xylenes, Total	ND	1.0	200	08/29/2014 14:40

Surrogates	REC (%)	Limits	
Dibromofluoromethane	106	70-130	08/29/2014 14:40
Toluene-d8	90	70-130	08/29/2014 14:40
4-BFB	93	70-130	08/29/2014 14:40

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B1-12.0	1408878-002A	Soil	08/22/2014 10:20	GC38	94437

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	08/28/2014 11:57
tert-Amyl methyl ether (TAME)	ND	0.0050	1	08/28/2014 11:57
Benzene	ND	0.0050	1	08/28/2014 11:57
Bromobenzene	ND	0.0050	1	08/28/2014 11:57
Bromochloromethane	ND	0.0050	1	08/28/2014 11:57
Bromodichloromethane	ND	0.0050	1	08/28/2014 11:57
Bromoform	ND	0.0050	1	08/28/2014 11:57
Bromomethane	ND	0.0050	1	08/28/2014 11:57
2-Butanone (MEK)	ND	0.020	1	08/28/2014 11:57
t-Butyl alcohol (TBA)	ND	0.050	1	08/28/2014 11:57
n-Butyl benzene	ND	0.0050	1	08/28/2014 11:57
sec-Butyl benzene	ND	0.0050	1	08/28/2014 11:57
tert-Butyl benzene	ND	0.0050	1	08/28/2014 11:57
Carbon Disulfide	ND	0.0050	1	08/28/2014 11:57
Carbon Tetrachloride	ND	0.0050	1	08/28/2014 11:57
Chlorobenzene	ND	0.0050	1	08/28/2014 11:57
Chloroethane	ND	0.0050	1	08/28/2014 11:57
Chloroform	ND	0.0050	1	08/28/2014 11:57
Chloromethane	ND	0.0050	1	08/28/2014 11:57
2-Chlorotoluene	ND	0.0050	1	08/28/2014 11:57
4-Chlorotoluene	ND	0.0050	1	08/28/2014 11:57
Dibromochloromethane	ND	0.0050	1	08/28/2014 11:57
1,2-Dibromo-3-chloropropane	ND	0.0040	1	08/28/2014 11:57
1,2-Dibromoethane (EDB)	ND	0.0040	1	08/28/2014 11:57
Dibromomethane	ND	0.0050	1	08/28/2014 11:57
1,2-Dichlorobenzene	ND	0.0050	1	08/28/2014 11:57
1,3-Dichlorobenzene	ND	0.0050	1	08/28/2014 11:57
1,4-Dichlorobenzene	ND	0.0050	1	08/28/2014 11:57
Dichlorodifluoromethane	ND	0.0050	1	08/28/2014 11:57
1,1-Dichloroethane	ND	0.0050	1	08/28/2014 11:57
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	08/28/2014 11:57
1,1-Dichloroethene	ND	0.0050	1	08/28/2014 11:57
cis-1,2-Dichloroethene	ND	0.0050	1	08/28/2014 11:57
trans-1,2-Dichloroethene	ND	0.0050	1	08/28/2014 11:57
1,2-Dichloropropane	ND	0.0050	1	08/28/2014 11:57
1,3-Dichloropropane	ND	0.0050	1	08/28/2014 11:57
2,2-Dichloropropane	ND	0.0050	1	08/28/2014 11:57
1,1-Dichloropropene	ND	0.0050	1	08/28/2014 11:57

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Date Prepared:	8/25/14	**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
B1-12.0	**1408878-002A**	**Soil**	**08/22/2014 10:20**	**GC38**	**94437**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	08/28/2014 11:57
trans-1,3-Dichloropropene	ND	0.0050	1	08/28/2014 11:57
Diisopropyl ether (DIPE)	ND	0.0050	1	08/28/2014 11:57
Ethylbenzene	ND	0.0050	1	08/28/2014 11:57
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	08/28/2014 11:57
Freon 113	ND	0.10	1	08/28/2014 11:57
Hexachlorobutadiene	ND	0.0050	1	08/28/2014 11:57
Hexachloroethane	ND	0.0050	1	08/28/2014 11:57
2-Hexanone	ND	0.0050	1	08/28/2014 11:57
Isopropylbenzene	ND	0.0050	1	08/28/2014 11:57
4-Isopropyl toluene	ND	0.0050	1	08/28/2014 11:57
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	08/28/2014 11:57
Methylene chloride	ND	0.0050	1	08/28/2014 11:57
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	08/28/2014 11:57
Naphthalene	ND	0.0050	1	08/28/2014 11:57
n-Propyl benzene	**0.016**	0.0050	1	08/28/2014 11:57
Styrene	ND	0.0050	1	08/28/2014 11:57
1,1,1,2-Tetrachloroethane	ND	0.0050	1	08/28/2014 11:57
1,1,2,2-Tetrachloroethane	ND	0.0050	1	08/28/2014 11:57
Tetrachloroethene	ND	0.0050	1	08/28/2014 11:57
Toluene	ND	0.0050	1	08/28/2014 11:57
1,2,3-Trichlorobenzene	ND	0.0050	1	08/28/2014 11:57
1,2,4-Trichlorobenzene	ND	0.0050	1	08/28/2014 11:57
1,1,1-Trichloroethane	ND	0.0050	1	08/28/2014 11:57
1,1,2-Trichloroethane	ND	0.0050	1	08/28/2014 11:57
Trichloroethene	ND	0.0050	1	08/28/2014 11:57
Trichlorofluoromethane	ND	0.0050	1	08/28/2014 11:57
1,2,3-Trichloropropane	ND	0.0050	1	08/28/2014 11:57
1,2,4-Trimethylbenzene	**0.060**	0.0050	1	08/28/2014 11:57
1,3,5-Trimethylbenzene	**0.014**	0.0050	1	08/28/2014 11:57
Vinyl Chloride	ND	0.0050	1	08/28/2014 11:57
Xylenes, Total	ND	0.0050	1	08/28/2014 11:57

Surrogates	REC (%)	Limits	
Dibromofluoromethane	103	70-130	08/28/2014 11:57
Toluene-d8	96	70-130	08/28/2014 11:57
4-BFB	97	70-130	08/28/2014 11:57

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Date Received:	8/25/14 19:05	**Analytical Method:**	SW8260B
Date Prepared:	8/25/14	**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
B1-15.0	**1408878-003A**	**Soil**	**08/22/2014 10:25**	**GC10**	**94437**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	08/27/2014 21:33
tert-Amyl methyl ether (TAME)	ND	0.0050	1	08/27/2014 21:33
Benzene	ND	0.0050	1	08/27/2014 21:33
Bromobenzene	ND	0.0050	1	08/27/2014 21:33
Bromochloromethane	ND	0.0050	1	08/27/2014 21:33
Bromodichloromethane	ND	0.0050	1	08/27/2014 21:33
Bromoform	ND	0.0050	1	08/27/2014 21:33
Bromomethane	ND	0.0050	1	08/27/2014 21:33
2-Butanone (MEK)	ND	0.020	1	08/27/2014 21:33
t-Butyl alcohol (TBA)	ND	0.050	1	08/27/2014 21:33
n-Butyl benzene	**0.021**	0.0050	1	08/27/2014 21:33
sec-Butyl benzene	ND	0.0050	1	08/27/2014 21:33
tert-Butyl benzene	ND	0.0050	1	08/27/2014 21:33
Carbon Disulfide	ND	0.0050	1	08/27/2014 21:33
Carbon Tetrachloride	ND	0.0050	1	08/27/2014 21:33
Chlorobenzene	ND	0.0050	1	08/27/2014 21:33
Chloroethane	ND	0.0050	1	08/27/2014 21:33
Chloroform	ND	0.0050	1	08/27/2014 21:33
Chloromethane	ND	0.0050	1	08/27/2014 21:33
2-Chlorotoluene	ND	0.0050	1	08/27/2014 21:33
4-Chlorotoluene	ND	0.0050	1	08/27/2014 21:33
Dibromochloromethane	ND	0.0050	1	08/27/2014 21:33
1,2-Dibromo-3-chloropropane	ND	0.0040	1	08/27/2014 21:33
1,2-Dibromoethane (EDB)	ND	0.0040	1	08/27/2014 21:33
Dibromomethane	ND	0.0050	1	08/27/2014 21:33
1,2-Dichlorobenzene	ND	0.0050	1	08/27/2014 21:33
1,3-Dichlorobenzene	ND	0.0050	1	08/27/2014 21:33
1,4-Dichlorobenzene	ND	0.0050	1	08/27/2014 21:33
Dichlorodifluoromethane	ND	0.0050	1	08/27/2014 21:33
1,1-Dichloroethane	ND	0.0050	1	08/27/2014 21:33
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	08/27/2014 21:33
1,1-Dichloroethene	ND	0.0050	1	08/27/2014 21:33
cis-1,2-Dichloroethene	ND	0.0050	1	08/27/2014 21:33
trans-1,2-Dichloroethene	ND	0.0050	1	08/27/2014 21:33
1,2-Dichloropropane	ND	0.0050	1	08/27/2014 21:33
1,3-Dichloropropane	ND	0.0050	1	08/27/2014 21:33
2,2-Dichloropropane	ND	0.0050	1	08/27/2014 21:33
1,1-Dichloropropene	ND	0.0050	1	08/27/2014 21:33

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Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8260B
Date Prepared:	8/25/14	**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
B1-15.0	**1408878-003A**	**Soil**	**08/22/2014 10:25**	**GC10**	**94437**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	08/27/2014 21:33
trans-1,3-Dichloropropene	ND	0.0050	1	08/27/2014 21:33
Diisopropyl ether (DIPE)	ND	0.0050	1	08/27/2014 21:33
Ethylbenzene	**0.0074**	0.0050	1	08/27/2014 21:33
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	08/27/2014 21:33
Freon 113	ND	0.10	1	08/27/2014 21:33
Hexachlorobutadiene	ND	0.0050	1	08/27/2014 21:33
Hexachloroethane	ND	0.0050	1	08/27/2014 21:33
2-Hexanone	ND	0.0050	1	08/27/2014 21:33
Isopropylbenzene	ND	0.0050	1	08/27/2014 21:33
4-Isopropyl toluene	ND	0.0050	1	08/27/2014 21:33
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	08/27/2014 21:33
Methylene chloride	ND	0.0050	1	08/27/2014 21:33
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	08/27/2014 21:33
Naphthalene	**0.023**	0.0050	1	08/27/2014 21:33
n-Propyl benzene	**0.011**	0.0050	1	08/27/2014 21:33
Styrene	ND	0.0050	1	08/27/2014 21:33
1,1,1,2-Tetrachloroethane	ND	0.0050	1	08/27/2014 21:33
1,1,2,2-Tetrachloroethane	ND	0.0050	1	08/27/2014 21:33
Tetrachloroethene	ND	0.0050	1	08/27/2014 21:33
Toluene	ND	0.0050	1	08/27/2014 21:33
1,2,3-Trichlorobenzene	ND	0.0050	1	08/27/2014 21:33
1,2,4-Trichlorobenzene	ND	0.0050	1	08/27/2014 21:33
1,1,1-Trichloroethane	ND	0.0050	1	08/27/2014 21:33
1,1,2-Trichloroethane	ND	0.0050	1	08/27/2014 21:33
Trichloroethene	ND	0.0050	1	08/27/2014 21:33
Trichlorofluoromethane	ND	0.0050	1	08/27/2014 21:33
1,2,3-Trichloropropane	ND	0.0050	1	08/27/2014 21:33
1,2,4-Trimethylbenzene	**0.12**	0.0050	1	08/27/2014 21:33
1,3,5-Trimethylbenzene	**0.024**	0.0050	1	08/27/2014 21:33
Vinyl Chloride	ND	0.0050	1	08/27/2014 21:33
Xylenes, Total	**0.068**	0.0050	1	08/27/2014 21:33

Surrogates	REC (%)	Limits	
Dibromofluoromethane	91	70-130	08/27/2014 21:33
Toluene-d8	94	70-130	08/27/2014 21:33
4-BFB	110	70-130	08/27/2014 21:33

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8260B
Date Prepared:	8/25/14	**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
B2-10.0	**1408878-004A**	**Soil**	**08/22/2014 11:40**	**GC38**	**94452**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	08/29/2014 15:20
tert-Amyl methyl ether (TAME)	ND	0.0050	1	08/29/2014 15:20
Benzene	ND	0.0050	1	08/29/2014 15:20
Bromobenzene	ND	0.0050	1	08/29/2014 15:20
Bromochloromethane	ND	0.0050	1	08/29/2014 15:20
Bromodichloromethane	ND	0.0050	1	08/29/2014 15:20
Bromoform	ND	0.0050	1	08/29/2014 15:20
Bromomethane	ND	0.0050	1	08/29/2014 15:20
2-Butanone (MEK)	ND	0.020	1	08/29/2014 15:20
t-Butyl alcohol (TBA)	ND	0.050	1	08/29/2014 15:20
n-Butyl benzene	ND	0.0050	1	08/29/2014 15:20
sec-Butyl benzene	ND	0.0050	1	08/29/2014 15:20
tert-Butyl benzene	ND	0.0050	1	08/29/2014 15:20
Carbon Disulfide	ND	0.0050	1	08/29/2014 15:20
Carbon Tetrachloride	ND	0.0050	1	08/29/2014 15:20
Chlorobenzene	ND	0.0050	1	08/29/2014 15:20
Chloroethane	ND	0.0050	1	08/29/2014 15:20
Chloroform	ND	0.0050	1	08/29/2014 15:20
Chloromethane	ND	0.0050	1	08/29/2014 15:20
2-Chlorotoluene	ND	0.0050	1	08/29/2014 15:20
4-Chlorotoluene	ND	0.0050	1	08/29/2014 15:20
Dibromochloromethane	ND	0.0050	1	08/29/2014 15:20
1,2-Dibromo-3-chloropropane	ND	0.0040	1	08/29/2014 15:20
1,2-Dibromoethane (EDB)	ND	0.0040	1	08/29/2014 15:20
Dibromomethane	ND	0.0050	1	08/29/2014 15:20
1,2-Dichlorobenzene	ND	0.0050	1	08/29/2014 15:20
1,3-Dichlorobenzene	ND	0.0050	1	08/29/2014 15:20
1,4-Dichlorobenzene	ND	0.0050	1	08/29/2014 15:20
Dichlorodifluoromethane	ND	0.0050	1	08/29/2014 15:20
1,1-Dichloroethane	ND	0.0050	1	08/29/2014 15:20
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	08/29/2014 15:20
1,1-Dichloroethene	ND	0.0050	1	08/29/2014 15:20
cis-1,2-Dichloroethene	ND	0.0050	1	08/29/2014 15:20
trans-1,2-Dichloroethene	ND	0.0050	1	08/29/2014 15:20
1,2-Dichloropropane	ND	0.0050	1	08/29/2014 15:20
1,3-Dichloropropane	ND	0.0050	1	08/29/2014 15:20
2,2-Dichloropropane	ND	0.0050	1	08/29/2014 15:20
1,1-Dichloropropene	ND	0.0050	1	08/29/2014 15:20

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8260B
Date Prepared:	8/25/14	**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
B2-10.0	**1408878-004A**	**Soil**	**08/22/2014 11:40**	**GC38**	**94452**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	08/29/2014 15:20
trans-1,3-Dichloropropene	ND	0.0050	1	08/29/2014 15:20
Diisopropyl ether (DIPE)	ND	0.0050	1	08/29/2014 15:20
Ethylbenzene	ND	0.0050	1	08/29/2014 15:20
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	08/29/2014 15:20
Freon 113	ND	0.10	1	08/29/2014 15:20
Hexachlorobutadiene	ND	0.0050	1	08/29/2014 15:20
Hexachloroethane	ND	0.0050	1	08/29/2014 15:20
2-Hexanone	ND	0.0050	1	08/29/2014 15:20
Isopropylbenzene	ND	0.0050	1	08/29/2014 15:20
4-Isopropyl toluene	ND	0.0050	1	08/29/2014 15:20
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	08/29/2014 15:20
Methylene chloride	ND	0.0050	1	08/29/2014 15:20
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	08/29/2014 15:20
Naphthalene	ND	0.0050	1	08/29/2014 15:20
n-Propyl benzene	ND	0.0050	1	08/29/2014 15:20
Styrene	ND	0.0050	1	08/29/2014 15:20
1,1,1,2-Tetrachloroethane	ND	0.0050	1	08/29/2014 15:20
1,1,2,2-Tetrachloroethane	ND	0.0050	1	08/29/2014 15:20
Tetrachloroethene	ND	0.0050	1	08/29/2014 15:20
Toluene	ND	0.0050	1	08/29/2014 15:20
1,2,3-Trichlorobenzene	ND	0.0050	1	08/29/2014 15:20
1,2,4-Trichlorobenzene	ND	0.0050	1	08/29/2014 15:20
1,1,1-Trichloroethane	ND	0.0050	1	08/29/2014 15:20
1,1,2-Trichloroethane	ND	0.0050	1	08/29/2014 15:20
Trichloroethene	ND	0.0050	1	08/29/2014 15:20
Trichlorofluoromethane	ND	0.0050	1	08/29/2014 15:20
1,2,3-Trichloropropane	ND	0.0050	1	08/29/2014 15:20
1,2,4-Trimethylbenzene	ND	0.0050	1	08/29/2014 15:20
1,3,5-Trimethylbenzene	ND	0.0050	1	08/29/2014 15:20
Vinyl Chloride	ND	0.0050	1	08/29/2014 15:20
Xylenes, Total	ND	0.0050	1	08/29/2014 15:20

Surrogates	REC (%)	Limits	
Dibromofluoromethane	103	70-130	08/29/2014 15:20
Toluene-d8	97	70-130	08/29/2014 15:20
4-BFB	114	70-130	08/29/2014 15:20

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8260B
Date Prepared:	8/25/14	**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
B2-15.0	**1408878-005A**	**Soil**	**08/22/2014 11:45**	**GC38**	**94452**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	08/28/2014 00:28
tert-Amyl methyl ether (TAME)	ND	0.0050	1	08/28/2014 00:28
Benzene	ND	0.0050	1	08/28/2014 00:28
Bromobenzene	ND	0.0050	1	08/28/2014 00:28
Bromochloromethane	ND	0.0050	1	08/28/2014 00:28
Bromodichloromethane	ND	0.0050	1	08/28/2014 00:28
Bromoform	ND	0.0050	1	08/28/2014 00:28
Bromomethane	ND	0.0050	1	08/28/2014 00:28
2-Butanone (MEK)	ND	0.020	1	08/28/2014 00:28
t-Butyl alcohol (TBA)	ND	0.050	1	08/28/2014 00:28
n-Butyl benzene	ND	0.0050	1	08/28/2014 00:28
sec-Butyl benzene	ND	0.0050	1	08/28/2014 00:28
tert-Butyl benzene	ND	0.0050	1	08/28/2014 00:28
Carbon Disulfide	ND	0.0050	1	08/28/2014 00:28
Carbon Tetrachloride	ND	0.0050	1	08/28/2014 00:28
Chlorobenzene	ND	0.0050	1	08/28/2014 00:28
Chloroethane	ND	0.0050	1	08/28/2014 00:28
Chloroform	ND	0.0050	1	08/28/2014 00:28
Chloromethane	ND	0.0050	1	08/28/2014 00:28
2-Chlorotoluene	ND	0.0050	1	08/28/2014 00:28
4-Chlorotoluene	ND	0.0050	1	08/28/2014 00:28
Dibromochloromethane	ND	0.0050	1	08/28/2014 00:28
1,2-Dibromo-3-chloropropane	ND	0.0040	1	08/28/2014 00:28
1,2-Dibromoethane (EDB)	ND	0.0040	1	08/28/2014 00:28
Dibromomethane	ND	0.0050	1	08/28/2014 00:28
1,2-Dichlorobenzene	ND	0.0050	1	08/28/2014 00:28
1,3-Dichlorobenzene	ND	0.0050	1	08/28/2014 00:28
1,4-Dichlorobenzene	ND	0.0050	1	08/28/2014 00:28
Dichlorodifluoromethane	ND	0.0050	1	08/28/2014 00:28
1,1-Dichloroethane	ND	0.0050	1	08/28/2014 00:28
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	08/28/2014 00:28
1,1-Dichloroethene	ND	0.0050	1	08/28/2014 00:28
cis-1,2-Dichloroethene	ND	0.0050	1	08/28/2014 00:28
trans-1,2-Dichloroethene	ND	0.0050	1	08/28/2014 00:28
1,2-Dichloropropane	ND	0.0050	1	08/28/2014 00:28
1,3-Dichloropropane	ND	0.0050	1	08/28/2014 00:28
2,2-Dichloropropane	ND	0.0050	1	08/28/2014 00:28
1,1-Dichloropropene	ND	0.0050	1	08/28/2014 00:28

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8260B
Date Prepared:	8/25/14	**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
B2-15.0	**1408878-005A**	**Soil**	**08/22/2014 11:45**	**GC38**	**94452**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	08/28/2014 00:28
trans-1,3-Dichloropropene	ND	0.0050	1	08/28/2014 00:28
Diisopropyl ether (DIPE)	ND	0.0050	1	08/28/2014 00:28
Ethylbenzene	ND	0.0050	1	08/28/2014 00:28
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	08/28/2014 00:28
Freon 113	ND	0.10	1	08/28/2014 00:28
Hexachlorobutadiene	ND	0.0050	1	08/28/2014 00:28
Hexachloroethane	ND	0.0050	1	08/28/2014 00:28
2-Hexanone	ND	0.0050	1	08/28/2014 00:28
Isopropylbenzene	ND	0.0050	1	08/28/2014 00:28
4-Isopropyl toluene	ND	0.0050	1	08/28/2014 00:28
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	08/28/2014 00:28
Methylene chloride	ND	0.0050	1	08/28/2014 00:28
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	08/28/2014 00:28
Naphthalene	ND	0.0050	1	08/28/2014 00:28
n-Propyl benzene	ND	0.0050	1	08/28/2014 00:28
Styrene	ND	0.0050	1	08/28/2014 00:28
1,1,1,2-Tetrachloroethane	ND	0.0050	1	08/28/2014 00:28
1,1,2,2-Tetrachloroethane	ND	0.0050	1	08/28/2014 00:28
Tetrachloroethene	ND	0.0050	1	08/28/2014 00:28
Toluene	ND	0.0050	1	08/28/2014 00:28
1,2,3-Trichlorobenzene	ND	0.0050	1	08/28/2014 00:28
1,2,4-Trichlorobenzene	ND	0.0050	1	08/28/2014 00:28
1,1,1-Trichloroethane	ND	0.0050	1	08/28/2014 00:28
1,1,2-Trichloroethane	ND	0.0050	1	08/28/2014 00:28
Trichloroethene	ND	0.0050	1	08/28/2014 00:28
Trichlorofluoromethane	ND	0.0050	1	08/28/2014 00:28
1,2,3-Trichloropropane	ND	0.0050	1	08/28/2014 00:28
1,2,4-Trimethylbenzene	ND	0.0050	1	08/28/2014 00:28
1,3,5-Trimethylbenzene	ND	0.0050	1	08/28/2014 00:28
Vinyl Chloride	ND	0.0050	1	08/28/2014 00:28
Xylenes, Total	ND	0.0050	1	08/28/2014 00:28

Surrogates	REC (%)	Limits	
Dibromofluoromethane	113	70-130	08/28/2014 00:28
Toluene-d8	97	70-130	08/28/2014 00:28
4-BFB	104	70-130	08/28/2014 00:28

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8260B
Date Prepared:	8/25/14	**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
B3-10.0	**1408878-006A**	**Soil**	**08/22/2014 12:40**	**GC38**	**94452**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	1.0	10	08/29/2014 16:41
tert-Amyl methyl ether (TAME)	ND	0.050	10	08/29/2014 16:41
Benzene	ND	0.050	10	08/29/2014 16:41
Bromobenzene	ND	0.050	10	08/29/2014 16:41
Bromochloromethane	ND	0.050	10	08/29/2014 16:41
Bromodichloromethane	ND	0.050	10	08/29/2014 16:41
Bromoform	ND	0.050	10	08/29/2014 16:41
Bromomethane	ND	0.050	10	08/29/2014 16:41
2-Butanone (MEK)	ND	0.20	10	08/29/2014 16:41
t-Butyl alcohol (TBA)	ND	0.50	10	08/29/2014 16:41
n-Butyl benzene	**0.70**	0.050	10	08/29/2014 16:41
sec-Butyl benzene	**0.24**	0.050	10	08/29/2014 16:41
tert-Butyl benzene	ND	0.050	10	08/29/2014 16:41
Carbon Disulfide	ND	0.050	10	08/29/2014 16:41
Carbon Tetrachloride	ND	0.050	10	08/29/2014 16:41
Chlorobenzene	ND	0.050	10	08/29/2014 16:41
Chloroethane	ND	0.050	10	08/29/2014 16:41
Chloroform	ND	0.050	10	08/29/2014 16:41
Chloromethane	ND	0.050	10	08/29/2014 16:41
2-Chlorotoluene	ND	0.050	10	08/29/2014 16:41
4-Chlorotoluene	ND	0.050	10	08/29/2014 16:41
Dibromochloromethane	ND	0.050	10	08/29/2014 16:41
1,2-Dibromo-3-chloropropane	ND	0.040	10	08/29/2014 16:41
1,2-Dibromoethane (EDB)	ND	0.040	10	08/29/2014 16:41
Dibromomethane	ND	0.050	10	08/29/2014 16:41
1,2-Dichlorobenzene	ND	0.050	10	08/29/2014 16:41
1,3-Dichlorobenzene	ND	0.050	10	08/29/2014 16:41
1,4-Dichlorobenzene	ND	0.050	10	08/29/2014 16:41
Dichlorodifluoromethane	ND	0.050	10	08/29/2014 16:41
1,1-Dichloroethane	ND	0.050	10	08/29/2014 16:41
1,2-Dichloroethane (1,2-DCA)	ND	0.040	10	08/29/2014 16:41
1,1-Dichloroethene	ND	0.050	10	08/29/2014 16:41
cis-1,2-Dichloroethene	ND	0.050	10	08/29/2014 16:41
trans-1,2-Dichloroethene	ND	0.050	10	08/29/2014 16:41
1,2-Dichloropropane	ND	0.050	10	08/29/2014 16:41
1,3-Dichloropropane	ND	0.050	10	08/29/2014 16:41
2,2-Dichloropropane	ND	0.050	10	08/29/2014 16:41
1,1-Dichloropropene	ND	0.050	10	08/29/2014 16:41

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8260B
Date Prepared:	8/25/14	**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
B3-10.0	**1408878-006A**	**Soil**	**08/22/2014 12:40**	**GC38**	**94452**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.050	10	08/29/2014 16:41
trans-1,3-Dichloropropene	ND	0.050	10	08/29/2014 16:41
Diisopropyl ether (DIPE)	ND	0.050	10	08/29/2014 16:41
Ethylbenzene	ND	0.050	10	08/29/2014 16:41
Ethyl tert-butyl ether (ETBE)	ND	0.050	10	08/29/2014 16:41
Freon 113	ND	1.0	10	08/29/2014 16:41
Hexachlorobutadiene	ND	0.050	10	08/29/2014 16:41
Hexachloroethane	ND	0.050	10	08/29/2014 16:41
2-Hexanone	ND	0.050	10	08/29/2014 16:41
Isopropylbenzene	**0.35**	0.050	10	08/29/2014 16:41
4-Isopropyl toluene	ND	0.050	10	08/29/2014 16:41
Methyl-t-butyl ether (MTBE)	ND	0.050	10	08/29/2014 16:41
Methylene chloride	ND	0.050	10	08/29/2014 16:41
4-Methyl-2-pentanone (MIBK)	ND	0.050	10	08/29/2014 16:41
Naphthalene	ND	0.050	10	08/29/2014 16:41
n-Propyl benzene	**1.2**	0.050	10	08/29/2014 16:41
Styrene	ND	0.050	10	08/29/2014 16:41
1,1,1,2-Tetrachloroethane	ND	0.050	10	08/29/2014 16:41
1,1,2,2-Tetrachloroethane	ND	0.050	10	08/29/2014 16:41
Tetrachloroethene	ND	0.050	10	08/29/2014 16:41
Toluene	ND	0.050	10	08/29/2014 16:41
1,2,3-Trichlorobenzene	ND	0.050	10	08/29/2014 16:41
1,2,4-Trichlorobenzene	ND	0.050	10	08/29/2014 16:41
1,1,1-Trichloroethane	ND	0.050	10	08/29/2014 16:41
1,1,2-Trichloroethane	ND	0.050	10	08/29/2014 16:41
Trichloroethene	ND	0.050	10	08/29/2014 16:41
Trichlorofluoromethane	ND	0.050	10	08/29/2014 16:41
1,2,3-Trichloropropane	ND	0.050	10	08/29/2014 16:41
1,2,4-Trimethylbenzene	ND	0.050	10	08/29/2014 16:41
1,3,5-Trimethylbenzene	ND	0.050	10	08/29/2014 16:41
Vinyl Chloride	ND	0.050	10	08/29/2014 16:41
Xylenes, Total	ND	0.050	10	08/29/2014 16:41

Surrogates	REC (%)	Limits	Analytical Comments: a3	
Dibromofluoromethane	102	70-130		08/29/2014 16:41
Toluene-d8	92	70-130		08/29/2014 16:41
4-BFB	109	70-130		08/29/2014 16:41

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8260B
Date Prepared:	8/25/14	**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
B3-15.0	**1408878-007A**	**Soil**	**08/22/2014 12:45**	**GC38**	**94452**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	08/28/2014 01:06
tert-Amyl methyl ether (TAME)	ND	0.0050	1	08/28/2014 01:06
Benzene	ND	0.0050	1	08/28/2014 01:06
Bromobenzene	ND	0.0050	1	08/28/2014 01:06
Bromochloromethane	ND	0.0050	1	08/28/2014 01:06
Bromodichloromethane	ND	0.0050	1	08/28/2014 01:06
Bromoform	ND	0.0050	1	08/28/2014 01:06
Bromomethane	ND	0.0050	1	08/28/2014 01:06
2-Butanone (MEK)	ND	0.020	1	08/28/2014 01:06
t-Butyl alcohol (TBA)	ND	0.050	1	08/28/2014 01:06
n-Butyl benzene	ND	0.0050	1	08/28/2014 01:06
sec-Butyl benzene	ND	0.0050	1	08/28/2014 01:06
tert-Butyl benzene	ND	0.0050	1	08/28/2014 01:06
Carbon Disulfide	ND	0.0050	1	08/28/2014 01:06
Carbon Tetrachloride	ND	0.0050	1	08/28/2014 01:06
Chlorobenzene	ND	0.0050	1	08/28/2014 01:06
Chloroethane	ND	0.0050	1	08/28/2014 01:06
Chloroform	ND	0.0050	1	08/28/2014 01:06
Chloromethane	ND	0.0050	1	08/28/2014 01:06
2-Chlorotoluene	ND	0.0050	1	08/28/2014 01:06
4-Chlorotoluene	ND	0.0050	1	08/28/2014 01:06
Dibromochloromethane	ND	0.0050	1	08/28/2014 01:06
1,2-Dibromo-3-chloropropane	ND	0.0040	1	08/28/2014 01:06
1,2-Dibromoethane (EDB)	ND	0.0040	1	08/28/2014 01:06
Dibromomethane	ND	0.0050	1	08/28/2014 01:06
1,2-Dichlorobenzene	ND	0.0050	1	08/28/2014 01:06
1,3-Dichlorobenzene	ND	0.0050	1	08/28/2014 01:06
1,4-Dichlorobenzene	ND	0.0050	1	08/28/2014 01:06
Dichlorodifluoromethane	ND	0.0050	1	08/28/2014 01:06
1,1-Dichloroethane	ND	0.0050	1	08/28/2014 01:06
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	08/28/2014 01:06
1,1-Dichloroethene	ND	0.0050	1	08/28/2014 01:06
cis-1,2-Dichloroethene	ND	0.0050	1	08/28/2014 01:06
trans-1,2-Dichloroethene	ND	0.0050	1	08/28/2014 01:06
1,2-Dichloropropane	ND	0.0050	1	08/28/2014 01:06
1,3-Dichloropropane	ND	0.0050	1	08/28/2014 01:06
2,2-Dichloropropane	ND	0.0050	1	08/28/2014 01:06
1,1-Dichloropropene	ND	0.0050	1	08/28/2014 01:06

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8260B
Date Prepared:	8/25/14	**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
B3-15.0	**1408878-007A**	**Soil**	**08/22/2014 12:45**	**GC38**	**94452**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	08/28/2014 01:06
trans-1,3-Dichloropropene	ND	0.0050	1	08/28/2014 01:06
Diisopropyl ether (DIPE)	ND	0.0050	1	08/28/2014 01:06
Ethylbenzene	ND	0.0050	1	08/28/2014 01:06
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	08/28/2014 01:06
Freon 113	ND	0.10	1	08/28/2014 01:06
Hexachlorobutadiene	ND	0.0050	1	08/28/2014 01:06
Hexachloroethane	ND	0.0050	1	08/28/2014 01:06
2-Hexanone	ND	0.0050	1	08/28/2014 01:06
Isopropylbenzene	ND	0.0050	1	08/28/2014 01:06
4-Isopropyl toluene	ND	0.0050	1	08/28/2014 01:06
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	08/28/2014 01:06
Methylene chloride	ND	0.0050	1	08/28/2014 01:06
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	08/28/2014 01:06
Naphthalene	ND	0.0050	1	08/28/2014 01:06
n-Propyl benzene	ND	0.0050	1	08/28/2014 01:06
Styrene	ND	0.0050	1	08/28/2014 01:06
1,1,1,2-Tetrachloroethane	ND	0.0050	1	08/28/2014 01:06
1,1,2,2-Tetrachloroethane	ND	0.0050	1	08/28/2014 01:06
Tetrachloroethene	ND	0.0050	1	08/28/2014 01:06
Toluene	ND	0.0050	1	08/28/2014 01:06
1,2,3-Trichlorobenzene	ND	0.0050	1	08/28/2014 01:06
1,2,4-Trichlorobenzene	ND	0.0050	1	08/28/2014 01:06
1,1,1-Trichloroethane	ND	0.0050	1	08/28/2014 01:06
1,1,2-Trichloroethane	ND	0.0050	1	08/28/2014 01:06
Trichloroethene	ND	0.0050	1	08/28/2014 01:06
Trichlorofluoromethane	ND	0.0050	1	08/28/2014 01:06
1,2,3-Trichloropropane	ND	0.0050	1	08/28/2014 01:06
1,2,4-Trimethylbenzene	ND	0.0050	1	08/28/2014 01:06
1,3,5-Trimethylbenzene	ND	0.0050	1	08/28/2014 01:06
Vinyl Chloride	ND	0.0050	1	08/28/2014 01:06
Xylenes, Total	ND	0.0050	1	08/28/2014 01:06

Surrogates	REC (%)	Limits	
Dibromofluoromethane	113	70-130	08/28/2014 01:06
Toluene-d8	98	70-130	08/28/2014 01:06
4-BFB	104	70-130	08/28/2014 01:06

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8260B
Date Prepared:	8/25/14	**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
B4-10.0	**1408878-008A**	**Soil**	**08/22/2014 13:20**	**GC38**	**94452**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	08/29/2014 17:22
tert-Amyl methyl ether (TAME)	ND	0.0050	1	08/29/2014 17:22
Benzene	ND	0.0050	1	08/29/2014 17:22
Bromobenzene	ND	0.0050	1	08/29/2014 17:22
Bromochloromethane	ND	0.0050	1	08/29/2014 17:22
Bromodichloromethane	ND	0.0050	1	08/29/2014 17:22
Bromoform	ND	0.0050	1	08/29/2014 17:22
Bromomethane	ND	0.0050	1	08/29/2014 17:22
2-Butanone (MEK)	ND	0.020	1	08/29/2014 17:22
t-Butyl alcohol (TBA)	ND	0.050	1	08/29/2014 17:22
n-Butyl benzene	ND	0.0050	1	08/29/2014 17:22
sec-Butyl benzene	ND	0.0050	1	08/29/2014 17:22
tert-Butyl benzene	ND	0.0050	1	08/29/2014 17:22
Carbon Disulfide	ND	0.0050	1	08/29/2014 17:22
Carbon Tetrachloride	ND	0.0050	1	08/29/2014 17:22
Chlorobenzene	ND	0.0050	1	08/29/2014 17:22
Chloroethane	ND	0.0050	1	08/29/2014 17:22
Chloroform	ND	0.0050	1	08/29/2014 17:22
Chloromethane	ND	0.0050	1	08/29/2014 17:22
2-Chlorotoluene	ND	0.0050	1	08/29/2014 17:22
4-Chlorotoluene	ND	0.0050	1	08/29/2014 17:22
Dibromochloromethane	ND	0.0050	1	08/29/2014 17:22
1,2-Dibromo-3-chloropropane	ND	0.0040	1	08/29/2014 17:22
1,2-Dibromoethane (EDB)	ND	0.0040	1	08/29/2014 17:22
Dibromomethane	ND	0.0050	1	08/29/2014 17:22
1,2-Dichlorobenzene	ND	0.0050	1	08/29/2014 17:22
1,3-Dichlorobenzene	ND	0.0050	1	08/29/2014 17:22
1,4-Dichlorobenzene	ND	0.0050	1	08/29/2014 17:22
Dichlorodifluoromethane	ND	0.0050	1	08/29/2014 17:22
1,1-Dichloroethane	ND	0.0050	1	08/29/2014 17:22
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	08/29/2014 17:22
1,1-Dichloroethene	ND	0.0050	1	08/29/2014 17:22
cis-1,2-Dichloroethene	ND	0.0050	1	08/29/2014 17:22
trans-1,2-Dichloroethene	ND	0.0050	1	08/29/2014 17:22
1,2-Dichloropropane	ND	0.0050	1	08/29/2014 17:22
1,3-Dichloropropane	ND	0.0050	1	08/29/2014 17:22
2,2-Dichloropropane	ND	0.0050	1	08/29/2014 17:22
1,1-Dichloropropene	ND	0.0050	1	08/29/2014 17:22

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8260B
Date Prepared:	8/25/14	**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
B4-10.0	**1408878-008A**	**Soil**	**08/22/2014 13:20**	**GC38**	**94452**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	08/29/2014 17:22
trans-1,3-Dichloropropene	ND	0.0050	1	08/29/2014 17:22
Diisopropyl ether (DIPE)	ND	0.0050	1	08/29/2014 17:22
Ethylbenzene	ND	0.0050	1	08/29/2014 17:22
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	08/29/2014 17:22
Freon 113	ND	0.10	1	08/29/2014 17:22
Hexachlorobutadiene	ND	0.0050	1	08/29/2014 17:22
Hexachloroethane	ND	0.0050	1	08/29/2014 17:22
2-Hexanone	ND	0.0050	1	08/29/2014 17:22
Isopropylbenzene	ND	0.0050	1	08/29/2014 17:22
4-Isopropyl toluene	ND	0.0050	1	08/29/2014 17:22
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	08/29/2014 17:22
Methylene chloride	ND	0.0050	1	08/29/2014 17:22
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	08/29/2014 17:22
Naphthalene	ND	0.0050	1	08/29/2014 17:22
n-Propyl benzene	**0.0063**	0.0050	1	08/29/2014 17:22
Styrene	ND	0.0050	1	08/29/2014 17:22
1,1,1,2-Tetrachloroethane	ND	0.0050	1	08/29/2014 17:22
1,1,2,2-Tetrachloroethane	ND	0.0050	1	08/29/2014 17:22
Tetrachloroethene	ND	0.0050	1	08/29/2014 17:22
Toluene	ND	0.0050	1	08/29/2014 17:22
1,2,3-Trichlorobenzene	ND	0.0050	1	08/29/2014 17:22
1,2,4-Trichlorobenzene	ND	0.0050	1	08/29/2014 17:22
1,1,1-Trichloroethane	ND	0.0050	1	08/29/2014 17:22
1,1,2-Trichloroethane	ND	0.0050	1	08/29/2014 17:22
Trichloroethene	ND	0.0050	1	08/29/2014 17:22
Trichlorofluoromethane	ND	0.0050	1	08/29/2014 17:22
1,2,3-Trichloropropane	ND	0.0050	1	08/29/2014 17:22
1,2,4-Trimethylbenzene	ND	0.0050	1	08/29/2014 17:22
1,3,5-Trimethylbenzene	ND	0.0050	1	08/29/2014 17:22
Vinyl Chloride	ND	0.0050	1	08/29/2014 17:22
Xylenes, Total	ND	0.0050	1	08/29/2014 17:22

Surrogates	REC (%)	Limits	
Dibromofluoromethane	95	70-130	08/29/2014 17:22
Toluene-d8	97	70-130	08/29/2014 17:22
4-BFB	110	70-130	08/29/2014 17:22

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8260B
Date Prepared:	8/25/14	**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
B4-15.0	**1408878-009A**	**Soil**	**08/22/2014 13:25**	**GC38**	**94452**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	08/28/2014 01:45
tert-Amyl methyl ether (TAME)	ND	0.0050	1	08/28/2014 01:45
Benzene	ND	0.0050	1	08/28/2014 01:45
Bromobenzene	ND	0.0050	1	08/28/2014 01:45
Bromochloromethane	ND	0.0050	1	08/28/2014 01:45
Bromodichloromethane	ND	0.0050	1	08/28/2014 01:45
Bromoform	ND	0.0050	1	08/28/2014 01:45
Bromomethane	ND	0.0050	1	08/28/2014 01:45
2-Butanone (MEK)	ND	0.020	1	08/28/2014 01:45
t-Butyl alcohol (TBA)	ND	0.050	1	08/28/2014 01:45
n-Butyl benzene	ND	0.0050	1	08/28/2014 01:45
sec-Butyl benzene	ND	0.0050	1	08/28/2014 01:45
tert-Butyl benzene	ND	0.0050	1	08/28/2014 01:45
Carbon Disulfide	ND	0.0050	1	08/28/2014 01:45
Carbon Tetrachloride	ND	0.0050	1	08/28/2014 01:45
Chlorobenzene	ND	0.0050	1	08/28/2014 01:45
Chloroethane	ND	0.0050	1	08/28/2014 01:45
Chloroform	ND	0.0050	1	08/28/2014 01:45
Chloromethane	ND	0.0050	1	08/28/2014 01:45
2-Chlorotoluene	ND	0.0050	1	08/28/2014 01:45
4-Chlorotoluene	ND	0.0050	1	08/28/2014 01:45
Dibromochloromethane	ND	0.0050	1	08/28/2014 01:45
1,2-Dibromo-3-chloropropane	ND	0.0040	1	08/28/2014 01:45
1,2-Dibromoethane (EDB)	ND	0.0040	1	08/28/2014 01:45
Dibromomethane	ND	0.0050	1	08/28/2014 01:45
1,2-Dichlorobenzene	ND	0.0050	1	08/28/2014 01:45
1,3-Dichlorobenzene	ND	0.0050	1	08/28/2014 01:45
1,4-Dichlorobenzene	ND	0.0050	1	08/28/2014 01:45
Dichlorodifluoromethane	ND	0.0050	1	08/28/2014 01:45
1,1-Dichloroethane	ND	0.0050	1	08/28/2014 01:45
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	08/28/2014 01:45
1,1-Dichloroethene	ND	0.0050	1	08/28/2014 01:45
cis-1,2-Dichloroethene	ND	0.0050	1	08/28/2014 01:45
trans-1,2-Dichloroethene	ND	0.0050	1	08/28/2014 01:45
1,2-Dichloropropane	ND	0.0050	1	08/28/2014 01:45
1,3-Dichloropropane	ND	0.0050	1	08/28/2014 01:45
2,2-Dichloropropane	ND	0.0050	1	08/28/2014 01:45
1,1-Dichloropropene	ND	0.0050	1	08/28/2014 01:45

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8260B
Date Prepared:	8/25/14	**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
B4-15.0	**1408878-009A**	**Soil**	**08/22/2014 13:25**	**GC38**	**94452**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	08/28/2014 01:45
trans-1,3-Dichloropropene	ND	0.0050	1	08/28/2014 01:45
Diisopropyl ether (DIPE)	ND	0.0050	1	08/28/2014 01:45
Ethylbenzene	ND	0.0050	1	08/28/2014 01:45
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	08/28/2014 01:45
Freon 113	ND	0.10	1	08/28/2014 01:45
Hexachlorobutadiene	ND	0.0050	1	08/28/2014 01:45
Hexachloroethane	ND	0.0050	1	08/28/2014 01:45
2-Hexanone	ND	0.0050	1	08/28/2014 01:45
Isopropylbenzene	ND	0.0050	1	08/28/2014 01:45
4-Isopropyl toluene	ND	0.0050	1	08/28/2014 01:45
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	08/28/2014 01:45
Methylene chloride	ND	0.0050	1	08/28/2014 01:45
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	08/28/2014 01:45
Naphthalene	ND	0.0050	1	08/28/2014 01:45
n-Propyl benzene	ND	0.0050	1	08/28/2014 01:45
Styrene	ND	0.0050	1	08/28/2014 01:45
1,1,1,2-Tetrachloroethane	ND	0.0050	1	08/28/2014 01:45
1,1,2,2-Tetrachloroethane	ND	0.0050	1	08/28/2014 01:45
Tetrachloroethene	ND	0.0050	1	08/28/2014 01:45
Toluene	ND	0.0050	1	08/28/2014 01:45
1,2,3-Trichlorobenzene	ND	0.0050	1	08/28/2014 01:45
1,2,4-Trichlorobenzene	ND	0.0050	1	08/28/2014 01:45
1,1,1-Trichloroethane	ND	0.0050	1	08/28/2014 01:45
1,1,2-Trichloroethane	ND	0.0050	1	08/28/2014 01:45
Trichloroethene	ND	0.0050	1	08/28/2014 01:45
Trichlorofluoromethane	ND	0.0050	1	08/28/2014 01:45
1,2,3-Trichloropropane	ND	0.0050	1	08/28/2014 01:45
1,2,4-Trimethylbenzene	ND	0.0050	1	08/28/2014 01:45
1,3,5-Trimethylbenzene	ND	0.0050	1	08/28/2014 01:45
Vinyl Chloride	ND	0.0050	1	08/28/2014 01:45
Xylenes, Total	ND	0.0050	1	08/28/2014 01:45

Surrogates	REC (%)	Limits	
Dibromofluoromethane	110	70-130	08/28/2014 01:45
Toluene-d8	97	70-130	08/28/2014 01:45
4-BFB	104	70-130	08/28/2014 01:45

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8260B
Date Prepared:	8/25/14	**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
B5-5.0	**1408878-010A**	**Soil**	**08/22/2014 09:30**	**GC38**	**94452**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	08/28/2014 23:03
tert-Amyl methyl ether (TAME)	ND	0.0050	1	08/28/2014 23:03
Benzene	**0.010**	0.0050	1	08/28/2014 23:03
Bromobenzene	ND	0.0050	1	08/28/2014 23:03
Bromochloromethane	ND	0.0050	1	08/28/2014 23:03
Bromodichloromethane	ND	0.0050	1	08/28/2014 23:03
Bromoform	ND	0.0050	1	08/28/2014 23:03
Bromomethane	ND	0.0050	1	08/28/2014 23:03
2-Butanone (MEK)	ND	0.020	1	08/28/2014 23:03
t-Butyl alcohol (TBA)	ND	0.050	1	08/28/2014 23:03
n-Butyl benzene	**0.0089**	0.0050	1	08/28/2014 23:03
sec-Butyl benzene	ND	0.0050	1	08/28/2014 23:03
tert-Butyl benzene	ND	0.0050	1	08/28/2014 23:03
Carbon Disulfide	ND	0.0050	1	08/28/2014 23:03
Carbon Tetrachloride	ND	0.0050	1	08/28/2014 23:03
Chlorobenzene	ND	0.0050	1	08/28/2014 23:03
Chloroethane	ND	0.0050	1	08/28/2014 23:03
Chloroform	ND	0.0050	1	08/28/2014 23:03
Chloromethane	ND	0.0050	1	08/28/2014 23:03
2-Chlorotoluene	ND	0.0050	1	08/28/2014 23:03
4-Chlorotoluene	ND	0.0050	1	08/28/2014 23:03
Dibromochloromethane	ND	0.0050	1	08/28/2014 23:03
1,2-Dibromo-3-chloropropane	ND	0.0040	1	08/28/2014 23:03
1,2-Dibromoethane (EDB)	ND	0.0040	1	08/28/2014 23:03
Dibromomethane	ND	0.0050	1	08/28/2014 23:03
1,2-Dichlorobenzene	ND	0.0050	1	08/28/2014 23:03
1,3-Dichlorobenzene	ND	0.0050	1	08/28/2014 23:03
1,4-Dichlorobenzene	ND	0.0050	1	08/28/2014 23:03
Dichlorodifluoromethane	ND	0.0050	1	08/28/2014 23:03
1,1-Dichloroethane	ND	0.0050	1	08/28/2014 23:03
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	08/28/2014 23:03
1,1-Dichloroethene	ND	0.0050	1	08/28/2014 23:03
cis-1,2-Dichloroethene	ND	0.0050	1	08/28/2014 23:03
trans-1,2-Dichloroethene	ND	0.0050	1	08/28/2014 23:03
1,2-Dichloropropane	ND	0.0050	1	08/28/2014 23:03
1,3-Dichloropropane	ND	0.0050	1	08/28/2014 23:03
2,2-Dichloropropane	ND	0.0050	1	08/28/2014 23:03
1,1-Dichloropropene	ND	0.0050	1	08/28/2014 23:03

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8260B
Date Prepared:	8/25/14	**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
B5-5.0	**1408878-010A**	**Soil**	**08/22/2014 09:30**	**GC38**	**94452**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	08/28/2014 23:03
trans-1,3-Dichloropropene	ND	0.0050	1	08/28/2014 23:03
Diisopropyl ether (DIPE)	ND	0.0050	1	08/28/2014 23:03
Ethylbenzene	**0.020**	0.0050	1	08/28/2014 23:03
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	08/28/2014 23:03
Freon 113	ND	0.10	1	08/28/2014 23:03
Hexachlorobutadiene	ND	0.0050	1	08/28/2014 23:03
Hexachloroethane	ND	0.0050	1	08/28/2014 23:03
2-Hexanone	ND	0.0050	1	08/28/2014 23:03
Isopropylbenzene	ND	0.0050	1	08/28/2014 23:03
4-Isopropyl toluene	ND	0.0050	1	08/28/2014 23:03
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	08/28/2014 23:03
Methylene chloride	ND	0.0050	1	08/28/2014 23:03
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	08/28/2014 23:03
Naphthalene	**0.12**	0.0050	1	08/28/2014 23:03
n-Propyl benzene	**0.015**	0.0050	1	08/28/2014 23:03
Styrene	ND	0.0050	1	08/28/2014 23:03
1,1,1,2-Tetrachloroethane	ND	0.0050	1	08/28/2014 23:03
1,1,2,2-Tetrachloroethane	ND	0.0050	1	08/28/2014 23:03
Tetrachloroethene	ND	0.0050	1	08/28/2014 23:03
Toluene	ND	0.0050	1	08/28/2014 23:03
1,2,3-Trichlorobenzene	ND	0.0050	1	08/28/2014 23:03
1,2,4-Trichlorobenzene	ND	0.0050	1	08/28/2014 23:03
1,1,1-Trichloroethane	ND	0.0050	1	08/28/2014 23:03
1,1,2-Trichloroethane	ND	0.0050	1	08/28/2014 23:03
Trichloroethene	ND	0.0050	1	08/28/2014 23:03
Trichlorofluoromethane	ND	0.0050	1	08/28/2014 23:03
1,2,3-Trichloropropane	ND	0.0050	1	08/28/2014 23:03
1,2,4-Trimethylbenzene	ND	0.0050	1	08/28/2014 23:03
1,3,5-Trimethylbenzene	ND	0.0050	1	08/28/2014 23:03
Vinyl Chloride	ND	0.0050	1	08/28/2014 23:03
Xylenes, Total	ND	0.0050	1	08/28/2014 23:03

Surrogates	REC (%)	Limits	
Dibromofluoromethane	111	70-130	08/28/2014 23:03
Toluene-d8	98	70-130	08/28/2014 23:03
4-BFB	103	70-130	08/28/2014 23:03

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8260B
Date Prepared:	8/25/14	**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
B5-10.0	**1408878-011A**	**Soil**	**08/22/2014 09:35**	**GC38**	**94452**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	08/28/2014 02:23
tert-Amyl methyl ether (TAME)	ND	0.0050	1	08/28/2014 02:23
Benzene	**0.13**	0.0050	1	08/28/2014 02:23
Bromobenzene	ND	0.0050	1	08/28/2014 02:23
Bromochloromethane	ND	0.0050	1	08/28/2014 02:23
Bromodichloromethane	ND	0.0050	1	08/28/2014 02:23
Bromoform	ND	0.0050	1	08/28/2014 02:23
Bromomethane	ND	0.0050	1	08/28/2014 02:23
2-Butanone (MEK)	**0.023**	0.020	1	08/28/2014 02:23
t-Butyl alcohol (TBA)	ND	0.050	1	08/28/2014 02:23
n-Butyl benzene	ND	0.0050	1	08/28/2014 02:23
sec-Butyl benzene	ND	0.0050	1	08/28/2014 02:23
tert-Butyl benzene	ND	0.0050	1	08/28/2014 02:23
Carbon Disulfide	ND	0.0050	1	08/28/2014 02:23
Carbon Tetrachloride	ND	0.0050	1	08/28/2014 02:23
Chlorobenzene	ND	0.0050	1	08/28/2014 02:23
Chloroethane	ND	0.0050	1	08/28/2014 02:23
Chloroform	ND	0.0050	1	08/28/2014 02:23
Chloromethane	ND	0.0050	1	08/28/2014 02:23
2-Chlorotoluene	ND	0.0050	1	08/28/2014 02:23
4-Chlorotoluene	ND	0.0050	1	08/28/2014 02:23
Dibromochloromethane	ND	0.0050	1	08/28/2014 02:23
1,2-Dibromo-3-chloropropane	ND	0.0040	1	08/28/2014 02:23
1,2-Dibromoethane (EDB)	ND	0.0040	1	08/28/2014 02:23
Dibromomethane	ND	0.0050	1	08/28/2014 02:23
1,2-Dichlorobenzene	ND	0.0050	1	08/28/2014 02:23
1,3-Dichlorobenzene	ND	0.0050	1	08/28/2014 02:23
1,4-Dichlorobenzene	ND	0.0050	1	08/28/2014 02:23
Dichlorodifluoromethane	ND	0.0050	1	08/28/2014 02:23
1,1-Dichloroethane	ND	0.0050	1	08/28/2014 02:23
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	08/28/2014 02:23
1,1-Dichloroethene	ND	0.0050	1	08/28/2014 02:23
cis-1,2-Dichloroethene	ND	0.0050	1	08/28/2014 02:23
trans-1,2-Dichloroethene	ND	0.0050	1	08/28/2014 02:23
1,2-Dichloropropane	ND	0.0050	1	08/28/2014 02:23
1,3-Dichloropropane	ND	0.0050	1	08/28/2014 02:23
2,2-Dichloropropane	ND	0.0050	1	08/28/2014 02:23
1,1-Dichloropropene	ND	0.0050	1	08/28/2014 02:23

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8260B
Date Prepared:	8/25/14	**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
B5-10.0	**1408878-011A**	**Soil**	**08/22/2014 09:35**	**GC38**	**94452**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	08/28/2014 02:23
trans-1,3-Dichloropropene	ND	0.0050	1	08/28/2014 02:23
Diisopropyl ether (DIPE)	ND	0.0050	1	08/28/2014 02:23
Ethylbenzene	**0.090**	0.0050	1	08/28/2014 02:23
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	08/28/2014 02:23
Freon 113	ND	0.10	1	08/28/2014 02:23
Hexachlorobutadiene	ND	0.0050	1	08/28/2014 02:23
Hexachloroethane	ND	0.0050	1	08/28/2014 02:23
2-Hexanone	ND	0.0050	1	08/28/2014 02:23
Isopropylbenzene	**0.011**	0.0050	1	08/28/2014 02:23
4-Isopropyl toluene	ND	0.0050	1	08/28/2014 02:23
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	08/28/2014 02:23
Methylene chloride	ND	0.0050	1	08/28/2014 02:23
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	08/28/2014 02:23
Naphthalene	**0.046**	0.0050	1	08/28/2014 02:23
n-Propyl benzene	**0.026**	0.0050	1	08/28/2014 02:23
Styrene	ND	0.0050	1	08/28/2014 02:23
1,1,1,2-Tetrachloroethane	ND	0.0050	1	08/28/2014 02:23
1,1,2,2-Tetrachloroethane	ND	0.0050	1	08/28/2014 02:23
Tetrachloroethene	ND	0.0050	1	08/28/2014 02:23
Toluene	**0.0095**	0.0050	1	08/28/2014 02:23
1,2,3-Trichlorobenzene	ND	0.0050	1	08/28/2014 02:23
1,2,4-Trichlorobenzene	ND	0.0050	1	08/28/2014 02:23
1,1,1-Trichloroethane	ND	0.0050	1	08/28/2014 02:23
1,1,2-Trichloroethane	ND	0.0050	1	08/28/2014 02:23
Trichloroethene	ND	0.0050	1	08/28/2014 02:23
Trichlorofluoromethane	ND	0.0050	1	08/28/2014 02:23
1,2,3-Trichloropropane	ND	0.0050	1	08/28/2014 02:23
1,2,4-Trimethylbenzene	**0.15**	0.0050	1	08/28/2014 02:23
1,3,5-Trimethylbenzene	**0.036**	0.0050	1	08/28/2014 02:23
Vinyl Chloride	ND	0.0050	1	08/28/2014 02:23
Xylenes, Total	**0.18**	0.0050	1	08/28/2014 02:23

Surrogates	REC (%)	Limits	
Dibromofluoromethane	105	70-130	08/28/2014 02:23
Toluene-d8	104	70-130	08/28/2014 02:23
4-BFB	101	70-130	08/28/2014 02:23

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8260B
Date Prepared:	8/25/14	**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
B6-5.0	**1408878-012A**	**Soil**	**08/22/2014 08:25**	**GC38**	**94452**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	1.0	10	08/29/2014 18:04
tert-Amyl methyl ether (TAME)	ND	0.050	10	08/29/2014 18:04
Benzene	ND	0.050	10	08/29/2014 18:04
Bromobenzene	ND	0.050	10	08/29/2014 18:04
Bromochloromethane	ND	0.050	10	08/29/2014 18:04
Bromodichloromethane	ND	0.050	10	08/29/2014 18:04
Bromoform	ND	0.050	10	08/29/2014 18:04
Bromomethane	ND	0.050	10	08/29/2014 18:04
2-Butanone (MEK)	ND	0.20	10	08/29/2014 18:04
t-Butyl alcohol (TBA)	ND	0.50	10	08/29/2014 18:04
n-Butyl benzene	**0.19**	0.050	10	08/29/2014 18:04
sec-Butyl benzene	**0.053**	0.050	10	08/29/2014 18:04
tert-Butyl benzene	ND	0.050	10	08/29/2014 18:04
Carbon Disulfide	ND	0.050	10	08/29/2014 18:04
Carbon Tetrachloride	ND	0.050	10	08/29/2014 18:04
Chlorobenzene	ND	0.050	10	08/29/2014 18:04
Chloroethane	ND	0.050	10	08/29/2014 18:04
Chloroform	ND	0.050	10	08/29/2014 18:04
Chloromethane	ND	0.050	10	08/29/2014 18:04
2-Chlorotoluene	ND	0.050	10	08/29/2014 18:04
4-Chlorotoluene	ND	0.050	10	08/29/2014 18:04
Dibromochloromethane	ND	0.050	10	08/29/2014 18:04
1,2-Dibromo-3-chloropropane	ND	0.040	10	08/29/2014 18:04
1,2-Dibromoethane (EDB)	ND	0.040	10	08/29/2014 18:04
Dibromomethane	ND	0.050	10	08/29/2014 18:04
1,2-Dichlorobenzene	ND	0.050	10	08/29/2014 18:04
1,3-Dichlorobenzene	ND	0.050	10	08/29/2014 18:04
1,4-Dichlorobenzene	ND	0.050	10	08/29/2014 18:04
Dichlorodifluoromethane	ND	0.050	10	08/29/2014 18:04
1,1-Dichloroethane	ND	0.050	10	08/29/2014 18:04
1,2-Dichloroethane (1,2-DCA)	ND	0.040	10	08/29/2014 18:04
1,1-Dichloroethene	ND	0.050	10	08/29/2014 18:04
cis-1,2-Dichloroethene	ND	0.050	10	08/29/2014 18:04
trans-1,2-Dichloroethene	ND	0.050	10	08/29/2014 18:04
1,2-Dichloropropane	ND	0.050	10	08/29/2014 18:04
1,3-Dichloropropane	ND	0.050	10	08/29/2014 18:04
2,2-Dichloropropane	ND	0.050	10	08/29/2014 18:04
1,1-Dichloropropene	ND	0.050	10	08/29/2014 18:04

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8260B
Date Prepared:	8/25/14	**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
B6-5.0	**1408878-012A**	**Soil**	**08/22/2014 08:25**	**GC38**	**94452**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.050	10	08/29/2014 18:04
trans-1,3-Dichloropropene	ND	0.050	10	08/29/2014 18:04
Diisopropyl ether (DIPE)	ND	0.050	10	08/29/2014 18:04
Ethylbenzene	**0.37**	0.050	10	08/29/2014 18:04
Ethyl tert-butyl ether (ETBE)	ND	0.050	10	08/29/2014 18:04
Freon 113	ND	1.0	10	08/29/2014 18:04
Hexachlorobutadiene	ND	0.050	10	08/29/2014 18:04
Hexachloroethane	ND	0.050	10	08/29/2014 18:04
2-Hexanone	ND	0.050	10	08/29/2014 18:04
Isopropylbenzene	**0.077**	0.050	10	08/29/2014 18:04
4-Isopropyl toluene	ND	0.050	10	08/29/2014 18:04
Methyl-t-butyl ether (MTBE)	ND	0.050	10	08/29/2014 18:04
Methylene chloride	ND	0.050	10	08/29/2014 18:04
4-Methyl-2-pentanone (MIBK)	ND	0.050	10	08/29/2014 18:04
Naphthalene	**1.7**	0.050	10	08/29/2014 18:04
n-Propyl benzene	**0.31**	0.050	10	08/29/2014 18:04
Styrene	ND	0.050	10	08/29/2014 18:04
1,1,1,2-Tetrachloroethane	ND	0.050	10	08/29/2014 18:04
1,1,2,2-Tetrachloroethane	ND	0.050	10	08/29/2014 18:04
Tetrachloroethene	ND	0.050	10	08/29/2014 18:04
Toluene	ND	0.050	10	08/29/2014 18:04
1,2,3-Trichlorobenzene	ND	0.050	10	08/29/2014 18:04
1,2,4-Trichlorobenzene	ND	0.050	10	08/29/2014 18:04
1,1,1-Trichloroethane	ND	0.050	10	08/29/2014 18:04
1,1,2-Trichloroethane	ND	0.050	10	08/29/2014 18:04
Trichloroethene	ND	0.050	10	08/29/2014 18:04
Trichlorofluoromethane	ND	0.050	10	08/29/2014 18:04
1,2,3-Trichloropropane	ND	0.050	10	08/29/2014 18:04
1,2,4-Trimethylbenzene	ND	0.050	10	08/29/2014 18:04
1,3,5-Trimethylbenzene	ND	0.050	10	08/29/2014 18:04
Vinyl Chloride	ND	0.050	10	08/29/2014 18:04
Xylenes, Total	ND	0.050	10	08/29/2014 18:04

Surrogates	REC (%)	Limits	
Dibromofluoromethane	107	70-130	08/29/2014 18:04
Toluene-d8	91	70-130	08/29/2014 18:04
4-BFB	97	70-130	08/29/2014 18:04

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8260B
Date Prepared:	8/25/14	**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
B6-10.0	**1408878-013A**	**Soil**	**08/22/2014 08:30**	**GC38**	**94452**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	4.0	40	08/29/2014 21:48
tert-Amyl methyl ether (TAME)	ND	0.20	40	08/29/2014 21:48
Benzene	ND	0.20	40	08/29/2014 21:48
Bromobenzene	ND	0.20	40	08/29/2014 21:48
Bromochloromethane	ND	0.20	40	08/29/2014 21:48
Bromodichloromethane	ND	0.20	40	08/29/2014 21:48
Bromoform	ND	0.20	40	08/29/2014 21:48
Bromomethane	ND	0.20	40	08/29/2014 21:48
2-Butanone (MEK)	ND	0.80	40	08/29/2014 21:48
t-Butyl alcohol (TBA)	ND	2.0	40	08/29/2014 21:48
n-Butyl benzene	**0.46**	0.20	40	08/29/2014 21:48
sec-Butyl benzene	ND	0.20	40	08/29/2014 21:48
tert-Butyl benzene	ND	0.20	40	08/29/2014 21:48
Carbon Disulfide	ND	0.20	40	08/29/2014 21:48
Carbon Tetrachloride	ND	0.20	40	08/29/2014 21:48
Chlorobenzene	ND	0.20	40	08/29/2014 21:48
Chloroethane	ND	0.20	40	08/29/2014 21:48
Chloroform	ND	0.20	40	08/29/2014 21:48
Chloromethane	ND	0.20	40	08/29/2014 21:48
2-Chlorotoluene	ND	0.20	40	08/29/2014 21:48
4-Chlorotoluene	ND	0.20	40	08/29/2014 21:48
Dibromochloromethane	ND	0.20	40	08/29/2014 21:48
1,2-Dibromo-3-chloropropane	ND	0.16	40	08/29/2014 21:48
1,2-Dibromoethane (EDB)	ND	0.16	40	08/29/2014 21:48
Dibromomethane	ND	0.20	40	08/29/2014 21:48
1,2-Dichlorobenzene	ND	0.20	40	08/29/2014 21:48
1,3-Dichlorobenzene	ND	0.20	40	08/29/2014 21:48
1,4-Dichlorobenzene	ND	0.20	40	08/29/2014 21:48
Dichlorodifluoromethane	ND	0.20	40	08/29/2014 21:48
1,1-Dichloroethane	ND	0.20	40	08/29/2014 21:48
1,2-Dichloroethane (1,2-DCA)	ND	0.16	40	08/29/2014 21:48
1,1-Dichloroethene	ND	0.20	40	08/29/2014 21:48
cis-1,2-Dichloroethene	ND	0.20	40	08/29/2014 21:48
trans-1,2-Dichloroethene	ND	0.20	40	08/29/2014 21:48
1,2-Dichloropropane	ND	0.20	40	08/29/2014 21:48
1,3-Dichloropropane	ND	0.20	40	08/29/2014 21:48
2,2-Dichloropropane	ND	0.20	40	08/29/2014 21:48
1,1-Dichloropropene	ND	0.20	40	08/29/2014 21:48

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8260B
Date Prepared:	8/25/14	**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
B6-10.0	**1408878-013A**	**Soil**	**08/22/2014 08:30**	**GC38**	**94452**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.20	40	08/29/2014 21:48
trans-1,3-Dichloropropene	ND	0.20	40	08/29/2014 21:48
Diisopropyl ether (DIPE)	ND	0.20	40	08/29/2014 21:48
Ethylbenzene	**2.8**	0.20	40	08/29/2014 21:48
Ethyl tert-butyl ether (ETBE)	ND	0.20	40	08/29/2014 21:48
Freon 113	ND	4.0	40	08/29/2014 21:48
Hexachlorobutadiene	ND	0.20	40	08/29/2014 21:48
Hexachloroethane	ND	0.20	40	08/29/2014 21:48
2-Hexanone	ND	0.20	40	08/29/2014 21:48
Isopropylbenzene	**0.25**	0.20	40	08/29/2014 21:48
4-Isopropyl toluene	ND	0.20	40	08/29/2014 21:48
Methyl-t-butyl ether (MTBE)	ND	0.20	40	08/29/2014 21:48
Methylene chloride	ND	0.20	40	08/29/2014 21:48
4-Methyl-2-pentanone (MIBK)	ND	0.20	40	08/29/2014 21:48
Naphthalene	**1.8**	0.20	40	08/29/2014 21:48
n-Propyl benzene	**0.87**	0.20	40	08/29/2014 21:48
Styrene	ND	0.20	40	08/29/2014 21:48
1,1,1,2-Tetrachloroethane	ND	0.20	40	08/29/2014 21:48
1,1,2,2-Tetrachloroethane	ND	0.20	40	08/29/2014 21:48
Tetrachloroethene	ND	0.20	40	08/29/2014 21:48
Toluene	**0.23**	0.20	40	08/29/2014 21:48
1,2,3-Trichlorobenzene	ND	0.20	40	08/29/2014 21:48
1,2,4-Trichlorobenzene	ND	0.20	40	08/29/2014 21:48
1,1,1-Trichloroethane	ND	0.20	40	08/29/2014 21:48
1,1,2-Trichloroethane	ND	0.20	40	08/29/2014 21:48
Trichloroethene	ND	0.20	40	08/29/2014 21:48
Trichlorofluoromethane	ND	0.20	40	08/29/2014 21:48
1,2,3-Trichloropropane	ND	0.20	40	08/29/2014 21:48
1,2,4-Trimethylbenzene	**4.3**	0.20	40	08/29/2014 21:48
1,3,5-Trimethylbenzene	**1.2**	0.20	40	08/29/2014 21:48
Vinyl Chloride	ND	0.20	40	08/29/2014 21:48
Xylenes, Total	**11**	0.20	40	08/29/2014 21:48

Surrogates	REC (%)	Limits	
Dibromofluoromethane	112	70-130	08/29/2014 21:48
Toluene-d8	90	70-130	08/29/2014 21:48
4-BFB	97	70-130	08/29/2014 21:48

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8260B
Date Prepared:	8/25/14	**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
B7-5.0	**1408878-014A**	**Soil**	**08/22/2014 07:34**	**GC38**	**94452**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	08/29/2014 22:28
tert-Amyl methyl ether (TAME)	ND	0.0050	1	08/29/2014 22:28
Benzene	ND	0.0050	1	08/29/2014 22:28
Bromobenzene	ND	0.0050	1	08/29/2014 22:28
Bromochloromethane	ND	0.0050	1	08/29/2014 22:28
Bromodichloromethane	ND	0.0050	1	08/29/2014 22:28
Bromoform	ND	0.0050	1	08/29/2014 22:28
Bromomethane	ND	0.0050	1	08/29/2014 22:28
2-Butanone (MEK)	ND	0.020	1	08/29/2014 22:28
t-Butyl alcohol (TBA)	ND	0.050	1	08/29/2014 22:28
n-Butyl benzene	ND	0.0050	1	08/29/2014 22:28
sec-Butyl benzene	ND	0.0050	1	08/29/2014 22:28
tert-Butyl benzene	ND	0.0050	1	08/29/2014 22:28
Carbon Disulfide	ND	0.0050	1	08/29/2014 22:28
Carbon Tetrachloride	ND	0.0050	1	08/29/2014 22:28
Chlorobenzene	ND	0.0050	1	08/29/2014 22:28
Chloroethane	ND	0.0050	1	08/29/2014 22:28
Chloroform	ND	0.0050	1	08/29/2014 22:28
Chloromethane	ND	0.0050	1	08/29/2014 22:28
2-Chlorotoluene	ND	0.0050	1	08/29/2014 22:28
4-Chlorotoluene	ND	0.0050	1	08/29/2014 22:28
Dibromochloromethane	ND	0.0050	1	08/29/2014 22:28
1,2-Dibromo-3-chloropropane	ND	0.0040	1	08/29/2014 22:28
1,2-Dibromoethane (EDB)	ND	0.0040	1	08/29/2014 22:28
Dibromomethane	ND	0.0050	1	08/29/2014 22:28
1,2-Dichlorobenzene	ND	0.0050	1	08/29/2014 22:28
1,3-Dichlorobenzene	ND	0.0050	1	08/29/2014 22:28
1,4-Dichlorobenzene	ND	0.0050	1	08/29/2014 22:28
Dichlorodifluoromethane	ND	0.0050	1	08/29/2014 22:28
1,1-Dichloroethane	ND	0.0050	1	08/29/2014 22:28
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	08/29/2014 22:28
1,1-Dichloroethene	ND	0.0050	1	08/29/2014 22:28
cis-1,2-Dichloroethene	ND	0.0050	1	08/29/2014 22:28
trans-1,2-Dichloroethene	ND	0.0050	1	08/29/2014 22:28
1,2-Dichloropropane	ND	0.0050	1	08/29/2014 22:28
1,3-Dichloropropane	ND	0.0050	1	08/29/2014 22:28
2,2-Dichloropropane	ND	0.0050	1	08/29/2014 22:28
1,1-Dichloropropene	ND	0.0050	1	08/29/2014 22:28

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8260B
Date Prepared:	8/25/14	**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
B7-5.0	**1408878-014A**	**Soil**	**08/22/2014 07:34**	**GC38**	**94452**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	08/29/2014 22:28
trans-1,3-Dichloropropene	ND	0.0050	1	08/29/2014 22:28
Diisopropyl ether (DIPE)	ND	0.0050	1	08/29/2014 22:28
Ethylbenzene	ND	0.0050	1	08/29/2014 22:28
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	08/29/2014 22:28
Freon 113	ND	0.10	1	08/29/2014 22:28
Hexachlorobutadiene	ND	0.0050	1	08/29/2014 22:28
Hexachloroethane	ND	0.0050	1	08/29/2014 22:28
2-Hexanone	ND	0.0050	1	08/29/2014 22:28
Isopropylbenzene	ND	0.0050	1	08/29/2014 22:28
4-Isopropyl toluene	ND	0.0050	1	08/29/2014 22:28
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	08/29/2014 22:28
Methylene chloride	ND	0.0050	1	08/29/2014 22:28
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	08/29/2014 22:28
Naphthalene	ND	0.0050	1	08/29/2014 22:28
n-Propyl benzene	ND	0.0050	1	08/29/2014 22:28
Styrene	ND	0.0050	1	08/29/2014 22:28
1,1,1,2-Tetrachloroethane	ND	0.0050	1	08/29/2014 22:28
1,1,2,2-Tetrachloroethane	ND	0.0050	1	08/29/2014 22:28
Tetrachloroethene	ND	0.0050	1	08/29/2014 22:28
Toluene	ND	0.0050	1	08/29/2014 22:28
1,2,3-Trichlorobenzene	ND	0.0050	1	08/29/2014 22:28
1,2,4-Trichlorobenzene	ND	0.0050	1	08/29/2014 22:28
1,1,1-Trichloroethane	ND	0.0050	1	08/29/2014 22:28
1,1,2-Trichloroethane	ND	0.0050	1	08/29/2014 22:28
Trichloroethene	ND	0.0050	1	08/29/2014 22:28
Trichlorofluoromethane	ND	0.0050	1	08/29/2014 22:28
1,2,3-Trichloropropane	ND	0.0050	1	08/29/2014 22:28
1,2,4-Trimethylbenzene	ND	0.0050	1	08/29/2014 22:28
1,3,5-Trimethylbenzene	ND	0.0050	1	08/29/2014 22:28
Vinyl Chloride	ND	0.0050	1	08/29/2014 22:28
Xylenes, Total	ND	0.0050	1	08/29/2014 22:28

Surrogates	REC (%)	Limits	
Dibromofluoromethane	112	70-130	08/29/2014 22:28
Toluene-d8	96	70-130	08/29/2014 22:28
4-BFB	103	70-130	08/29/2014 22:28

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8260B
Date Prepared:	8/25/14	**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
B7-10.0	**1408878-015A**	**Soil**	**08/22/2014 07:38**	**GC38**	**94452**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.40	4	08/30/2014 20:57
tert-Amyl methyl ether (TAME)	ND	0.020	4	08/30/2014 20:57
Benzene	ND	0.020	4	08/30/2014 20:57
Bromobenzene	ND	0.020	4	08/30/2014 20:57
Bromochloromethane	ND	0.020	4	08/30/2014 20:57
Bromodichloromethane	ND	0.020	4	08/30/2014 20:57
Bromoform	ND	0.020	4	08/30/2014 20:57
Bromomethane	ND	0.020	4	08/30/2014 20:57
2-Butanone (MEK)	ND	0.080	4	08/30/2014 20:57
t-Butyl alcohol (TBA)	ND	0.20	4	08/30/2014 20:57
n-Butyl benzene	**0.13**	0.020	4	08/30/2014 20:57
sec-Butyl benzene	**0.030**	0.020	4	08/30/2014 20:57
tert-Butyl benzene	ND	0.020	4	08/30/2014 20:57
Carbon Disulfide	ND	0.020	4	08/30/2014 20:57
Carbon Tetrachloride	ND	0.020	4	08/30/2014 20:57
Chlorobenzene	ND	0.020	4	08/30/2014 20:57
Chloroethane	ND	0.020	4	08/30/2014 20:57
Chloroform	ND	0.020	4	08/30/2014 20:57
Chloromethane	ND	0.020	4	08/30/2014 20:57
2-Chlorotoluene	ND	0.020	4	08/30/2014 20:57
4-Chlorotoluene	ND	0.020	4	08/30/2014 20:57
Dibromochloromethane	ND	0.020	4	08/30/2014 20:57
1,2-Dibromo-3-chloropropane	ND	0.016	4	08/30/2014 20:57
1,2-Dibromoethane (EDB)	ND	0.016	4	08/30/2014 20:57
Dibromomethane	ND	0.020	4	08/30/2014 20:57
1,2-Dichlorobenzene	ND	0.020	4	08/30/2014 20:57
1,3-Dichlorobenzene	ND	0.020	4	08/30/2014 20:57
1,4-Dichlorobenzene	ND	0.020	4	08/30/2014 20:57
Dichlorodifluoromethane	ND	0.020	4	08/30/2014 20:57
1,1-Dichloroethane	ND	0.020	4	08/30/2014 20:57
1,2-Dichloroethane (1,2-DCA)	ND	0.016	4	08/30/2014 20:57
1,1-Dichloroethene	ND	0.020	4	08/30/2014 20:57
cis-1,2-Dichloroethene	ND	0.020	4	08/30/2014 20:57
trans-1,2-Dichloroethene	ND	0.020	4	08/30/2014 20:57
1,2-Dichloropropane	ND	0.020	4	08/30/2014 20:57
1,3-Dichloropropane	ND	0.020	4	08/30/2014 20:57
2,2-Dichloropropane	ND	0.020	4	08/30/2014 20:57
1,1-Dichloropropene	ND	0.020	4	08/30/2014 20:57

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8260B
Date Prepared:	8/25/14	**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
B7-10.0	**1408878-015A**	**Soil**	**08/22/2014 07:38**	**GC38**	**94452**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.020	4	08/30/2014 20:57
trans-1,3-Dichloropropene	ND	0.020	4	08/30/2014 20:57
Diisopropyl ether (DIPE)	ND	0.020	4	08/30/2014 20:57
Ethylbenzene	**0.029**	0.020	4	08/30/2014 20:57
Ethyl tert-butyl ether (ETBE)	ND	0.020	4	08/30/2014 20:57
Freon 113	ND	0.40	4	08/30/2014 20:57
Hexachlorobutadiene	ND	0.020	4	08/30/2014 20:57
Hexachloroethane	ND	0.020	4	08/30/2014 20:57
2-Hexanone	ND	0.020	4	08/30/2014 20:57
Isopropylbenzene	**0.12**	0.020	4	08/30/2014 20:57
4-Isopropyl toluene	ND	0.020	4	08/30/2014 20:57
Methyl-t-butyl ether (MTBE)	ND	0.020	4	08/30/2014 20:57
Methylene chloride	ND	0.020	4	08/30/2014 20:57
4-Methyl-2-pentanone (MIBK)	ND	0.020	4	08/30/2014 20:57
Naphthalene	ND	0.020	4	08/30/2014 20:57
n-Propyl benzene	**0.35**	0.020	4	08/30/2014 20:57
Styrene	ND	0.020	4	08/30/2014 20:57
1,1,1,2-Tetrachloroethane	ND	0.020	4	08/30/2014 20:57
1,1,2,2-Tetrachloroethane	ND	0.020	4	08/30/2014 20:57
Tetrachloroethene	ND	0.020	4	08/30/2014 20:57
Toluene	ND	0.020	4	08/30/2014 20:57
1,2,3-Trichlorobenzene	ND	0.020	4	08/30/2014 20:57
1,2,4-Trichlorobenzene	ND	0.020	4	08/30/2014 20:57
1,1,1-Trichloroethane	ND	0.020	4	08/30/2014 20:57
1,1,2-Trichloroethane	ND	0.020	4	08/30/2014 20:57
Trichloroethene	ND	0.020	4	08/30/2014 20:57
Trichlorofluoromethane	ND	0.020	4	08/30/2014 20:57
1,2,3-Trichloropropane	ND	0.020	4	08/30/2014 20:57
1,2,4-Trimethylbenzene	**0.12**	0.020	4	08/30/2014 20:57
1,3,5-Trimethylbenzene	**0.031**	0.020	4	08/30/2014 20:57
Vinyl Chloride	ND	0.020	4	08/30/2014 20:57
Xylenes, Total	ND	0.020	4	08/30/2014 20:57

Surrogates	REC (%)	Limits	
Dibromofluoromethane	112	70-130	08/30/2014 20:57
Toluene-d8	92	70-130	08/30/2014 20:57
4-BFB	127	70-130	08/30/2014 20:57

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8260B
Date Prepared:	8/25/14	**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
B7-15.0	**1408878-016A**	**Soil**	**08/22/2014 07:40**	**GC38**	**94452**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	08/27/2014 17:18
tert-Amyl methyl ether (TAME)	ND	0.0050	1	08/27/2014 17:18
Benzene	ND	0.0050	1	08/27/2014 17:18
Bromobenzene	ND	0.0050	1	08/27/2014 17:18
Bromochloromethane	ND	0.0050	1	08/27/2014 17:18
Bromodichloromethane	ND	0.0050	1	08/27/2014 17:18
Bromoform	ND	0.0050	1	08/27/2014 17:18
Bromomethane	ND	0.0050	1	08/27/2014 17:18
2-Butanone (MEK)	ND	0.020	1	08/27/2014 17:18
t-Butyl alcohol (TBA)	ND	0.050	1	08/27/2014 17:18
n-Butyl benzene	ND	0.0050	1	08/27/2014 17:18
sec-Butyl benzene	ND	0.0050	1	08/27/2014 17:18
tert-Butyl benzene	ND	0.0050	1	08/27/2014 17:18
Carbon Disulfide	ND	0.0050	1	08/27/2014 17:18
Carbon Tetrachloride	ND	0.0050	1	08/27/2014 17:18
Chlorobenzene	ND	0.0050	1	08/27/2014 17:18
Chloroethane	ND	0.0050	1	08/27/2014 17:18
Chloroform	ND	0.0050	1	08/27/2014 17:18
Chloromethane	ND	0.0050	1	08/27/2014 17:18
2-Chlorotoluene	ND	0.0050	1	08/27/2014 17:18
4-Chlorotoluene	ND	0.0050	1	08/27/2014 17:18
Dibromochloromethane	ND	0.0050	1	08/27/2014 17:18
1,2-Dibromo-3-chloropropane	ND	0.0040	1	08/27/2014 17:18
1,2-Dibromoethane (EDB)	ND	0.0040	1	08/27/2014 17:18
Dibromomethane	ND	0.0050	1	08/27/2014 17:18
1,2-Dichlorobenzene	ND	0.0050	1	08/27/2014 17:18
1,3-Dichlorobenzene	ND	0.0050	1	08/27/2014 17:18
1,4-Dichlorobenzene	ND	0.0050	1	08/27/2014 17:18
Dichlorodifluoromethane	ND	0.0050	1	08/27/2014 17:18
1,1-Dichloroethane	ND	0.0050	1	08/27/2014 17:18
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	08/27/2014 17:18
1,1-Dichloroethene	ND	0.0050	1	08/27/2014 17:18
cis-1,2-Dichloroethene	ND	0.0050	1	08/27/2014 17:18
trans-1,2-Dichloroethene	ND	0.0050	1	08/27/2014 17:18
1,2-Dichloropropane	ND	0.0050	1	08/27/2014 17:18
1,3-Dichloropropane	ND	0.0050	1	08/27/2014 17:18
2,2-Dichloropropane	ND	0.0050	1	08/27/2014 17:18
1,1-Dichloropropene	ND	0.0050	1	08/27/2014 17:18

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8260B
Date Prepared:	8/25/14	**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
B7-15.0	**1408878-016A**	**Soil**	**08/22/2014 07:40**	**GC38**	**94452**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	08/27/2014 17:18
trans-1,3-Dichloropropene	ND	0.0050	1	08/27/2014 17:18
Diisopropyl ether (DIPE)	ND	0.0050	1	08/27/2014 17:18
Ethylbenzene	ND	0.0050	1	08/27/2014 17:18
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	08/27/2014 17:18
Freon 113	ND	0.10	1	08/27/2014 17:18
Hexachlorobutadiene	ND	0.0050	1	08/27/2014 17:18
Hexachloroethane	ND	0.0050	1	08/27/2014 17:18
2-Hexanone	ND	0.0050	1	08/27/2014 17:18
Isopropylbenzene	ND	0.0050	1	08/27/2014 17:18
4-Isopropyl toluene	ND	0.0050	1	08/27/2014 17:18
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	08/27/2014 17:18
Methylene chloride	ND	0.0050	1	08/27/2014 17:18
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	08/27/2014 17:18
Naphthalene	ND	0.0050	1	08/27/2014 17:18
n-Propyl benzene	ND	0.0050	1	08/27/2014 17:18
Styrene	ND	0.0050	1	08/27/2014 17:18
1,1,1,2-Tetrachloroethane	ND	0.0050	1	08/27/2014 17:18
1,1,2,2-Tetrachloroethane	ND	0.0050	1	08/27/2014 17:18
Tetrachloroethene	ND	0.0050	1	08/27/2014 17:18
Toluene	ND	0.0050	1	08/27/2014 17:18
1,2,3-Trichlorobenzene	ND	0.0050	1	08/27/2014 17:18
1,2,4-Trichlorobenzene	ND	0.0050	1	08/27/2014 17:18
1,1,1-Trichloroethane	ND	0.0050	1	08/27/2014 17:18
1,1,2-Trichloroethane	ND	0.0050	1	08/27/2014 17:18
Trichloroethene	ND	0.0050	1	08/27/2014 17:18
Trichlorofluoromethane	ND	0.0050	1	08/27/2014 17:18
1,2,3-Trichloropropane	ND	0.0050	1	08/27/2014 17:18
1,2,4-Trimethylbenzene	ND	0.0050	1	08/27/2014 17:18
1,3,5-Trimethylbenzene	ND	0.0050	1	08/27/2014 17:18
Vinyl Chloride	ND	0.0050	1	08/27/2014 17:18
Xylenes, Total	ND	0.0050	1	08/27/2014 17:18

Surrogates	REC (%)	Limits	
Dibromofluoromethane	107	70-130	08/27/2014 17:18
Toluene-d8	97	70-130	08/27/2014 17:18
4-BFB	104	70-130	08/27/2014 17:18

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	8/25/14-9/2/14	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B1-10.0	**1408878-001A**	**Soil**	**08/22/2014 10:00**	**GC19**	**94445**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**560**	20	20	08/29/2014 01:16
MTBE	---	1.0	20	08/29/2014 01:16
Benzene	---	0.10	20	08/29/2014 01:16
Toluene	---	0.10	20	08/29/2014 01:16
Ethylbenzene	---	0.10	20	08/29/2014 01:16
Xylenes	---	0.10	20	08/29/2014 01:16

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: d7,d9,c4
2-Fluorotoluene	232	S	70-130	08/29/2014 01:16

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B1-12.0	**1408878-002A**	**Soil**	**08/22/2014 10:20**	**GC7**	**94445**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**2.4**	1.0	1	08/29/2014 02:56
MTBE	---	0.050	1	08/29/2014 02:56
Benzene	---	0.0050	1	08/29/2014 02:56
Toluene	---	0.0050	1	08/29/2014 02:56
Ethylbenzene	---	0.0050	1	08/29/2014 02:56
Xylenes	---	0.0050	1	08/29/2014 02:56

Surrogates	REC (%)	Limits	Analytical Comments: d7
2-Fluorotoluene	100	70-130	08/29/2014 02:56

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B1-15.0	**1408878-003A**	**Soil**	**08/22/2014 10:25**	**GC7**	**94445**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**2.8**	1.0	1	08/29/2014 03:26
MTBE	---	0.050	1	08/29/2014 03:26
Benzene	---	0.0050	1	08/29/2014 03:26
Toluene	---	0.0050	1	08/29/2014 03:26
Ethylbenzene	---	0.0050	1	08/29/2014 03:26
Xylenes	---	0.0050	1	08/29/2014 03:26

Surrogates	REC (%)	Limits	Analytical Comments: d7
2-Fluorotoluene	100	70-130	08/29/2014 03:26

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	8/25/14-9/2/14	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B2-10.0	**1408878-004A**	**Soil**	**08/22/2014 11:40**	**GC19**	**94445**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**4.9**	1.0	1	08/29/2014 16:13
MTBE	---	0.050	1	08/29/2014 16:13
Benzene	---	0.0050	1	08/29/2014 16:13
Toluene	---	0.0050	1	08/29/2014 16:13
Ethylbenzene	---	0.0050	1	08/29/2014 16:13
Xylenes	---	0.0050	1	08/29/2014 16:13

Surrogates	REC (%)	Limits	Analytical Comments: d7
2-Fluorotoluene	73	70-130	08/29/2014 16:13

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B2-15.0	**1408878-005A**	**Soil**	**08/22/2014 11:45**	**GC19**	**94445**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	08/30/2014 01:21
MTBE	---	0.050	1	08/30/2014 01:21
Benzene	---	0.0050	1	08/30/2014 01:21
Toluene	---	0.0050	1	08/30/2014 01:21
Ethylbenzene	---	0.0050	1	08/30/2014 01:21
Xylenes	---	0.0050	1	08/30/2014 01:21

Surrogates	REC (%)	Limits	
2-Fluorotoluene	101	70-130	08/30/2014 01:21

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B3-10.0	**1408878-006A**	**Soil**	**08/22/2014 12:40**	**GC19**	**94445**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**99**	5.0	5	08/29/2014 02:46
MTBE	---	0.25	5	08/29/2014 02:46
Benzene	---	0.025	5	08/29/2014 02:46
Toluene	---	0.025	5	08/29/2014 02:46
Ethylbenzene	---	0.025	5	08/29/2014 02:46
Xylenes	---	0.025	5	08/29/2014 02:46

Surrogates	REC (%)	Limits	Analytical Comments: d1
2-Fluorotoluene	127	70-130	08/29/2014 02:46

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	8/25/14-9/2/14	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B3-15.0	**1408878-007A**	**Soil**	**08/22/2014 12:45**	**GC7**	**94445**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	08/27/2014 04:09
MTBE	---	0.050	1	08/27/2014 04:09
Benzene	---	0.0050	1	08/27/2014 04:09
Toluene	---	0.0050	1	08/27/2014 04:09
Ethylbenzene	---	0.0050	1	08/27/2014 04:09
Xylenes	---	0.0050	1	08/27/2014 04:09

Surrogates	REC (%)	Limits	
2-Fluorotoluene	99	70-130	08/27/2014 04:09

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B4-10.0	**1408878-008A**	**Soil**	**08/22/2014 13:20**	**GC19**	**94445**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**6.5**	1.0	1	08/29/2014 12:17
MTBE	---	0.050	1	08/29/2014 12:17
Benzene	---	0.0050	1	08/29/2014 12:17
Toluene	---	0.0050	1	08/29/2014 12:17
Ethylbenzene	---	0.0050	1	08/29/2014 12:17
Xylenes	---	0.0050	1	08/29/2014 12:17

Surrogates	REC (%)	Limits	Analytical Comments: d1	
2-Fluorotoluene	83	70-130		08/29/2014 12:17

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B4-15.0	**1408878-009A**	**Soil**	**08/22/2014 13:25**	**GC7**	**94445**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	08/27/2014 02:09
MTBE	---	0.050	1	08/27/2014 02:09
Benzene	---	0.0050	1	08/27/2014 02:09
Toluene	---	0.0050	1	08/27/2014 02:09
Ethylbenzene	---	0.0050	1	08/27/2014 02:09
Xylenes	---	0.0050	1	08/27/2014 02:09

Surrogates	REC (%)	Limits	
2-Fluorotoluene	105	70-130	08/27/2014 02:09

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	8/25/14-9/2/14	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B5-5.0	**1408878-010A**	**Soil**	**08/22/2014 09:30**	**GC19**	**94445**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**3.7**	1.0	1	08/30/2014 03:21
MTBE	---	0.050	1	08/30/2014 03:21
Benzene	---	0.0050	1	08/30/2014 03:21
Toluene	---	0.0050	1	08/30/2014 03:21
Ethylbenzene	---	0.0050	1	08/30/2014 03:21
Xylenes	---	0.0050	1	08/30/2014 03:21

Surrogates	REC (%)	Limits	Analytical Comments: d1
2-Fluorotoluene	95	70-130	08/30/2014 03:21

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B5-10.0	**1408878-011A**	**Soil**	**08/22/2014 09:35**	**GC7**	**94445**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**45**	1.0	1	08/27/2014 04:39
MTBE	---	0.050	1	08/27/2014 04:39
Benzene	---	0.0050	1	08/27/2014 04:39
Toluene	---	0.0050	1	08/27/2014 04:39
Ethylbenzene	---	0.0050	1	08/27/2014 04:39
Xylenes	---	0.0050	1	08/27/2014 04:39

Surrogates	REC (%)	Limits	Analytical Comments: d1
2-Fluorotoluene	120	70-130	08/27/2014 04:39

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B6-5.0	**1408878-012A**	**Soil**	**08/22/2014 08:25**	**GC19**	**94445**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**81**	5.0	5	08/29/2014 03:16
MTBE	---	0.25	5	08/29/2014 03:16
Benzene	---	0.025	5	08/29/2014 03:16
Toluene	---	0.025	5	08/29/2014 03:16
Ethylbenzene	---	0.025	5	08/29/2014 03:16
Xylenes	---	0.025	5	08/29/2014 03:16

Surrogates	REC (%)	Limits	Analytical Comments: d1
2-Fluorotoluene	104	70-130	08/29/2014 03:16

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	8/25/14-9/2/14	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B6-10.0	**1408878-013A**	**Soil**	**08/22/2014 08:30**	**GC19**	**94445**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**180**	20	20	08/29/2014 03:46
MTBE	---	1.0	20	08/29/2014 03:46
Benzene	---	0.10	20	08/29/2014 03:46
Toluene	---	0.10	20	08/29/2014 03:46
Ethylbenzene	---	0.10	20	08/29/2014 03:46
Xylenes	---	0.10	20	08/29/2014 03:46

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: d1,c4
2-Fluorotoluene	131	S	70-130	08/29/2014 03:46

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B7-5.0	**1408878-014A**	**Soil**	**08/22/2014 07:34**	**GC19**	**94689**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	09/02/2014 16:43
MTBE	---	0.050	1	09/02/2014 16:43
Benzene	---	0.0050	1	09/02/2014 16:43
Toluene	---	0.0050	1	09/02/2014 16:43
Ethylbenzene	---	0.0050	1	09/02/2014 16:43
Xylenes	---	0.0050	1	09/02/2014 16:43

Surrogates	REC (%)	Limits	
2-Fluorotoluene	96	70-130	09/02/2014 16:43

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B7-10.0	**1408878-015A**	**Soil**	**08/22/2014 07:38**	**GC19**	**94445**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**120**	10	10	08/30/2014 10:22
MTBE	---	0.50	10	08/30/2014 10:22
Benzene	---	0.050	10	08/30/2014 10:22
Toluene	---	0.050	10	08/30/2014 10:22
Ethylbenzene	---	0.050	10	08/30/2014 10:22
Xylenes	---	0.050	10	08/30/2014 10:22

Surrogates	REC (%)	Limits	Analytical Comments: d7,d9
2-Fluorotoluene	118	70-130	08/30/2014 10:22

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW5030B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	8/25/14-9/2/14	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B7-15.0	**1408878-016A**	**Soil**	**08/22/2014 07:40**	**GC7**	**94445**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	08/29/2014 13:53
MTBE	---	0.050	1	08/29/2014 13:53
Benzene	---	0.0050	1	08/29/2014 13:53
Toluene	---	0.0050	1	08/29/2014 13:53
Ethylbenzene	---	0.0050	1	08/29/2014 13:53
Xylenes	---	0.0050	1	08/29/2014 13:53
Surrogates	**REC (%)**	**Limits**		
2-Fluorotoluene	106	70-130		08/29/2014 13:53

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW3050B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW6010B
Date Prepared:	8/25/14	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B1-10.0	**1408878-001A**	**Soil/TOTAL**	**08/22/2014 10:00**	**ICP-JY**	**94446**

Analytes	Result	RL	DF	Date Analyzed
Lead	**5.3**	5.0	1	08/27/2014 14:11

Surrogates	REC (%)	Limits	
Tb 350.917	111	70-130	08/27/2014 14:11

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B1-12.0	**1408878-002A**	**Soil/TOTAL**	**08/22/2014 10:20**	**ICP-JY**	**94446**

Analytes	Result	RL	DF	Date Analyzed
Lead	**5.0**	5.0	1	08/27/2014 14:13

Surrogates	REC (%)	Limits	
Tb 350.917	108	70-130	08/27/2014 14:13

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B1-15.0	**1408878-003A**	**Soil/TOTAL**	**08/22/2014 10:25**	**ICP-JY**	**94446**

Analytes	Result	RL	DF	Date Analyzed
Lead	ND	5.0	1	08/26/2014 15:09

Surrogates	REC (%)	Limits	
Tb 350.917	114	70-130	08/26/2014 15:09

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B2-10.0	**1408878-004A**	**Soil/TOTAL**	**08/22/2014 11:40**	**ICP-JY**	**94446**

Analytes	Result	RL	DF	Date Analyzed
Lead	**6.9**	5.0	1	08/27/2014 14:15

Surrogates	REC (%)	Limits	
Tb 350.917	107	70-130	08/27/2014 14:15

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW3050B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW6010B
Date Prepared:	8/25/14	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B2-15.0	**1408878-005A**	**Soil/TOTAL**	**08/22/2014 11:45**	**ICP-JY**	**94446**

Analytes	Result	RL	DF	Date Analyzed
Lead	**10.4**	5.0	1	08/26/2014 15:11

Surrogates	REC (%)	Limits	
Tb 350.917	105	70-130	08/26/2014 15:11

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B3-10.0	**1408878-006A**	**Soil/TOTAL**	**08/22/2014 12:40**	**ICP-JY**	**94446**

Analytes	Result	RL	DF	Date Analyzed
Lead	**6.6**	5.0	1	08/27/2014 14:17

Surrogates	REC (%)	Limits	
Tb 350.917	113	70-130	08/27/2014 14:17

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B3-15.0	**1408878-007A**	**Soil/TOTAL**	**08/22/2014 12:45**	**ICP-JY**	**94446**

Analytes	Result	RL	DF	Date Analyzed
Lead	**10.3**	5.0	1	08/26/2014 15:14

Surrogates	REC (%)	Limits	
Tb 350.917	104	70-130	08/26/2014 15:14

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B4-10.0	**1408878-008A**	**Soil/TOTAL**	**08/22/2014 13:20**	**ICP-JY**	**94446**

Analytes	Result	RL	DF	Date Analyzed
Lead	**17**	5.0	1	08/27/2014 14:20

Surrogates	REC (%)	Limits	
Tb 350.917	117	70-130	08/27/2014 14:20

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW3050B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW6010B
Date Prepared:	8/25/14	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B4-15.0	**1408878-009A**	**Soil/TOTAL**	**08/22/2014 13:25**	**ICP-JY**	**94446**

Analytes	Result	RL	DF	Date Analyzed
Lead	**5.1**	5.0	1	08/26/2014 15:16

Surrogates	REC (%)	Limits	
Tb 350.917	113	70-130	08/26/2014 15:16

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B5-5.0	**1408878-010A**	**Soil/TOTAL**	**08/22/2014 09:30**	**ICP-JY**	**94446**

Analytes	Result	RL	DF	Date Analyzed
Lead	**6.1**	5.0	1	08/27/2014 14:22

Surrogates	REC (%)	Limits	
Tb 350.917	110	70-130	08/27/2014 14:22

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B5-10.0	**1408878-011A**	**Soil/TOTAL**	**08/22/2014 09:35**	**ICP-JY**	**94446**

Analytes	Result	RL	DF	Date Analyzed
Lead	**5.9**	5.0	1	08/26/2014 15:18

Surrogates	REC (%)	Limits	
Tb 350.917	106	70-130	08/26/2014 15:18

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B6-5.0	**1408878-012A**	**Soil/TOTAL**	**08/22/2014 08:25**	**ICP-JY**	**94446**

Analytes	Result	RL	DF	Date Analyzed
Lead	**8.9**	5.0	1	08/27/2014 14:24

Surrogates	REC (%)	Limits	
Tb 350.917	109	70-130	08/27/2014 14:24

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW3050B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW6010B
Date Prepared:	8/25/14	**Unit:**	mg/Kg

Lead

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B6-10.0	**1408878-013A**	**Soil/TOTAL**	**08/22/2014 08:30**	**ICP-JY**	**94446**

Analytes	Result	RL	DF	Date Analyzed
Lead	**7.6**	5.0	1	08/27/2014 14:26

Surrogates	REC (%)	Limits	
Tb 350.917	112	70-130	08/27/2014 14:26

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B7-5.0	**1408878-014A**	**Soil/TOTAL**	**08/22/2014 07:34**	**ICP-JY**	**94446**

Analytes	Result	RL	DF	Date Analyzed
Lead	**7.9**	5.0	1	08/27/2014 14:28

Surrogates	REC (%)	Limits	
Tb 350.917	105	70-130	08/27/2014 14:28

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B7-10.0	**1408878-015A**	**Soil/TOTAL**	**08/22/2014 07:38**	**ICP-JY**	**94446**

Analytes	Result	RL	DF	Date Analyzed
Lead	**7.1**	5.0	1	08/27/2014 14:30

Surrogates	REC (%)	Limits	
Tb 350.917	109	70-130	08/27/2014 14:30

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B7-15.0	**1408878-016A**	**Soil/TOTAL**	**08/22/2014 07:40**	**ICP-JY**	**94453**

Analytes	Result	RL	DF	Date Analyzed
Lead	**5.1**	5.0	1	08/27/2014 14:00

Surrogates	REC (%)	Limits	
Tb 350.917	106	70-130	08/27/2014 14:00

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW3550B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8015B
Date Prepared:	8/25/14	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B1-10.0	**1408878-001A**	**Soil**	**08/22/2014 10:00**	**GC9b**	**94439**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**3700**	50	50	08/27/2014 19:44
TPH-Motor Oil (C18-C36)	**2000**	250	50	08/27/2014 19:44

Surrogates	REC (%)	Limits	Analytical Comments: e1	
C9	116	70-130		08/27/2014 19:44

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B1-12.0	**1408878-002A**	**Soil**	**08/22/2014 10:20**	**GC9b**	**94439**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**4.3**	1.0	1	08/26/2014 22:26
TPH-Motor Oil (C18-C36)	ND	5.0	1	08/26/2014 22:26

Surrogates	REC (%)	Limits	Analytical Comments: e11/e2	
C9	109	70-130		08/26/2014 22:26

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B1-15.0	**1408878-003A**	**Soil**	**08/22/2014 10:25**	**GC9b**	**94439**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**3.3**	1.0	1	08/27/2014 11:32
TPH-Motor Oil (C18-C36)	ND	5.0	1	08/27/2014 11:32

Surrogates	REC (%)	Limits	Analytical Comments: e11/e2	
C9	110	70-130		08/27/2014 11:32

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B2-10.0	**1408878-004A**	**Soil**	**08/22/2014 11:40**	**GC6A**	**94439**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**24**	1.0	1	08/28/2014 20:48
TPH-Motor Oil (C18-C36)	**40**	5.0	1	08/28/2014 20:48

Surrogates	REC (%)	Limits	Analytical Comments: e7,e2	
C9	80	70-130		08/28/2014 20:48

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW3550B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8015B
Date Prepared:	8/25/14	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B2-15.0	**1408878-005A**	**Soil**	**08/22/2014 11:45**	**GC6A**	**94439**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	08/26/2014 00:44
TPH-Motor Oil (C18-C36)	ND	5.0	1	08/26/2014 00:44

Surrogates	REC (%)	Limits	
C9	85	70-130	08/26/2014 00:44

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B3-10.0	**1408878-006A**	**Soil**	**08/22/2014 12:40**	**GC11B**	**94439**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**160**	2.0	2	08/28/2014 20:21
TPH-Motor Oil (C18-C36)	**120**	10	2	08/28/2014 20:21

Surrogates	REC (%)	Limits	Analytical Comments: e4,e7,e2	
C9	98	70-130		08/28/2014 20:21

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B3-15.0	**1408878-007A**	**Soil**	**08/22/2014 12:45**	**GC6A**	**94439**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**1.5**	1.0	1	08/29/2014 16:24
TPH-Motor Oil (C18-C36)	**6.2**	5.0	1	08/29/2014 16:24

Surrogates	REC (%)	Limits	Analytical Comments: e7,e6,e2	
C9	104	70-130		08/29/2014 16:24

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B4-10.0	**1408878-008A**	**Soil**	**08/22/2014 13:20**	**GC6A**	**94439**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**22**	1.0	1	08/29/2014 09:53
TPH-Motor Oil (C18-C36)	**94**	5.0	1	08/29/2014 09:53

Surrogates	REC (%)	Limits	Analytical Comments: e7,e2	
C9	81	70-130		08/29/2014 09:53

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW3550B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8015B
Date Prepared:	8/25/14	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B4-15.0	**1408878-009A**	**Soil**	**08/22/2014 13:25**	**GC9b**	**94439**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	08/27/2014 10:21
TPH-Motor Oil (C18-C36)	ND	5.0	1	08/27/2014 10:21

Surrogates	REC (%)	Limits	
C9	105	70-130	08/27/2014 10:21

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B5-5.0	**1408878-010A**	**Soil**	**08/22/2014 09:30**	**GC9b**	**94439**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**2.8**	1.0	1	08/27/2014 07:57
TPH-Motor Oil (C18-C36)	**5.1**	5.0	1	08/27/2014 07:57

Surrogates	REC (%)	Limits	Analytical Comments: e7,e2	
C9	113	70-130		08/27/2014 07:57

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B5-10.0	**1408878-011A**	**Soil**	**08/22/2014 09:35**	**GC6A**	**94439**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**4.1**	1.0	1	08/25/2014 23:32
TPH-Motor Oil (C18-C36)	ND	5.0	1	08/25/2014 23:32

Surrogates	REC (%)	Limits	Analytical Comments: e4	
C9	90	70-130		08/25/2014 23:32

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B6-5.0	**1408878-012A**	**Soil**	**08/22/2014 08:25**	**GC9b**	**94439**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**17**	1.0	1	08/26/2014 23:37
TPH-Motor Oil (C18-C36)	ND	5.0	1	08/26/2014 23:37

Surrogates	REC (%)	Limits	Analytical Comments: e4/e11	
C9	109	70-130		08/26/2014 23:37

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Project:	#0398; Auto Depot 4171 Broadway	**Extraction Method:**	SW3550B
Date Received:	8/25/14 19:05	**Analytical Method:**	SW8015B
Date Prepared:	8/25/14	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B6-10.0	**1408878-013A**	**Soil**	**08/22/2014 08:30**	**GC11A**	**94439**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**30**	1.0	1	08/29/2014 15:22
TPH-Motor Oil (C18-C36)	**8.0**	5.0	1	08/29/2014 15:22

Surrogates	REC (%)	Limits	Analytical Comments: e4,e7,e2	
C9	117	70-130		08/29/2014 15:22

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B7-5.0	**1408878-014A**	**Soil**	**08/22/2014 07:34**	**GC9b**	**94439**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	08/27/2014 02:00
TPH-Motor Oil (C18-C36)	ND	5.0	1	08/27/2014 02:00

Surrogates	REC (%)	Limits		
C9	106	70-130		08/27/2014 02:00

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B7-10.0	**1408878-015A**	**Soil**	**08/22/2014 07:38**	**GC9b**	**94439**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**31**	1.0	1	08/27/2014 03:11
TPH-Motor Oil (C18-C36)	ND	5.0	1	08/27/2014 03:11

Surrogates	REC (%)	Limits	Analytical Comments: e4/e11	
C9	107	70-130		08/27/2014 03:11

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B7-15.0	**1408878-016A**	**Soil**	**08/22/2014 07:40**	**GC6A**	**94439**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**1.6**	1.0	1	08/29/2014 17:37
TPH-Motor Oil (C18-C36)	ND	5.0	1	08/29/2014 17:37

Surrogates	REC (%)	Limits	Analytical Comments: e2	
C9	103	70-130		08/29/2014 17:37

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Date Prepared:	8/25/14	**BatchID:**	94437
Date Analyzed:	8/27/14	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#0398; Auto Depot 4171 Broadway	**Sample ID:**	MB/LCS-94437 1408863-003AMS/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	0.0450	0.0050	0.050	-	89.9	61-115
Benzene	ND	0.0466	0.0050	0.050	-	93.2	75-126
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	0.217	0.050	0.20	-	109	63-125
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	0.0470	0.0050	0.050	-	93.9	80-118
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	0.0467	0.0040	0.050	-	93.4	74-121
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	0.0460	0.0040	0.050	-	91.9	68-122
1,1-Dichloroethene	ND	0.0456	0.0050	0.050	-	91.1	65-138
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:**	1408878
Date Prepared:	8/25/14	**BatchID:**	94437
Date Analyzed:	8/27/14	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#0398; Auto Depot 4171 Broadway	**Sample ID:**	MB/LCS-94437 1408863-003AMS/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	0.0477	0.0050	0.050	-	95.4	68-117
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0464	0.0050	0.050	-	92.8	67-116
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	-	93.5	66-118
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	0.0484	0.0050	0.050	-	96.7	84-129
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	0.0462	0.0050	0.050	-	92.4	82-130
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	0.140	0.136		0.12	112	109	80-120
Toluene-d8	0.123	0.122		0.12	98	98	80-120
4-BFB	0.0130	0.0131		0.012	104	105	80-120

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Date Prepared:	8/25/14	**BatchID:**	94437
Date Analyzed:	8/27/14	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#0398; Auto Depot 4171 Broadway	**Sample ID:**	MB/LCS-94437 1408863-003AMS/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)	0.0374	0.0398	0.050	ND	74.7	79.7	70-130	6.40	30
Benzene	0.0395	0.0405	0.050	ND	78.9	81	70-130	2.61	30
t-Butyl alcohol (TBA)	0.174	0.194	0.20	ND	87.3	97.3	70-130	10.8	30
Chlorobenzene	0.0402	0.0406	0.050	ND	80.4	81.2	70-130	0.992	30
1,2-Dibromoethane (EDB)	0.0387	0.0407	0.050	ND	77.4	81.4	70-130	5.08	30
1,2-Dichloroethane (1,2-DCA)	0.0386	0.0401	0.050	ND	77.2	80.2	70-130	3.77	30
1,1-Dichloroethene	0.0414	0.0414	0.050	ND	82.8	82.7	70-130	0.127	30
Diisopropyl ether (DIPE)	0.0401	0.0418	0.050	ND	80.3	83.6	70-130	4.12	30
Ethyl tert-butyl ether (ETBE)	0.0384	0.0408	0.050	ND	76.7	81.5	70-130	6.11	30
Methyl-t-butyl ether (MTBE)	0.0373	0.0400	0.050	ND	74.6	80	70-130	6.90	30
Toluene	0.0408	0.0414	0.050	ND	81.6	82.9	70-130	1.58	30
Trichloroethene	0.0389	0.0399	0.050	ND	77.9	79.8	70-130	2.45	30
Surrogate Recovery									
Dibromofluoromethane	0.137	0.141	0.12		110	113	70-130	2.88	30
Toluene-d8	0.120	0.120	0.12		96	96	70-130	0	30
4-BFB	0.0129	0.0129	0.012		103	103	70-130	0	30

(Cont.)

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Date Prepared:	8/25/14	**BatchID:**	94445
Date Analyzed:	8/27/14	**Extraction Method:**	SW5030B
Instrument:	GC7	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#0398; Auto Depot 4171 Broadway	**Sample ID:**	MB/LCS-94445 1408856-049AMS/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	0.661	0.40	0.60	-	110	70-130
MTBE	ND	0.0789	0.050	0.10	-	78.9	70-130
Benzene	ND	0.114	0.0050	0.10	-	114	70-130
Toluene	ND	0.109	0.0050	0.10	-	109	70-130
Ethylbenzene	ND	0.121	0.0050	0.10	-	121	70-130
Xylenes	ND	0.366	0.0050	0.30	-	122	70-130
Surrogate Recovery							
2-Fluorotoluene	0.112	0.114		0.10	112	114	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.576	0.566	0.60	ND	96	94.4	70-130	1.64	20
MTBE	0.0733	0.0811	0.10	ND	73.3	81.1	70-130	10.0	20
Benzene	0.0899	0.107	0.10	ND	89.9	107	70-130	17.8	20
Toluene	0.0942	0.104	0.10	ND	94.2	104	70-130	10.1	20
Ethylbenzene	0.110	0.114	0.10	ND	110	114	70-130	3.86	20
Xylenes	0.338	0.334	0.30	ND	113	111	70-130	1.16	20
Surrogate Recovery									
2-Fluorotoluene	0.103	0.113	0.10		103	113	70-130	9.06	20

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Date Prepared:	8/25/14	**BatchID:**	94452
Date Analyzed:	8/27/14	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#0398; Auto Depot 4171 Broadway	**Sample ID:**	MB/LCS-94452 1408878-016AMS/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	0.0457	0.0050	0.050	-	91.5	61-115
Benzene	ND	0.0481	0.0050	0.050	-	96.2	75-126
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	0.225	0.050	0.20	-	113	63-125
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	0.0476	0.0050	0.050	-	95.3	80-118
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	0.0468	0.0040	0.050	-	93.6	74-121
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	0.0471	0.0040	0.050	-	94.2	68-122
1,1-Dichloroethene	ND	0.0482	0.0050	0.050	-	96.3	65-138
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:**	1408878
Date Prepared:	8/25/14	**BatchID:**	94452
Date Analyzed:	8/27/14	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#0398; Auto Depot 4171 Broadway	**Sample ID:**	MB/LCS-94452 1408878-016AMS/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	0.0483	0.0050	0.050	-	96.6	68-117
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0470	0.0050	0.050	-	94.1	67-116
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	0.0466	0.0050	0.050	-	93.2	66-118
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	0.0496	0.0050	0.050	-	99.1	84-129
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	0.0481	0.0050	0.050	-	96.3	82-130
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	0.134	0.135		0.12	107	108	80-120
Toluene-d8	0.121	0.122		0.12	97	97	80-120
4-BFB	0.0126	0.0131		0.012	101	105	80-120

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Date Prepared:	8/25/14	**BatchID:**	94452
Date Analyzed:	8/27/14	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#0398; Auto Depot 4171 Broadway	**Sample ID:**	MB/LCS-94452 1408878-016AMS/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)	0.0436	0.0474	0.050	ND	87.3	94.8	70-130	8.34	30
Benzene	0.0461	0.0491	0.050	ND	92.3	98.2	70-130	6.24	30
t-Butyl alcohol (TBA)	0.205	0.232	0.20	ND	103	116	70-130	12.3	30
Chlorobenzene	0.0468	0.0504	0.050	ND	93.5	101	70-130	7.59	30
1,2-Dibromoethane (EDB)	0.0448	0.0487	0.050	ND	89.7	97.5	70-130	8.35	30
1,2-Dichloroethane (1,2-DCA)	0.0442	0.0476	0.050	ND	88.4	95.3	70-130	7.47	30
1,1-Dichloroethene	0.0478	0.0500	0.050	ND	95.7	100	70-130	4.48	30
Diisopropyl ether (DIPE)	0.0462	0.0503	0.050	ND	92.3	101	70-130	8.50	30
Ethyl tert-butyl ether (ETBE)	0.0448	0.0488	0.050	ND	89.5	97.7	70-130	8.72	30
Methyl-t-butyl ether (MTBE)	0.0443	0.0481	0.050	ND	88.6	96.2	70-130	8.29	30
Toluene	0.0477	0.0514	0.050	ND	95.3	103	70-130	7.58	30
Trichloroethene	0.0463	0.0499	0.050	ND	92.7	99.8	70-130	7.40	30
Surrogate Recovery									
Dibromofluoromethane	0.136	0.137	0.12		109	110	70-130	0.800	30
Toluene-d8	0.120	0.122	0.12		96	97	70-130	0.929	30
4-BFB	0.0129	0.0130	0.012		103	104	70-130	0.645	30

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Date Prepared:	9/2/14	**BatchID:**	94689
Date Analyzed:	9/2/14	**Extraction Method:**	SW5030B
Instrument:	GC19	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#0398; Auto Depot 4171 Broadway	**Sample ID:**	MB/LCS-94689 1409024-005AMS/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	0.549	0.40	0.60	-	91.4	70-130
MTBE	ND	0.0996	0.050	0.10	-	99.5	70-130
Benzene	ND	0.113	0.0050	0.10	-	113	70-130
Toluene	ND	0.113	0.0050	0.10	-	113	70-130
Ethylbenzene	ND	0.111	0.0050	0.10	-	111	70-130
Xylenes	ND	0.350	0.0050	0.30	-	117	70-130
Surrogate Recovery							
2-Fluorotoluene	0.101	0.111		0.10	101	111	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<13	NR	NR	-	NR	
MTBE	NR	NR	0	ND<1.7	NR	NR	-	NR	
Benzene	NR	NR	0	ND<0.17	NR	NR	-	NR	
Toluene	NR	NR	0	ND<0.17	NR	NR	-	NR	
Ethylbenzene	NR	NR	0	ND<0.17	NR	NR	-	NR	
Xylenes	NR	NR	0	ND<0.17	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:**	1408878
Date Prepared:	8/25/14	**BatchID:**	94446
Date Analyzed:	8/26/14	**Extraction Method:**	SW3050B
Instrument:	ICP-JY	**Analytical Method:**	SW6010B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#0398; Auto Depot 4171 Broadway	**Sample ID:**	MB/LCS-94446 1408856-044AMS/MSD

QC Summary Report for SW6010B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	51.6	5.0	50	-	103	75-125
Surrogate Recovery							
Tb 350.917	526	546		500	105	109	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	51.8	49.4	50	ND	104	98.8	75-125	4.69	25
Surrogate Recovery									
Tb 350.917	535	511	500		107	102	70-130	4.59	20

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Date Prepared:	8/25/14	**BatchID:**	94453
Date Analyzed:	8/27/14	**Extraction Method:**	SW3050B
Instrument:	ICP-JY	**Analytical Method:**	SW6010B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#0398; Auto Depot 4171 Broadway	**Sample ID:**	MB/LCS-94453 1408878-016AMS/MSD

QC Summary Report for SW6010B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	54.4	5.0	50	-	109	75-125
Surrogate Recovery							
Tb 350.917	510	561		500	102	112	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	62.4	63.5	50	5.122	115	117	75-125	1.79	25
Surrogate Recovery									
Tb 350.917	552	560	500		110	112	70-130	1.57	20

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1408878
Date Prepared:	8/25/14	**BatchID:**	94439
Date Analyzed:	8/27/14	**Extraction Method:**	SW3550B
Instrument:	GC11B, GC6A	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#0398; Auto Depot 4171 Broadway	**Sample ID:**	MB/LCS-94439 1408734-001AMS/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	44.3	1.0	40	-	111	70-130
Surrogate Recovery							
C9	19.8	26.1		25	79	104	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)	46.6	44.6	40	ND	116	111	70-130	4.40	30
Surrogate Recovery									
C9	22.2	20.4	25		89	82	70-130	8.65	30

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1408878 **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: #0398; Auto Depot 4171 Broadway

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

Requested TAT: 5 days

Date Received: **08/25/2014**
Date Printed: **08/25/2014**

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
1408878-001	B1-10.0	Soil	8/22/2014 10:00	☐	A	A	A									
1408878-002	B1-12.0	Soil	8/22/2014 10:20	☐	A	A	A									
1408878-003	B1-15.0	Soil	8/22/2014 10:25	☐	A	A	A									
1408878-004	B2-10.0	Soil	8/22/2014 11:40	☐	A	A	A									
1408878-005	B2-15.0	Soil	8/22/2014 11:45	☐	A	A	A									
1408878-006	B3-10.0	Soil	8/22/2014 12:40	☐	A	A	A									
1408878-007	B3-15.0	Soil	8/22/2014 12:45	☐	A	A	A									
1408878-008	B4-10.0	Soil	8/22/2014 13:20	☐	A	A	A									
1408878-009	B4-15.0	Soil	8/22/2014 13:25	☐	A	A	A									
1408878-010	B5-5.0	Soil	8/22/2014 9:30	☐	A	A	A									
1408878-011	B5-10.0	Soil	8/22/2014 9:35	☐	A	A	A									
1408878-012	B6-5.0	Soil	8/22/2014 8:25	☐	A	A	A									
1408878-013	B6-10.0	Soil	8/22/2014 8:30	☐	A	A	A									
1408878-014	B7-5.0	Soil	8/22/2014 7:34	☐	A	A	A									
1408878-015	B7-10.0	Soil	8/22/2014 7:38	☐	A	A	A									
1408878-016	B7-15.0	Soil	8/22/2014 7:40	☐	A	A	A									

Test Legend:

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

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A, 011A, 012A, 013A, 014A, 015A, 016A contain testgroup.

Prepared by: Ana 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: #0398; Auto Depot 4171 Broadway
Comments:

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

Work Order: 1408878
Date Received: 8/25/2014

☐ 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
1408878-001A	B1-10.0	Soil	Multi-Range TPH(g,d,mo)	1	Acetate Liner	☐	8/22/2014 10:00	5 days		☐	
			SW6010B (Lead)			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1408878-002A	B1-12.0	Soil	SW6010B (Lead)	1	Acetate Liner	☐	8/22/2014 10:20	5 days		☐	
			Multi-Range TPH(g,d,mo)			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1408878-003A	B1-15.0	Soil	SW6010B (Lead)	1	Acetate Liner	☐	8/22/2014 10:25	5 days		☐	
			Multi-Range TPH(g,d,mo)			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1408878-004A	B2-10.0	Soil	Multi-Range TPH(g,d,mo)	1	Acetate Liner	☐	8/22/2014 11:40	5 days		☐	
			SW6010B (Lead)			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1408878-005A	B2-15.0	Soil	SW6010B (Lead)	1	Acetate Liner	☐	8/22/2014 11:45	5 days		☐	
			Multi-Range TPH(g,d,mo)			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1408878-006A	B3-10.0	Soil	SW6010B (Lead)	1	Acetate Liner	☐	8/22/2014 12:40	5 days		☐	
			Multi-Range TPH(g,d,mo)			☐		5 days		☐	

*** 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:

Acetate Liner = Acetate Liner

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WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL
Project: #0398; Auto Depot 4171 Broadway
Comments:

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

Work Order: 1408878
Date Received: 8/25/2014

☐ 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
1408878-006A	B3-10.0	Soil	SW8260B (VOCs)	1	Acetate Liner	☐	8/22/2014 12:40	5 days		☐	
1408878-007A	B3-15.0	Soil	SW6010B (Lead)	1	Acetate Liner	☐	8/22/2014 12:45	5 days		☐	
			Multi-Range TPH(g,d,mo)			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1408878-008A	B4-10.0	Soil	SW6010B (Lead)	1	Acetate Liner	☐	8/22/2014 13:20	5 days		☐	
			Multi-Range TPH(g,d,mo)			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1408878-009A	B4-15.0	Soil	Multi-Range TPH(g,d,mo)	1	Acetate Liner	☐	8/22/2014 13:25	5 days		☐	
			SW6010B (Lead)			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1408878-010A	B5-5.0	Soil	SW6010B (Lead)	1	Acetate Liner	☐	8/22/2014 9:30	5 days		☐	
			Multi-Range TPH(g,d,mo)			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1408878-011A	B5-10.0	Soil	SW6010B (Lead)	1	Acetate Liner	☐	8/22/2014 9:35	5 days		☐	
			Multi-Range TPH(g,d,mo)			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1408878-012A	B6-5.0	Soil	Multi-Range TPH(g,d,mo)	1	Acetate Liner	☐	8/22/2014 8:25	5 days		☐	

*** 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:

Acetate Liner = Acetate Liner

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WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL
Project: #0398; Auto Depot 4171 Broadway
Comments:

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

Work Order: 1408878
Date Received: 8/25/2014

☐ 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
1408878-012A	B6-5.0	Soil	SW6010B (Lead)	1	Acetate Liner	☐	8/22/2014 8:25	5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1408878-013A	B6-10.0	Soil	SW6010B (Lead)	1	Acetate Liner	☐	8/22/2014 8:30	5 days		☐	
			Multi-Range TPH(g,d,mo)			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1408878-014A	B7-5.0	Soil	SW6010B (Lead)	1	Acetate Liner	☐	8/22/2014 7:34	5 days		☐	
			Multi-Range TPH(g,d,mo)			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1408878-015A	B7-10.0	Soil	SW6010B (Lead)	1	Acetate Liner	☐	8/22/2014 7:38	5 days		☐	
			Multi-Range TPH(g,d,mo)			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1408878-016A	B7-15.0	Soil	Multi-Range TPH(g,d,mo)	1	Acetate Liner	☐	8/22/2014 7:40	5 days		☐	
			SW6010B (Lead)			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	

*** 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:

Acetate Liner = Acetate Liner

CHAIN OF CUSTODY RECORD 1408878

PAGE 1 OF 1

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

PROJECT NUMBER: 0398

PROJECT NAME: ALTO DEPOT 4171 BROADWAY OAKLAND, CA

SAMPLED BY: (PRINTED & SIGNATURE) MICHAEL BASS-DESCHENES

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS(ES): TPH-MULTIRANGE (G,D,MO)	EPA 8260B	TOTAL LEAD	PRESERVATIVE	REMARKS
* B1-10.0	8/22/14	1000	SOIL		1	X	X	X	ICE	NORMAL TAT
B1-12.0		1020			1	X	X	X		
B1-15.0		1025			1	X	X	X		
B2-10.0		1140			1	X	X	X		
B2-15.0		1145			1	X	X	X		
B3-10.0		1240			1	X	X	X		
B3-15.0		1245			1	X	X	X		
B4-10.0		1320			1	X	X	X		
B4-15.0		1325			1	X	X	X		
B5-5.0		0930			1	X	X	X		
B5-10.0		0935			1	X	X	X		
B6-5.0		0825			1	X	X	X		
B6-10.0		0830			1	X	X	X		
B7-5.0		0734			1	X	X	X		
B7-10.0		0738			1	X	X	X		
B7-15.0		0740			1	X	X	X		

	DATE	TIME			
RELINQUISHED BY: (SIGNATURE) Michael Bass-Deschenes	8/25/14	1735	RECEIVED BY: (SIGNATURE)	Total No. of Samples (This Shipment)	16
RELINQUISHED BY: (SIGNATURE)	8/25/14	1750	RECEIVED BY: (SIGNATURE)	Total No. of Containers (This Shipment)	16
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	LABORATORY CONTACT: ANGELA RYDELIUS	LABORATORY PHONE NUMBER: (877) 252-9262

LABORATORY: MC CAMPBELL ANALYTICAL INC.

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

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

REMARKS:
ICE/t° 3.5
GOOD CONDITION
HEAD SPACE ABSENT
APPROPRIATE CONTAINERS
PRESERVED IN LAB

* Sample labeled "B1-10.0" Sample Confirm By Date & Time. JV 8/25/14

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Sample Receipt Checklist

Client Name: **P & D Environmental**
Date and Time Received: **8/25/2014 7:05:36 PM**

Project Name: **#0398; Auto Depot 4171 Broadway**
LogIn Reviewed by: Ana Venegas

WorkOrder №: **1408878** Matrix: Soil
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: 3.5°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: WET ICE)		
Total Chlorine present (EPA 522)?	Yes ☐	No ☐	NA ☑

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

Comments:

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1408884

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

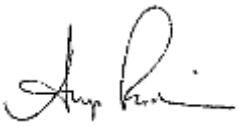
Project Contact: Paul King
Project P.O.:
Project Name: #0398; Auto Depot

Project Received: 08/25/2014

Analytical Report reviewed & approved for release on 09/03/2014 by:

Question about your data?

Click here to email McCampbell



Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

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Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: #0398; Auto Depot
WorkOrder: 1408884

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.
PF	Prep Factor
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

S	spike recovery outside accepted recovery limits
a4	the reporting limits were raised due to the sample's matrix prohibiting a full volume extraction.
b1	aqueous sample that contains greater than ~1 vol. % sediment
b6	lighter than water immiscible sheen/product is present
c1	surrogate recovery outside of the control limits due to the dilution of the sample.
c4	surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.
d1	weakly modified or unmodified gasoline is significant
d2	heavier gasoline range compounds are significant (aged gasoline?)
e2	diesel range compounds are significant; no recognizable pattern
e4	gasoline range compounds are significant.
e7	oil range compounds are significant

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Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: #0398; Auto Depot
WorkOrder: 1408884

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD was out of acceptance criteria; LCS validated the prep batch.

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408884
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/25/14 20:29	**Analytical Method:**	SW8260B
Date Prepared:	8/29/14-9/3/14	**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
B1-W	**1408884-001B**	**Water**	**08/22/2014 16:00**	**GC18**	**94591**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	10,000	1000	08/29/2014 00:58
tert-Amyl methyl ether (TAME)	ND	500	1000	08/29/2014 00:58
Benzene	ND	500	1000	08/29/2014 00:58
Bromobenzene	ND	500	1000	08/29/2014 00:58
Bromochloromethane	ND	500	1000	08/29/2014 00:58
Bromodichloromethane	ND	500	1000	08/29/2014 00:58
Bromoform	ND	500	1000	08/29/2014 00:58
Bromomethane	ND	500	1000	08/29/2014 00:58
2-Butanone (MEK)	ND	2000	1000	08/29/2014 00:58
t-Butyl alcohol (TBA)	ND	2000	1000	08/29/2014 00:58
n-Butyl benzene	ND	500	1000	08/29/2014 00:58
sec-Butyl benzene	ND	500	1000	08/29/2014 00:58
tert-Butyl benzene	ND	500	1000	08/29/2014 00:58
Carbon Disulfide	ND	500	1000	08/29/2014 00:58
Carbon Tetrachloride	ND	500	1000	08/29/2014 00:58
Chlorobenzene	ND	500	1000	08/29/2014 00:58
Chloroethane	ND	500	1000	08/29/2014 00:58
Chloroform	ND	500	1000	08/29/2014 00:58
Chloromethane	ND	500	1000	08/29/2014 00:58
2-Chlorotoluene	ND	500	1000	08/29/2014 00:58
4-Chlorotoluene	ND	500	1000	08/29/2014 00:58
Dibromochloromethane	ND	500	1000	08/29/2014 00:58
1,2-Dibromo-3-chloropropane	ND	200	1000	08/29/2014 00:58
1,2-Dibromoethane (EDB)	ND	500	1000	08/29/2014 00:58
Dibromomethane	ND	500	1000	08/29/2014 00:58
1,2-Dichlorobenzene	ND	500	1000	08/29/2014 00:58
1,3-Dichlorobenzene	ND	500	1000	08/29/2014 00:58
1,4-Dichlorobenzene	ND	500	1000	08/29/2014 00:58
Dichlorodifluoromethane	ND	500	1000	08/29/2014 00:58
1,1-Dichloroethane	ND	500	1000	08/29/2014 00:58
1,2-Dichloroethane (1,2-DCA)	ND	500	1000	08/29/2014 00:58
1,1-Dichloroethene	ND	500	1000	08/29/2014 00:58
cis-1,2-Dichloroethene	ND	500	1000	08/29/2014 00:58
trans-1,2-Dichloroethene	ND	500	1000	08/29/2014 00:58
1,2-Dichloropropane	ND	500	1000	08/29/2014 00:58
1,3-Dichloropropane	ND	500	1000	08/29/2014 00:58
2,2-Dichloropropane	ND	500	1000	08/29/2014 00:58
1,1-Dichloropropene	ND	500	1000	08/29/2014 00:58

(Cont.)

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408884
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/25/14 20:29	**Analytical Method:**	SW8260B
Date Prepared:	8/29/14-9/3/14	**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
B1-W	**1408884-001B**	**Water**	**08/22/2014 16:00**	**GC18**	**94591**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	500	1000	08/29/2014 00:58
trans-1,3-Dichloropropene	ND	500	1000	08/29/2014 00:58
Diisopropyl ether (DIPE)	ND	500	1000	08/29/2014 00:58
Ethylbenzene	**2000**	500	1000	08/29/2014 00:58
Ethyl tert-butyl ether (ETBE)	ND	500	1000	08/29/2014 00:58
Freon 113	ND	500	1000	08/29/2014 00:58
Hexachlorobutadiene	ND	500	1000	08/29/2014 00:58
Hexachloroethane	ND	500	1000	08/29/2014 00:58
2-Hexanone	ND	500	1000	08/29/2014 00:58
Isopropylbenzene	ND	500	1000	08/29/2014 00:58
4-Isopropyl toluene	ND	500	1000	08/29/2014 00:58
Methyl-t-butyl ether (MTBE)	ND	500	1000	08/29/2014 00:58
Methylene chloride	ND	500	1000	08/29/2014 00:58
4-Methyl-2-pentanone (MIBK)	ND	500	1000	08/29/2014 00:58
Naphthalene	**4000**	500	1000	08/29/2014 00:58
n-Propyl benzene	**740**	500	1000	08/29/2014 00:58
Styrene	ND	500	1000	08/29/2014 00:58
1,1,1,2-Tetrachloroethane	ND	500	1000	08/29/2014 00:58
1,1,2,2-Tetrachloroethane	ND	500	1000	08/29/2014 00:58
Tetrachloroethene	ND	500	1000	08/29/2014 00:58
Toluene	**2900**	500	1000	08/29/2014 00:58
1,2,3-Trichlorobenzene	ND	500	1000	08/29/2014 00:58
1,2,4-Trichlorobenzene	ND	500	1000	08/29/2014 00:58
1,1,1-Trichloroethane	ND	500	1000	08/29/2014 00:58
1,1,2-Trichloroethane	ND	500	1000	08/29/2014 00:58
Trichloroethene	ND	500	1000	08/29/2014 00:58
Trichlorofluoromethane	ND	500	1000	08/29/2014 00:58
1,2,3-Trichloropropane	ND	500	1000	08/29/2014 00:58
1,2,4-Trimethylbenzene	**6700**	500	1000	08/29/2014 00:58
1,3,5-Trimethylbenzene	**1500**	500	1000	08/29/2014 00:58
Vinyl Chloride	ND	500	1000	08/29/2014 00:58
Xylenes, Total	**14,000**	500	1000	08/29/2014 00:58

Surrogates	REC (%)	Limits	Analytical Comments: b6,b1	
Dibromofluoromethane	98	70-130		08/29/2014 00:58
Toluene-d8	98	70-130		08/29/2014 00:58
4-BFB	94	70-130		08/29/2014 00:58

(Cont.)

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408884
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/25/14 20:29	**Analytical Method:**	SW8260B
Date Prepared:	8/29/14-9/3/14	**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
B2-W	**1408884-002B**	**Water**	**08/22/2014 16:30**	**GC18**	**94591**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	100	10	08/29/2014 01:36
tert-Amyl methyl ether (TAME)	ND	5.0	10	08/29/2014 01:36
Benzene	ND	5.0	10	08/29/2014 01:36
Bromobenzene	ND	5.0	10	08/29/2014 01:36
Bromochloromethane	ND	5.0	10	08/29/2014 01:36
Bromodichloromethane	ND	5.0	10	08/29/2014 01:36
Bromoform	ND	5.0	10	08/29/2014 01:36
Bromomethane	ND	5.0	10	08/29/2014 01:36
2-Butanone (MEK)	ND	20	10	08/29/2014 01:36
t-Butyl alcohol (TBA)	ND	20	10	08/29/2014 01:36
n-Butyl benzene	ND	5.0	10	08/29/2014 01:36
sec-Butyl benzene	ND	5.0	10	08/29/2014 01:36
tert-Butyl benzene	ND	5.0	10	08/29/2014 01:36
Carbon Disulfide	ND	5.0	10	08/29/2014 01:36
Carbon Tetrachloride	ND	5.0	10	08/29/2014 01:36
Chlorobenzene	ND	5.0	10	08/29/2014 01:36
Chloroethane	ND	5.0	10	08/29/2014 01:36
Chloroform	ND	5.0	10	08/29/2014 01:36
Chloromethane	ND	5.0	10	08/29/2014 01:36
2-Chlorotoluene	ND	5.0	10	08/29/2014 01:36
4-Chlorotoluene	ND	5.0	10	08/29/2014 01:36
Dibromochloromethane	ND	5.0	10	08/29/2014 01:36
1,2-Dibromo-3-chloropropane	ND	2.0	10	08/29/2014 01:36
1,2-Dibromoethane (EDB)	ND	5.0	10	08/29/2014 01:36
Dibromomethane	ND	5.0	10	08/29/2014 01:36
1,2-Dichlorobenzene	ND	5.0	10	08/29/2014 01:36
1,3-Dichlorobenzene	ND	5.0	10	08/29/2014 01:36
1,4-Dichlorobenzene	ND	5.0	10	08/29/2014 01:36
Dichlorodifluoromethane	ND	5.0	10	08/29/2014 01:36
1,1-Dichloroethane	ND	5.0	10	08/29/2014 01:36
1,2-Dichloroethane (1,2-DCA)	ND	5.0	10	08/29/2014 01:36
1,1-Dichloroethene	ND	5.0	10	08/29/2014 01:36
cis-1,2-Dichloroethene	ND	5.0	10	08/29/2014 01:36
trans-1,2-Dichloroethene	ND	5.0	10	08/29/2014 01:36
1,2-Dichloropropane	ND	5.0	10	08/29/2014 01:36
1,3-Dichloropropane	ND	5.0	10	08/29/2014 01:36
2,2-Dichloropropane	ND	5.0	10	08/29/2014 01:36
1,1-Dichloropropene	ND	5.0	10	08/29/2014 01:36

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408884
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/25/14 20:29	**Analytical Method:**	SW8260B
Date Prepared:	8/29/14-9/3/14	**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
B2-W	**1408884-002B**	**Water**	**08/22/2014 16:30**	**GC18**	**94591**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	5.0	10	08/29/2014 01:36
trans-1,3-Dichloropropene	ND	5.0	10	08/29/2014 01:36
Diisopropyl ether (DIPE)	ND	5.0	10	08/29/2014 01:36
Ethylbenzene	**12**	5.0	10	08/29/2014 01:36
Ethyl tert-butyl ether (ETBE)	ND	5.0	10	08/29/2014 01:36
Freon 113	ND	5.0	10	08/29/2014 01:36
Hexachlorobutadiene	ND	5.0	10	08/29/2014 01:36
Hexachloroethane	ND	5.0	10	08/29/2014 01:36
2-Hexanone	ND	5.0	10	08/29/2014 01:36
Isopropylbenzene	ND	5.0	10	08/29/2014 01:36
4-Isopropyl toluene	ND	5.0	10	08/29/2014 01:36
Methyl-t-butyl ether (MTBE)	ND	5.0	10	08/29/2014 01:36
Methylene chloride	ND	5.0	10	08/29/2014 01:36
4-Methyl-2-pentanone (MIBK)	ND	5.0	10	08/29/2014 01:36
Naphthalene	**210**	5.0	10	08/29/2014 01:36
n-Propyl benzene	**17**	5.0	10	08/29/2014 01:36
Styrene	ND	5.0	10	08/29/2014 01:36
1,1,1,2-Tetrachloroethane	ND	5.0	10	08/29/2014 01:36
1,1,2,2-Tetrachloroethane	ND	5.0	10	08/29/2014 01:36
Tetrachloroethene	ND	5.0	10	08/29/2014 01:36
Toluene	**5.1**	5.0	10	08/29/2014 01:36
1,2,3-Trichlorobenzene	ND	5.0	10	08/29/2014 01:36
1,2,4-Trichlorobenzene	ND	5.0	10	08/29/2014 01:36
1,1,1-Trichloroethane	ND	5.0	10	08/29/2014 01:36
1,1,2-Trichloroethane	ND	5.0	10	08/29/2014 01:36
Trichloroethene	ND	5.0	10	08/29/2014 01:36
Trichlorofluoromethane	ND	5.0	10	08/29/2014 01:36
1,2,3-Trichloropropane	ND	5.0	10	08/29/2014 01:36
1,2,4-Trimethylbenzene	**210**	5.0	10	08/29/2014 01:36
1,3,5-Trimethylbenzene	**42**	5.0	10	08/29/2014 01:36
Vinyl Chloride	ND	5.0	10	08/29/2014 01:36
Xylenes, Total	**110**	5.0	10	08/29/2014 01:36

Surrogates	REC (%)	Limits	Analytical Comments: b1	
Dibromofluoromethane	95	70-130		08/29/2014 01:36
Toluene-d8	97	70-130		08/29/2014 01:36
4-BFB	95	70-130		08/29/2014 01:36

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408884
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/25/14 20:29	**Analytical Method:**	SW8260B
Date Prepared:	8/29/14-9/3/14	**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
B3-W	**1408884-003B**	**Water**	**08/22/2014 16:15**	**GC18**	**94591**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	330	33	08/29/2014 02:15
tert-Amyl methyl ether (TAME)	ND	17	33	08/29/2014 02:15
Benzene	**450**	17	33	08/29/2014 02:15
Bromobenzene	ND	17	33	08/29/2014 02:15
Bromochloromethane	ND	17	33	08/29/2014 02:15
Bromodichloromethane	ND	17	33	08/29/2014 02:15
Bromoform	ND	17	33	08/29/2014 02:15
Bromomethane	ND	17	33	08/29/2014 02:15
2-Butanone (MEK)	ND	67	33	08/29/2014 02:15
t-Butyl alcohol (TBA)	ND	67	33	08/29/2014 02:15
n-Butyl benzene	**50**	17	33	08/29/2014 02:15
sec-Butyl benzene	**17**	17	33	08/29/2014 02:15
tert-Butyl benzene	ND	17	33	08/29/2014 02:15
Carbon Disulfide	ND	17	33	08/29/2014 02:15
Carbon Tetrachloride	ND	17	33	08/29/2014 02:15
Chlorobenzene	ND	17	33	08/29/2014 02:15
Chloroethane	ND	17	33	08/29/2014 02:15
Chloroform	ND	17	33	08/29/2014 02:15
Chloromethane	ND	17	33	08/29/2014 02:15
2-Chlorotoluene	ND	17	33	08/29/2014 02:15
4-Chlorotoluene	ND	17	33	08/29/2014 02:15
Dibromochloromethane	ND	17	33	08/29/2014 02:15
1,2-Dibromo-3-chloropropane	ND	6.7	33	08/29/2014 02:15
1,2-Dibromoethane (EDB)	ND	17	33	08/29/2014 02:15
Dibromomethane	ND	17	33	08/29/2014 02:15
1,2-Dichlorobenzene	ND	17	33	08/29/2014 02:15
1,3-Dichlorobenzene	ND	17	33	08/29/2014 02:15
1,4-Dichlorobenzene	ND	17	33	08/29/2014 02:15
Dichlorodifluoromethane	ND	17	33	08/29/2014 02:15
1,1-Dichloroethane	ND	17	33	08/29/2014 02:15
1,2-Dichloroethane (1,2-DCA)	ND	17	33	08/29/2014 02:15
1,1-Dichloroethene	ND	17	33	08/29/2014 02:15
cis-1,2-Dichloroethene	ND	17	33	08/29/2014 02:15
trans-1,2-Dichloroethene	ND	17	33	08/29/2014 02:15
1,2-Dichloropropane	ND	17	33	08/29/2014 02:15
1,3-Dichloropropane	ND	17	33	08/29/2014 02:15
2,2-Dichloropropane	ND	17	33	08/29/2014 02:15
1,1-Dichloropropene	ND	17	33	08/29/2014 02:15

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408884
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/25/14 20:29	**Analytical Method:**	SW8260B
Date Prepared:	8/29/14-9/3/14	**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
B3-W	**1408884-003B**	**Water**	**08/22/2014 16:15**	**GC18**	**94591**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	17	33	08/29/2014 02:15
trans-1,3-Dichloropropene	ND	17	33	08/29/2014 02:15
Diisopropyl ether (DIPE)	ND	17	33	08/29/2014 02:15
Ethylbenzene	**140**	17	33	08/29/2014 02:15
Ethyl tert-butyl ether (ETBE)	ND	17	33	08/29/2014 02:15
Freon 113	ND	17	33	08/29/2014 02:15
Hexachlorobutadiene	ND	17	33	08/29/2014 02:15
Hexachloroethane	ND	17	33	08/29/2014 02:15
2-Hexanone	ND	17	33	08/29/2014 02:15
Isopropylbenzene	**120**	17	33	08/29/2014 02:15
4-Isopropyl toluene	ND	17	33	08/29/2014 02:15
Methyl-t-butyl ether (MTBE)	ND	17	33	08/29/2014 02:15
Methylene chloride	ND	17	33	08/29/2014 02:15
4-Methyl-2-pentanone (MIBK)	ND	17	33	08/29/2014 02:15
Naphthalene	**380**	17	33	08/29/2014 02:15
n-Propyl benzene	**300**	17	33	08/29/2014 02:15
Styrene	ND	17	33	08/29/2014 02:15
1,1,1,2-Tetrachloroethane	ND	17	33	08/29/2014 02:15
1,1,2,2-Tetrachloroethane	ND	17	33	08/29/2014 02:15
Tetrachloroethene	ND	17	33	08/29/2014 02:15
Toluene	ND	17	33	08/29/2014 02:15
1,2,3-Trichlorobenzene	ND	17	33	08/29/2014 02:15
1,2,4-Trichlorobenzene	ND	17	33	08/29/2014 02:15
1,1,1-Trichloroethane	ND	17	33	08/29/2014 02:15
1,1,2-Trichloroethane	ND	17	33	08/29/2014 02:15
Trichloroethene	ND	17	33	08/29/2014 02:15
Trichlorofluoromethane	ND	17	33	08/29/2014 02:15
1,2,3-Trichloropropane	ND	17	33	08/29/2014 02:15
1,2,4-Trimethylbenzene	ND	17	33	08/29/2014 02:15
1,3,5-Trimethylbenzene	ND	17	33	08/29/2014 02:15
Vinyl Chloride	ND	17	33	08/29/2014 02:15
Xylenes, Total	ND	17	33	08/29/2014 02:15

Surrogates	REC (%)	Limits	
Dibromofluoromethane	98	70-130	08/29/2014 02:15
Toluene-d8	99	70-130	08/29/2014 02:15
4-BFB	93	70-130	08/29/2014 02:15

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408884
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/25/14 20:29	**Analytical Method:**	SW8260B
Date Prepared:	8/29/14-9/3/14	**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
B4-W	**1408884-004B**	**Water**	**08/22/2014 11:45**	**GC18**	**94591**

Analytes	Result	RL	DF	Date Analyzed
Acetone	**46**	10	1	08/29/2014 02:53
tert-Amyl methyl ether (TAME)	ND	0.50	1	08/29/2014 02:53
Benzene	**15**	0.50	1	08/29/2014 02:53
Bromobenzene	ND	0.50	1	08/29/2014 02:53
Bromochloromethane	ND	0.50	1	08/29/2014 02:53
Bromodichloromethane	ND	0.50	1	08/29/2014 02:53
Bromoform	ND	0.50	1	08/29/2014 02:53
Bromomethane	ND	0.50	1	08/29/2014 02:53
2-Butanone (MEK)	**14**	2.0	1	08/29/2014 02:53
t-Butyl alcohol (TBA)	**5.0**	2.0	1	08/29/2014 02:53
n-Butyl benzene	ND	0.50	1	08/29/2014 02:53
sec-Butyl benzene	ND	0.50	1	08/29/2014 02:53
tert-Butyl benzene	ND	0.50	1	08/29/2014 02:53
Carbon Disulfide	ND	0.50	1	08/29/2014 02:53
Carbon Tetrachloride	ND	0.50	1	08/29/2014 02:53
Chlorobenzene	ND	0.50	1	08/29/2014 02:53
Chloroethane	ND	0.50	1	08/29/2014 02:53
Chloroform	ND	0.50	1	08/29/2014 02:53
Chloromethane	ND	0.50	1	08/29/2014 02:53
2-Chlorotoluene	ND	0.50	1	08/29/2014 02:53
4-Chlorotoluene	ND	0.50	1	08/29/2014 02:53
Dibromochloromethane	ND	0.50	1	08/29/2014 02:53
1,2-Dibromo-3-chloropropane	ND	0.20	1	08/29/2014 02:53
1,2-Dibromoethane (EDB)	ND	0.50	1	08/29/2014 02:53
Dibromomethane	ND	0.50	1	08/29/2014 02:53
1,2-Dichlorobenzene	ND	0.50	1	08/29/2014 02:53
1,3-Dichlorobenzene	ND	0.50	1	08/29/2014 02:53
1,4-Dichlorobenzene	ND	0.50	1	08/29/2014 02:53
Dichlorodifluoromethane	ND	0.50	1	08/29/2014 02:53
1,1-Dichloroethane	ND	0.50	1	08/29/2014 02:53
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	08/29/2014 02:53
1,1-Dichloroethene	ND	0.50	1	08/29/2014 02:53
cis-1,2-Dichloroethene	ND	0.50	1	08/29/2014 02:53
trans-1,2-Dichloroethene	ND	0.50	1	08/29/2014 02:53
1,2-Dichloropropane	ND	0.50	1	08/29/2014 02:53
1,3-Dichloropropane	ND	0.50	1	08/29/2014 02:53
2,2-Dichloropropane	ND	0.50	1	08/29/2014 02:53
1,1-Dichloropropene	ND	0.50	1	08/29/2014 02:53

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408884
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/25/14 20:29	**Analytical Method:**	SW8260B
Date Prepared:	8/29/14-9/3/14	**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
B4-W	**1408884-004B**	**Water**	**08/22/2014 11:45**	**GC18**	**94591**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50	1	08/29/2014 02:53
trans-1,3-Dichloropropene	ND	0.50	1	08/29/2014 02:53
Diisopropyl ether (DIPE)	ND	0.50	1	08/29/2014 02:53
Ethylbenzene	**3.0**	0.50	1	08/29/2014 02:53
Ethyl tert-butyl ether (ETBE)	ND	0.50	1	08/29/2014 02:53
Freon 113	ND	0.50	1	08/29/2014 02:53
Hexachlorobutadiene	ND	0.50	1	08/29/2014 02:53
Hexachloroethane	ND	0.50	1	08/29/2014 02:53
2-Hexanone	**1.5**	0.50	1	08/29/2014 02:53
Isopropylbenzene	**1.1**	0.50	1	08/29/2014 02:53
4-Isopropyl toluene	ND	0.50	1	08/29/2014 02:53
Methyl-t-butyl ether (MTBE)	ND	0.50	1	08/29/2014 02:53
Methylene chloride	ND	0.50	1	08/29/2014 02:53
4-Methyl-2-pentanone (MIBK)	ND	0.50	1	08/29/2014 02:53
Naphthalene	**1.6**	0.50	1	08/29/2014 02:53
n-Propyl benzene	**2.3**	0.50	1	08/29/2014 02:53
Styrene	ND	0.50	1	08/29/2014 02:53
1,1,1,2-Tetrachloroethane	ND	0.50	1	08/29/2014 02:53
1,1,2,2-Tetrachloroethane	ND	0.50	1	08/29/2014 02:53
Tetrachloroethene	ND	0.50	1	08/29/2014 02:53
Toluene	ND	0.50	1	08/29/2014 02:53
1,2,3-Trichlorobenzene	ND	0.50	1	08/29/2014 02:53
1,2,4-Trichlorobenzene	ND	0.50	1	08/29/2014 02:53
1,1,1-Trichloroethane	ND	0.50	1	08/29/2014 02:53
1,1,2-Trichloroethane	ND	0.50	1	08/29/2014 02:53
Trichloroethene	ND	0.50	1	08/29/2014 02:53
Trichlorofluoromethane	ND	0.50	1	08/29/2014 02:53
1,2,3-Trichloropropane	ND	0.50	1	08/29/2014 02:53
1,2,4-Trimethylbenzene	ND	0.50	1	08/29/2014 02:53
1,3,5-Trimethylbenzene	ND	0.50	1	08/29/2014 02:53
Vinyl Chloride	ND	0.50	1	08/29/2014 02:53
Xylenes, Total	ND	0.50	1	08/29/2014 02:53

Surrogates	REC (%)	Limits	
Dibromofluoromethane	101	70-130	08/29/2014 02:53
Toluene-d8	100	70-130	08/29/2014 02:53
4-BFB	96	70-130	08/29/2014 02:53

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408884
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/25/14 20:29	**Analytical Method:**	SW8260B
Date Prepared:	8/29/14-9/3/14	**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
B5-W	**1408884-005B**	**Water**	**08/22/2014 15:45**	**GC28**	**94591**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	100	10	09/02/2014 23:27
tert-Amyl methyl ether (TAME)	ND	5.0	10	09/02/2014 23:27
Benzene	**88**	5.0	10	09/02/2014 23:27
Bromobenzene	ND	5.0	10	09/02/2014 23:27
Bromochloromethane	ND	5.0	10	09/02/2014 23:27
Bromodichloromethane	ND	5.0	10	09/02/2014 23:27
Bromoform	ND	5.0	10	09/02/2014 23:27
Bromomethane	ND	5.0	10	09/02/2014 23:27
2-Butanone (MEK)	ND	20	10	09/02/2014 23:27
t-Butyl alcohol (TBA)	ND	20	10	09/02/2014 23:27
n-Butyl benzene	ND	5.0	10	09/02/2014 23:27
sec-Butyl benzene	ND	5.0	10	09/02/2014 23:27
tert-Butyl benzene	ND	5.0	10	09/02/2014 23:27
Carbon Disulfide	ND	5.0	10	09/02/2014 23:27
Carbon Tetrachloride	ND	5.0	10	09/02/2014 23:27
Chlorobenzene	ND	5.0	10	09/02/2014 23:27
Chloroethane	ND	5.0	10	09/02/2014 23:27
Chloroform	ND	5.0	10	09/02/2014 23:27
Chloromethane	ND	5.0	10	09/02/2014 23:27
2-Chlorotoluene	ND	5.0	10	09/02/2014 23:27
4-Chlorotoluene	ND	5.0	10	09/02/2014 23:27
Dibromochloromethane	ND	5.0	10	09/02/2014 23:27
1,2-Dibromo-3-chloropropane	ND	2.0	10	09/02/2014 23:27
1,2-Dibromoethane (EDB)	ND	5.0	10	09/02/2014 23:27
Dibromomethane	ND	5.0	10	09/02/2014 23:27
1,2-Dichlorobenzene	ND	5.0	10	09/02/2014 23:27
1,3-Dichlorobenzene	ND	5.0	10	09/02/2014 23:27
1,4-Dichlorobenzene	ND	5.0	10	09/02/2014 23:27
Dichlorodifluoromethane	ND	5.0	10	09/02/2014 23:27
1,1-Dichloroethane	ND	5.0	10	09/02/2014 23:27
1,2-Dichloroethane (1,2-DCA)	ND	5.0	10	09/02/2014 23:27
1,1-Dichloroethene	ND	5.0	10	09/02/2014 23:27
cis-1,2-Dichloroethene	ND	5.0	10	09/02/2014 23:27
trans-1,2-Dichloroethene	ND	5.0	10	09/02/2014 23:27
1,2-Dichloropropane	ND	5.0	10	09/02/2014 23:27
1,3-Dichloropropane	ND	5.0	10	09/02/2014 23:27
2,2-Dichloropropane	ND	5.0	10	09/02/2014 23:27
1,1-Dichloropropene	ND	5.0	10	09/02/2014 23:27

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408884
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/25/14 20:29	**Analytical Method:**	SW8260B
Date Prepared:	8/29/14-9/3/14	**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
B5-W	**1408884-005B**	**Water**	**08/22/2014 15:45**	**GC28**	**94591**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	5.0	10	09/02/2014 23:27
trans-1,3-Dichloropropene	ND	5.0	10	09/02/2014 23:27
Diisopropyl ether (DIPE)	ND	5.0	10	09/02/2014 23:27
Ethylbenzene	**58**	5.0	10	09/02/2014 23:27
Ethyl tert-butyl ether (ETBE)	ND	5.0	10	09/02/2014 23:27
Freon 113	ND	5.0	10	09/02/2014 23:27
Hexachlorobutadiene	ND	5.0	10	09/02/2014 23:27
Hexachloroethane	ND	5.0	10	09/02/2014 23:27
2-Hexanone	ND	5.0	10	09/02/2014 23:27
Isopropylbenzene	ND	5.0	10	09/02/2014 23:27
4-Isopropyl toluene	ND	5.0	10	09/02/2014 23:27
Methyl-t-butyl ether (MTBE)	ND	5.0	10	09/02/2014 23:27
Methylene chloride	ND	5.0	10	09/02/2014 23:27
4-Methyl-2-pentanone (MIBK)	ND	5.0	10	09/02/2014 23:27
Naphthalene	**18**	5.0	10	09/02/2014 23:27
n-Propyl benzene	**11**	5.0	10	09/02/2014 23:27
Styrene	ND	5.0	10	09/02/2014 23:27
1,1,1,2-Tetrachloroethane	ND	5.0	10	09/02/2014 23:27
1,1,2,2-Tetrachloroethane	ND	5.0	10	09/02/2014 23:27
Tetrachloroethene	ND	5.0	10	09/02/2014 23:27
Toluene	ND	5.0	10	09/02/2014 23:27
1,2,3-Trichlorobenzene	ND	5.0	10	09/02/2014 23:27
1,2,4-Trichlorobenzene	ND	5.0	10	09/02/2014 23:27
1,1,1-Trichloroethane	ND	5.0	10	09/02/2014 23:27
1,1,2-Trichloroethane	ND	5.0	10	09/02/2014 23:27
Trichloroethene	ND	5.0	10	09/02/2014 23:27
Trichlorofluoromethane	ND	5.0	10	09/02/2014 23:27
1,2,3-Trichloropropane	ND	5.0	10	09/02/2014 23:27
1,2,4-Trimethylbenzene	**37**	5.0	10	09/02/2014 23:27
1,3,5-Trimethylbenzene	**8.5**	5.0	10	09/02/2014 23:27
Vinyl Chloride	ND	5.0	10	09/02/2014 23:27
Xylenes, Total	**53**	5.0	10	09/02/2014 23:27

Surrogates	REC (%)	Limits	Analytical Comments: b1	
Dibromofluoromethane	101	70-130		09/02/2014 23:27
Toluene-d8	92	70-130		09/02/2014 23:27
4-BFB	87	70-130		09/02/2014 23:27

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408884
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/25/14 20:29	**Analytical Method:**	SW8260B
Date Prepared:	8/29/14-9/3/14	**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
B6-W	**1408884-006B**	**Water**	**08/22/2014 15:15**	**GC18**	**94591**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	2000	200	08/29/2014 04:10
tert-Amyl methyl ether (TAME)	ND	100	200	08/29/2014 04:10
Benzene	**5500**	100	200	08/29/2014 04:10
Bromobenzene	ND	100	200	08/29/2014 04:10
Bromochloromethane	ND	100	200	08/29/2014 04:10
Bromodichloromethane	ND	100	200	08/29/2014 04:10
Bromoform	ND	100	200	08/29/2014 04:10
Bromomethane	ND	100	200	08/29/2014 04:10
2-Butanone (MEK)	**440**	400	200	08/29/2014 04:10
t-Butyl alcohol (TBA)	ND	400	200	08/29/2014 04:10
n-Butyl benzene	ND	100	200	08/29/2014 04:10
sec-Butyl benzene	ND	100	200	08/29/2014 04:10
tert-Butyl benzene	ND	100	200	08/29/2014 04:10
Carbon Disulfide	ND	100	200	08/29/2014 04:10
Carbon Tetrachloride	ND	100	200	08/29/2014 04:10
Chlorobenzene	ND	100	200	08/29/2014 04:10
Chloroethane	ND	100	200	08/29/2014 04:10
Chloroform	ND	100	200	08/29/2014 04:10
Chloromethane	ND	100	200	08/29/2014 04:10
2-Chlorotoluene	ND	100	200	08/29/2014 04:10
4-Chlorotoluene	ND	100	200	08/29/2014 04:10
Dibromochloromethane	ND	100	200	08/29/2014 04:10
1,2-Dibromo-3-chloropropane	ND	40	200	08/29/2014 04:10
1,2-Dibromoethane (EDB)	ND	100	200	08/29/2014 04:10
Dibromomethane	ND	100	200	08/29/2014 04:10
1,2-Dichlorobenzene	ND	100	200	08/29/2014 04:10
1,3-Dichlorobenzene	ND	100	200	08/29/2014 04:10
1,4-Dichlorobenzene	ND	100	200	08/29/2014 04:10
Dichlorodifluoromethane	ND	100	200	08/29/2014 04:10
1,1-Dichloroethane	ND	100	200	08/29/2014 04:10
1,2-Dichloroethane (1,2-DCA)	ND	100	200	08/29/2014 04:10
1,1-Dichloroethene	ND	100	200	08/29/2014 04:10
cis-1,2-Dichloroethene	ND	100	200	08/29/2014 04:10
trans-1,2-Dichloroethene	ND	100	200	08/29/2014 04:10
1,2-Dichloropropane	ND	100	200	08/29/2014 04:10
1,3-Dichloropropane	ND	100	200	08/29/2014 04:10
2,2-Dichloropropane	ND	100	200	08/29/2014 04:10
1,1-Dichloropropene	ND	100	200	08/29/2014 04:10

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408884
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/25/14 20:29	**Analytical Method:**	SW8260B
Date Prepared:	8/29/14-9/3/14	**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
B6-W	**1408884-006B**	**Water**	**08/22/2014 15:15**	**GC18**	**94591**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	100	200	08/29/2014 04:10
trans-1,3-Dichloropropene	ND	100	200	08/29/2014 04:10
Diisopropyl ether (DIPE)	ND	100	200	08/29/2014 04:10
Ethylbenzene	**1700**	100	200	08/29/2014 04:10
Ethyl tert-butyl ether (ETBE)	ND	100	200	08/29/2014 04:10
Freon 113	ND	100	200	08/29/2014 04:10
Hexachlorobutadiene	ND	100	200	08/29/2014 04:10
Hexachloroethane	ND	100	200	08/29/2014 04:10
2-Hexanone	ND	100	200	08/29/2014 04:10
Isopropylbenzene	ND	100	200	08/29/2014 04:10
4-Isopropyl toluene	ND	100	200	08/29/2014 04:10
Methyl-t-butyl ether (MTBE)	ND	100	200	08/29/2014 04:10
Methylene chloride	ND	100	200	08/29/2014 04:10
4-Methyl-2-pentanone (MIBK)	ND	100	200	08/29/2014 04:10
Naphthalene	**630**	100	200	08/29/2014 04:10
n-Propyl benzene	**180**	100	200	08/29/2014 04:10
Styrene	ND	100	200	08/29/2014 04:10
1,1,1,2-Tetrachloroethane	ND	100	200	08/29/2014 04:10
1,1,2,2-Tetrachloroethane	ND	100	200	08/29/2014 04:10
Tetrachloroethene	ND	100	200	08/29/2014 04:10
Toluene	**200**	100	200	08/29/2014 04:10
1,2,3-Trichlorobenzene	ND	100	200	08/29/2014 04:10
1,2,4-Trichlorobenzene	ND	100	200	08/29/2014 04:10
1,1,1-Trichloroethane	ND	100	200	08/29/2014 04:10
1,1,2-Trichloroethane	ND	100	200	08/29/2014 04:10
Trichloroethene	ND	100	200	08/29/2014 04:10
Trichlorofluoromethane	ND	100	200	08/29/2014 04:10
1,2,3-Trichloropropane	ND	100	200	08/29/2014 04:10
1,2,4-Trimethylbenzene	**610**	100	200	08/29/2014 04:10
1,3,5-Trimethylbenzene	**140**	100	200	08/29/2014 04:10
Vinyl Chloride	ND	100	200	08/29/2014 04:10
Xylenes, Total	**2400**	100	200	08/29/2014 04:10

Surrogates	REC (%)	Limits	
Dibromofluoromethane	96	70-130	08/29/2014 04:10
Toluene-d8	100	70-130	08/29/2014 04:10
4-BFB	92	70-130	08/29/2014 04:10

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408884
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/25/14 20:29	**Analytical Method:**	SW8260B
Date Prepared:	8/29/14-9/3/14	**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
B7-W	**1408884-007B**	**Water**	**08/22/2014 15:00**	**GC28**	**94591**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	50	5	09/03/2014 00:05
tert-Amyl methyl ether (TAME)	ND	2.5	5	09/03/2014 00:05
Benzene	**8.4**	2.5	5	09/03/2014 00:05
Bromobenzene	ND	2.5	5	09/03/2014 00:05
Bromochloromethane	ND	2.5	5	09/03/2014 00:05
Bromodichloromethane	ND	2.5	5	09/03/2014 00:05
Bromoform	ND	2.5	5	09/03/2014 00:05
Bromomethane	ND	2.5	5	09/03/2014 00:05
2-Butanone (MEK)	ND	10	5	09/03/2014 00:05
t-Butyl alcohol (TBA)	ND	10	5	09/03/2014 00:05
n-Butyl benzene	ND	2.5	5	09/03/2014 00:05
sec-Butyl benzene	**2.9**	2.5	5	09/03/2014 00:05
tert-Butyl benzene	ND	2.5	5	09/03/2014 00:05
Carbon Disulfide	ND	2.5	5	09/03/2014 00:05
Carbon Tetrachloride	ND	2.5	5	09/03/2014 00:05
Chlorobenzene	ND	2.5	5	09/03/2014 00:05
Chloroethane	ND	2.5	5	09/03/2014 00:05
Chloroform	ND	2.5	5	09/03/2014 00:05
Chloromethane	ND	2.5	5	09/03/2014 00:05
2-Chlorotoluene	ND	2.5	5	09/03/2014 00:05
4-Chlorotoluene	ND	2.5	5	09/03/2014 00:05
Dibromochloromethane	ND	2.5	5	09/03/2014 00:05
1,2-Dibromo-3-chloropropane	ND	1.0	5	09/03/2014 00:05
1,2-Dibromoethane (EDB)	ND	2.5	5	09/03/2014 00:05
Dibromomethane	ND	2.5	5	09/03/2014 00:05
1,2-Dichlorobenzene	ND	2.5	5	09/03/2014 00:05
1,3-Dichlorobenzene	ND	2.5	5	09/03/2014 00:05
1,4-Dichlorobenzene	ND	2.5	5	09/03/2014 00:05
Dichlorodifluoromethane	ND	2.5	5	09/03/2014 00:05
1,1-Dichloroethane	ND	2.5	5	09/03/2014 00:05
1,2-Dichloroethane (1,2-DCA)	ND	2.5	5	09/03/2014 00:05
1,1-Dichloroethene	ND	2.5	5	09/03/2014 00:05
cis-1,2-Dichloroethene	ND	2.5	5	09/03/2014 00:05
trans-1,2-Dichloroethene	ND	2.5	5	09/03/2014 00:05
1,2-Dichloropropane	ND	2.5	5	09/03/2014 00:05
1,3-Dichloropropane	ND	2.5	5	09/03/2014 00:05
2,2-Dichloropropane	ND	2.5	5	09/03/2014 00:05
1,1-Dichloropropene	ND	2.5	5	09/03/2014 00:05

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408884
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/25/14 20:29	**Analytical Method:**	SW8260B
Date Prepared:	8/29/14-9/3/14	**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
B7-W	**1408884-007B**	**Water**	**08/22/2014 15:00**	**GC28**	**94591**

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	2.5	5	09/03/2014 00:05
trans-1,3-Dichloropropene	ND	2.5	5	09/03/2014 00:05
Diisopropyl ether (DIPE)	ND	2.5	5	09/03/2014 00:05
Ethylbenzene	**30**	2.5	5	09/03/2014 00:05
Ethyl tert-butyl ether (ETBE)	ND	2.5	5	09/03/2014 00:05
Freon 113	ND	2.5	5	09/03/2014 00:05
Hexachlorobutadiene	ND	2.5	5	09/03/2014 00:05
Hexachloroethane	ND	2.5	5	09/03/2014 00:05
2-Hexanone	ND	2.5	5	09/03/2014 00:05
Isopropylbenzene	**25**	2.5	5	09/03/2014 00:05
4-Isopropyl toluene	ND	2.5	5	09/03/2014 00:05
Methyl-t-butyl ether (MTBE)	ND	2.5	5	09/03/2014 00:05
Methylene chloride	ND	2.5	5	09/03/2014 00:05
4-Methyl-2-pentanone (MIBK)	ND	2.5	5	09/03/2014 00:05
Naphthalene	**19**	2.5	5	09/03/2014 00:05
n-Propyl benzene	**58**	2.5	5	09/03/2014 00:05
Styrene	ND	2.5	5	09/03/2014 00:05
1,1,1,2-Tetrachloroethane	ND	2.5	5	09/03/2014 00:05
1,1,2,2-Tetrachloroethane	ND	2.5	5	09/03/2014 00:05
Tetrachloroethene	ND	2.5	5	09/03/2014 00:05
Toluene	ND	2.5	5	09/03/2014 00:05
1,2,3-Trichlorobenzene	ND	2.5	5	09/03/2014 00:05
1,2,4-Trichlorobenzene	ND	2.5	5	09/03/2014 00:05
1,1,1-Trichloroethane	ND	2.5	5	09/03/2014 00:05
1,1,2-Trichloroethane	ND	2.5	5	09/03/2014 00:05
Trichloroethene	ND	2.5	5	09/03/2014 00:05
Trichlorofluoromethane	ND	2.5	5	09/03/2014 00:05
1,2,3-Trichloropropane	ND	2.5	5	09/03/2014 00:05
1,2,4-Trimethylbenzene	**17**	2.5	5	09/03/2014 00:05
1,3,5-Trimethylbenzene	**4.3**	2.5	5	09/03/2014 00:05
Vinyl Chloride	ND	2.5	5	09/03/2014 00:05
Xylenes, Total	**7.1**	2.5	5	09/03/2014 00:05

Surrogates	REC (%)	Limits	Analytical Comments: b1
Dibromofluoromethane	101	70-130	09/03/2014 00:05
Toluene-d8	93	70-130	09/03/2014 00:05
4-BFB	90	70-130	09/03/2014 00:05

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408884
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/25/14 20:29	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	8/28/14-8/29/14	**Unit:**	µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B1-W	**1408884-001A**	**Water**	**08/22/2014 16:00**	**GC3**	**94576**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**170,000**	50,000	1000	08/28/2014 23:39
MTBE	---	5000	1000	08/28/2014 23:39
Benzene	---	500	1000	08/28/2014 23:39
Toluene	---	500	1000	08/28/2014 23:39
Ethylbenzene	---	500	1000	08/28/2014 23:39
Xylenes	---	500	1000	08/28/2014 23:39

Surrogates	REC (%)	Limits	Analytical Comments: d2,b6,b1	
aaa-TFT_2	99	70-130		08/28/2014 23:39

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B2-W	**1408884-002A**	**Water**	**08/22/2014 16:30**	**GC3**	**94576**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**870**	50	1	08/28/2014 08:48
MTBE	---	5.0	1	08/28/2014 08:48
Benzene	---	0.50	1	08/28/2014 08:48
Toluene	---	0.50	1	08/28/2014 08:48
Ethylbenzene	---	0.50	1	08/28/2014 08:48
Xylenes	---	0.50	1	08/28/2014 08:48

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: d1,c4,b1	
aaa-TFT_2	234	S	70-130		08/28/2014 08:48

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B3-W	**1408884-003A**	**Water**	**08/22/2014 16:15**	**GC3**	**94576**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**13,000**	500	10	08/28/2014 20:39
MTBE	---	200	10	08/28/2014 20:39
Benzene	---	5.0	10	08/28/2014 20:39
Toluene	---	5.0	10	08/28/2014 20:39
Ethylbenzene	---	5.0	10	08/28/2014 20:39
Xylenes	---	5.0	10	08/28/2014 20:39

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: d1,c4	
aaa-TFT_2	191	S	70-130		08/28/2014 20:39

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408884
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/25/14 20:29	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	8/28/14-8/29/14	**Unit:**	µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B4-W	**1408884-004A**	**Water**	**08/22/2014 11:45**	**GC3**	**94576**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**480**	50	1	08/28/2014 09:18
MTBE	---	5.0	1	08/28/2014 09:18
Benzene	---	0.50	1	08/28/2014 09:18
Toluene	---	0.50	1	08/28/2014 09:18
Ethylbenzene	---	0.50	1	08/28/2014 09:18
Xylenes	---	0.50	1	08/28/2014 09:18

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: d1,c4
aaa-TFT_2	163	S	70-130	08/28/2014 09:18

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B5-W	**1408884-005A**	**Water**	**08/22/2014 15:45**	**GC3**	**94618**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**1900**	50	1	08/28/2014 20:09
MTBE	---	5.0	1	08/28/2014 20:09
Benzene	---	0.50	1	08/28/2014 20:09
Toluene	---	0.50	1	08/28/2014 20:09
Ethylbenzene	---	0.50	1	08/28/2014 20:09
Xylenes	---	0.50	1	08/28/2014 20:09

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: d1,c4,b1
aaa-TFT_2	172	S	70-130	08/28/2014 20:09

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B6-W	**1408884-006A**	**Water**	**08/22/2014 15:15**	**GC3**	**94576**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**33,000**	2500	50	08/28/2014 08:19
MTBE	---	250	50	08/28/2014 08:19
Benzene	---	25	50	08/28/2014 08:19
Toluene	---	25	50	08/28/2014 08:19
Ethylbenzene	---	25	50	08/28/2014 08:19
Xylenes	---	25	50	08/28/2014 08:19

Surrogates	REC (%)	Limits	Analytical Comments: d1
aaa-TFT_2	116	70-130	08/28/2014 08:19

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408884
Project:	#0398; Auto Depot	**Extraction Method:**	SW5030B
Date Received:	8/25/14 20:29	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	8/28/14-8/29/14	**Unit:**	µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B7-W	**1408884-007A**	**Water**	**08/22/2014 15:00**	**GC3**	**94618**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**6100**	50	1	08/29/2014 00:38
MTBE	**---**	5.0	1	08/29/2014 00:38
Benzene	**---**	0.50	1	08/29/2014 00:38
Toluene	**---**	0.50	1	08/29/2014 00:38
Ethylbenzene	**---**	0.50	1	08/29/2014 00:38
Xylenes	**---**	0.50	1	08/29/2014 00:38

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: d1,c4,b1
aaa-TFT_2	780	S	70-130	08/29/2014 00:38

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408884
Project:	#0398; Auto Depot	**Extraction Method:**	SW3510C
Date Received:	8/25/14 20:29	**Analytical Method:**	SW8015B
Date Prepared:	8/25/14	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B1-W	**1408884-001A**	**Water**	**08/22/2014 16:00**	**GC11A**	**94444**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**1,600,000**	10,000	100	08/28/2014 08:17
TPH-Motor Oil (C18-C36)	**79,000**	50,000	100	08/28/2014 08:17

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: e4,e2,b6,c1,b1
C9	607	S	70-130	08/28/2014 08:17

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B2-W	**1408884-002A**	**Water**	**08/22/2014 16:30**	**GC11A**	**94444**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**810**	50	1	08/28/2014 00:18
TPH-Motor Oil (C18-C36)	**800**	250	1	08/28/2014 00:18

Surrogates	REC (%)	Limits	Analytical Comments: e4,e7,e2,b1
C9	108	70-130	08/28/2014 00:18

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B3-W	**1408884-003A**	**Water**	**08/22/2014 16:15**	**GC6A**	**94444**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**9100**	50	1	08/29/2014 15:10
TPH-Motor Oil (C18-C36)	**840**	250	1	08/29/2014 15:10

Surrogates	REC (%)	Limits	Analytical Comments: e4
C9	97	70-130	08/29/2014 15:10

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B4-W	**1408884-004A**	**Water**	**08/22/2014 11:45**	**GC6A**	**94444**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**63**	50	1	08/29/2014 06:18
TPH-Motor Oil (C18-C36)	ND	250	1	08/29/2014 06:18

Surrogates	REC (%)	Limits	Analytical Comments: e2
C9	80	70-130	08/29/2014 06:18

(Cont.)

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Analytical Report

Client:	P & D Environmental	**WorkOrder:**	1408884
Project:	#0398; Auto Depot	**Extraction Method:**	SW3510C
Date Received:	8/25/14 20:29	**Analytical Method:**	SW8015B
Date Prepared:	8/25/14	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B5-W	**1408884-005A**	**Water**	**08/22/2014 15:45**	**GC11A**	**94444**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**400**	100	1	08/28/2014 04:52
TPH-Motor Oil (C18-C36)	ND	500	1	08/28/2014 04:52

Surrogates	REC (%)	Limits	Analytical Comments: e4,a4,b1
C9	107	70-130	08/28/2014 04:52

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B6-W	**1408884-006A**	**Water**	**08/22/2014 15:15**	**GC11A**	**94444**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**3100**	50	1	08/28/2014 03:43
TPH-Motor Oil (C18-C36)	ND	250	1	08/28/2014 03:43

Surrogates	REC (%)	Limits	Analytical Comments: e4
C9	112	70-130	08/28/2014 03:43

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B7-W	**1408884-007A**	**Water**	**08/22/2014 15:00**	**GC11A**	**94444**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**4100**	50	1	08/27/2014 18:35
TPH-Motor Oil (C18-C36)	ND	250	1	08/27/2014 18:35

Surrogates	REC (%)	Limits	Analytical Comments: e4,b1
C9	118	70-130	08/27/2014 18:35

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1408884
Date Prepared:	8/28/14	**BatchID:**	94591
Date Analyzed:	8/28/14	**Extraction Method:**	SW5030B
Instrument:	GC18	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	#0398; Auto Depot	**Sample ID:**	MB/LCS-94591 1408964-003BMS/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	10.6	0.50	10	-	106	64-120
Benzene	ND	9.83	0.50	10	-	98.3	73-123
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	33.4	2.0	40	-	83.5	29-146
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	10.0	0.50	10	-	101	77-116
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	9.88	0.50	10	-	98.8	88-111
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	10.1	0.50	10	-	101	37-150
1,1-Dichloroethene	ND	9.98	0.50	10	-	99.8	37-153
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	-	-	-	-

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1408884
Date Prepared:	8/28/14	**BatchID:**	94591
Date Analyzed:	8/28/14	**Extraction Method:**	SW5030B
Instrument:	GC18	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	#0398; Auto Depot	**Sample ID:**	MB/LCS-94591 1408964-003BMS/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	10.3	0.50	10	-	103	62-125
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	10.5	0.50	10	-	105	63-126
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	10.2	0.50	10	-	102	56-126
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	9.98	0.50	10	-	99.8	78-114
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	10.2	0.50	10	-	103	67-133
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	23.9	24.7		25	96	99	77-120
Toluene-d8	25.8	24.1		25	103	96	78-118
4-BFB	2.24	2.43		2.5	90	97	63-129

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1408884
Date Prepared:	8/28/14	**BatchID:**	94591
Date Analyzed:	8/28/14	**Extraction Method:**	SW5030B
Instrument:	GC18	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	#0398; Auto Depot	**Sample ID:**	MB/LCS-94591 1408964-003BMS/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)	14.4	11.8	10	ND	144,F1	118	70-130	20.0	20
Benzene	10.1	8.92	10	ND	101	89.2	70-130	12.3	20
t-Butyl alcohol (TBA)	75.6	50.8	40	ND	189,F1	127	70-130	39.2,F1	20
Chlorobenzene	10.0	8.70	10	ND	100	87	70-130	14.1	20
1,2-Dibromoethane (EDB)	12.1	9.94	10	ND	121	99.4	70-130	19.4	20
1,2-Dichloroethane (1,2-DCA)	12.8	10.8	10	ND	128	108	70-130	17.2	20
1,1-Dichloroethene	9.98	9.00	10	ND	99.8	90	70-130	10.4	20
Diisopropyl ether (DIPE)	12.4	10.6	10	ND	124	105	70-130	16.2	20
Ethyl tert-butyl ether (ETBE)	13.9	11.6	10	ND	139,F1	116	70-130	18.1	20
Methyl-t-butyl ether (MTBE)	14.7	11.8	10	ND	147,F1	118	70-130	22.2,F1	20
Toluene	9.62	8.54	10	ND	96.2	85.4	70-130	11.9	20
Trichloroethene	10.5	9.37	10	ND	105	93.7	70-130	11.3	20
Surrogate Recovery									
Dibromofluoromethane	25.4	25.3	25		102	101	70-130	0.552	20
Toluene-d8	23.3	23.3	25		93	93	70-130	0	20
4-BFB	2.26	2.27	2.5		90	91	70-130	0.468	20

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1408884
Date Prepared:	8/28/14	**BatchID:**	94576
Date Analyzed:	8/27/14 - 8/28/14	**Extraction Method:**	SW5030B
Instrument:	GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Water	**Unit:**	µg/L
Project:	#0398; Auto Depot	**Sample ID:**	MB/LCS-94576 1408884-001AMS/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	70.9	40	60	-	118	70-130
MTBE	ND	11.1	5.0	10	-	111	70-130
Benzene	ND	10.4	0.50	10	-	104	70-130
Toluene	ND	10.4	0.50	10	-	104	70-130
Ethylbenzene	ND	10.6	0.50	10	-	106	70-130
Xylenes	ND	32.0	0.50	30	-	107	70-130
Surrogate Recovery							
aaa-TFT_2	10.6	9.36		10	106	94	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<40000	NR	NR	-	NR	
MTBE	NR	NR	0	ND<5000	NR	NR	-	NR	
Benzene	NR	NR	0	ND<500	NR	NR	-	NR	
Toluene	NR	NR	0	2700	NR	NR	-	NR	
Ethylbenzene	NR	NR	0	2000	NR	NR	-	NR	
Xylenes	NR	NR	0	16000	NR	NR	-	NR	
Surrogate Recovery									
aaa-TFT_2	NR	NR	0		NR	NR	-	NR	

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1408884
Date Prepared:	8/28/14	**BatchID:**	94618
Date Analyzed:	8/28/14	**Extraction Method:**	SW5030B
Instrument:	GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Water	**Unit:**	µg/L
Project:	#0398; Auto Depot	**Sample ID:**	MB/LCS-94618 1408885-008AMS/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	70.8	40	60	-	118	70-130
MTBE	ND	11.6	5.0	10	-	116	70-130
Benzene	ND	11.4	0.50	10	-	114	70-130
Toluene	ND	11.4	0.50	10	-	114	70-130
Ethylbenzene	ND	11.4	0.50	10	-	114	70-130
Xylenes	ND	34.5	0.50	30	-	115	70-130
Surrogate Recovery							
aaa-TFT_2	10.0	10.1		10	100	101	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	63.4	62.0	60	ND	106	103	70-130	2.09	20
MTBE	9.05	9.26	10	ND	90.5	92.6	70-130	2.27	20
Benzene	9.55	9.94	10	ND	95.5	99.4	70-130	4.00	20
Toluene	9.65	9.98	10	ND	96.5	99.8	70-130	3.36	20
Ethylbenzene	9.80	9.95	10	ND	98	99.5	70-130	1.52	20
Xylenes	29.5	30.1	30	ND	98.4	100	70-130	1.85	20
Surrogate Recovery									
aaa-TFT_2	9.75	9.93	10		98	99	70-130	1.80	20

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Quality Control Report

Client:	P & D Environmental	**WorkOrder:**	1408884
Date Prepared:	8/25/14	**BatchID:**	94444
Date Analyzed:	8/26/14	**Extraction Method:**	SW3510C
Instrument:	GC9b	**Analytical Method:**	SW8015B
Matrix:	Water	**Unit:**	µg/L
Project:	#0398; Auto Depot	**Sample ID:**	MB/LCS-94444

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	1170	50	1000	-	117	70-130
Surrogate Recovery							
C9	656	652		625	105	104	70-130

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1408884 **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: #0398; Auto Depot

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

Requested TAT: 5 days

Date Received: **08/25/2014**
Date Printed: **08/25/2014**

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
1408884-001	B1-W	Water	8/22/2014 16:00	☐	B	A										
1408884-002	B2-W	Water	8/22/2014 16:30	☐	B	A										
1408884-003	B3-W	Water	8/22/2014 16:15	☐	B	A										
1408884-004	B4-W	Water	8/22/2014 11:45	☐	B	A										
1408884-005	B5-W	Water	8/22/2014 15:45	☐	B	A										
1408884-006	B6-W	Water	8/22/2014 15:15	☐	B	A										
1408884-007	B7-W	Water	8/22/2014 15:00	☐	B	A										

Test Legend:

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

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A contain testgroup.

Prepared by: Jena Alfaro

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: #0398; Auto Depot
Comments:

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

Work Order: 1408884
Date Received: 8/25/2014

☐ 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
1408884-001A	B1-W	Water	Multi-Range TPH(g,d,mo)	4	VOA w/ HCl	☐	8/22/2014 16:00	5 days	3%+	☐	
1408884-001B	B1-W	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	8/22/2014 16:00	5 days	3%+	☐	
1408884-002A	B2-W	Water	Multi-Range TPH(g,d,mo)	4	VOA w/ HCl	☐	8/22/2014 16:30	5 days	2%+	☐	
1408884-002B	B2-W	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	8/22/2014 16:30	5 days	2%+	☐	
1408884-003A	B3-W	Water	Multi-Range TPH(g,d,mo)	4	VOA w/ HCl	☐	8/22/2014 16:15	5 days	Present	☐	
1408884-003B	B3-W	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	8/22/2014 16:15	5 days	Present	☐	
1408884-004A	B4-W	Water	Multi-Range TPH(g,d,mo)	3	VOA w/ HCl	☐	8/22/2014 11:45	5 days	Present	☐	
1408884-004B	B4-W	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	8/22/2014 11:45	5 days	Present	☐	
1408884-005A	B5-W	Water	Multi-Range TPH(g,d,mo)	4	VOA w/ HCl	☐	8/22/2014 15:45	5 days	10%+	☐	
1408884-005B	B5-W	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	8/22/2014 15:45	5 days	10%+	☐	
1408884-006A	B6-W	Water	Multi-Range TPH(g,d,mo)	4	VOA w/ HCl	☐	8/22/2014 15:15	5 days	Present	☐	
1408884-006B	B6-W	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	8/22/2014 15:15	5 days	Present	☐	
1408884-007A	B7-W	Water	Multi-Range TPH(g,d,mo)	4	VOA w/ HCl	☐	8/22/2014 15:00	5 days	3%+	☐	
1408884-007B	B7-W	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	8/22/2014 15:00	5 days	3%+	☐	

*** 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

CHAIN OF CUSTODY RECORD

1408884

PAGE 1 OF 1

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

PROJECT NUMBER: 0398

PROJECT NAME: AUTO DEPOT 4171 BROADWAY OAKLAND, CA

SAMPLED BY: (PRINTED & SIGNATURE) MICHAEL BASS-DESCHENES

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	ANALYSIS(ES): TPH-MULTI RANGE (GAS) M0	EPA 8260B	PRESERVATIVE	REMARKS
B1-W	8/22/14	1600	H20		6	X	X	ICE	NORMAL TAT
B2-W	8/22/14	1630			6	X	X		
B3-W	8/22/14	1615			6	X	X		
B4-W	8/23/14	1145			5	X	X		
B5-W	8/22/14	1545			6	X	X		
B6-W	8/22/14	1515			6	X	X		
B7-W	8/22/14	1500			6	X	X		

ICE / t° 5C
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB
SERVATION | VOAS | O&G | METALS | OTHER

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	Total No. of Samples (This Shipment): 7	LABORATORY: MC CAMPBELL ANALYTICAL INC
RELINQUISHED BY: (SIGNATURE)	8/25/14	1430	RECEIVED BY: (SIGNATURE)	Total No. of Containers (This Shipment): 48	LABORATORY CONTACT: ANGELA RYDELIUS
RELINQUISHED BY: (SIGNATURE)	8/25/14	1830	RECEIVED FOR LABORATORY BY: (SIGNATURE)		LABORATORY PHONE NUMBER: (877) 252-9262
	DATE	TIME			SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES (X) NO

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

REMARKS: ALL VOAs PRESERVED WITH HCL

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

Sample Receipt Checklist

Client Name: **P & D Environmental**
Date and Time Received: **8/25/2014 8:29:40 PM**

Project Name: **#0398; Auto Depot**
LogIn Reviewed by: Jena Alfaro

WorkOrder №: **1408884** 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: 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: WET ICE)		
Total Chlorine present (EPA 522)?	Yes ☐	No ☐	NA ☑

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

Comments: