

Xtra OIL COMPANY

2307 PACIFIC AVENUE
ALAMEDA, CA 94501
(510) 865-9503 FAX (510) 865-1889

December 12, 2016

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

RECEIVED

By Alameda County Environmental Health 12:53 pm, Dec 15, 2016

SUBJECT: SUBSURFACE INVESTIGATION REPORT CERTIFICATION
(B4A, B8 THROUGH B10, B10A, B11 THROUGH B15, AND SG1)
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 December 12, 2016 (document 0398.R2).

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.L7

P&D ENVIRONMENTAL, INC.

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

December 12, 2016
Report 0398.R2

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

SUBJECT: SUBSURFACE INVESTIGATION REPORT
(B4A, B8 THROUGH B10, B10A, B11 THROUGH B15, AND SG1)
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 the further investigation of the presence and extent of subsurface petroleum hydrocarbons at the subject site. The work scope included drilling at nine locations (boreholes B4A and B8 through B15) for soil and groundwater grab sample collection, and construction and sampling of one soil gas well to a depth of 7 feet below the ground surface (bgs) for soil gas sample collection. This work was performed in accordance with P&D's Subsurface Investigation Work Plan (document 0398.W2) dated May 22, 2015. The work plan was approved in an email from Ms. Karel Detterman of the Alameda County Department of Environmental Health (ACDEH) dated May 29, 2015. A Site Location Map (Figure 1) and a Site Map (Figure 2) showing sample collection locations are attached with this report.

Soil and groundwater samples were collected on June 2 and 3, 2015 and soil gas samples were collected on June 22, 2015 and July 7, 2015. 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 (document 0398.W1).

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.

On August 19, 2014 IMX personnel hand augered 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 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 results for the former fill port and former dispenser soil samples are summarized in Table 1, and the locations of the hand augered boreholes are shown on Figure 2.

On August 22, 2014 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 historical soil sample results associated with the 2014 investigation of the fill ports and dispenser islands are summarized in Table 1, and historical soil and groundwater analytical

results associated with the drilling of boreholes B1 through B7 in 2014 are summarized in Table 2 and Table 4, respectively.

Based on the measured presence of free product in borehole B1 in the former diesel UST pit, and based on the sample results, P&D recommended further subsurface investigation of the extent of petroleum at the site. Discussion of former fill port, fuel dispenser, and drilling activities and results for boreholes B1 through B7 is provided in P&D's Subsurface Investigation Report (document 0398.R1) dated September 30, 2014.

P&D's Subsurface Investigation Work Plan (document 0398.W2) dated May 22, 2015 proposed boreholes for subsurface evaluation as follows:

- Drilling of borehole B4A adjacent to historical borehole B4 and the former waste oil UST pit to collect soil samples at depths of 4 feet and 9 feet bgs and one groundwater grab sample.
- Drilling of boreholes B8 through B11 at locations surrounding 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 historical 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 historical boreholes B7 and B3, and to determine if there is evidence of offsite petroleum-impacted groundwater migration at each of the proposed locations.

The P&D May 22, 2015 work plan also proposed evaluation of the presence of petroleum soil vapor concentrations in soil gas at the site by constructing one soil gas well to a depth of 7.0 feet bgs at location SG1. The May 29, 2015 ACDEH work plan approval requested that soil samples also be collected from the boreholes.

The Downtown Toyota facility located at 4145 Broadway in Oakland borders the subject site on the west and south (see Figures 2 through 6). Aerial photographs of the Downtown Toyota facility show that there is car parking on the roof of the Downtown Toyota building. Subsurface investigation of a petroleum release at the Downtown Toyota facility was performed under the direction of the ACDEH (case number RO 509) and the case was closed by the ACDEH on September 24, 2014. The Downtown Toyota site investigation identified a petroleum release at the Downtown Toyota property at a location adjacent to Broadway approximately 50 feet to the southwest of the subject site. Figures showing the extent of the petroleum release at the Downtown Toyota property are attached with this report as Figures 3 through 5. Review of the

figures shows that the extent of petroleum hydrocarbons at the Downtown Toyota site was defined to the northeast between the Downtown Toyota release and the subject site.

FIELD ACTIVITIES

Prior to performing field activities, drilling permit W2015-0457 and W2015-0458 was obtained from the Alameda County Public Works Agency (ACPWA), 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.

Drilling Observation and Sample Collection

On June 2 and 3, 2015 P&D personnel oversaw drilling at locations B4A, B8 through B10, B10A, and B11 through B15 (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 B4A, B8 through B10, B10A, and B11 through B15 to total depths of 24.0, 20.0, 20.0, 12.0, 20.0, 20.0, 22.0, 20.0, 17.0 and 22.0 feet bgs, respectively. Based on the interpreted presence in borehole B10 of perched water associated with the adjacent former diesel UST pit, borehole B10A was drilled at a distance of 5 feet farther from the former diesel UST pit than borehole B10.

The soil from the continuously cored boreholes was logged in the field in accordance with the Unified Soil Classification System (USCS) and standard geologic field techniques, and was field screened with a PID equipped with a 10.6 eV bulb that was 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 strong petroleum hydrocarbon odors, staining, and discoloration were observed in the soil from continuously cored borehole B4A, B8 through B10, B10A, and B11 through B15 as follows:

- B4A: Discoloration was observed from 4.0 to 9.5 feet bgs and strong petroleum odors with associated PID values of 23.2 to 304 ppm were encountered between the depths of 4.0 and 10.0 feet bgs.
- B8: Discoloration was observed and strong petroleum odors with associated PID values of 2.0 to 332 ppm were encountered between the depths of 9.0 to 10.5 feet bgs.
- B9: Discoloration was observed and strong petroleum odors with associated PID values of 72 to 241 ppm were encountered between the depths of 7.0 to 8.0 feet bgs.
- B10: Discoloration was observed and strong petroleum odors with associated PID values of 21 to 620 ppm were encountered between the depths of 4.5 to 12.0 feet bgs.
- B10A: Discoloration was observed and strong petroleum odors with associated PID values of 7 to 481 ppm were encountered between the depths of 4.5 to 12.0 feet bgs.
- B11: Discoloration was observed and strong petroleum odors with associated PID values of 0 to 338 ppm were encountered between the depths of 8.0 to 11.5 feet bgs.
- B12: Discoloration was observed and strong petroleum odors with associated PID values of 85 to 131 ppm were encountered between the depths of 5.5 to 7.5 feet bgs.

- B13: Discoloration was observed and strong petroleum odors with associated PID values of 119 to 426 ppm were encountered between the depths of 8.0 to 9.0 feet bgs.
- B14: Discoloration was observed and strong petroleum odors with associated PID values of 174 to 774 ppm were encountered between the depths of 8.0 to 13.0 feet bgs.
- B15: Discoloration was observed and strong petroleum odors with associated PID values of 63 to 139 ppm were encountered between the depths of 8.0 to 10.5 feet bgs.

In boreholes B4A, B8 through B10, B10A, and B11 through B15 soil samples were retained for laboratory analysis at depths of 4.0 and 9.0 feet bgs, above the water table, and at the center of any areas of contamination. 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.

Groundwater was not encountered during drilling in continuously cored borehole B4 to a depth of 24.0 feet bgs on June 2, 2015. 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 June 2, 2015. On June 3, 2015 groundwater was measured in borehole B4 at the beginning of the day at a depth of 22.0 feet bgs.

Groundwater was encountered during drilling in continuously cored borehole B8 through B10, B10A, and B11 through B15 at a depth of at depths of 19.5, 19.5, 11.0, 19.5, 19.5, 20.0, 19.5, 16.5 and 21.5 feet bgs, respectively, during drilling on June 2 and 3, 2015. After completion of drilling and following placement of temporary slotted 1-inch diameter PVC pipe into all of the continuously cored boreholes, groundwater levels were subsequently measured in boreholes B8 through B10, B10A, and B11 through B15 at depths of 9.6, 12.9, 7.7, 10.6, 9.5, 6.5, 10.5, 8.9, and 13.5 feet bgs, respectively. Copies of the boring logs for the continuously cored boreholes are attached with this report as Appendix A.

On June 3, 2015 boreholes B8, B9, B10, B10A and B11 were evaluated for the presence of free product using a steel tape and product-finding paste. No measureable thickness of free product was observed in boreholes B8, B9, B10, B10A, and B11, however moderate petroleum odor and slight sheen were detected during groundwater sample collection at borehole B10. No petroleum odor or sheen was observed during groundwater sample collection from any other borehole besides B10.

One groundwater sample was collected from each of boreholes B4A, B8, B9, and B12 through B15 on the day that the borehole was drilled with the exception of borehole B4A where water did not enter the borehole on the day that the borehole was drilled and a water sample was collected the morning following the day of drilling of borehole B4A. All of the groundwater samples were collected using a peristaltic pump with new polyethylene tubing and silicone tubing for each borehole. Approximately 0.2 gallons was purged from each borehole prior to sample collection with the exception of borehole B4A, where groundwater was not purged prior to groundwater sample collection due to a lack of significant recharge overnight. Each groundwater sample was transferred to 40-milliliter Volatile Organic Analysis (VOA) vials and 40-milliliter amber unpreserved 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. The sample bottles were then labeled and placed in a cooler with ice pending delivery to the laboratory. Chain of custody procedures were observed for all sample handling.

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 a PVC pipe as a tremie pipe on June 3, 2015. All soil generated during subsurface investigation was stored at the site in a labeled 55-gallon drum pending characterization and proper disposal.

Soil Gas Well Installation and Sample Collection

On June 3, 2015 an initial effort to install permanent soil gas wells SG1 (see Figure 2) was made by Vironex by hand augering to a depth of 4.0 feet bgs where augering refusal was encountered on a sewer pipe. On June 4, 2015 the borehole was relocated approximately 5 feet to the east of the proposed location and permanent soil gas well SG1 was constructed using a 6.0-inch diameter hand auger to a depth of 7.0 feet bgs. The soil from the hand augered borehole was logged in the field in accordance with the USCS and standard geologic field techniques, and was field screened with a PID as described above. Elevated PID values were measured and strong petroleum hydrocarbon odors, staining, and discoloration were observed in the soil from hand augered borehole SG1 as follows:

- SG1: Discoloration was observed from 3.5 to 4.0 and 6.5 feet bgs to the total depth explored of 7.0 feet bgs and strong petroleum odors with associated PID values of 237 to 467 ppm were encountered between the depths of feet bgs to the total depth explored of 7.0 feet bgs.

A copy of the boring log for hand augered borehole SG1 is attached with this report as Appendix A.

Following the completion of hand augering to a depth of 7.0 feet bgs, the soil gas well was constructed by adding #2/16 Lonestar sack sand to the borehole to fill the lowermost one foot of the borehole with sand. A 0.250-inch outside diameter (0.187-inch inside diameter) Teflon tube with a High Density Polyethylene (HDPE) filter at the bottom of the tube was inserted to the top of the sand (a depth of one foot above the bottom of the borehole), and additional #2/16 Lonestar sack sand was added to the annular space to two feet above the bottom of the borehole so that the lowermost two feet of the borehole was filled with sand and the HDPE filter at the end of the tube was located in the center of the sand interval. The remaining borehole was filled with hydrated bentonite slurry to approximately 0.5 feet below the ground surface. The tubing length was 8 feet, resulting in approximately 2.5 feet of tubing exposed at the top of the bentonite borehole annular space seal. The top of the soil gas well was enclosed in a well box with a lid that was secured with bolts. Following construction, the soil gas well was not sampled for a minimum of 48 hours.

Soil gas well SG1 was sampled on June 22, 2015 and July 7, 2015 using procedures described below. No precipitation occurred during the five days prior to the soil gas sample collection dates.

During each sampling event a soil gas sampling manifold with a 1-liter Summa canister as the sampling canister for the sampling location (see Figure 8) was assembled in a shroud consisting of a transparent 35-gallon Rubbermaid bin with a lid. A hole measuring approximately two inches square in the bottom of the shroud allowed the shroud to cover the soil gas well while still allowing access to the sampling location through the bottom of the shroud. At the time that the sampling manifold was assembled, the vacuum for the sample canister was verified with a vacuum gauge and recorded.

Prior to sampling soil gas well SG1, a 10 minute shut-in test of the sampling manifold was performed by closing the valve located between the filter and the pressure gauge, opening the purge canister valve, and recording the manifold system vacuum (see Figure 8). Following successful verification of the manifold shut-in test, a default volume of 200 cubic centimeters (cc) plus the tubing volume was purged prior to soil gas sample collection. The purge volume was determined based on California Department of Toxic Substance Control (DTSC) guidance for low flow soil gas sampling conditions. The sample purge time was calculated using a nominal flow rate provided by the flow controller of 150 cc per minute. A copy of the purge volume calculation sheet is attached with this report as Appendix B.

Following the completion of purging prior to sampling, a lid was placed onto the shroud and a tracer gas 1,1-Difluoroethane (DFA) was sprayed into the shroud interior for one second through a tube connected to a hole in the side of the shroud. Gloves in the lid of the shroud were used to open the Summa sample canister valve. During Summa canister sample collection an air sample was collected from the shroud atmosphere to quantify the shroud tracer gas concentration while the soil gas sample was being collected. The shroud atmosphere sample was collected into a Tedlar bag that was placed into a vacuum chamber with the Tedlar bag inlet connected to a new piece of polyethylene tubing that was inserted into the shroud atmosphere through a hole in the side of the shroud.

One duplicate soil gas sample was collected into a Summa canister at locations SG1 using a stainless steel sampling tee for the Summa canisters using methods described above. Following the completion of soil gas sample collection the soil gas Summa canister samples were stored in a box and promptly shipped to the laboratory for extraction and analysis.

In addition to collection of Summa canister samples as described above, sorbent tube samples were collected at location SG1 on June 22, 2015 as follows. The sampling manifold was equipped with a tee located downstream from the flow controller. At the time that the manifold was assembled (prior to the shut-in test) a sorbent tube was connected inside the shroud to the tee located downstream from the flow controller, with a valve located between the sorbent tube and the tee. The downstream side of the sorbent tube was connected with a polyethylene tube to a flow meter and a vacuum pump. Following Summa canister sample collection, a dish containing 2-Propanol was placed in the shroud for use as a tracer gas for EPA Method TO-17 sample analysis. The Summa canister was then isolated from the manifold with a valve, and the valve between the manifold and the sorbent tube was opened. A vacuum pump was used to apply a vacuum to the sorbent tube and a flow meter was used to measure the soil gas flow rate at a nominal flow rate of 150 cubic centimeters per minute for collection of a 100 cubic centimeter sample. In addition, one replicate sorbent tube sample was collected using methods described above. Following collection of each sorbent tube soil gas sample the ends of each

sorbent tube were sealed. Before and after connection of the sorbent tube to the manifold each sorbent tube was stored in a cooler with ice. Following completion of soil gas sample collection, a PID was connected to the Teflon tubing to obtain a preliminary field value for the sample collection location.

Chain of custody procedures were observed for all sample handling. Clean, unused vacuum gages and stainless steel sampling manifolds were used at each sample collection event. Measurements of vacuums, purging and equilibration time intervals, and PID readings were recorded on Soil Gas Sampling Data Sheets that are attached with this report as Appendix B.

Drum Disposal

On June 16, 2015 one 55-gallon drum of soil and one 5-gallon bucket of decontamination water were removed from the site as non-hazardous waste by Big Sky Enterprises (Big Sky) of Benicia, California for disposal at the Potrero Hills landfill in Suisun City, California using non-hazardous waste manifest 061615. A copy of the non-hazardous waste manifest is attached with this report as Appendix C.

WEATHER

Weather data, including precipitation and barometric pressure for each of the days of soil gas sample collection (June 22 and July 7, 2015) are provided in Appendix D. In addition, weather data for the period beginning two weeks preceding the initial sampling event and extending to one week after the second sampling event are also provided in Appendix D.

The weather station is located on the east side of View Street immediately north of the intersection of View Street and Mather Street at an elevation of 176 feet above sea level, approximately 1,660 feet to the west-northwest of the subject site. The subject site is located at an elevation of approximately 103 feet above sea level. An internet link to the weather station information is provided in Appendix D.

Review of the available weather data shows that:

- No precipitation occurred during the week preceding or on the soil gas sampling date of June 22, 2015.
- Approximately 0.01 inches of precipitation occurred during the 5 days preceding the July 7, 2015 soil gas sampling episode.
- Approximately 0.12 inches of precipitation occurred during the week following the July 7, 2015 soil gas sampling episode.

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.

Beneath the surface cover material in boreholes B4A, B8 through B10, B10A, and B11 through B15 the subsurface materials consisted almost entirely of clay, silty clay, or sandy clay to the total depths explored of 24.0, 20.0, 20.0, 12.0, 20.0, 20.0, 22.0, 20.0, 17.0 and 22.0 feet bgs, respectively, with coarse-grained material encountered in the boreholes as follows.

- B4A: None.
- B8: Gravelly clayey sand between the depths of 8.5 to 11.5 feet bgs and silty fine sand between the depths of 19.8 and the total depth explored in the borehole of 20.0 feet bgs.
- B9: Silty fine sand between the depths of 8.0 to 12.0 and 19.5 and the total depth explored in the borehole of 20.0 feet bgs.
- B10: Gravelly clayey sand between the depths of 11.0 and the total depth explored in the borehole of 12.0 feet bgs.
- B10A: Gravelly clayey sand between the depths of 10.5 to 12.0 feet bgs and silty fine sand between the depths of 19.5 and the total depth explored in the borehole of 20.0 feet bgs.
- B11: Silty fine sand between the depths of 11.5 to 12.5 and 19.5 and the total depth explored in the borehole of 20.0 feet bgs.
- B12: Clayey fine sand between the depths of 20.0 to 21.0 feet bgs.
- B13: Silty fine sand between the depths of 8.0 to 14.0 and 19.5 and the total depth explored in the borehole of 20.0 feet bgs.
- B14: Gravelly clayey sand between the depths of 12.5 to 14.0 feet bgs and silty fine sand between the depths of 16.5 and the total depth explored in the borehole of 17.0 feet bgs.
- B15: Gravelly clayey sand between the depths of 8.0 to 8.5 feet bgs and silty fine sand between the depths of 21.5 and the total depth explored in the borehole of 22.0 feet bgs.

Groundwater was not encountered during drilling in continuously cored borehole B4 to a depth of 24.0 feet bgs on June 2, 2015. 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 June 2, 2015. On June 3, 2015 groundwater was measured in borehole B4 at the beginning of the day at a depth of 22.0 feet bgs.

Groundwater was encountered during drilling in continuously cored borehole B8 through B10, B10A, and B11 through B15 at a depth of at depths of 19.5, 19.5, 11.0, 19.5, 19.5, 20.0, 19.5, 16.5 and 21.5 feet bgs, respectively, during drilling on June 2 and 3, 2015. After completion of drilling and following placement of temporary slotted 1-inch diameter PVC pipe into all of the continuously cored boreholes, groundwater levels were subsequently measured in boreholes B8 through B10, B10A, and B11 through B15 at depths of 9.6, 12.9, 7.7, 10.6, 9.5, 6.5, 10.5, 8.9, and 13.5 feet bgs, respectively. Based on the interpreted presence in borehole B10 of perched water associated with the adjacent former diesel UST pit, borehole B10A was drilled at a distance of 5 feet farther from the former diesel UST pit than borehole B10.

No groundwater monitoring wells are present at the site to provide historical groundwater level measurements or groundwater flow direction. 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 located approximately 7,200 feet to the south of the subject site.

Review of Figure 1 shows that the south end of a southwesterly trending interfluvial ridge is located immediately to the east of the subject site. The interfluvial ridge is interpreted to prevent the easterly flow of groundwater and to result in a southwesterly groundwater flow at and near the subject site. Review of Figures 3 through 5 showing the extent of the petroleum release at the subject site and also at the adjacent Downtown Toyota property shows that the petroleum distribution in groundwater is consistent with a southwesterly groundwater flow direction at and near the subject site.

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 the following constituents:

- TPH-G using EPA Method 5030B in conjunction with modified EPA Method 8015B.
- TPH-D and TPH-MO using EPA Method 3550B in conjunction with EPA Method 8015B.
- 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.

Additionally, the soil samples collected from borehole B4A were also analyzed for semi-volatile organic compounds (SVOCs) using EPA Method 8270C.

All of the groundwater samples were analyzed for the following constituents:

- TPH-G using EPA Method 5030B in conjunction with modified EPA Method 8015B
- TPH-D and TPH-MO using EPA Method 3510C in conjunction with EPA Method 8015B.
- VOCs (including MBTEX and fuel oxygenates and lead scavengers) using EPA Method 8260B.

Additionally, the groundwater sample collected from borehole B4A was also analyzed for SVOCs using EPA Method 8270C.

Soil gas sample SG1 and duplicate soil gas sample SG1-DUP were analyzed at Eurofins Air Toxics, Inc. (Air Toxics) of Folsom, California. The samples collected in Summa canisters were analyzed for TPH-G, BTEX, MTBE, and DFA (the tracer gas) using EPA Method TO-15, and for oxygen, methane and carbon dioxide using method ASTM D-1946. The sample collected on a sorbent tube was analyzed for TPH-D, naphthalene, and 2-Propanol (the tracer gas) using EPA

Method TO-17. All of the shroud air Tedlar bag samples that were collected during soil gas sample collection with Summa canisters were analyzed for the tracer gas DFA using EPA Method TO-15. All of the shroud air Tedlar bag samples that were collected during soil gas sorbent tube sample collection were analyzed for the tracer gas 2-Propanol using EPA Method TO-15.

Based on matrix interference encountered in the sorbent tube sample analysis, the replicate sorbent tube sample was not analyzed. The laboratory identified the sorbent tube sample chromatogram associated with the matrix interference as not resembling TPH-D and resembling the lighter fraction of TPH-D-range compounds.

The current investigation borehole soil sample results are summarized in Table 3, the current investigation borehole groundwater results are summarized in Table 5, and the soil gas sample results are summarized in Tables 6A, 6B, and 6C. Copies of the laboratory analytical reports are attached with this report as Appendix D.

RISK AND HAZARD ANALYSIS

Risk analysis is the evaluation of predicted increased incidence of cancer resulting from exposure to Chemicals of Potential Concern (COPCs), and is reported for each COPC as the incremental carcinogenic risk. Hazard analysis is the evaluation of predicted increased non-cancer adverse health effects resulting from exposure to COPCs, and is reported for each COPC as the hazard quotient. The predicted vapor intrusion incremental carcinogenic risk was calculated for all detected carcinogens and the hazard quotient was calculated for each detected compound for each of the soil gas samples using a California-specific screening-level spreadsheet version of the Johnson & Ettinger vapor intrusion model for soil gas developed by the DTSC. The DTSC most recently updated the vapor intrusion model spreadsheet in December 2014.

Spreadsheet default exposure values for a commercial exposure scenario were used for evaluation of the soil gas samples collected at location SG1 adjacent to the commercial property that is located to the north and west of the subject site (see Figure 2) using a soil type of silty clay (SIC) and a soil gas sampling depth of 6.0 feet (182.88 centimeters (cm) as follows:

- exposure time of 8 hours per day,
- exposure frequency of 250 days per year, exposure duration for 25 years,
- averaging time for carcinogens of 70 years,
- averaging time for non-carcinogens of 25 years, and
- air exchange rate of 1.0 air exchange per hour.

In addition, cumulative incremental carcinogenic risk (the total of the risks posed by all of the COPCs in a sample when all of the individual COPC risks are added together) and hazard indices (the total of the hazards posed by all of the COPCs in a sample when all of the individual COPC hazards are added together) were calculated for all detected compounds for each sample.

DTSC Unit Risk Factors for carcinogenic toxicity for each carcinogenic COPC and Reference Concentrations for non-carcinogenic toxicity for all detected COPCs (with the exceptions of TPH-G and TPH-D) were obtained from the DTSC Human and Ecological Risk Division Soil Gas Screening Model VLOOKUP Table (last updated December 2014). Although the laboratory

reported xylene results as o-xylene and m,p-xylene, the Reference Concentration for each of o-, m-, and p-xylene is $100 \mu\text{g}/\text{m}^3$, and the combined m,p-xylene Reference Concentration identified in the calculation spreadsheet is for p-xylene. TPH-G and TPH-D are not considered to be carcinogens, and for this reason there is no Unit Risk Factor for TPH-G or TPH-D.

The TPH-G Reference Concentration used for hazard evaluation was obtained from the RWQCB February 2016 (Revision 3) Table IP-2 Toxicity Values. The TPH-G physical-chemical values used in the DTSC groundwater vapor intrusion screening-level model were obtained as follows:

- RWQCB February 2016 (Revision 3) Table IP-1 Physical-Chemical Values were used to identify organic carbon partition coefficient (cm^3/g); diffusivity in air (cm^2/s); diffusivity in water (cm^2/s); pure component solubility (mg/L); molecular weight (grams/mole); and Henry's Law Constant H ($\text{atm}\cdot\text{m}^3/\text{mol}$).
- DTSC June 16, 2009 Interim Guidance – Evaluating Human Health Risks from Total Petroleum Hydrocarbons (TPH) for normal boiling point (degrees K), critical temperature (degrees K), and enthalpy of vaporization at the normal boiling point (cal.mol) (C5-C8 aliphatic values were used for TPH-G and C9-C18 aliphatic values were used for TPH-D).

The DTSC vapor intrusion model spreadsheet output results are summarized for each detected chemical in Table 7A. The cumulative incremental risk and the hazard index for each sample are summarized in Table 7B. The vapor intrusion model spreadsheet data entry sheets (DATAENTER) which include a summary of the risk and hazard for each calculation, the CHEMPROPS sheets, the INTERCALCS sheets, and the spreadsheet VLOOKUP sheets containing amendments for aliphatic fractions for each of the TPH-G and TPH-D calculations for each sample are attached with this report as Appendix F.

Sensitivity analysis of the soil gas model was performed using benzene for a total of eight scenarios, including the DTSC JE model spreadsheet default values for a residential exposure scenario with a soil type of silty clay (SIC) and a soil gas sampling depth of 5.0 feet (152.40 cm). The results of the sensitivity analysis are summarized in Table 8, and the sensitivity analysis vapor intrusion model spreadsheet input sheets which include a summary for each calculation are attached with this report as Appendix G.

DISCUSSION AND RECOMMENDATIONS

Tables 1 and 2 which contain 2014 investigation soil sample results were updated to include the San Francisco Bay Regional Water Quality Control Board (RWQCB) February 2016 (Revision 3) Tier 1 Environmental Screening Level (ESL) values for soil, and Table 4 which contains 2014 investigation groundwater sample results was updated to include RWQCB February 2016 (Revision 3) values:

- Tier 1 groundwater ESL values.
- Table GW-3 values for Groundwater Vapor Intrusion Human Health Risk Screening Levels for shallow groundwater for commercial/industrial land use.

- Table GW-3 values for Groundwater Vapor Intrusion Human Health Risk Screening Levels for deep groundwater for a fine-coarse scenario for commercial/industrial land use.

Review of the soil sample results for historical (2014) investigation in Tables 1, 2 and the current investigation in Table 3 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 values for 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.

Similarly, review of the groundwater sample results for historical (2014) investigation in Table 4 and the current investigation in Table 5 shows that MTBE was not detected in any of the groundwater samples, and that no detected benzene concentrations exceeded LTCP groundwater-specific criteria for scenarios 2 and 4 with the exception of 5,500 micrograms per liter (ug/L) benzene at location B6 which exceeds the LTCP groundwater-specific criteria for each of scenarios 2 and 4.

The results for borehole B4A (located adjacent to the former waste oil UST pit); boreholes B8, B9, B10, B10A, and B11 (located surrounding the former diesel UST pit); boreholes B12, B13 and B14 (located adjacent to the former dispenser islands); borehole B15 (located at the western property boundary); and soil gas well SG1 (located at the western property boundary between the former gasoline UST pit and the adjacent offsite building) are each discussed below followed by recommendations based on the investigation results. TPH-D, TPH-G, benzene, and naphthalene groundwater results are shown on Figures 3 through 6, respectively. The soil gas sample results are shown in Figure 7.

Borehole B4A

Review of Table 3 shows that only TPH-G at a concentration of 150 milligrams per kilogram (mg/kg) and naphthalene at a concentration of 0.49 mg/kg in the soil sample collected at a depth of 4.0 feet bgs were detected at concentrations exceeding their respective RWQCB February 2016 (Revision 3) Tier 1 ESL values for soil of 100 and 0.033 mg/kg, respectively. Review of Table 3 also shows that at a depth of 9.0 feet bgs that TPH-G was not detected at a concentration exceeding the TPH-G soil ESL, and that naphthalene was not detected, indicating that the vertical extent of TPH-G and naphthalene have been defined at borehole B4A (located adjacent to the former waste oil UST).

Review of Table 5 shows that the detected borehole B4A groundwater concentrations exceeding their respective RWQCB February 2016 (Revision 3) Tier 1 groundwater ESL values were as follows:

- Benzene (detected at a concentration of 1.2 ug/L with a Tier 1 ESL of 1.0 ug/L).
- Naphthalene (detected at a concentration 1.3 ug/L with a Tier 1 ESL of 0.17 ug/L).

Review of Table 5 also shows that none of the detected groundwater concentrations exceed their respective RWQCB February 2016 (Revision 3) Table GW-3 groundwater ESL values for

evaluation of potential vapor intrusion for shallow groundwater in a commercial/industrial land use scenario or for deep groundwater using a fine-coarse mix and commercial land use scenario.

Review of Table 5 shows that although acetone, Methyl Ethyl Ketone (MEK), Methyl Butyl Ketone (MBK), Methyl Iso-butyl Ketone (MIBK), and naphthalene were all detected in the groundwater sample collected from borehole B4A adjacent to the former waste oil UST pit, none of these analytes were detected at concentrations exceeding their respective Tier 1 groundwater ESL values or Table GW-3 groundwater ESL values for evaluation of potential vapor intrusion for either shallow groundwater with a commercial/industrial land use scenario or for deep groundwater using a fine-coarse mix and commercial/industrial land use scenario (there is no Table GW-3 ESL value for MBK for either shallow or deep groundwater in a commercial/industrial land use scenario).

Boreholes B8, B9, B10, B10A, and B11

Boreholes B8, B9, B10, and B11 were drilled to evaluate the presence of free product at locations surrounding the former diesel UST pit where free product had been previously detected in borehole B1. Based on the interpreted presence in borehole B10 of perched water associated with the adjacent former diesel UST pit, borehole B10A was drilled at a distance of 5 feet farther from the former diesel UST pit than borehole B10. On June 3, 2015 boreholes B8, B9, B10, B10A and B11 were evaluated for the presence of free product using a steel tape and product-finding paste.

No measureable thickness of free product was observed in boreholes B8, B9, B10, B10A, and B11, however moderate petroleum odor and slight sheen were detected during groundwater sample collection at borehole B10. No petroleum odor or sheen was observed during groundwater sample collection from any other borehole besides B10. Based on the absence of measureable free product in any of the boreholes, the free product detected in borehole B1 in the former diesel UST pit is interpreted to be limited primarily to the backfill material in the former diesel UST pit. Based on the depth to groundwater encountered during drilling borehole B10, the extent of free product in the former diesel UST pit may extend into native materials immediately surrounding the former diesel UST pit.

Review of Table 3 shows that the detected petroleum concentrations in soil that exceed RWQCB February 2016 (Revision 3) Tier 1 ESL values for soil in boreholes B8, B9, B10, B10A and B11 are as follows:

- TPH-G in samples B9-8.0, B10-7.5, B10A-8.0, and B11-8.5.
- TPH-D in sample B9-8.0.
- Ethylbenzene in samples B10-7.5 and B10A-8.0.
- Naphthalene in samples B10-7.5, B10-10.5, B10A-8.0, and B11-8.5.

Review of Table 5 shows that the detected borehole B8 and B9 groundwater concentrations exceeding their respective RWQCB February 2016 (Revision 3) Tier 1 groundwater ESL values (groundwater samples were not collected from boreholes B10, B10A and B11) were as follows:

- TPH-G in sample B8.

- TPH-D in sample B8.

Boreholes B12, 13, and B14

Review of Table 3 shows that the detected petroleum concentrations in soil that exceed RWQCB February 2016 (Revision 3) Tier 1 ESL values for soil in boreholes B12, B13 and B14 are as follows:

- TPH-G in samples B12-7.0, B13-8.5, and B14-9.0.
- TPH-D in sample B14-9.0.
- Benzene in sample B12-11.0.
- Ethylbenzene in samples B12-7.0 and B14-9.0.
- Xylenes in sample B14-9.0.
- Naphthalene in samples B12-7.0, B13-8.5, and B14-9.0.

Review of Table 5 shows that the detected borehole B12, B13 and B14 groundwater concentrations exceeding their respective RWQCB February 2016 (Revision 3) Tier 1 groundwater ESL values were as follows:

- TPH-G in samples B12, B13, and B14.
- TPH-D in samples B12, B13, and B14.
- Benzene in samples B12, B13, and B14.
- Ethylbenzene in samples B12, B13, and B14.
- Xylenes in samples B12, B13, and B14.
- Naphthalene in samples B12, B13, and B14.

Borehole B15

Review of Table 3 shows that none of the detected petroleum concentrations in soil exceed RWQCB February 2016 (Revision 3) Tier 1 ESL values for soil.

Review of Table 5 shows that the detected borehole B15 groundwater concentrations exceeding their respective RWQCB February 2016 (Revision 3) Tier 1 groundwater ESL values were as follows:

- TPH-G (detected at a concentration of 110 ug/L with a Tier 1 ESL of 100 ug/L).
- 1,2-DCA (detected at a concentration of 5.1 ug/L with a Tier 1 ESL of 0.50 ug/L).

Soil Gas Well SG1

The soil gas sample results are shown on Figure 7. Review of the Table 6A Percent Shroud columns shows that the tracer gas concentrations detected in the samples are less than 5 percent of the associated shroud atmosphere tracer gas concentrations (see Table 6B) for all of the samples, indicating that atmospheric dilution of the samples during sample collection is not a concern. Review of Table 6C shows that oxygen, methane, and carbon dioxide were detected at concentrations of 7.9, 24, and 8.9 percent, respectively. The elevated methane and carbon dioxide

concentrations at location SG1 are consistent with evidence of petroleum hydrocarbon metabolic decomposition at this location.

Evaluation of soil gas well SG1 Table 6A results for compliance with LTCP closure criteria is performed in accordance with LTCP Appendix 4 Scenario 4 (2 of 2) commercial exposure scenario bioattenuation zone criteria based on the following information:

- A minimum distance of 5 feet vertically between the soil vapor measurement and the foundation of the adjacent existing building at the Downtown Toyota facility.
- The TPH-G plus TPH-D concentration is less than 100 mg/kg between the ground surface and a depth of 5 feet bgs (see Table 5 for adjacent borehole B15 soil sample results and Appendix A for borehole B15 boring log).
- Oxygen is greater than four percent (7.9 percent, see Table 6C) at a depth greater than 5 feet bgs.

Comparison of the soil gas well SG1 Table 6A sample results with the LTCP Appendix 4 Scenario 4 (2 of 2) commercial exposure scenario bioattenuation zone criteria shows that ethylbenzene and naphthalene were not detected, and that the detected soil gas sample and duplicate soil gas sample concentration of 19,000 ug/m³ were below the LTCP commercial bioattenuation zone benzene soil gas criteria concentration of 280,000 ug/m³.

Review of Table 6A also shows that RWQCB February 2016 (Revision 3) Table SG-1 Subslab/Soil Gas Vapor Intrusion Human Health Risk Screening Level ESL values were exceeded for TPH-G, TPH-D, and benzene at SG1. No other analytes were detected at concentrations exceeding their respective Table SG-1 soil gas ESL values for a commercial/industrial exposure scenario.

Review of the cumulative incremental carcinogenic risk and hazard indices in Table 7B shows that at location SG1 the calculated cumulative incremental carcinogenic risk was 14 in a million (1.4E-05) for both the sample SG1 and the duplicate sample SG1-DUP, and the calculated hazard index was 16 for soil gas sample SG1 and 15 for duplicate sample SG1-DUP. Review of Table 7A shows that all of the risk is from benzene and that almost all the hazard is from TPH-G and TPH-D.

Review of the soil gas model sensitivity analysis in Table 8 shows that the model is not very sensitive to changes in temperature, is moderately sensitive to changes in soil type, and has comparatively greater sensitivity to changes in sample depth and chemical concentration.

Recommendations

Water used at the site and adjacent sites is municipal water obtained from the East Bay Municipal Water District (EBMUD). With the exception of construction workers, the only complete pathway for human health exposure identified at the subject site and at adjacent sites is from vapor intrusion, with the exception of construction workers during subsurface construction.

The case cannot be closed at this time in accordance with LTCP criteria based on the following site conditions:

- The presence of free product historically detected in the former diesel UST pit in borehole B1. The results of the current investigation indicate that the extent of free product is limited to the former diesel UST pit and possibly the materials immediately surrounding the former diesel UST pit.
- The extent of petroleum in soil, groundwater, and soil gas has not yet been fully defined.
- The groundwater benzene concentration of 5,500 at location B6 exceeds the LTCP groundwater-specific criteria for scenarios 2 and 4 of 3,000 and 1,000 ug/L, respectively.

Based on the soil and groundwater sample results, P&D recommends drilling boreholes at locations B16 through B21 using methods described in this report by continuously coring at each location using Geoprobe direct push technology for collection of soil samples between the depths of 0 and 5 feet and 5 feet and 10 feet bgs and the collection of one groundwater grab sample from each borehole with analysis of the soil and groundwater samples for TPH-G, TPH-D, TPH-BO, TPH-MO, and EPA Method 8260 compounds (including MBTEX, naphthalene, fuel oxygenates and lead scavengers) to further define the extent of petroleum in soil and groundwater as follows:

- Drilling of boreholes B16, B17 and B18 to evaluate the presence and extent of petroleum at the former remote fill ports (B16) and to define the northeastern extent of TPH-G, TPH-D and naphthalene in groundwater.
- Drilling of boreholes B19 through B21 to define the southeastern (B19), southern (B20) and southwestern (B21) extent of TPH-G, TPH-D, benzene, and naphthalene in groundwater.

Based on the soil gas sample results from soil gas well SG1 P&D recommends installing and sampling one Vapor Pin at location VP1 shown on Figures 2 through 7 for evaluation of the presence of petroleum hydrocarbons in sub-slab soil gas at the Downtown Toyota facility in an effort to define the extent of petroleum hydrocarbons in soil gas in the vicinity of soil gas well SG1.

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

December 12, 2016
Report 0398.R2

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.

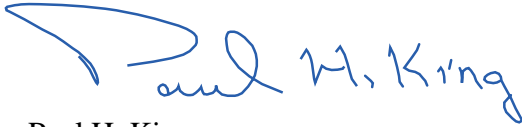
This report has been prepared in accordance with generally accepted practices using standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. P&D is not responsible for the accuracy or completeness of information provided by other individuals 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.

December 12, 2016
Report 0398.R2

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: 12/31/17



Attachments:

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

Table 2 - Summary of Historical Borehole Soil Sample Analytical Results

Table 3 - Summary of Current Investigation Borehole Soil Sample Analytical Results

Table 4 - Summary of Historical Borehole Groundwater Sample Analytical Results

Table 5 - Summary of Current Investigation Borehole Groundwater Sample Analytical Results

Table 6A - Summary of Soil Gas Sample Analytical Results - TPH and VOCs

Table 6B - Summary of Soil Gas Shroud Sample Analytical Results - 1,1-Difluoroethane and 2-Propanol

Table 6C - Summary of Soil Gas Analytical Results - Oxygen, Methane, and Carbon Dioxide

Table 7A - Summary of Soil Gas Risk and Hazard Analysis

Table 7B - Soil Gas Risk and Hazard Calculation Results Summary

Table 8 - Summary of Soil Gas Model Sensitivity Analysis

Figure 1 - Site Location Map

Figure 2 - Site Map Showing Sample Collection Locations

Figure 3 - Site Vicinity Aerial Photograph Showing TPH-D Groundwater Concentrations

Figure 4 - Site Vicinity Aerial Photograph Showing TPH-G Groundwater Concentrations

Figure 5 - Site Vicinity Aerial Photograph Showing Benzene Groundwater Concentrations

Figure 6 - Site Vicinity Aerial Photograph Showing Naphthalene Groundwater Concentrations

Figure 7 - Site Map Showing Soil Gas Well Location and Petroleum and VOC Concentrations in Soil Gas

Figure 8 - Typical Soil Gas Sampling Manifold

Appendix A - Soil Boring Logs

Appendix B - Purge Volume Calculation and Soil Gas Sampling Data Sheet

Appendix C - Waste Disposal Documentation

Appendix D - Weather Information

Appendix E - Laboratory Analytical Reports and Chain of Custody Documentation

Appendix F - DTSC JE Soil Gas Model Risk and Hazard Calculation Work Sheets

Appendix G - DTSC JE Soil Gas Model Sensitivity Analysis Risk and Hazard Calculation Work Sheets

PHK/sjc/mlbd
0398.R2

TABLES

Summary of Historical 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 Commercial/Industrial Utility Worker | | | | | | 0.5' = 8.2 5-10' = 12 0-10' = 14 | | 0.5' = 89 5-10' = 134 0-10' = 314 | | Naphthalene 0-5' = 45 Naphthalene 5-10' = 45 Naphthalene 0-10' = 219 | |
| ESL | Tier 1 | | 100 | 230 | 5,100 | 0.023 | 0.044 | 2.9 | 1.4 | 2.3 | Naphthalene = 0.033, PCE = 0.42, 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 | 80 |
| <p>NOTES:</p> <p>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(?).</p> <p>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.</p> <p>ESL = Environmental Screening Level, by San Francisco Bay - Regional Water Quality Control Board, updated February 2016 (Revision 3), Soil Tier 1 ESL from Summary of Soil ESLs.</p> <p>Hi-lighted depths include the interval 0.0-5.0 feet.</p> <p>Results in bold exceed their respective ESL values.</p> <p>Results, ESL values, and LTCP values reported in mg/kg (milligrams per kilogram), unless otherwise indicated.</p> | | | | | | | | | | | | |

Table 2
Summary of Historical 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-Propylbenzene = 1.5 | 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 Commercial/Industrial Utility Worker | | | | | | 0.5* = 8.2 5-10* = 12 0-10* = 14 | | 0.5* = 89 5-10* = 134 0-10* = 314 | | Naphthalene 0.5* = 45 Naphthalene 5-10* = 45 Naphthalene 0-10* = 219 | |
| ESL | Tier 1 | | 100 | 230 | 5,100 | 0.023 | 0.044 | 2.9 | 1.4 | 2.3 | Naphthalene = 0.033, MEK = 5.1, 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 | 80 |
| <p>NOTES:</p> <p>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). ft bgs = feet below ground surface. ND = Not detected.</p> <p>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(?).</p> <p>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 February 2016 (Revision 3), Soil Tier 1 ESL from Summary of Soil ESLs. * - 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.</p> | | | | | | | | | | | | |

Table 3
Summary of Current Investigation 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 | SVOCs by EPA Method 8270 |
|-----------|------------------------|----------------------------------|----------|----------|----------|-----------|-----------|-----------|--------------|-----------|--|--------------------------|
| B4A-3.0 | 6/2/2015 | 3.0 | 15, a,b | 11, c,d | 110, c,d | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | All ND | All ND |
| B4A-4.0 | 6/2/2015 | 4.0 | 150, a,b | 15, e | ND<5.0 | ND<0.10 | ND<0.10 | ND<0.10 | ND<0.10 | ND<0.10 | ND except, Naphthalene = 0.49, n-Butyl benzene = 0.14, n-Propyl benzene = 0.22 | All ND |
| B4A-9.0 | 6/2/2015 | 9.0 | 40, a,b | 3.8, f | ND<5.0 | ND<0.020 | ND<0.020 | ND<0.020 | 0.078 | ND<0.020 | ND except, n-Butyl benzene = 0.094, n-Propyl benzene = 0.12 Isopropylbenzene = 0.040 | All ND |
| B4A-11.0 | 6/2/2015 | 11.0 | 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 | All ND |
| B8-4.0 | 6/2/2015 | 4.0 | 1.8, b | ND<1.0 | ND<5.0 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | All ND | NA |
| B8-9.5 | 6/2/2015 | 9.5 | 45, a,b | 1.3, g | ND<5.0 | ND<0.025 | ND<0.025 | ND<0.025 | ND<0.025 | ND<0.025 | All ND | NA |
| B8-11.5 | 6/2/2015 | 11.5 | 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 | NA |
| B8-18.5 | 6/2/2015 | 18.5 | 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 | NA |
| B9-4.0 | 6/2/2015 | 4.0 | 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 | NA |
| B9-8.0 | 6/2/2015 | 8.0 | 310, a | 270, e | 17, e | ND<0.20 | ND<0.20 | ND<0.20 | ND<0.20 | ND<0.20 | ND except, n-Butyl benzene = 2.2, n-Propyl benzene = 1.4, Isopropylbenzene = 0.30, sec-Butyl benzene = 0.57 | NA |
| B9-12.0 | 6/2/2015 | 12.0 | 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 | NA |
| B9-19.0 | 6/2/2015 | 19.0 | 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 | NA |
| B10-3.0 | 6/2/2015 | 3.0 | 2.4, a,b | 1.4, c,f | ND<5.0 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND except, MEK = 0.025 | NA |
| B10-7.5 | 6/2/2015 | 7.5 | 420, a,b | 92, e | 5.7, e | ND<0.33 | ND<0.33 | ND<0.33 | 3.9 | 0.33 | ND except, Naphthalene = 4.8, n-Butyl benzene = 1.5, n-Propyl benzene = 3.0, Isopropylbenzene = 0.73, sec-Butyl benzene = 0.43, 1,2,4-Trimethylbenzene = 0.77 | NA |
| B10-10.5 | 6/2/2015 | 10.5 | 14, b | 2.7, g | ND<5.0 | ND<0.010 | ND<0.010 | ND<0.010 | ND<0.010 | ND<0.010 | ND except, Naphthalene = 0.11 | NA |
| B10A-4.0 | 6/2/2015 | 4.0 | 9.2, a | 7.8, c,d | 15, c,d | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND except, Naphthalene = 0.0085, n-Propyl benzene = 0.0075 | NA |
| B10A-8.0 | 6/2/2015 | 8.0 | 440, a,b | 25, e | ND<5.0 | ND<0.20 | ND<0.20 | ND<0.20 | 3.5 | ND<0.20 | ND except, Naphthalene = 2.3, n-Butyl benzene = 0.71, n-Propyl benzene = 1.7, Isopropylbenzene = 0.51, sec-Butyl benzene = 0.22, 1,2,4-Trimethylbenzene = 0.32 | NA |
| B10A-13.0 | 6/2/2015 | 13.0 | 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 | NA |
| B10A-18.0 | 6/2/2015 | 18.0 | 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 | NA |
| B11-4.0 | 6/2/2015 | 4.0 | 3.3, a,b | 1.4, h | ND<5.0 | ND<0.0050 | ND<0.0050 | ND<0.0050 | 0.0081 | ND<0.0050 | ND except, Naphthalene = 0.011, MEK = 0.022, n-Butyl benzene = 0.0098, n-Propyl benzene = 0.024, Isopropylbenzene = 0.0058, | NA |
| B11-8.5 | 6/2/2015 | 8.0 | 320, a,b | 11, e | ND<5.0 | ND<0.20 | ND<0.20 | ND<0.20 | 1.2 | 0.34 | ND except, Naphthalene = 0.96, n-Butyl benzene = 0.31, n-Propyl benzene = 0.63, Isopropylbenzene = 0.20, 1,2,4-Trimethylbenzene = 1.8, 1,3,5-Trimethylbenzene = 0.29 | NA |
| B11-10.0 | 6/2/2015 | 10.0 | 1.5, b | ND<1.0 | ND<5.0 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | All ND | NA |
| B11-18.0 | 6/2/2015 | 18.0 | 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 | NA |
| B12-4.0 | 6/3/2015 | 4.0 | 15, a,b | 3.0, e | ND<5.0 | ND<0.010 | 0.012 | ND<0.010 | ND<0.010 | ND<0.010 | ND except, n-Butyl benzene = 0.022, n-Propyl benzene = 0.014 | NA |
| B12-7.0 | 6/3/2015 | 7.0 | 210, a,b | 12, e | ND<5.0 | ND<0.50 | ND<0.50 | ND<0.50 | 1.9 | ND<0.50 | ND except, Naphthalene = 2.4, n-Propyl benzene = 1.1 | NA |
| B12-11.0 | 6/3/2015 | 11.0 | 1.3 | ND<1.0 | ND<5.0 | ND<0.0050 | 0.047 | ND<0.0050 | ND<0.0050 | ND<0.0050 | All ND | NA |
| B12-19.0 | 6/3/2015 | 19.0 | 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 | NA |

Table 3
Summary of Current Investigation 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 | SVOCs by EPA Method 8270 |
|--|--|----------------------------------|------------|--------|--------|-----------|--|-----------|---|-----------|---|--------------------------|
| B13-4.0 | 6/2/2015 | 4.0 | 2.4, a,b | ND<1.0 | ND<5.0 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | All ND | NA |
| B13-8.5 | 6/2/2015 | 8.5 | 150, a,b | 8.6, e | ND<5.0 | ND<0.025 | ND<0.025 | ND<0.025 | 0.28 | 0.19 | ND except, Naphthalene = 0.51, n-Butyl benzene = 0.095, n-Propyl benzene = 0.18, Isopropylbenzene = 0.059, sec-Butyl benzene = 0.030, 1,2,4-Trimethylbenzene = 0.27, 1,3,5-Trimethylbenzene = 0.040 | NA |
| B13-10.0 | 6/2/2015 | 10.0 | 3.2, b | ND<1.0 | ND<5.0 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | All ND | NA |
| B13-19.0 | 6/2/2015 | 19.0 | 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 | NA |
| B14-4.0 | 6/3/2015 | 4.0 | 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 | NA |
| B14-9.0 | 6/3/2015 | 9.0 | 2,800, a,b | 890, e | 44, e | ND<2.0 | ND<2.0 | ND<2.0 | 13 | 27 | ND except, Naphthalene = 10, n-Butyl benzene = 4.4, n-Propyl benzene = 7.7, Isopropylbenzene = 2.0, 1,2,4-Trimethylbenzene = 37, 1,3,5-Trimethylbenzene = 10 | NA |
| B14-14.0 | 6/3/2015 | 14.0 | 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 | NA |
| B15-4.0 | 6/3/2015 | 4.0 | 2.2, b | ND<1.0 | ND<5.0 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | All ND | NA |
| B15-8.0 | 6/3/2015 | 8.0 | 39, a,b | 2.5, e | ND<5.0 | ND<0.025 | ND<0.025 | ND<0.025 | 0.070 | ND<0.025 | ND except, n-Butyl benzene = 0.11, n-Propyl benzene = 0.14, Isopropylbenzene = 0.034, | NA |
| B15-11.0 | 6/3/2015 | 11.0 | 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 | NA |
| B15-20.0 | 6/3/2015 | 20.0 | 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 | NA |
| LTCP | Commercial/Industrial Commercial/Industrial Utility Worker | | | | | | 0-5' = 8.2 5-10' = 12 0-10' = 14 | | 0-5' = 89 5-10' = 134 0-10' = 314 | | Naphthalene 0-5' = 45 Naphthalene 5-10' = 45 Naphthalene 0-10' = 219 | |
| ESL | Tier 1 | | 100 | 230 | 5,100 | 0.023 | 0.044 | 2.9 | 1.4 | 2.3 | Naphthalene = 0.033, MEK = 5.1, 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 | Various |
| 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. | | | | | | | | | | | | |
| SVOCs = Semi-Volatile Organic Compounds. | | | | | | | | | | | | |
| MEK = Methyl ethyl ketone (2-Butanone). | | | | | | | | | | | | |
| ft bgs = feet below ground surface. | | | | | | | | | | | | |
| ND = Not detected. | | | | | | | | | | | | |
| NA = Not analyzed. | | | | | | | | | | | | |
| a = Laboratory Note: Heavier gasoline range compounds are significant (aged gasoline?). | | | | | | | | | | | | |
| b = Laboratory Note: No recognizable pattern. | | | | | | | | | | | | |
| c = Laboratory Note: Diesel range compounds are significant; no recognizable pattern. | | | | | | | | | | | | |
| d = Laboratory Note: Oil range compounds are significant. | | | | | | | | | | | | |
| e = Laboratory Note: Gasoline range compounds are significant. | | | | | | | | | | | | |
| f = Laboratory Note: Stoddard solvent/mineral spirit(?). | | | | | | | | | | | | |
| g = Laboratory Note: kerosene/kerosene range/jet fuel range. | | | | | | | | | | | | |
| h = 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 February 2016 (Revision 3), Soil Tier 1 ESL from Summary of Soil ESLs. | | | | | | | | | | | | |
| 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 4
Summary of Historical 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 Groundwater Specific Criteria | Scenario 2 Scenario 4 | None None | None None | None None | 1,000 1,000 | 3,000 1,000 | None None | None None | None None | None None |
| ESL ¹ | | 100 | 100 | 50,000 | 5.0 | 1.0 | 40 | 13 | 20 | Naphthalene = 0.17, Acetone = 1,500, MEK = 5,600, 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 | 11,000 | 9.7 | 30,000 | 110 | 11,000 | Naphthalene = 170, Acetone = 290,000,000, MEK = 36,000,000, 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 |
| ESL ³ | | No Value | No Value | No Value | 130,000 | 260 | No Value | 3,300 | No Value | Naphthalene = 1,600, Acetone = No Value, MEK = 180,000,000, 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 5
Summary of Current Investigation 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 | SVOCs by EPA Method 8270 |
|------------------------------------|--------------------------|-----------------|---------------------|--------------|----------------|----------------|--------------|--------------|--------------|---|--------------------------|
| B4A-W | 6/3/2015 | ND<50 | 64, c,d | ND<250 | ND<0.50 | 1.2 | ND<0.50 | 1.3 | 1.2 | ND, except Naphthalene = 1.3 , Acetone = 50, MEK = 13, MBK = 0.85, MIBK = 0.99, Carbon disulfide = 8.0, n-Propyl benzene = 1.3, Isopropylbenzene = 0.51 | All ND |
| B8-W | 6/2/2015 | 120, a | 250, e | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND, except n-Butyl benzene = 2.9, sec-Butyl benzene = 1.2 n-Propyl benzene = 3.1, Isopropylbenzene = 1.0. | NA |
| B9-W | 6/2/2015 | 89, a,b | 72, e | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | 0.91 | 5.7 | ND, except Acetone = 28, n-Butyl benzene = 6.0, sec-Butyl benzene = 2.87, Isopropylbenzene = 4.0, n-Propyl benzene = 13, 4-Isopropyl toluene - 0.60 | NA |
| B12-W | 6/3/2015 | 4,000 | 1,700, c,e,f | 380, c,e,f | ND<25 | 130 | ND<25 | 250 | 36 | ND, except Naphthalene = 130 , n-Propyl benzene = 61, 1,2,4-Trimethylbenzene = 92 | NA |
| B13-W | 6/2/2015 | 1,800 | 910, e | ND<250 | ND<25 | 29 | ND<25 | 130 | 98 | ND, except Naphthalene = 100 , n-Propyl benzene = 46, 1,2,4-Trimethylbenzene = 110, | NA |
| B14-W | 6/3/2015 | 5,600 | 5,200, g | ND<250 | ND<25 | 40 | ND<25 | 69 | 110 | ND, except Naphthalene = 68 , n-Propyl benzene = 66, 1,2,4-Trimethylbenzene = 660, | NA |
| B15-W | 6/3/2015 | 110, a,b | 51, h | ND<250 | ND<0.50 | ND<0.50 | ND<0.50 | 1.3 | ND<0.50 | ND, except 1,2-DCA = 5.1 , n-Butyl benzene = 0.70, n-Propyl benzene = 1.3 | NA |
| LTCP Groundwater Specific Criteria | Scenario 2 Scenario 4 | None None | None None | None None | 1,000 1,000 | 3,000 1,000 | None None | None None | None None | None None | None None |
| ESL ¹ | | 100 | 100 | 50,000 | 5.0 | 1.0 | 40 | 13 | 20 | Naphthalene = 0.17, Acetone = 1,500, MEK = 5,600, 1,2-DCA = 0.50, MIBK = 120, Carbon disulfide = 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, 4-Isopropyl toluene = No Value | Various |
| ESL ² | | No Value | No Value | No Value | 11,000 | 9.7 | 30,000 | 110 | 11,000 | Naphthalene = 170, Acetone = 290,000,000, MEK = 36,000,000, 1,2-DCA = 53, MIBK = 13,000,000, Carbon disulfide = 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, 4-Isopropyl toluene = No Value | Various |
| ESL ³ | | No Value | No Value | No Value | 130,000 | 260 | No Value | 3,300 | No Value | Naphthalene = 1,600, Acetone = No Value, MEK = 180,000,000, 1,2-DCA = 790, MIBK = No Value, Carbon disulfide = 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, 4-Isopropyl toluene = No Value | Various |

Table 6A
Summary of Soil Gas Sample Analytical Results - TPH and VOCs

| Sample ID | Sample Date | Land Use Scenario | TPH-G | TPH-D | MTBE | Benzene | Toluene | Ethylbenzene | m,p-Xylenes | o-Xylenes | Other Detected Compounds by EPA TO15 | Naphthalene | 1,1-DFA | Percent Shroud | 2-Propanol | Percent Shroud |
|---|-------------|-------------------|--------------------|---------------------|----------|---------------|-----------|--------------|--------------------|-----------|---|-------------|-----------|----------------|------------|----------------|
| SG1 | 6/22/2015 | Commercial | 140,000,000 | 2,400,000, a | ND<4,400 | 19,000 | ND<4,600 | ND<5,300 | ND<5,300 | ND<5,300 | ND, except Hexane = 3,500,000, Cyclohexane = 1,900,000, 2,2,4-Trimethylpentane = 5,700,000, Heptane = 890,000, Cumene = 8,000, Propylbenzene = 13,000 | ND<10 | 33,000 | 0 | ND<12,000 | 0 |
| SG1-DUP | 6/22/2015 | Commercial | 140,000,000 | NA | ND<4,400 | 19,000 | ND<4,600 | ND<5,300 | ND<5,300 | ND<5,300 | ND, except ND, except Hexane = 3,500,000, Cyclohexane = 1,900,000, 2,2,4-Trimethylpentane = 5,600,000, Heptane = 880,000, Cumene = 6,700, Propylbenzene = 10,000 | NA | ND<6,600 | 0 | ND<12,000 | 0 |
| SG1 | 7/7/2015 | Commercial | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ND<14,000 | 0 | NA | NA |
| LTCP | | | | | | | | | | | | | | | | |
| with No Bioattenuation Zone (commercial) | | | | | | 280 | | 3,600 | | | | 310 | | | | |
| with Bioattenuation Zone (commercial) | | | | | | 280,000 | | 3,600,000 | | | | 310,000 | | | | |
| ESL | | | 2,500,000 | 570,000 | 47,000 | 420 | 1,300,000 | 4,900 | Combined = 440,000 | | Hexane = None, Cyclohexane = None, 2,2,4-Trimethylpentane = None, Heptane = None, Cumene = None, Propylbenzene = None | 360 | No Value | No Value | No Value | No Value |
| Notes: | | | | | | | | | | | | | | | | |
| TPH-G = Total Petroleum Hydrocarbons as Gasoline. | | | | | | | | | | | | | | | | |
| TPH-D = Total Petroleum Hydrocarbons as Diesel. | | | | | | | | | | | | | | | | |
| MTBE = Methyl-tert-Butyl Ether. | | | | | | | | | | | | | | | | |
| 1,1-DFA = 1,1-Difluoroethane. | | | | | | | | | | | | | | | | |
| ND = Not Detected. | | | | | | | | | | | | | | | | |
| NA = Not Analyzed. | | | | | | | | | | | | | | | | |
| a = Laboratory Note: Exceeds instrument calibration range. | | | | | | | | | | | | | | | | |
| Percent Shroud = The ratio of tracer gas concentration detected in the soil gas sample to the tracer gas concentration detected in the shroud air sample, expressed as a percentage. | | | | | | | | | | | | | | | | |
| LTCP = Low Threat Closure Policy, developed by State Water Resources Control Board, effective August 17, 2012, from Appendix 4 Direct Measurement of Soil Gas Concentrations. Soil Gas | | | | | | | | | | | | | | | | |
| Criteria with no bioattenuation zone. | | | | | | | | | | | | | | | | |
| ESL = Environmental Screening Level, by San Francisco Bay – Regional Water Quality Control Board, updated February 2016 (Revision 3) from Table SG-1 – Subslab/Soil Gas Vapor Intrusion Human Health Risk Screening Levels. Commercial/Industrial Land Use. | | | | | | | | | | | | | | | | |
| <i>Italicized values exceed their respective LTCP values.</i> | | | | | | | | | | | | | | | | |
| Values in bold exceed their respective ESL values. | | | | | | | | | | | | | | | | |
| Hi-lited results indicate a screening level was exceeded. | | | | | | | | | | | | | | | | |
| Results, ESL values, and LTCP values reported in micrograms per cubic meter (µg/m ³), unless otherwise indicated. | | | | | | | | | | | | | | | | |

Table 6B

Summary of Soil Gas Shroud Sample Analytical Results - 1,1-Difluoroethane and 2-Propanol

| Sample ID | Sample Date | 1,1-DFA, # | 2-Propanol, ## |
|---|-------------|------------|----------------|
| SG1 DFA | 6/22/2015 | 8,900,000 | NA |
| SG1 2-Propanol | 6/22/2015 | NA | 800,000 |
| SG1 DFA | 7/7/2015 | 22,000,000 | NA |
| <u>Notes:</u> | | | |
| ND = Not Detected. | | | |
| NA = Not Analyzed. | | | |
| # = 1,1-DFA used as leak detection compound for TO-15 analysis. | | | |
| ## = 2-Propanol used as leak detection compound for TO-17 analysis. | | | |
| Results in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$), unless otherwise indicated. | | | |

Table 6C

Summary of Soil Gas Analytical Results - Oxygen, Methane, and Carbon Dioxide

| Sample ID | Sample Date | Oxygen (%) | Methane (%) | Carbon Dioxide (%) |
|--|-------------|------------|-------------|--------------------|
| SG1 | 7/7/2015 | 7.9 | 24 | 8.9 |
| | | | | |
| NOTES: | | | | |
| ND = Not Detected. | | | | |
| Results in percentage (%), unless otherwise indicated. | | | | |

Table 7A
Summary of Soil Gas Risk and Hazard Analysis

| DTSC Screening-Level Vapor Intrusion Model for Soil Gas Contamination (Last Modified 12/2014) | | | | | | | |
|--|-----------------------|---------------------------------------|---------------|--|--|-------|--------|
| Xtra Oil Company 4171 Broadway Oakland, CA | | | | Incremental risk from vapor intrusion to indoor air, carcinogen | Hazard quotient from vapor intrusion to indoor air, noncarcinogen | | |
| Chemical | Sample Location | Concentration (µg/m ³) | | (unitless) | (unitless) | NOTES | CAS# |
| SG1 | | SG1 | | | | | |
| TPH-G | (Commercial Scenario) | 140,000,000 | | NA | 1.4E+01 | | None |
| TPH-D | | 2,400,000 | | NA | 1.1E+00 | | None |
| Benzene | | 19,000 | | 1.4E-05 | 4.4E-01 | | 71432 |
| Hexane | | 3,500,000 | | NA | 3.0E-01 | | 110543 |
| Cyclohexane | | 1,900,000 | | NA | 2.0E-02 | | 110827 |
| Cumene | | 8,000 | | NA | 1.0E-03 | | 98828 |
| Propylbenzene | | 13,000 | | NA | 6.7E-04 | | 103651 |
| | | | | | | | |
| | | | TOTALS | 1.4E-05 | 1.6E+01 | | |
| | | | | | | | |
| SG1-DUP | | SG1-DUP | | | | | |
| TPH-G | (Commercial Scenario) | 140,000,000 | | NA | 1.4E+01 | | None |
| Benzene | | 19,000 | | 1.4E-05 | 4.4E-01 | | 71432 |
| Hexane | | 3,500,000 | | NA | 3.0E-01 | | 110543 |
| Cyclohexane | | 1,900,000 | | NA | 2.0E-02 | | 110827 |
| Cumene | | 6,700 | | NA | 8.6E-04 | | 98828 |
| Propylbenzene | | 10,000 | | NA | 5.1E-04 | | 103651 |
| | | | | | | | |
| | | | TOTALS | 1.4E-05 | 1.5E+01 | | |
| | | | | | | | |
| NOTES | | | | | | | |
| At Location SG1 spreadsheet default values were used for a commercial exposure, with a vadose zone soil type SIC (silty clay), and a sample depth of 6.0 feet (182.88 cm). NA = Not Applicable. | | | | | | | |

Table 7B
Soil Gas Risk and Hazard Calculation Results Summary

| Soil Gas Sample Designation | Sample Collection Date | Land Use Scenario | Calculated Cumulative Incremental Carcinogenic Risk | Calculated Cumulative Incremental Carcinogenic Risk Alternate Descriptor | Calculated Cumulative Incremental Carcinogenic Risk Alternate Descriptor | Calculated Hazard Index | Recommendations Based on |
|---|------------------------|-------------------|---|--|--|-------------------------|---|
| | | | | | | | DTSC-Recommended Guidance for Action or Response (Minimum of Two Adequately-Spaced (With Respect To Time) Soil Gas Sampling Events Needed |
| Location | | | | | | | |
| SG1 | 6/22/2015 | Commercial | 1.4E-05 | 0.000014 | 14 in a million | 1.60E+01 | Evaluate need for action- risk greater than 1 in a million and hazard greater than 1.0. |
| SG1-DUP | 6/22/2015 | Commercial | 1.4E-05 | 0.000014 | 14 in a million | 1.50E+01 | Evaluate need for action- risk greater than 1 in a million and hazard greater than 1.0. |
| Notes: | | | | | | | |
| RISK MANAGEMENT MATRIX FOR VAPOR INTRUSION | | | | | | | |
| Risk | Hazard | | Response | Activities | | | |
| Less than 1 in a million | $x \leq 1.0$ | | No Further Action | None | | | |
| 1 to 100 in a million | $x \geq 1.0$ | | Evaluate Need for Action | Possible Actions | | | |
| | | | | o Additional Data Collection | | | |
| | | | | o Monitoring | | | |
| | | | | o Additional Risk Characterization | | | |
| | | | | o Mitigation | | | |
| | | | | o Source Remediation | | | |
| More than 100 in a million | | | Response | o Vapor Intrusion Mitigation | | | |
| | | | Action Needed | o Source Remediation | | | |

Summary of Soil Gas Model Sensitivity Analysis

| DTSC Screening-Level Vapor Intrusion Model for Soil Gas Contamination (Last Modified 12/2014) | | | | | |
|--|--------------------|----------------------|---------------|--------------|---------------|
| Xtra Oil Company | | | | | |
| 4171 Broadway | | | | Incremental | Hazard |
| Oakland, CA | | | | risk from | quotient |
| | | | | vapor | from vapor |
| | | | | intrusion to | intrusion to |
| | | | | indoor air, | indoor air, |
| | | Concentration | Sample Result | carcinogen | noncarcinogen |
| Chemical | | (ug/m ³) | Location | (unitless) | (unitless) |
| Scenario 1 = Table 2 Highest Concentration with Model Default Values Except for | | | | | |
| | Soil = SIC. | | | | |
| Benzene | | 220,000 | SG6 | 1.8E-04 | 5.9E+00 |
| Scenario 2 = Scenario 1 values except average soil temperature is 15 degrees C. | | | | | |
| Benzene | | 220,000 | SG6 | 1.8E-04 | 5.9E+00 |
| Scenario 3 = Scenario 1 values except soil type is CL. | | | | | |
| Benzene | | 220,000 | SG6 | 2.2E-04 | 7.2E+00 |
| Scenario 4 = Scenario 1 values except soil type is S. | | | | | |
| Benzene | | 220,000 | SG6 | 3.6E-04 | 1.1E+01 |
| Scenario 5 = Scenario 1 values except soil gas sampling depth is 76.2 cm (2.5 ft). | | | | | |
| Benzene | | 220,000 | SG6 | 3.0E-04 | 9.8E+00 |
| Scenario 6 = Scenario 1 values except soil gas sampling depth is 304.8 cm (10 ft). | | | | | |
| Benzene | | 220,000 | SG6 | 1.0E-04 | 3.3E+00 |
| Scenario 7 = Scenario 1 values except benzene concentration = 1,800 ug/m3. | | | | | |
| Benzene | | 2,200 | None | 1.8E-06 | 5.9E-02 |
| Scenario 8 = Scenario 1 values except benzene concentration = 18,000,000 ug/m3. | | | | | |
| Benzene | | 2,200,000 | None | 1.8E-03 | 5.9E+01 |
| Report 0398.R2 Soil Gas Model Sensitivity Analysis | | | | | |

FIGURES

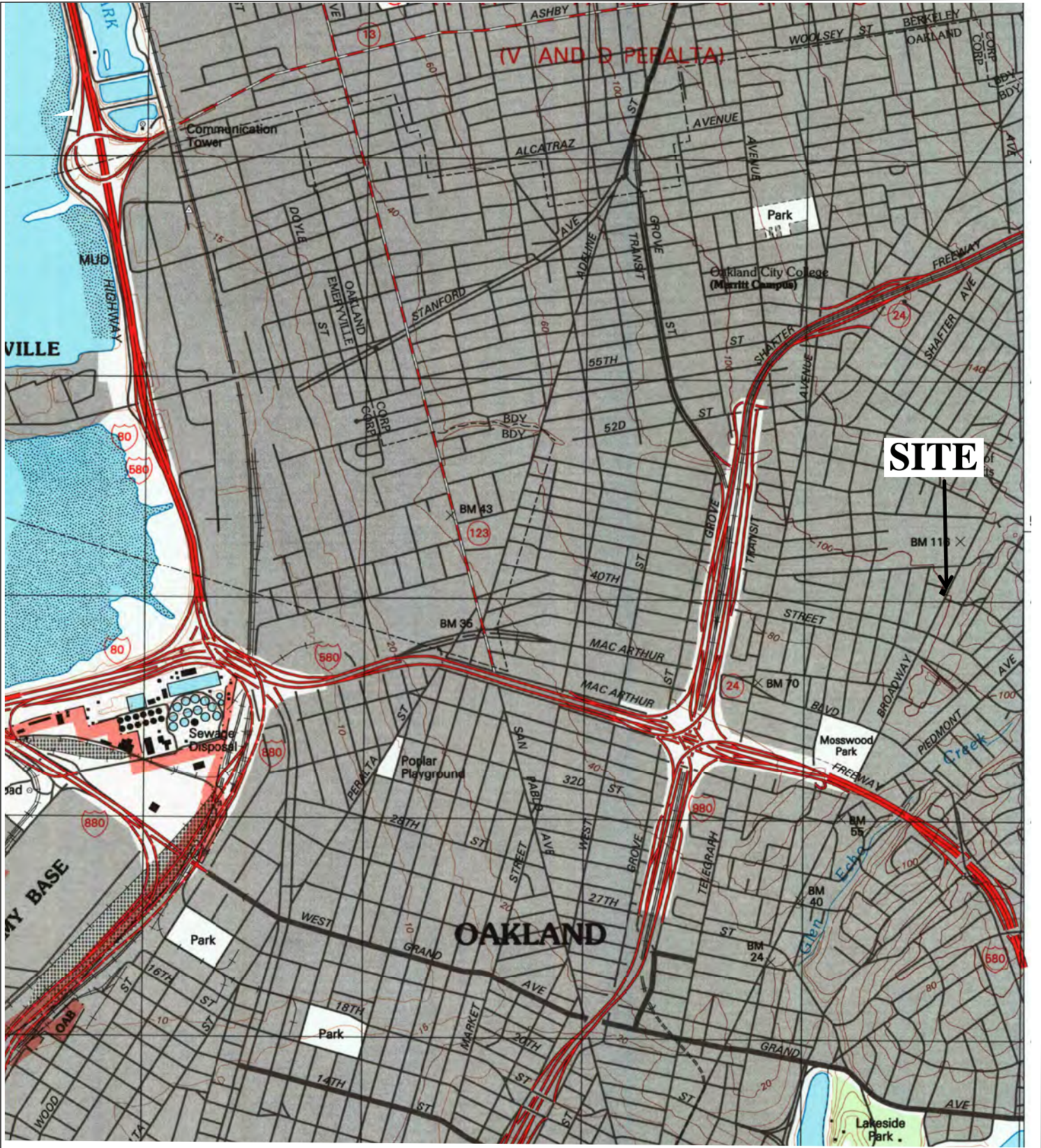
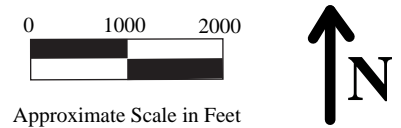


Figure 1
 Site Location Map
 Auto Depot
 4171 Broadway
 Oakland, California

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



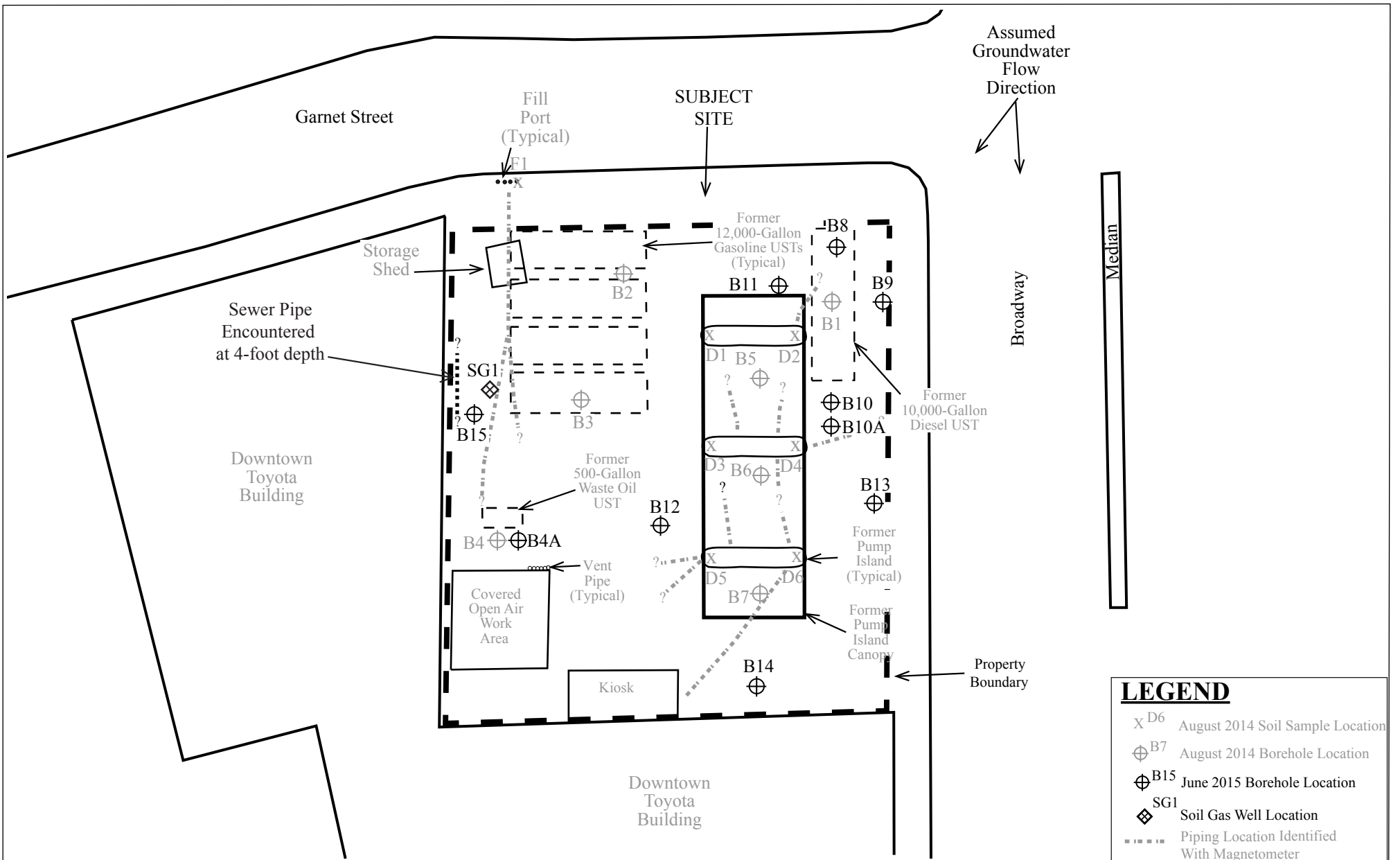
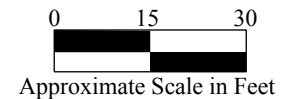


Figure 2
 Site Map Showing Sample Collection Locations
 Auto Depot
 4171 Broadway
 Oakland, California

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



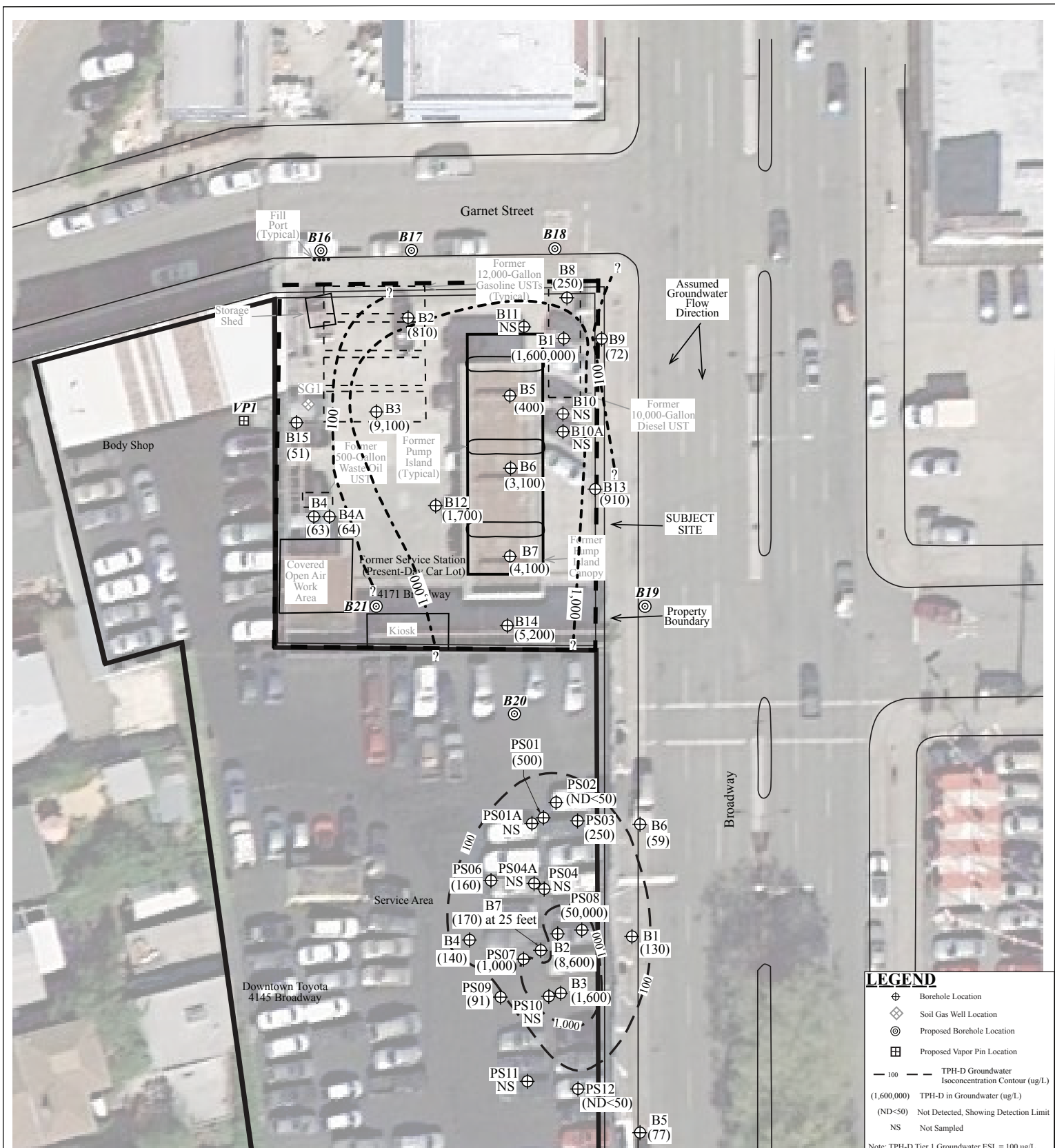
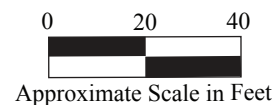


Figure 3
 Site Vicinity Aerial Photograph Showing TPH-D Groundwater Concentrations
 Auto Depot
 4171 Broadway
 Oakland, California

Base Map From:
 Andrew P. Anderson, Architect
 Doten Pontiac Site Plan, June 1966, and
 Google Earth, image dated October 2009

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



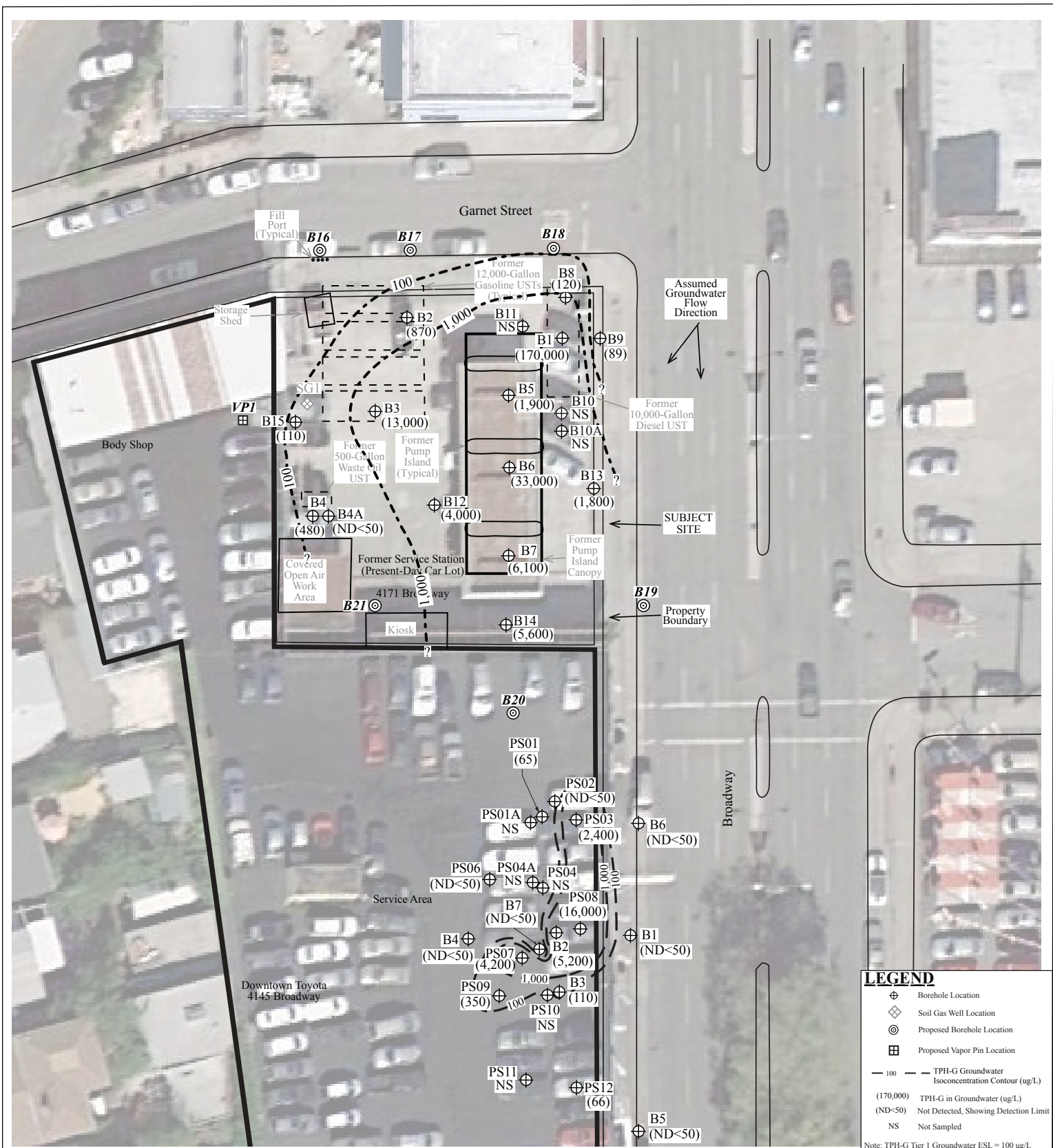
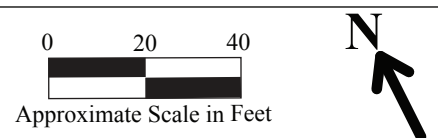


Figure 4
 Site Vicinity Aerial Photograph Showing TPH-G Groundwater Concentrations
 Auto Depot
 4171 Broadway
 Oakland, California

Base Map From:
 Andrew P. Anderson, Architect
 Doten Pontiac Site Plan, June 1966, and
 Google Earth, image dated October 2009

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



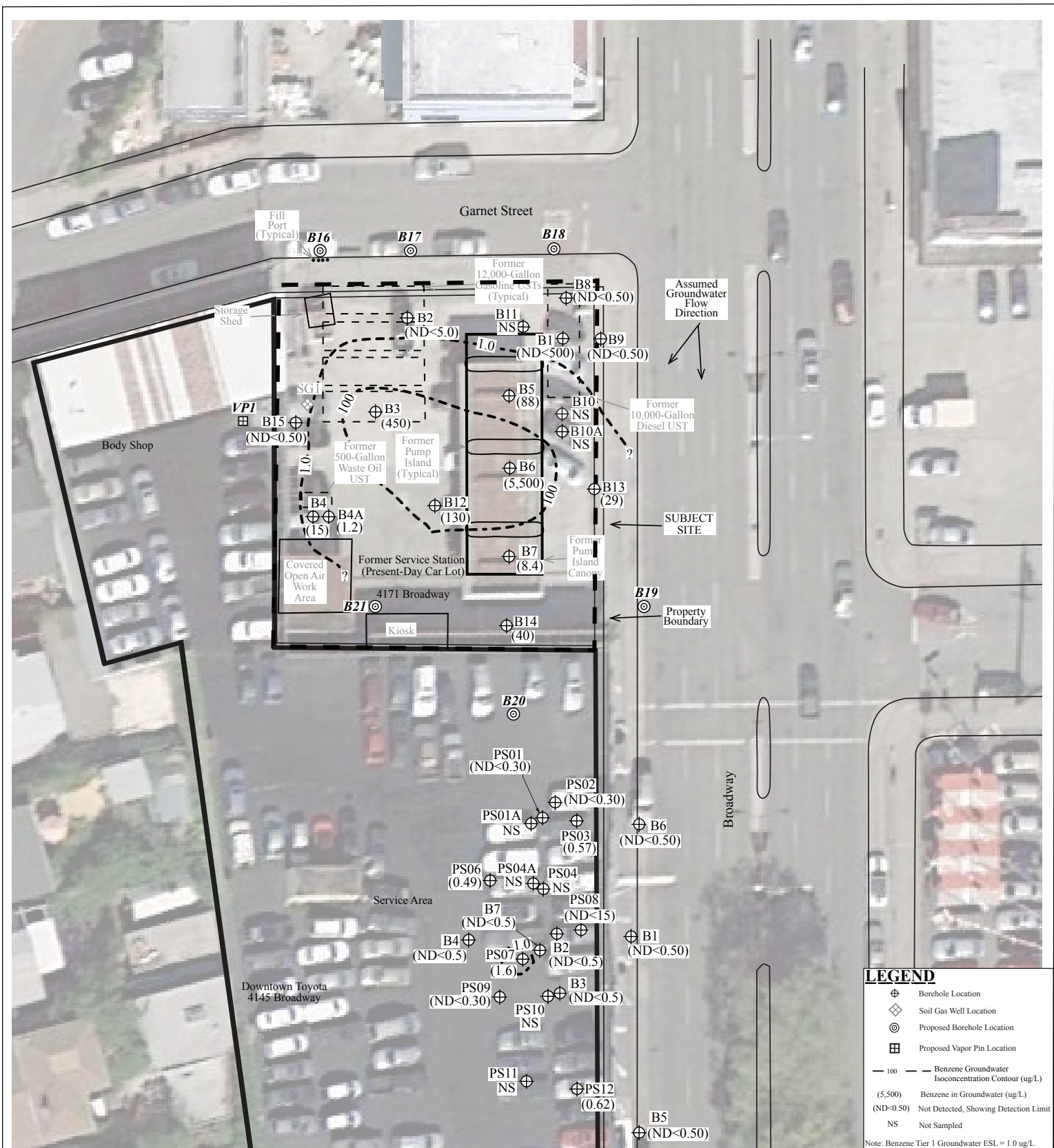
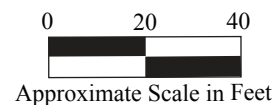


Figure 5
Site Vicinity Aerial Photograph Showing Benzene Groundwater Concentrations
Auto Depot
4171 Broadway
Oakland, California

Base Map From:
 Andrew P. Anderson, Architect
 Doten Pontiac Site Plan, June 1966, and
 Google Earth, image dated October 2009

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



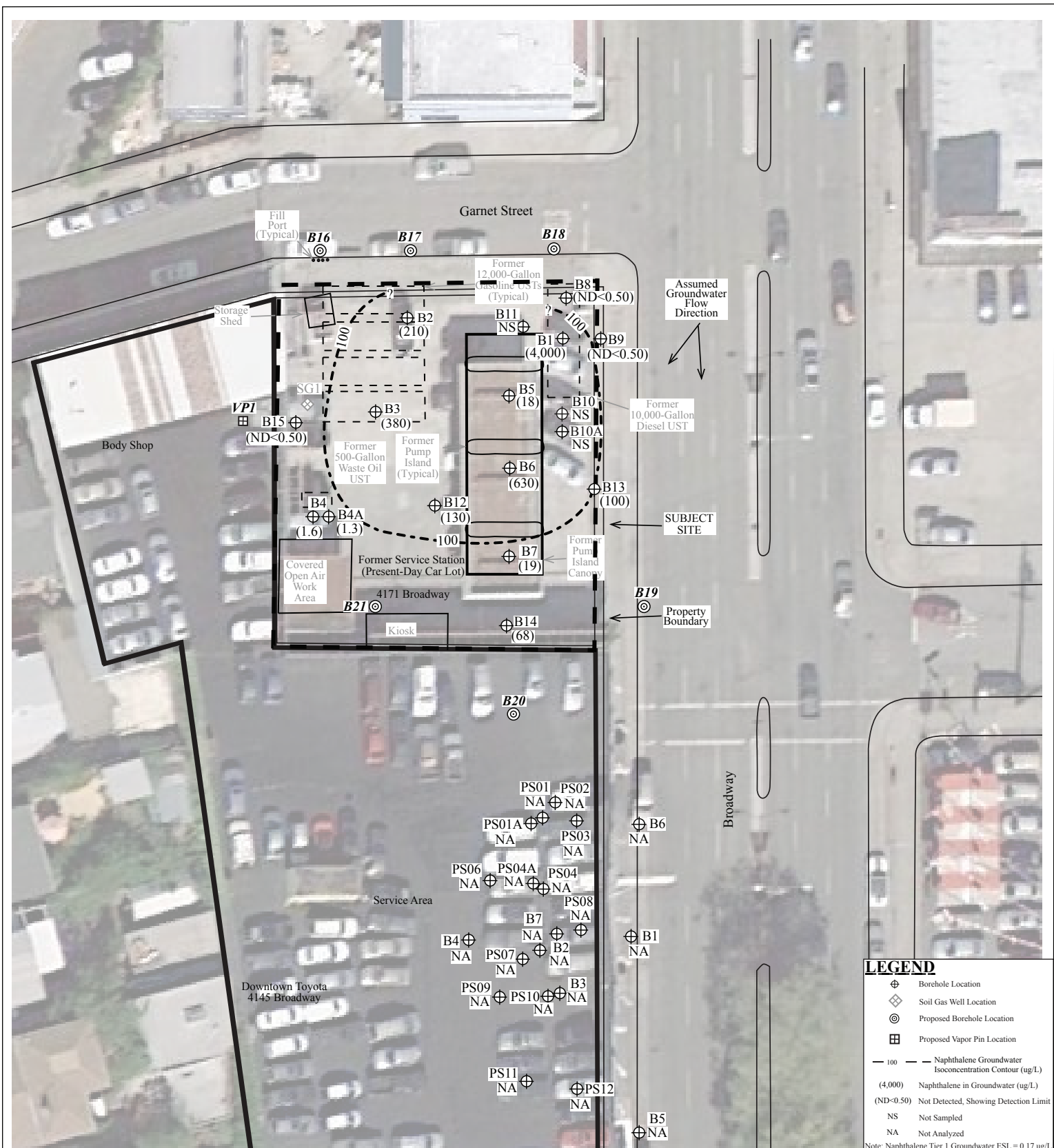
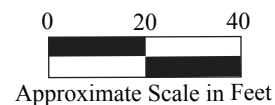


Figure 6
 Site Vicinity Aerial Photograph Showing Naphthalene Groundwater Concentrations
 Auto Depot
 4171 Broadway
 Oakland, California

Base Map From:
 Andrew P. Anderson, Architect
 Doten Pontiac Site Plan, June 1966, and
 Google Earth, image dated October 2009

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



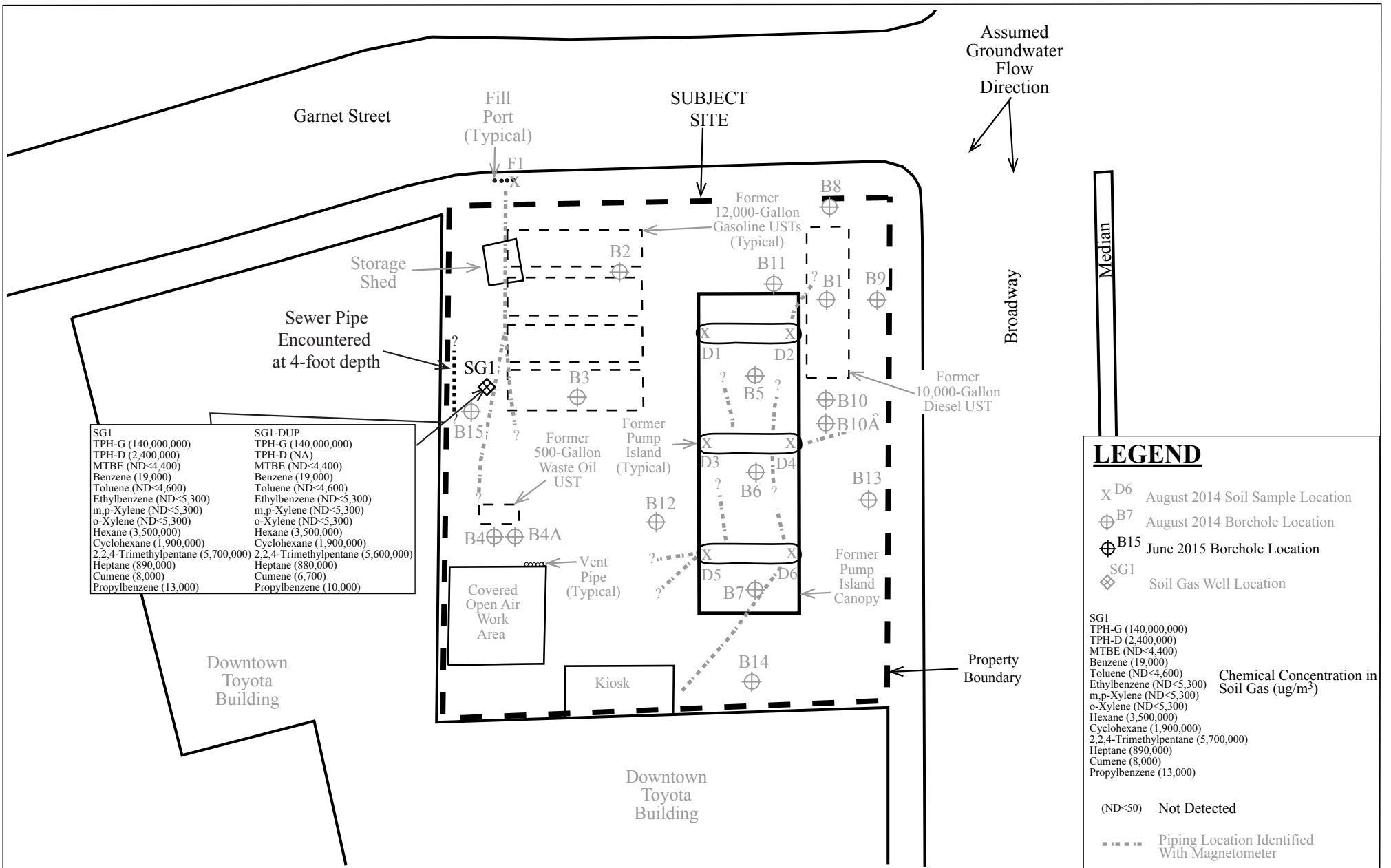


Figure 7
 Site Map Showing Soil Gas Well Location and Petroleum and VOC Concentrations in Soil Gas
 Auto Depot
 4171 Broadway
 Oakland, California

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

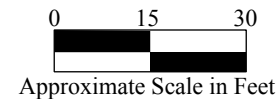




Figure 8
Typical Soil Gas Sampling Manifold
Auto Depot
4171 Broadway
Oakland, California

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

APPENDIX A
Soil Boring Logs

P&D ENVIRONMENTAL, INC.

| BORING NO.: B4A | | PROJECT NO.: 0398 | | PROJECT NAME: Auto Depot/Xtra Oil 4171 Broadway, Oakland | | |
|---|---|---------------------------------|---------------------------|--|-----------------------|--|
| BORING LOCATION: Approximately 42 ft. north and 16 ft. east of southwest corner of property | | | ELEVATION AND DATUM: None | | | |
| DRILLING AGENCY: Vironex, Inc. | | DRILLER: Joel, Jose | | DATE & TIME STARTED: | DATE & TIME FINISHED: | |
| DRILLING EQUIPMENT: Geoprobe 6600 | | | | 06/2/15 0830 | 06/3/15 1515 | |
| COMPLETION DEPTH: 24.0 Feet | | BEDROCK DEPTH: Not Encountered | | LOGGED BY: | CHECKED BY: | |
| FIRST WATER DEPTH: Not Encountered | | NO. OF SAMPLES: 4 Soil, 1 Water | | MLBD | | |
| DEPTH (FT.) | DESCRIPTION | GRAPHIC COLUMN | BLOW COUNT PER 6" | WELL CONSTRUCTION LOG | PID | REMARKS |
| | 0.0 to 0.5 ft. Concrete (4-inches) and base rock. | | | No Well Constructed | 0 | Borehole continuously cored from 0.5 to 24.0 ft. using a 4.0-foot long 2.0-inch O.D. Geoprobe Macrocore barrel sampler. |
| | 0.5 to 4.0 ft. Black silty clay (CL); stiff, moist. Slight Petroleum Hydrocarbon (PHC) odor from 3.5 to 4.0 ft. (0,0,100) | X B4A-3.0 | | | 0.3 | The barrel sampler was lined with a 3.8-foot long 1.5-inch O.D. transparent PVC tube. |
| 5 | 4.0 to 9.5 ft. Dark grayish-brown silty clay (CL); stiff, moist, with few fine sand. Bluish-gray staining and strong PHC odor from 4.0 to 9.5 ft. (0,15,85) | X B4A-4.0 | | | 23.2 | 0.5 to 4.0 ft. 3.2 ft. recovery 4.0 to 8.0 ft. 3.8 ft. recovery 8.0 to 12.0 ft. 3.8 ft. recovery 12.0 to 16.0 ft. 3.8 ft. recovery 16.0 to 20.0 ft. 3.8 ft. recovery 20.0 to 24.0 ft. 3.8 ft. recovery |
| 10 | 9.5 to 17.0 ft. Brown sandy clay (CL); stiff, moist, with some fine to medium sand. Strong PHC odor from 9.5 to 10.0 ft. (0,20,80) | X B4A-9.0 | | | 248 | Expansive clays from 9.5 to 24.0 ft. Water not encountered during drilling. |
| 15 | 17.0 to 24.0 ft. Brown silty clay (CL); hard, moist. No PHC odor. (0,0,100) | X B4A-11.0 | | | 190 | Temporary 1.0-inch diameter slotted PVC casing placed in borehole. Borehole was dry at 0900 and at 1815 on 6/2/15. Borehole temporarily capped with bentonite overnight to allow for recharge. Water level was measured at 22.0 ft. at 0705 on 6/3/15. |
| 20 | | | | | 21 | Borehole was not purged prior to groundwater sample collection. Water sample collected on 6/3/15 using new unused disposable polyethylene tubing attached to a peristaltic pump. Water sample B4A-W collected at 0730 directly from the discharge tubing. No odor or sheen on sample. Borehole dewatered after pumping approximately 80-milliliters. |
| 25 | | | | | 0 | Borehole grouted on 6/3/15 using neat cement grout and a tremie pipe. Mr. Steve Miller with Alameda County Public Works Agency gave verbal authorization to grout the borehole. |
| 30 | | | | | 0 | <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. |


P&D ENVIRONMENTAL, INC.

| BORING NO.: B8 | | PROJECT NO.: 0398 | | PROJECT NAME: Auto Depot/Xtra Oil 4171 Broadway, Oakland | | |
|--|--|---------------------------------|---------------------------|--|-----------------------|---|
| BORING LOCATION: Approximately 2 ft. south and 13 ft. west of northeast corner of property | | | ELEVATION AND DATUM: None | | | |
| DRILLING AGENCY: Vironex, Inc. | | DRILLER: Joel, Jose | | DATE & TIME STARTED: | DATE & TIME FINISHED: | |
| DRILLING EQUIPMENT: Geoprobe 6600 | | | | 06/2/15 0730 | 06/3/15 1345 | |
| COMPLETION DEPTH: 20.0 Feet | | BEDROCK DEPTH: Not Encountered | | LOGGED BY: | CHECKED BY: | |
| FIRST WATER DEPTH: 19.5 Feet | | NO. OF SAMPLES: 4 Soil, 1 Water | | MLBD | | |
| DEPTH (FT.) | DESCRIPTION | GRAPHIC COLUMN | BLOW COUNT PER 6" | WELL CONSTRUCTION LOG | PID | REMARKS |
| | 0.0 to 0.5 ft. Concrete (4-inches) and base rock. | | | No Well Constructed | | |
| | 0.5 to 3.0 ft. Black clay (CL); stiff, moist. No Petroleum Hydrocarbon (PHC) odor. (0,0,100) | | | | 0 | Borehole continuously cored from 0.5 to 20.0 ft. using a 4.0-foot long 2.0-inch O.D. Geoprobe Macrocore barrel sampler. The barrel sampler was lined with a 3.8-foot long 1.5-inch O.D. transparent PVC tube. |
| 5 | 3.0 to 8.5 ft. Dark brown silty clay (CL); stiff, moist, with few fine to medium sand. Slight PHC odor. (0,15,85) | X B8-4.0 CL | | | 1.2 2.5 | 0.5 to 4.0 ft. 3.8 ft. recovery 4.0 to 8.0 ft. 3.8 ft. recovery 8.0 to 12.0 ft. 3.8 ft. recovery 12.0 to 16.0 ft. 3.8 ft. recovery 16.0 to 20.0 ft. 3.8 ft. recovery |
| 10 | 8.5 to 11.5 ft. Brown gravelly clayey sand (SC); dense, moist, with some coarse angular chert to 0.5-inch diameter. Bluish-gray staining and strong PHC odor from 9.0 to 10.5 ft. (25,55,20) | X B8-9.5 SC | | ▼ | 332 64 | Water encountered during drilling at 19.5 ft. at 0750. Temporary 1.0-inch diameter slotted PVC casing placed in borehole. Water level was measured at 15.6 ft. at 0815, and at 9.6 ft. at 0825. |
| 15 | 11.5 to 18.0 ft. Dark grayish-brown sandy clay (CL); stiff, moist, with few fine to medium sand. No PHC odor. (0,15,85) | X B8-11.5 CL | | | 0 | On 6/2/15 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 B8-W collected at 0830 directly from the discharge tubing. No odor or sheen on sample. Water level was subsequently measured at 12.8 ft. at 0913. |
| 20 | 18.0 to 19.8 ft. Brown silty clay (CL); stiff, moist to wet, with black mottling. No PHC odor. (0,0,100) Wet at 19.0 ft. Saturated at 19.5 ft. | X B18-18.5 | | ▽ | 0 | Borehole was monitored for presence of free product on 6/3/15. No free product was observed in the borehole. |
| | 19.8 to 20.0 ft. Brown silty fine sand (SM); loose, saturated. No PHC odor. (0,90,10) | SM | | | | |
| 25 | | | | | | Borehole grouted on 06/3/15 using neat cement grout and a tremie pipe. Mr. Steve Miller with Alameda County Public Works Agency gave verbal authorization to grout the borehole. |
| 30 | | | | | | <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. |

P&D ENVIRONMENTAL, INC.

| BORING NO.: B9 | | PROJECT NO.: 0398 | | PROJECT NAME: Auto Depot/Xtra Oil 4171 Broadway, Oakland | | |
|--|---|---------------------------------|-------------------|--|-----------------------|---|
| BORING LOCATION: Approximately 23 ft. north and 2 ft. west of northeast corner of property | | | | ELEVATION AND DATUM: None | | |
| DRILLING AGENCY: Vironex, Inc. | | DRILLER: Joel, Jose | | DATE & TIME STARTED: | DATE & TIME FINISHED: | |
| DRILLING EQUIPMENT: Geoprobe 6600 | | | | 06/2/15 0930 | 06/3/15 1400 | |
| COMPLETION DEPTH: 20.0 Feet | | BEDROCK DEPTH: Not Encountered | | LOGGED BY: | CHECKED BY: | |
| FIRST WATER DEPTH: 19.5 Feet | | NO. OF SAMPLES: 4 Soil, 1 Water | | MLBD | | |
| DEPTH (FT.) | DESCRIPTION | GRAPHIC COLUMN | BLOW COUNT PER 6" | WELL CONSTRUCTION LOG | PID | REMARKS |
| | 0.0 to 0.5 ft. Concrete (4-inches) and base rock. | | | No Well Constructed | 0 | Borehole continuously cored from 0.5 to 20.0 ft. using a 4.0-foot long 2.0-inch O.D. Geoprobe Macrocore barrel sampler. |
| | 0.5 to 8.0 ft. Black sandy clay (CL); stiff, moist, with few fine to medium sand. No Petroleum Hydrocarbon (PHC) odor. (0,15,85) | | | | 0 | The barrel sampler was lined with a 3.8-foot long 1.5-inch O.D. transparent PVC tube. |
| 5 | 4.0 to 8.0 ft. Color change to dark grayish-brown with bluish-gray staining and strong PHC odor from 7.0 to 8.0 ft. | X B9-4.0 CL | | | 0 6.0 | 0.5 to 4.0 ft. 3.8 ft. recovery 4.0 to 8.0 ft. 3.8 ft. recovery 8.0 to 12.0 ft. 3.8 ft. recovery 12.0 to 16.0 ft. 3.8 ft. recovery 16.0 to 20.0 ft. 3.8 ft. recovery |
| 10 | 8.0 to 12.0 ft. Brown silty fine sand (SM); dense, moist. Moderate PHC odor from 8.0 to 10.0 ft. (0,70,30) | X B9-8.0 SM | | | 72 241 | Expansive clays from 12.0 to 19.5 ft. |
| | 12.0 to 14.0 ft. Brown sandy clay (CL); stiff, moist, with some fine to medium sand. No PHC odor. (0,20,80) | X B9-12.0 | | ▼ | 26 | Water encountered during drilling at 19.5 ft. at 0950. |
| 15 | 14.0 to 19.5 ft. Brown silty clay (CL); hard, moist to wet. No PHC odor. (0,0,100) Wet at 19.0 ft. Saturated at 19.5 ft. | CL | | | 16 | Temporary 1.0-inch diameter slotted PVC casing placed in borehole. Water level was measured at 14.3 ft. at 0955, and at 12.9 ft. at 1005. |
| 20 | 19.5 to 20.0 ft. Brown silty fine sand (SM); loose, saturated. No PHC odor. (0,85,15) | X B9-19.0 SM | | ▼ | 4.0 | On 6/2/15 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 B9-W collected at 1015 directly from the discharge tubing. No odor or sheen on sample. Water level was subsequently measured at 16.4 ft. at 1040. |
| | | | | | 0 | Borehole was monitored for presence of free product on 6/3/15. No free product was observed in the borehole. |
| 25 | | | | | | Borehole grouted on 06/3/15 using neat cement grout and a tremie pipe. Mr. Steve Miller with Alameda County Public Works Agency gave verbal authorization to grout the borehole. |
| 30 | | | | | | <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. |


P&D ENVIRONMENTAL, INC.

| BORING NO.: B10 | | PROJECT NO.: 0398 | | PROJECT NAME: Auto Depot/Xtra Oil 4171 Broadway, Oakland | | |
|---|---|--------------------------------|---------------------------|--|---|--|
| BORING LOCATION: Approximately 46 ft. south and 13 ft. west of northeast corner of property | | | ELEVATION AND DATUM: None | | | |
| DRILLING AGENCY: Vironex, Inc. | | DRILLER: Joel, Jose | | DATE & TIME STARTED: | DATE & TIME FINISHED: | |
| DRILLING EQUIPMENT: Geoprobe 6600 | | | | 06/2/15 1030 | 06/3/15 1410 | |
| COMPLETION DEPTH: 12.0 Feet | | BEDROCK DEPTH: Not Encountered | | LOGGED BY: | CHECKED BY: | |
| FIRST WATER DEPTH: 11.0 Feet | | NO. OF SAMPLES: 3 Soil | | MLBD |  | |
| DEPTH (FT.) | DESCRIPTION | GRAPHIC COLUMN | BLOW COUNT PER 6" | WELL CONSTRUCTION LOG | PID | REMARKS |
| | 0.0 to 0.5 ft. Concrete (4-inches) and base rock. | | | No Well Constructed | 0.4 | Borehole continuously cored from 0.5 to 12.0 ft. using a 4.0-foot long 2.0-inch O.D. Geoprobe Macrocore barrel sampler. |
| | 0.5 to 4.5 ft. Black sandy clay (CL); stiff, moist, with abundant fine to medium sand. Slight Petroleum Hydrocarbon (PHC) odor. (0,35,65) | X B10-3.0 | | | 2.0 8.7 | The barrel sampler was lined with a 3.8-foot long 1.5-inch O.D. transparent PVC tube. |
| 5 | 4.5 to 11.0 ft. Dark brown sandy clay (CL); stiff, moist, with some fine to medium sand. Strong PHC odor from 6.0 to 12.0 ft. (0,20,80) | CL | | | 21 70 | 0.5 to 4.0 ft. 3.4 ft. recovery 4.0 to 8.0 ft. 3.8 ft. recovery 8.0 to 12.0 ft. 3.8 ft. recovery |
| 10 | 9.0 to 11.0 ft. Color change to grayish-brown with bluish-gray staining. Wet at 10.5 ft. Saturated at 11.0 ft. | X B10-7.5 | | ∇ | 289 620 383 342 | Water encountered during drilling at 11.0 ft. at 1053. Temporary 1.0-inch diameter slotted PVC casing placed in borehole. Water level was measured at 8.8 ft. at 1054, and at 7.7 ft. at 1104. |
| | 11.0 to 12.0 ft. Grayish-brown gravelly clayey sand (SC); loose, saturated, with some coarse angular gravel to 1.0-inch diameter, and bluish-gray staining. Strong PHC odor. (15,70,15) | X B10-10.5 | | ∇ | 110 73 52 | Slight sheen and moderate odor observed on the water. No water sample was collected from the borehole. |
| 15 | | | | | | Borehole was monitored for presence of free product on 6/3/15. No free product was observed in the borehole. |
| 20 | | | | | | Borehole grouted on 06/3/15 using neat cement grout and a tremie pipe. Mr. Steve Miller with Alameda County Public Works Agency gave verbal authorization to grout the borehole. |
| 25 | | | | | | <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. |
| 30 | | | | | | |

P&D ENVIRONMENTAL, INC.

| BORING NO.: B10A | | PROJECT NO.: 0398 | | PROJECT NAME: Auto Depot/Xtra Oil 4171 Broadway, Oakland | | |
|---|--|--------------------------------|---------------------------|--|-----------------------|--|
| BORING LOCATION: Approximately 51 ft. south and 13 ft. west of northeast corner of building | | | ELEVATION AND DATUM: None | | | |
| DRILLING AGENCY: Vironex, Inc. | | DRILLER: Joel, Jose | | DATE & TIME STARTED: | DATE & TIME FINISHED: | |
| DRILLING EQUIPMENT: Geoprobe 6600 | | | | 06/2/15 1330 | 06/3/15 1420 | |
| COMPLETION DEPTH: 20.0 Feet | | BEDROCK DEPTH: Not Encountered | | LOGGED BY: | CHECKED BY: | |
| FIRST WATER DEPTH: 19.5 Feet | | NO. OF SAMPLES: 4 Soil | | MLBD | | |
| DEPTH (FT.) | DESCRIPTION | GRAPHIC COLUMN | BLOW COUNT PER 6" | WELL CONSTRUCTION LOG | PID | REMARKS |
| | 0.0 to 0.5 ft. Concrete (4-inches) and base rock. | | | No Well Constructed | 0 | Borehole continuously cored from 0.5 to 12.0 ft. using a 4.0-foot long 2.0-inch O.D. Geoprobe Macrocore barrel sampler. The barrel sampler was lined with a 3.8-foot long 1.5-inch O.D. transparent PVC tube. |
| 5 | 0.5 to 4.5 ft. Black sandy clay (CL); stiff, moist, with few fine to medium sand. No Petroleum Hydrocarbon (PHC) odor. (0,15,85) | X B10A-4.0 | | | 2.0 | 0.5 to 4.0 ft. 3.4 ft. recovery 4.0 to 8.0 ft. 3.8 ft. recovery 8.0 to 12.0 ft. 3.8 ft. recovery |
| 10 | 4.5 to 10.5 ft. Dark brown sandy clay (CL); stiff, moist, with some fine to medium sand. Strong PHC odor from 7.0 to 12.0 ft. (0,20,80) | CL X B10A-8.0 | | ▼ | 7.0 24 481 | Water not encountered after drilling to 12.0 ft. Borehole was dry at 1340 and at 1355. Borehole continuously cored from 12.0 to 20.0 ft. |
| | 10.5 to 12.0 ft. Grayish-brown gravelly clayey sand (SC); medium dense, moist, with some coarse angular gravel to 1.0-inch diameter, and bluish-gray staining. Strong PHC odor. (15,70,15) | SC X B10A-13.0 | | | 473 136 | Expansive clays from 12.0 to 19.5 ft. 12.0 to 16.0 ft. 3.8 ft. recovery 16.0 to 20.0 ft. 3.8 ft. recovery Water encountered during drilling at 19.5 ft. at 1400. Water level was measured at 13.3 ft. at 1415, and at 10.6 ft. at 1425. |
| 15 | 12.0 to 18.0 ft. Brown silty clay (CL); stiff, moist, with some fine to medium sand. No PHC odor. (0,20,80) | CL X B10A-18.0 | | | 0 | Water sample was not collected from borehole. No odor or sheen on water. Borehole was monitored for presence of free product on 6/3/15. No free product was observed in the borehole. |
| 20 | 18.0 to 19.5 ft. Brown silty clay (CL); hard, moist to wet. No PHC odor. (0,0,100) Wet at 19.0 ft. Saturated at 19.5 ft. | X B10A-18.0 | | | 0 | Borehole grouted on 06/3/15 using neat cement grout and a tremie pipe. |
| | 19.5 to 20.0 ft. Brown silty fine sand (SM); loose, saturated. No PHC odor. (0,90,10) | SM | | ▽ | 0 | Mr. Steve Miller with Alameda County Public Works Agency gave verbal authorization to grout the borehole. |
| 25 | | | | | | <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. |
| 30 | | | | | | |

P&D ENVIRONMENTAL, INC.

| BORING NO.: B11 | | PROJECT NO.: 0398 | | PROJECT NAME: Auto Depot/Xtra Oil 4171 Broadway, Oakland | | |
|---|---|--------------------------------|---------------------------|--|---|---|
| BORING LOCATION: Approximately 19 ft. south and 26 ft. west of northeast corner of property | | | ELEVATION AND DATUM: None | | | |
| DRILLING AGENCY: Vironex, Inc. | | DRILLER: Joel, Jose | | DATE & TIME STARTED: | DATE & TIME FINISHED: | |
| DRILLING EQUIPMENT: Geoprobe 6600 | | | | 06/2/15 1100 | 06/3/15 1430 | |
| COMPLETION DEPTH: 20.0 Feet | | BEDROCK DEPTH: Not Encountered | | LOGGED BY: | CHECKED BY: | |
| FIRST WATER DEPTH: 19.5 Feet | | NO. OF SAMPLES: 4 Soil | | MLBD |  | |
| DEPTH (FT.) | DESCRIPTION | GRAPHIC COLUMN | BLOW COUNT PER 6" | WELL CONSTRUCTION LOG | PID | REMARKS |
| | 0.0 to 0.5 ft. Concrete (4-inches) and base rock. | | | No Well Constructed | | |
| | 0.5 to 3.0 ft. Black sandy clay (CL); stiff, moist, with few fine sand. No Petroleum Hydrocarbon (PHC) odor. (0,15,85) | | | | 0 | Borehole continuously cored from 0.5 to 20.0 ft. using a 4.0-foot long 2.0-inch O.D. Geoprobe Macrocore barrel sampler. The barrel sampler was lined with a 3.8-foot long 1.5-inch O.D. transparent PVC tube. |
| 5 | 3.0 to 8.5 ft. Dark brown sandy clay (CL); stiff, moist, with few fine to medium sand. (0,0,100) Bluish-gray staining and strong PHC odor from 8.0 to 8.5 ft. | X B11-4.0 CL | | | 0 2.0 | 0.5 to 4.0 ft. 3.6 ft. recovery 4.0 to 8.0 ft. 3.8 ft. recovery 8.0 to 12.0 ft. 3.8 ft. recovery 12.0 to 16.0 ft. 3.8 ft. recovery 16.0 to 20.0 ft. 3.8 ft. recovery |
| 10 | 8.5 to 11.5 ft. Brown silty clay (CL); stiff, moist, with rootlet holes and bluish-gray staining. Strong PHC odor from 8.5 to 9.0 ft. (0,0,100) | X B11-8.5 X B11-10.0 | | ▼ | 21 240 338 12 8.0 | 21 Expansive clays from 8.0 to 11.0 ft. and from 12.5 to 19.5 ft. 338 Water encountered during drilling at 19.5 ft. at 1300. |
| | 11.5 to 12.5 ft. Light brown silty fine sand (SM); dense, moist, with orange mottling. No PHC odor. (0,80,20) | SM | | | 0 | 0 Temporary 1.0-inch diameter slotted PVC casing placed in borehole. Water level was measured at 16.5 ft. at 1125 and at 9.5 ft. at 1135. |
| 15 | 12.5 to 15.0 ft. Brown sandy clay (CL); medium stiff, moist, with few fine to medium sand, and orange and black mottling. No PHC odor. (0,20,80) | CL | | | 0 | 0 Water sample was not collected from borehole. No odor or sheen on water. |
| | 15.0 to 19.5 ft. Brown silty clay (CL); stiff, moist to saturated, stiff to soft, with black mottling. No PHC odor. (0,0,100) | X B11-18.0 | | | 0 | 0 Borehole was monitored for presence of free product on 6/3/15. No free product was observed in the borehole. |
| 20 | 19.5 to 20.0 ft. Brown silty fine sand (SM); loose, saturated. No PHC odor. (0,85,15) | SM | | ▽ | 0 | 0 Borehole grouted on 06/3/15 using neat cement grout and a tremie pipe. |
| 25 | | | | | | Mr. Steve Miller with Alameda County Public Works Agency gave verbal authorization to grout the borehole. |
| 30 | | | | | | <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. |

P&D ENVIRONMENTAL, INC.

| BORING NO.: B12 | | PROJECT NO.: 0398 | | PROJECT NAME: Auto Depot/Xtra Oil 4171 Broadway, Oakland | | |
|---|--|---------------------------------|---------------------------|--|-----------------------|---|
| BORING LOCATION: Approximately 43 ft. north and 52 ft. west of southeast corner of property | | | ELEVATION AND DATUM: None | | | |
| DRILLING AGENCY: Vironex, Inc. | | DRILLER: Shred, Jose | | DATE & TIME STARTED: | DATE & TIME FINISHED: | |
| DRILLING EQUIPMENT: Geoprobe 6600 | | | | 06/3/15 0830 | 06/3/15 1440 | |
| COMPLETION DEPTH: 22.0 Feet | | BEDROCK DEPTH: Not Encountered | | LOGGED BY: | CHECKED BY: | |
| FIRST WATER DEPTH: 20.0 Feet | | NO. OF SAMPLES: 4 Soil, 1 Water | | MLBD | | |
| DEPTH (FT.) | DESCRIPTION | GRAPHIC COLUMN | BLOW COUNT PER 6" | WELL CONSTRUCTION LOG | PID | REMARKS |
| | 0.0 to 0.5 ft. Concrete (4-inches) and base rock. | | | No Well Constructed | | |
| | 0.5 to 2.0 ft. Dark grayish-brown silty sand (FILL); loose, saturated. No Petroleum Hydrocarbon (PHC) odor. | FILL | | | 0 | Borehole continuously cored from 0.5 to 22.0 ft. using a 5.0-foot long 2.0-inch O.D. Geoprobe Macrocore barrel sampler. |
| | 2.0 to 5.5 ft. Dark brown sandy clay (CL); medium stiff, wet to moist, with few fine to medium sand. Slight to moderate PHC odor. (0,15,85) | X B12-4.0 | | | 10 17 | The barrel sampler was lined with a 4.8-foot long 1.5-inch O.D. transparent PVC tube. |
| 5 | | | | | 28 | 0.5 to 5.0 ft. 4.5 ft. recovery |
| | | | | | 85 | 5.0 to 10.0 ft. 4.8 ft. recovery |
| | | | | | 131 | 10.0 to 15.0 ft. 4.8 ft. recovery |
| | | | | | 92 | 15.0 to 19.0 ft. 3.8 ft. recovery |
| | | | | | | 19.0 to 22.0 ft. 2.8 ft. recovery |
| | | X B12-7.0 | | | 22 | Expansive clays from 8.0 to 20.0 ft. |
| 10 | 5.5 to 20.0 ft. Dark brown silty clay (CL); medium stiff, moist, with bluish-gray staining and strong PHC odor from 5.5 to 7.5 ft. (0,0,100) | CL | | | 17 | Water encountered during drilling at 20.0 ft. at 1045. |
| | | X B12-11.0 | | | 0 | Temporary 1.0-inch diameter slotted PVC casing placed in borehole. Water level was measured at 7.8 ft. at 1047, and at 6.5 ft. at 1057. |
| 15 | | | | | 0 | On 6/3/15 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 B12-W collected at 1130 directly from the discharge tubing. No odor or sheen on sample. Water level was subsequently measured at 8.2 ft. at 1140. |
| | 18.0 to 20.0 ft. Color change to brown with black mottling. Wet at 19.5 ft. Saturated at 20.0 ft. | X B12-19.0 | | | 0 | Borehole grouted on 06/3/15 using neat cement grout and a tremie pipe. |
| 20 | 20.0 to 21.0 ft. Brown clayey fine sand (SC); loose, saturated. No PHC odor. (0,85,15) | SC | | | 0 | Mr. Steve Miller with Alameda County Public Works Agency gave verbal authorization to grout the borehole. |
| | 21.0 to 22.0 ft. Brown silty clay (CL); medium stiff, wet. No PHC odor. (0,0,100) | CL | | | 0 | |
| 25 | | | | | | <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. |
| 30 | | | | | | |

P&D ENVIRONMENTAL, INC.

| BORING NO.: B13 | | PROJECT NO.: 0398 | | PROJECT NAME: Auto Depot/Xtra Oil 4171 Broadway, Oakland | | |
|--|--|---------------------------------|---------------------------|--|---------------------------------|--|
| BORING LOCATION: Approximately 45 ft. north and 3 ft. west of southeast corner of property | | | ELEVATION AND DATUM: None | | | |
| DRILLING AGENCY: Vironex, Inc. | | DRILLER: Joel, Jose | | DATE & TIME STARTED: | DATE & TIME FINISHED: | |
| DRILLING EQUIPMENT: Geoprobe 6600 | | | | 06/2/15 1230 | 06/3/15 1445 | |
| COMPLETION DEPTH: 20.0 Feet | | BEDROCK DEPTH: Not Encountered | | LOGGED BY: | CHECKED BY: | |
| FIRST WATER DEPTH: 19.5 Feet | | NO. OF SAMPLES: 4 Soil, 1 Water | | MLBD | | |
| DEPTH (FT.) | DESCRIPTION | GRAPHIC COLUMN | BLOW COUNT PER 6" | WELL CONSTRUCTION LOG | PID | REMARKS |
| | 0.0 to 0.5 ft. Concrete (4-inches) and base rock. | | | No Well Constructed | 0 | Borehole continuously cored from 0.5 to 20.0 ft. using a 4.0-foot long 2.0-inch O.D. Geoprobe Macrocore barrel sampler. |
| | 0.5 to 8.0 ft. Black sandy clay (CL); stiff, moist, with some fine to medium sand. Slight Petroleum Hydrocarbon (PHC) odor between 2.0 and 7.0 ft. (0,20,80) | | | | 2.0 | The barrel sampler was lined with a 3.8-foot long 1.5-inch O.D. transparent PVC tube. |
| 5 | 4.5 to 8.0 ft. Color change to dark grayish-brown. | X B13-4.0 CL | | | 4.0 7.0 5.0 9.0 246 | 0.5 to 4.0 ft. 3.6 ft. recovery 4.0 to 8.0 ft. 3.8 ft. recovery 8.0 to 12.0 ft. 3.8 ft. recovery 12.0 to 16.0 ft. 3.8 ft. recovery 16.0 to 20.0 ft. 3.8 ft. recovery Expansive clays from 14.0 to 19.5 ft. |
| 10 | 8.0 to 14.0 ft. Brown silty fine sand (SM); dense, moist. Bluish-gray staining and strong PHC odor from 8.0 to 9.0 ft. (0,85,15) | X B13-8.5 X B13-10.0 SM | | ▼ | 426 119 1.9 | Water encountered during drilling at 19.5 ft. at 1300. Temporary 1.0-inch diameter slotted PVC casing placed in borehole. Water level was measured at 11.9 ft. at 1245, and at 10.5 ft. at 1255. |
| 15 | 14.0 to 19.5 ft. Brown silty clay (CL); hard, moist. No PHC odor. (0,0,100) | CL | | | 0 | On 6/2/15 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 B13-W collected at 1315 directly from the discharge tubing. No odor or sheen on sample. Water level was subsequently measured at 12.3 ft. at 1319. |
| 20 | Wet at 19.0 ft. Saturated at 19.5 ft. 19.5 to 20.0 ft. Brown silty fine sand (SM); loose, saturated. No PHC odor. (0,85,15) | X B13-19.0 SM | | ▽ | 0 | Borehole grouted on 06/3/15 using neat cement grout and a tremie pipe. |
| 25 | | | | | | Mr. Steve Miller with Alameda County Public Works Agency gave verbal authorization to grout the borehole. |
| 30 | | | | | | <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. |


P&D ENVIRONMENTAL, INC.

| BORING NO.: B14 | | PROJECT NO.: 0398 | | PROJECT NAME: Auto Depot/Xtra Oil 4171 Broadway, Oakland | | |
|--|---|---------------------------------|---------------------------|--|--|--|
| BORING LOCATION: Approximately 7 ft. north and 30 ft. west of southeast corner of property | | | ELEVATION AND DATUM: None | | | |
| DRILLING AGENCY: Vironex, Inc. | | DRILLER: Shred, Jose | | DATE & TIME STARTED: | DATE & TIME FINISHED: | |
| DRILLING EQUIPMENT: Geoprobe 6600 | | | | 06/3/15 0730 | 06/3/15 1450 | |
| COMPLETION DEPTH: 17.0 Feet | | BEDROCK DEPTH: Not Encountered | | LOGGED BY: | CHECKED BY: | |
| FIRST WATER DEPTH: 16.5 Feet | | NO. OF SAMPLES: 3 Soil, 1 Water | | MLBD | | |
| DEPTH (FT.) | DESCRIPTION | GRAPHIC COLUMN | BLOW COUNT PER 6" | WELL CONSTRUCTION LOG | PID | REMARKS |
| 5 | 0.0 to 0.5 ft. Concrete (4-inches) and base rock. | | | No Well Constructed | 0 | Borehole continuously cored from 0.5 to 17.0 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 2.0 ft. Black sandy clay (CL); stiff, moist, with some fine to medium sand. No Petroleum Hydrocarbon (PHC) odor. (0,20,80) | | | | | |
| | 2.0 to 3.5 ft. Dark brown sandy clay (CL); medium stiff, moist, with few fine to medium sand. No PHC odor. (0,15,85) | | | | | |
| 10 | 3.5 to 12.5 ft. Dark brown silty clay (CL); medium stiff, moist, with bluish-gray staining and strong PHC odor from 8.0 to 13.0 ft. (0,0,100) | X B14-4.0 CL | | ▼ | 0 0 0 | 0.5 to 5.0 ft. 4.6 ft. recovery 5.0 to 10.0 ft. 4.8 ft. recovery 10.0 to 14.0 ft. 3.8 ft. recovery |
| | 9.0 to 12.5 ft. Color change to brown. | X B14-9.0 | | | | |
| 15 | 12.5 to 14.0 ft. Dark grayish-brown gravelly clayey sand (SC); medium dense, moist, with some coarse angular gravel to 1.0-inch diameter, and bluish-gray staining. Slight PHC odor. (20,60,20) | SC | | ▼ | 2.0 21 174 774 577 508 521 | Expansive clays from 8.0 to 12.5 ft. and from 14.0 to 16.5 ft. Water encountered during drilling at 16.5 ft. at 0900. Temporary 1.0-inch diameter slotted PVC casing placed in borehole. Water level was measured at 12.9 ft. at 0903, and at 8.9 ft. at 0913. |
| | 14.0 to 16.5 ft. Brown silty clay (CL); stiff, moist. No PHC odor. (0,0,100) Wet at 16.0 ft. Saturated at 16.5 ft. | X B14-14.0 CL | | | | |
| | 16.5 to 17.0 ft. Brown silty sand (SM); loose, saturated. No PHC odor. (0,85,15) | SM | | | | |
| 20 | | | | | 0 | Borehole grouted on 06/3/15 using neat cement grout and a tremie pipe. |
| 25 | | | | | | Mr. Steve Miller with Alameda County Public Works Agency gave verbal authorization to grout the borehole. |
| 30 | | | | | | <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. |

P&D ENVIRONMENTAL, INC.

| BORING NO.: B15 | | PROJECT NO.: 0398 | | PROJECT NAME: Auto Depot/Xtra Oil 4171 Broadway, Oakland | | |
|--|---|---------------------------------|---------------------------|--|-----------------------|--|
| BORING LOCATION: Approximately 47 ft. south and 5 ft. east of northwest corner of property | | | ELEVATION AND DATUM: None | | | |
| DRILLING AGENCY: Vironex, Inc. | | DRILLER: Shred, Jose | | DATE & TIME STARTED: | DATE & TIME FINISHED: | |
| DRILLING EQUIPMENT: Geoprobe 6600 | | | | 06/3/15 1200 | 06/3/15 1455 | |
| COMPLETION DEPTH: 22.0 Feet | | BEDROCK DEPTH: Not Encountered | | LOGGED BY: | CHECKED BY: | |
| FIRST WATER DEPTH: 21.5 Feet | | NO. OF SAMPLES: 4 Soil, 1 Water | | MLBD | | |
| DEPTH (FT.) | DESCRIPTION | GRAPHIC COLUMN | BLOW COUNT PER 6" | WELL CONSTRUCTION LOG | PID | REMARKS |
| | 0.0 to 0.5 ft. Concrete (4-inches) and base rock. | | | No Well Constructed | | Borehole continuously cored from 0.5 to 22.0 ft. using a 5.0-foot long 2.0-inch O.D. Geoprobe Macrocore barrel sampler. |
| | 0.5 to 2.0 ft. Black sandy clay (CL); medium stiff, moist, with few fine to medium sand. No Petroleum Hydrocarbon (PHC) odor. (0,0,100) | | | | 0 | The barrel sampler was lined with a 4.8-foot long 1.5-inch O.D. transparent PVC tube. |
| 5 | 2.0 to 8.0 ft. Dark brown silty clay (CL); medium stiff, moist. No PHC odor. (0,0,100) | CL | | | 0 | 0.5 to 5.0 ft. 4.2 ft. recovery |
| | 5.5 to 8.0 ft. Color change to dark grayish-brown. | X B15-4.0 | | | 2.0 | 5.0 to 10.0 ft. 4.6 ft. recovery 10.0 to 15.0 ft. 4.8 ft. recovery 15.0 to 19.0 ft. 3.8 ft. recovery 19.0 to 22.0 ft. 2.8 ft. recovery |
| | 8.0 to 8.5 ft. Dark grayish-brown gravelly clayey sand (SC); medium dense, moist, with abundant coarse chert to 1.0-inch diameter. Bluish-gray staining and strong PHC odor from 8.0 to 10.5 ft. (25,60,15) | X SC | | | 139 | Expansive clays from 8.5 to 21.5 ft. Water encountered during drilling at 21.5 ft. at 1245. |
| 10 | 8.5 to 10.5 ft. Dark brown sandy clay (CL); medium stiff, moist, with orange mottling, and some fine to medium sand. Bluish-gray staining and strong PHC. (0,15,85) | X B15-10.0 | | | 63 | Temporary 1.0-inch diameter slotted PVC casing placed in borehole. Water level was measured at 15.2 ft. at 1248, and at 13.5 ft. at 1258. |
| 15 | 10.5 to 21.5 ft. Dark brown silty clay (CL); medium stiff, moist, with black mottling. No PHC odor. (0,0,100) | CL | | | 0 | On 6/3/15 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 B15-W collected at 1300 directly from the discharge tubing. No odor or sheen on sample. Water level was subsequently measured at 14.6 ft. at 1314. |
| | | | | | 0 | Borehole grouted on 06/3/15 using neat cement grout and a tremie pipe. |
| 20 | Wet at 21.0 ft. Saturated at 21.5 ft. | X B15-20.0 | | | 0 | Mr. Steve Miller with Alameda County Public Works Agency gave verbal authorization to grout the borehole. |
| | 21.5 to 22.0 ft. Brown silty fine sand (SM); loose, saturated. No PHC odor. (0,85,15) | SM | | | 0 | |
| 25 | | | | | 0 | <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. |
| 30 | | | | | | |

P&D ENVIRONMENTAL, INC.

| | | | | | |
|--|--|--------------------------------|--|--|---|
| BORING NO.: SG1 | | PROJECT NO.: 0398 | | PROJECT NAME: Auto Depot/Xtra Oil 4171 Broadway, Oakland | |
| BORING LOCATION: Approximately 42 ft. south and 9 ft. east of northwest corner of property | | | | ELEVATION AND DATUM: None | |
| DRILLING AGENCY: Vironex, Inc. | | DRILLER: Shred | | DATE & TIME STARTED: | DATE & TIME FINISHED: |
| DRILLING EQUIPMENT: Geoprobe 6600 | | | | 06/4/15 0815 | 06/4/15 1100 |
| COMPLETION DEPTH: 7.0 Feet | | BEDROCK DEPTH: Not Encountered | | LOGGED BY: | CHECKED BY: |
| FIRST WATER DEPTH: Not Encountered | | NO. OF SAMPLES: None | | MLBD |  |

| DEPTH (FT.) | DESCRIPTION | GRAPHIC COLUMN | BLOW COUNT PER 6" | WELL CONSTRUCTION LOG | PID | REMARKS |
|-------------|--|----------------|-------------------|-----------------------|-----|---|
| | 0.0 to 0.5 ft. Concrete (4-inches) and base rock. | | | No Well Constructed | 0 | Borehole hand augered from 0.5 to 7.0 ft. using a 6.0-inch O.D. hand auger. Permanent soil gas well SG1 was constructed in the borehole on 6/4/2015. |
| | 0.5 to 2.0 ft. Black clay (CL); stiff, moist. No Petroleum Hydrocarbon (PHC) odor. (0,0,100) | | | | 0 | |
| | 2.0 to 7.0 ft. Dark grayish-brown silty clay (CL); stiff, moist, with few coarse angular chert to 0.5-inch diameter, and bluish-gray staining from 3.5 to 4.0 ft. Slight PHC odor. (10,0,90) | CL | | | 1.7 | |
| 5 | 5.0 to 7.0 ft. Color change to dark brown with orange mottling. | | | | 13 | |
| | 6.5 to 7.0 ft. Abundant coarse sand, bluish-gray staining, and strong PHC odor. (10,30,60) | | | | 4.0 | |
| | | | | | 2.0 | |
| | | | | | 14 | Mr. Steve Miller with Alameda County Public Works Agency gave verbal authorization for pouring of the sanitary seal with hydrated bentonite slurry. <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. |
| 10 | | | | | 237 | |
| | | | | | 467 | |
| | | | | | | |
| 15 | | | | | | |
| | | | | | | |
| 20 | | | | | | |
| | | | | | | |
| 25 | | | | | | |
| | | | | | | |
| 30 | | | | | | |

APPENDIX B

Purge Volume Calculations and Soil Gas Sampling Data Sheets

Soil Gas Purge Volume Calculations

One Purge Volume is calculated as the volume of the tubing interior plus the volume of the sand interval of the borehole.

The tubing interior volume is calculated as follows:

V tubing = pi x (r x r) x h, where pi = 3.14, r = 0.187 in./2, and h = 8 ft.

V tubing = 3.14 x (0.0935 x 0.0935) x (8 ft. x 12 in./ft) = 2.64 cubic inches.

The sand interval volume is calculated as follows:

V sand interval = pi x (r x r) x h x porosity, where pi = 3.14, r = 6 in./2, h = 24 in., and porosity = 0.35

V sand interval = 3.14 x (3 x 3) x 24 x 0.35 = 237.38 cubic inches.

The total volume for one purge volume is V tubing + V sand interval, where

V total = 2.64 cubic inches + 237.38 cubic inches = 240.02 cubic inches.

To convert to cubic centimeters:

V total = 240.02 cubic inches x 16.39 cubic centimeters/cubic inches = 3933.9 cubic centimeters.

The total volume to be purged is 3 purge volumes.

V purge total = 3933.9 cubic centimeters x 3 = 11802 cubic centimeters.

The flow controller has a nominal flow rate of 150 cubic centimeters per minute.

The purge time is calculated as follows:

T purge = 11802 cubic centimeters/ 150 cubic centimeters per minute = 78.68 minutes.

Converting the purge time to seconds, 78.68 minutes x 60seconds/ minute = 4721 seconds.

Notes:

Yellow hi-lite indicates data entry required.

Blue hi-lite indicates values are calculated or automatically updated.

Sand interval is 2 ft from 5 to 7 ft bgs, filter is at center of sand pack, all bentonite above sand is hydrated.

SOIL GAS SAMPLING DATA SHEET

Address 4171 BROADWAY, OAKLAND

Job # 0398

Date 6/27/2015

Sampler Name JHM

Drilling Company VIRONEX

Probe Method (check one)

PRT

Temp Well

Permanent Well

Vapor Pin

| Soil Gas Location Designation | Probe Depth (Ft.) | Time Probe Installation Completed | Canister # | Sample Canister Initial Vacuum Check (In. Hg) and time | Start leak check vacuum (In. Hg) and time | End leak check vacuum (In. Hg) and time | ADDITIONAL leak check vacuum (In. Hg) and time | Start PURGE time | End PURGE time | Start of tracer gas injection time | Begin sample collection vacuum (In. Hg) and time | End sample collection vacuum (In. Hg) and time | PID value in Teflon tube after sample collection | NOTES |
|-------------------------------|-------------------|-----------------------------------|------------|--|---|---|--|------------------|----------------|------------------------------------|--|--|--|--|
| SG-1 | 6 | 6/4/15 | 37309 | vac 28.5 time 0830 | vac 20.0 time 0955 | vac 15.0 time 1005 | vac 8.00 time 1015 | time 1020.0 | time 1021.20 | time 1029 | vac 30.0 time 1029.30 | vac 5.0 time 1042.36 | ppm 222 time 1108 | DFA 1029 |
| SG-1 DJPL | 6 | | 3041 | vac 29.0 time 0838 | vac 20.0 time 0955 | vac 15.0 time 1005 | vac 8.00 time 1015 | time 1020.0 | time 1021.20 | time 1029 | vac 30.0 time 1029.30 | vac 5.0 time 1042.36 | ppm time | 2-PROPANE 1047 |
| SG | | | | vac time | vac time | vac time | vac time | time | time | time | vac time | vac time | ppm time | |
| SG | | | | vac time | vac time | vac time | vac time | time | time | time | vac time | vac time | ppm time | PURGE VOLUME 300 CC FOR 1 MIN, 20 SEC. |
| SG | | | | vac time | vac time | vac time | vac time | time | time | time | vac time | vac time | ppm time | SORBENT SAMPLE 15 100CC 40 SEC. |
| SG | | | | vac time | vac time | vac time | vac time | time | time | time | vac time | vac time | ppm time | |
| SG | | | | vac time | vac time | vac time | vac time | time | time | time | vac time | vac time | ppm time | |
| SG | | | | vac time | vac time | vac time | vac time | time | time | time | vac time | vac time | ppm time | |
| SG | | | | vac time | vac time | vac time | vac time | time | time | time | vac time | vac time | ppm time | |
| SG | | | | vac time | vac time | vac time | vac time | time | time | time | vac time | vac time | ppm time | |
| SG | | | | vac time | vac time | vac time | vac time | time | time | time | vac time | vac time | ppm time | |

APPENDIX C

Waste Disposal Documentation

NON-HAZARDOUS WASTE MANIFEST

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

| | | | | | |
|---|--|--|---|--|--------------------|
| NON-HAZARDOUS WASTE MANIFEST | | 1. Generator's US EPA ID No. | | Manifest Document No. 061615 | 2. Page 1 of 1 |
| 3. Generator's Name and Mailing Address Xtra Oil 4171 Broadway Oakland, CA | | 4. Generator's Phone () | | | |
| 5. Transporter 1 Company Name Big Sky Enterprises | | 6. US EPA ID Number | | A. State Transporter's ID | |
| 7. Transporter 2 Company Name | | 8. US EPA ID Number | | B. Transporter 1 Phone 800 479-7993 | |
| 9. Designated Facility Name and Site Address Big Sky Enterprises 401 W. Channel Palo Alto CA 94300 | | 10. US EPA ID Number CA600301635 | | C. State Transporter's ID | |
| | | | | D. Transporter 2 Phone | |
| | | | | E. State Facility's ID | |
| | | | | F. Facility's Phone 800 479-7993 | |
| 11. WASTE DESCRIPTION | | | Containers | | 13. Total Quantity |
| | | | No. | Type | 14. Unit Wt./Vol. |
| a. Soil | | | 201 | DM | 200 |
| b. Purge water | | | 201 | DF | 4 |
| c. | | | | | |
| d. | | | | | |
| G. Additional Descriptions for Materials Listed Above Wear PPE | | | H. Handling Codes for Wastes Listed Above | | |
| 15. Special Handling Instructions and Additional Information Material will be binned for disposal at Potrero Hills Landfill. | | | | | |
| 16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations. | | | | | |
| Printed/Typed Name Jeff Rhoads | | | | Signature <i>[Signature]</i> | |
| Date 06/16/15 | | | | | |
| 17. Transporter 1 Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Jeff Rhoads | | | | Signature <i>[Signature]</i> | |
| Date 06/16/15 | | | | | |
| 18. Transporter 2 Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| Date | | | | | |
| 19. Discrepancy Indication Space | | | | | |
| 20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19. | | | | | |
| Printed/Typed Name Jeff Rhoads | | | | Signature <i>[Signature]</i> | |
| Date 06/16/15 | | | | | |

GENERATOR

NON-HAZARDOUS WASTE

TRANSPORTER

FACILITY

APPENDIX D

Weather Information

http://www.wunderground.com/personal-weather-station/dashboard?ID=KCAOAKLA11#history/tdata/s20150608/e20150714/mcustom

About This Weather Station

Weather Station ID: KCAOAKLA11
Station Name: Upper Temescal
Madis ID: D3169
Latitude / Longitude: N 37 ° 49 ' 54 " , W 122 ° 14 ' 59 "
Elevation: 176
City: Oakland
State: CA
Hardware: Davis Vantage Pro2 (Cabled)
Software: WeatherDisplay:10.37

June 8, 2015 - July 14, 2015

| 2015 | Temperature | | | Dew Point | | | Humidity | | | Speed | | | Pressure | | | Precip. Rate. |
|------|-------------|---------|---------|-----------|---------|---------|----------|------|------|--------|-------|--------|----------|----------|----------|---------------|
| | High | Avg | Low | High | Avg | Low | High | Avg | Low | High | Avg | Gust | High | Avg | Low | Sum |
| 8 | 84.4 °F | 66.7 °F | 55.7 °F | 63.5 °F | 58 °F | 53.8 °F | 96 % | 76 % | 47 % | 0 mph | 0 mph | 0 mph | 29.89 in | 29.83 in | 29.76 in | 0 in |
| 9 | 80.2 °F | 63.3 °F | 54.9 °F | 62.3 °F | 57.3 °F | 53.6 °F | 97 % | 82 % | 49 % | 0 mph | 0 mph | 0 mph | 29.93 in | 29.86 in | 29.8 in | 0 in |
| 10 | 67.3 °F | 63 °F | 58.4 °F | 66.3 °F | 60.5 °F | 56.9 °F | 97 % | 92 % | 83 % | 0 mph | 0 mph | 0 mph | 29.93 in | 29.9 in | 29.87 in | 0.22 in |
| 11 | 73.4 °F | 61.6 °F | 56.4 °F | 63.7 °F | 58 °F | 54.9 °F | 98 % | 89 % | 66 % | 0 mph | 0 mph | 0 mph | 29.92 in | 29.88 in | 29.83 in | 0 in |
| 12 | 74.1 °F | 63.6 °F | 55 °F | 62.3 °F | 57.9 °F | 54.1 °F | 97 % | 83 % | 61 % | 0 mph | 0 mph | 0 mph | 29.86 in | 29.81 in | 29.76 in | 0 in |
| 13 | 69.3 °F | 61.4 °F | 56.7 °F | 60.1 °F | 57.1 °F | 53.6 °F | 95 % | 86 % | 72 % | 0 mph | 0 mph | 0 mph | 29.8 in | 29.78 in | 29.76 in | 0 in |
| 14 | 66.2 °F | 58.9 °F | 54.2 °F | 56.2 °F | 53.3 °F | 50.8 °F | 91 % | 82 % | 67 % | 0 mph | 0 mph | 0 mph | 29.87 in | 29.82 in | 29.76 in | 0 in |
| 15 | 69.5 °F | 58.2 °F | 53.6 °F | 56.8 °F | 53 °F | 50.8 °F | 92 % | 83 % | 63 % | 0 mph | 0 mph | 0 mph | 29.96 in | 29.9 in | 29.85 in | 0 in |
| 16 | 71.3 °F | 59.3 °F | 54.4 °F | 59.6 °F | 53.7 °F | 51 °F | 92 % | 83 % | 61 % | 10 mph | 0 mph | 10 mph | 29.98 in | 29.94 in | 29.91 in | 0 in |
| 17 | 71.5 °F | 60 °F | 53.5 °F | 58.5 °F | 53.9 °F | 50.7 °F | 92 % | 81 % | 62 % | 4 mph | 0 mph | 4 mph | 29.95 in | 29.92 in | 29.9 in | 0 in |
| 18 | 75.5 °F | 60.8 °F | 52.5 °F | 57.3 °F | 53.1 °F | 50.4 °F | 94 % | 78 % | 51 % | 4 mph | 1 mph | 4 mph | 30.02 in | 29.98 in | 29.93 in | 0 in |
| 19 | 76.3 °F | 61.6 °F | 51.6 °F | 57.8 °F | 53.5 °F | 49.8 °F | 94 % | 77 % | 50 % | 4 mph | 0 mph | 4 mph | 30.01 in | 29.98 in | 29.94 in | 0 in |
| 20 | 72.5 °F | 61 °F | 53.2 °F | 59.8 °F | 54.8 °F | 51 °F | 94 % | 81 % | 61 % | 4 mph | 1 mph | 4 mph | 29.94 in | 29.91 in | 29.87 in | 0 in |
| 21 | 71 °F | 60 °F | 55.2 °F | 56.3 °F | 53.6 °F | 52.1 °F | 93 % | 80 % | 61 % | 5 mph | 1 mph | 5 mph | 30.05 in | 29.96 in | 29.87 in | 0 in |
| 22 | 70.6 °F | 59.6 °F | 54.3 °F | 57.5 °F | 53.9 °F | 51.1 °F | 92 % | 82 % | 61 % | 4 mph | 1 mph | 4 mph | 30.08 in | 30.04 in | 30 in | 0 in |
| 23 | 78.2 °F | 62.8 °F | 53.2 °F | 59.4 °F | 54.2 °F | 50.8 °F | 93 % | 75 % | 50 % | 6 mph | 1 mph | 6 mph | 30.03 in | 29.98 in | 29.92 in | 0 in |
| 24 | 77.5 °F | 63.1 °F | 54.7 °F | 58.7 °F | 54.6 °F | 51.6 °F | 92 % | 75 % | 51 % | 6 mph | 1 mph | 6 mph | 29.97 in | 29.92 in | 29.88 in | 0 in |
| 25 | 76 °F | 64.4 °F | 55.9 °F | 62.1 °F | 56.9 °F | 52.4 °F | 90 % | 78 % | 61 % | 5 mph | 1 mph | 5 mph | 29.92 in | 29.9 in | 29.87 in | 0 in |
| 26 | 70.4 °F | 62 °F | 58.4 °F | 60.8 °F | 57.6 °F | 55.7 °F | 95 % | 86 % | 71 % | 7 mph | 3 mph | 7 mph | 29.98 in | 29.93 in | 29.89 in | 0 in |
| 27 | 72.3 °F | 63 °F | 58.2 °F | 61.6 °F | 58.1 °F | 55.6 °F | 92 % | 84 % | 67 % | 6 mph | 3 mph | 6 mph | 30.02 in | 29.99 in | 29.95 in | 0 in |
| 28 | 70.2 °F | 63.3 °F | 59 °F | 61.6 °F | 58.8 °F | 56.7 °F | 93 % | 85 % | 70 % | 9 mph | 2 mph | 9 mph | 30.03 in | 29.99 in | 29.95 in | 0 in |
| 29 | 81 °F | 65.6 °F | 56.7 °F | 62.9 °F | 57.9 °F | 54.6 °F | 93 % | 78 % | 51 % | 4 mph | 1 mph | 4 mph | 30.03 in | 29.97 in | 29.91 in | 0 in |
| 30 | 82.8 °F | 64.7 °F | 56.2 °F | 64.5 °F | 58.3 °F | 54.8 °F | 96 % | 82 % | 47 % | 1 mph | 0 mph | 0 mph | 29.93 in | 29.88 in | 29.83 in | 0 in |
| 2015 | Temperature | | | Dew Point | | | Humidity | | | Speed | | | Pressure | | | Precip. Rate. |
| Jul | High | Avg | Low | High | Avg | Low | High | Avg | Low | High | Avg | Gust | High | Avg | Low | Sum |
| 1 | 71.7 °F | 64.4 °F | 57.7 °F | 62.1 °F | 58.7 °F | 56.2 °F | 96 % | 82 % | 66 % | 7 mph | 1 mph | 7 mph | 29.94 in | 29.88 in | 29.82 in | 0 in |
| 2 | 67.8 °F | 62.3 °F | 59 °F | 61.5 °F | 59.1 °F | 57.3 °F | 95 % | 90 % | 79 % | 5 mph | 2 mph | 5 mph | 29.98 in | 29.92 in | 29.87 in | 0.01 in |
| 3 | 73 °F | 63.9 °F | 59 °F | 62.6 °F | 59.5 °F | 57.6 °F | 95 % | 86 % | 68 % | 2 mph | 0 mph | 2 mph | 29.97 in | 29.92 in | 29.88 in | 0 in |
| 4 | 73.5 °F | 64.1 °F | 59 °F | 63.4 °F | 59.6 °F | 57 °F | 95 % | 86 % | 69 % | 1 mph | 0 mph | 0 mph | 29.9 in | 29.88 in | 29.85 in | 0 in |
| 5 | 71.5 °F | 63.7 °F | 59.8 °F | 62.5 °F | 59.4 °F | 57.6 °F | 94 % | 86 % | 72 % | 9 mph | 1 mph | 9 mph | 30.01 in | 29.95 in | 29.89 in | 0 in |
| 6 | 74.1 °F | 64.5 °F | 59 °F | 61.1 °F | 58.8 °F | 56.8 °F | 95 % | 82 % | 61 % | 7 mph | 1 mph | 7 mph | 30.1 in | 30.03 in | 29.97 in | 0 in |
| 7 | 74.8 °F | 65.5 °F | 60.4 °F | 63 °F | 59.9 °F | 57.6 °F | 93 % | 83 % | 65 % | 6 mph | 1 mph | 6 mph | 30.04 in | 29.98 in | 29.91 in | 0 in |
| 8 | 66.1 °F | 61.4 °F | 59 °F | 59.5 °F | 57.3 °F | 55.4 °F | 91 % | 86 % | 78 % | 7 mph | 1 mph | 7 mph | 29.91 in | 29.87 in | 29.83 in | 0 in |
| 9 | 66.2 °F | 60.8 °F | 58.2 °F | 60.4 °F | 58.2 °F | 56.6 °F | 98 % | 91 % | 81 % | 4 mph | 1 mph | 4 mph | 29.91 in | 29.86 in | 29.82 in | 0.09 in |
| 10 | 73 °F | 62.9 °F | 59 °F | 61.4 °F | 58.7 °F | 57.3 °F | 96 % | 87 % | 65 % | 6 mph | 1 mph | 6 mph | 29.97 in | 29.93 in | 29.89 in | 0.02 in |
| 11 | 74.4 °F | 65 °F | 59 °F | 60 °F | 57.8 °F | 56.1 °F | 94 % | 79 % | 58 % | 6 mph | 2 mph | 6 mph | 30 in | 29.96 in | 29.92 in | 0 in |
| 12 | 73.7 °F | 65.3 °F | 61.1 °F | 67.9 °F | 59.4 °F | 57.1 °F | 97 % | 82 % | 60 % | 10 mph | 2 mph | 10 mph | 30.06 in | 30.02 in | 29.99 in | 0.01 in |
| 13 | 80.9 °F | 68.1 °F | 61.6 °F | 64.3 °F | 60.7 °F | 58.6 °F | 90 % | 78 % | 56 % | 4 mph | 1 mph | 4 mph | 30.03 in | 29.98 in | 29.92 in | 0 in |
| 14 | 76.3 °F | 67.7 °F | 59.4 °F | 63 °F | 59.1 °F | 57.6 °F | 94 % | 86 % | 61 % | 5 mph | 0 mph | 5 mph | 29.94 in | 29.92 in | 29.89 in | 0 in |

APPENDIX E

Laboratory Analytical Reports and Chain of Custody Documentation

- **McC Campbell Work Order # 1506217: Soil Samples Collected from Boreholes B4A and B8 Through B15 Results**
- **McC Campbell Work Order # 1506230: Groundwater Samples Collected from Boreholes B4A, B8, B9, and B12 Through B15 Results**
- **Air Toxics Work Order # 1506420: Soil Gas Samples SG1 and SG1-DUP TO15 Results**
- **Air Toxics Work Order # 1506395: Soil Gas Samples SG1 and SG1-DUP TO17 Results**
- **Air Toxics Work Order # 1506394: Sample Shroud Samples SG1-DFA and SG1-2-Propanol TO15 Results**
- **Air Toxics Work Order # 1507084B: Soil Gas Sample SG1 ASTM D-1946 Results**
- **Air Toxics Work Order # 1507084A: Soil Gas Sample SG1 TO15 DFA Results**
- **Air Toxics Work Order # 1507077: Sample Shroud Samples SG1-DFA and SG1-2-Propanol TO15 Results**



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1506217

Report Created for: P & D Environmental

55 Santa Clara, Ste.240
Oakland, CA 94610

Project Contact: Michael Deschenes

Project P.O.:

Project Name: #0398; Auto Depot 4171 Broadway Oakland

Project Received: 06/04/2015

Analytical Report reviewed & approved for release on 06/11/2015 by:

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.





Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
WorkOrder: 1506217

Glossary Abbreviation

| | |
|--------------|--|
| 95% Interval | 95% Confident Interval |
| DF | Dilution Factor |
| DI WET | (DISTLC) Waste Extraction Test using DI water |
| DISS | Dissolved (direct analysis of 0.45 µm filtered and acidified water sample) |
| 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 |
| N/A | Not Applicable |
| ND | Not detected at or above the indicated MDL or RL |
| NR | Data Not Reported due to matrix interference or insufficient sample amount. |
| 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 |
| SPLP | Synthetic Precipitation Leachate Procedure |
| TCLP | Toxicity Characteristic Leachate Procedure |
| TEQ | Toxicity Equivalents |
| WET (STLC) | Waste Extraction Test (Soluble Threshold Limit Concentration) |



Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
WorkOrder: 1506217

Analytical Qualifiers

| | |
|--------|--|
| S | spike recovery outside accepted recovery limits |
| a3 | sample diluted due to high organic content. |
| c2 | surrogate recovery outside of the control limits due to matrix interference. |
| c4 | surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram. |
| c7 | Surrogate value diluted out of range |
| 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 |
| e2 | diesel range compounds are significant; no recognizable pattern |
| e4 | gasoline range compounds are significant. |
| e7 | oil range compounds are significant |
| e8 | kerosene/kerosene range/jet fuel range |
| e11/e4 | stoddard solvent/mineral spirit (?); and/or gasoline range compounds are significant. |
| e11 | stoddard solvent/mineral spirit (?) |

Quality Control Qualifiers

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



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B4A-3.0 | 1506217-001A | Soil | 06/02/2015 08:30 | GC10 | 105841 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| Acetone | ND | 0.10 | 1 | 06/09/2015 16:02 |
| tert-Amyl methyl ether (TAME) | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Benzene | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Bromobenzene | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Bromochloromethane | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Bromodichloromethane | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Bromoform | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Bromomethane | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| 2-Butanone (MEK) | ND | 0.020 | 1 | 06/09/2015 16:02 |
| t-Butyl alcohol (TBA) | ND | 0.050 | 1 | 06/09/2015 16:02 |
| n-Butyl benzene | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| sec-Butyl benzene | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| tert-Butyl benzene | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Carbon Disulfide | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Carbon Tetrachloride | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Chlorobenzene | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Chloroethane | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Chloroform | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Chloromethane | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| 2-Chlorotoluene | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| 4-Chlorotoluene | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Dibromochloromethane | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| 1,2-Dibromo-3-chloropropane | ND | 0.0040 | 1 | 06/09/2015 16:02 |
| 1,2-Dibromoethane (EDB) | ND | 0.0040 | 1 | 06/09/2015 16:02 |
| Dibromomethane | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| 1,2-Dichlorobenzene | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| 1,3-Dichlorobenzene | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| 1,4-Dichlorobenzene | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Dichlorodifluoromethane | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| 1,1-Dichloroethane | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.0040 | 1 | 06/09/2015 16:02 |
| 1,1-Dichloroethene | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| cis-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| trans-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| 1,2-Dichloropropane | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| 1,3-Dichloropropane | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| 2,2-Dichloropropane | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| 1,1-Dichloropropene | ND | 0.0050 | 1 | 06/09/2015 16:02 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B4A-3.0 | 1506217-001A | Soil | 06/02/2015 08:30 | GC10 | 105841 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| trans-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Diisopropyl ether (DIPE) | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Ethylbenzene | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Freon 113 | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Hexachlorobutadiene | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Hexachloroethane | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| 2-Hexanone | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Isopropylbenzene | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| 4-Isopropyl toluene | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Methyl-t-butyl ether (MTBE) | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Methylene chloride | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Naphthalene | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| n-Propyl benzene | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Styrene | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Tetrachloroethene | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Toluene | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| 1,2,3-Trichlorobenzene | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| 1,2,4-Trichlorobenzene | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| 1,1,1-Trichloroethane | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| 1,1,2-Trichloroethane | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Trichloroethene | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Trichlorofluoromethane | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| 1,2,3-Trichloropropane | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Vinyl Chloride | ND | 0.0050 | 1 | 06/09/2015 16:02 |
| Xylenes, Total | ND | 0.0050 | 1 | 06/09/2015 16:02 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B4A-3.0 | 1506217-001A | Soil | 06/02/2015 08:30 | GC10 | 105841 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|---------------|----|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | | |
| Dibromofluoromethane | 82 | 70-130 | | 06/09/2015 16:02 |
| Toluene-d8 | 91 | 70-130 | | 06/09/2015 16:02 |
| 4-BFB | 77 | 70-130 | | 06/09/2015 16:02 |
| Benzene-d6 | 71 | 60-140 | | 06/09/2015 16:02 |
| Ethylbenzene-d10 | 94 | 60-140 | | 06/09/2015 16:02 |
| 1,2-DCB-d4 | 72 | 60-140 | | 06/09/2015 16:02 |

Analyst(s): KBO



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-------------------------------|---------------|----------------|------------------|------------|----------------------|
| B4A-4.0 | 1506217-002A | Soil | 06/02/2015 08:35 | GC16 | 105841 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| Acetone | ND | | 2.0 | 20 | 06/08/2015 13:00 |
| tert-Amyl methyl ether (TAME) | ND | | 0.10 | 20 | 06/08/2015 13:00 |
| Benzene | ND | | 0.10 | 20 | 06/08/2015 13:00 |
| Bromobenzene | ND | | 0.10 | 20 | 06/08/2015 13:00 |
| Bromochloromethane | ND | | 0.10 | 20 | 06/08/2015 13:00 |
| Bromodichloromethane | ND | | 0.10 | 20 | 06/08/2015 13:00 |
| Bromoform | ND | | 0.10 | 20 | 06/08/2015 13:00 |
| Bromomethane | ND | | 0.10 | 20 | 06/08/2015 13:00 |
| 2-Butanone (MEK) | ND | | 0.40 | 20 | 06/08/2015 13:00 |
| t-Butyl alcohol (TBA) | ND | | 1.0 | 20 | 06/08/2015 13:00 |
| n-Butyl benzene | 0.14 | | 0.10 | 20 | 06/08/2015 13:00 |
| sec-Butyl benzene | ND | | 0.10 | 20 | 06/08/2015 13:00 |
| tert-Butyl benzene | ND | | 0.10 | 20 | 06/08/2015 13:00 |
| Carbon Disulfide | ND | | 0.10 | 20 | 06/08/2015 13:00 |
| Carbon Tetrachloride | ND | | 0.10 | 20 | 06/08/2015 13:00 |
| Chlorobenzene | ND | | 0.10 | 20 | 06/08/2015 13:00 |
| Chloroethane | ND | | 0.10 | 20 | 06/08/2015 13:00 |
| Chloroform | ND | | 0.10 | 20 | 06/08/2015 13:00 |
| Chloromethane | ND | | 0.10 | 20 | 06/08/2015 13:00 |
| 2-Chlorotoluene | ND | | 0.10 | 20 | 06/08/2015 13:00 |
| 4-Chlorotoluene | ND | | 0.10 | 20 | 06/08/2015 13:00 |
| Dibromochloromethane | ND | | 0.10 | 20 | 06/08/2015 13:00 |
| 1,2-Dibromo-3-chloropropane | ND | | 0.080 | 20 | 06/08/2015 13:00 |
| 1,2-Dibromoethane (EDB) | ND | | 0.080 | 20 | 06/08/2015 13:00 |
| Dibromomethane | ND | | 0.10 | 20 | 06/08/2015 13:00 |
| 1,2-Dichlorobenzene | ND | | 0.10 | 20 | 06/08/2015 13:00 |
| 1,3-Dichlorobenzene | ND | | 0.10 | 20 | 06/08/2015 13:00 |
| 1,4-Dichlorobenzene | ND | | 0.10 | 20 | 06/08/2015 13:00 |
| Dichlorodifluoromethane | ND | | 0.10 | 20 | 06/08/2015 13:00 |
| 1,1-Dichloroethane | ND | | 0.10 | 20 | 06/08/2015 13:00 |
| 1,2-Dichloroethane (1,2-DCA) | ND | | 0.080 | 20 | 06/08/2015 13:00 |
| 1,1-Dichloroethene | ND | | 0.10 | 20 | 06/08/2015 13:00 |
| cis-1,2-Dichloroethene | ND | | 0.10 | 20 | 06/08/2015 13:00 |
| trans-1,2-Dichloroethene | ND | | 0.10 | 20 | 06/08/2015 13:00 |
| 1,2-Dichloropropane | ND | | 0.10 | 20 | 06/08/2015 13:00 |
| 1,3-Dichloropropane | ND | | 0.10 | 20 | 06/08/2015 13:00 |
| 2,2-Dichloropropane | ND | | 0.10 | 20 | 06/08/2015 13:00 |
| 1,1-Dichloropropene | ND | | 0.10 | 20 | 06/08/2015 13:00 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B4A-4.0 | 1506217-002A | Soil | 06/02/2015 08:35 | GC16 | 105841 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|-------------|------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.10 | 20 | 06/08/2015 13:00 |
| trans-1,3-Dichloropropene | ND | 0.10 | 20 | 06/08/2015 13:00 |
| Diisopropyl ether (DIPE) | ND | 0.10 | 20 | 06/08/2015 13:00 |
| Ethylbenzene | ND | 0.10 | 20 | 06/08/2015 13:00 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.10 | 20 | 06/08/2015 13:00 |
| Freon 113 | ND | 0.10 | 20 | 06/08/2015 13:00 |
| Hexachlorobutadiene | ND | 0.10 | 20 | 06/08/2015 13:00 |
| Hexachloroethane | ND | 0.10 | 20 | 06/08/2015 13:00 |
| 2-Hexanone | ND | 0.10 | 20 | 06/08/2015 13:00 |
| Isopropylbenzene | ND | 0.10 | 20 | 06/08/2015 13:00 |
| 4-Isopropyl toluene | ND | 0.10 | 20 | 06/08/2015 13:00 |
| Methyl-t-butyl ether (MTBE) | ND | 0.10 | 20 | 06/08/2015 13:00 |
| Methylene chloride | ND | 0.10 | 20 | 06/08/2015 13:00 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.10 | 20 | 06/08/2015 13:00 |
| Naphthalene | 0.49 | 0.10 | 20 | 06/08/2015 13:00 |
| n-Propyl benzene | 0.22 | 0.10 | 20 | 06/08/2015 13:00 |
| Styrene | ND | 0.10 | 20 | 06/08/2015 13:00 |
| 1,1,1,2-Tetrachloroethane | ND | 0.10 | 20 | 06/08/2015 13:00 |
| 1,1,2,2-Tetrachloroethane | ND | 0.10 | 20 | 06/08/2015 13:00 |
| Tetrachloroethene | ND | 0.10 | 20 | 06/08/2015 13:00 |
| Toluene | ND | 0.10 | 20 | 06/08/2015 13:00 |
| 1,2,3-Trichlorobenzene | ND | 0.10 | 20 | 06/08/2015 13:00 |
| 1,2,4-Trichlorobenzene | ND | 0.10 | 20 | 06/08/2015 13:00 |
| 1,1,1-Trichloroethane | ND | 0.10 | 20 | 06/08/2015 13:00 |
| 1,1,2-Trichloroethane | ND | 0.10 | 20 | 06/08/2015 13:00 |
| Trichloroethene | ND | 0.10 | 20 | 06/08/2015 13:00 |
| Trichlorofluoromethane | ND | 0.10 | 20 | 06/08/2015 13:00 |
| 1,2,3-Trichloropropane | ND | 0.10 | 20 | 06/08/2015 13:00 |
| 1,2,4-Trimethylbenzene | ND | 0.10 | 20 | 06/08/2015 13:00 |
| 1,3,5-Trimethylbenzene | ND | 0.10 | 20 | 06/08/2015 13:00 |
| Vinyl Chloride | ND | 0.10 | 20 | 06/08/2015 13:00 |
| Xylenes, Total | ND | 0.10 | 20 | 06/08/2015 13:00 |

(Cont.)



Analytical Report

Client: P & D Environmental **WorkOrder:** 1506217
Project: #0398; Auto Depot 4171 Broadway Oakland **Extraction Method:** SW5030B
Date Received: 6/4/15 16:29 **Analytical Method:** SW8260B
Date Prepared: 6/4/15-6/8/15 **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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B4A-4.0 | 1506217-002A | Soil | 06/02/2015 08:35 | GC16 | 105841 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|---------------|----|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | | |
| Dibromofluoromethane | 110 | 70-130 | | 06/08/2015 13:00 |
| Toluene-d8 | 87 | 70-130 | | 06/08/2015 13:00 |
| 4-BFB | 91 | 70-130 | | 06/08/2015 13:00 |
| Benzene-d6 | 101 | 60-140 | | 06/08/2015 13:00 |
| Ethylbenzene-d10 | 108 | 60-140 | | 06/08/2015 13:00 |
| 1,2-DCB-d4 | 121 | 60-140 | | 06/08/2015 13:00 |

Analyst(s): KF



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-------------------------------|---------------|----------------|------------------|------------|----------------------|
| B4A-9.0 | 1506217-003A | Soil | 06/02/2015 08:40 | GC16 | 105841 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| Acetone | ND | | 0.40 | 4 | 06/08/2015 14:32 |
| tert-Amyl methyl ether (TAME) | ND | | 0.020 | 4 | 06/08/2015 14:32 |
| Benzene | ND | | 0.020 | 4 | 06/08/2015 14:32 |
| Bromobenzene | ND | | 0.020 | 4 | 06/08/2015 14:32 |
| Bromochloromethane | ND | | 0.020 | 4 | 06/08/2015 14:32 |
| Bromodichloromethane | ND | | 0.020 | 4 | 06/08/2015 14:32 |
| Bromoform | ND | | 0.020 | 4 | 06/08/2015 14:32 |
| Bromomethane | ND | | 0.020 | 4 | 06/08/2015 14:32 |
| 2-Butanone (MEK) | ND | | 0.080 | 4 | 06/08/2015 14:32 |
| t-Butyl alcohol (TBA) | ND | | 0.20 | 4 | 06/08/2015 14:32 |
| n-Butyl benzene | 0.094 | | 0.020 | 4 | 06/08/2015 14:32 |
| sec-Butyl benzene | ND | | 0.020 | 4 | 06/08/2015 14:32 |
| tert-Butyl benzene | ND | | 0.020 | 4 | 06/08/2015 14:32 |
| Carbon Disulfide | ND | | 0.020 | 4 | 06/08/2015 14:32 |
| Carbon Tetrachloride | ND | | 0.020 | 4 | 06/08/2015 14:32 |
| Chlorobenzene | ND | | 0.020 | 4 | 06/08/2015 14:32 |
| Chloroethane | ND | | 0.020 | 4 | 06/08/2015 14:32 |
| Chloroform | ND | | 0.020 | 4 | 06/08/2015 14:32 |
| Chloromethane | ND | | 0.020 | 4 | 06/08/2015 14:32 |
| 2-Chlorotoluene | ND | | 0.020 | 4 | 06/08/2015 14:32 |
| 4-Chlorotoluene | ND | | 0.020 | 4 | 06/08/2015 14:32 |
| Dibromochloromethane | ND | | 0.020 | 4 | 06/08/2015 14:32 |
| 1,2-Dibromo-3-chloropropane | ND | | 0.016 | 4 | 06/08/2015 14:32 |
| 1,2-Dibromoethane (EDB) | ND | | 0.016 | 4 | 06/08/2015 14:32 |
| Dibromomethane | ND | | 0.020 | 4 | 06/08/2015 14:32 |
| 1,2-Dichlorobenzene | ND | | 0.020 | 4 | 06/08/2015 14:32 |
| 1,3-Dichlorobenzene | ND | | 0.020 | 4 | 06/08/2015 14:32 |
| 1,4-Dichlorobenzene | ND | | 0.020 | 4 | 06/08/2015 14:32 |
| Dichlorodifluoromethane | ND | | 0.020 | 4 | 06/08/2015 14:32 |
| 1,1-Dichloroethane | ND | | 0.020 | 4 | 06/08/2015 14:32 |
| 1,2-Dichloroethane (1,2-DCA) | ND | | 0.016 | 4 | 06/08/2015 14:32 |
| 1,1-Dichloroethene | ND | | 0.020 | 4 | 06/08/2015 14:32 |
| cis-1,2-Dichloroethene | ND | | 0.020 | 4 | 06/08/2015 14:32 |
| trans-1,2-Dichloroethene | ND | | 0.020 | 4 | 06/08/2015 14:32 |
| 1,2-Dichloropropane | ND | | 0.020 | 4 | 06/08/2015 14:32 |
| 1,3-Dichloropropane | ND | | 0.020 | 4 | 06/08/2015 14:32 |
| 2,2-Dichloropropane | ND | | 0.020 | 4 | 06/08/2015 14:32 |
| 1,1-Dichloropropene | ND | | 0.020 | 4 | 06/08/2015 14:32 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B4A-9.0 | 1506217-003A | Soil | 06/02/2015 08:40 | GC16 | 105841 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------------|-------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.020 | 4 | 06/08/2015 14:32 |
| trans-1,3-Dichloropropene | ND | 0.020 | 4 | 06/08/2015 14:32 |
| Diisopropyl ether (DIPE) | ND | 0.020 | 4 | 06/08/2015 14:32 |
| Ethylbenzene | 0.078 | 0.020 | 4 | 06/08/2015 14:32 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.020 | 4 | 06/08/2015 14:32 |
| Freon 113 | ND | 0.020 | 4 | 06/08/2015 14:32 |
| Hexachlorobutadiene | ND | 0.020 | 4 | 06/08/2015 14:32 |
| Hexachloroethane | ND | 0.020 | 4 | 06/08/2015 14:32 |
| 2-Hexanone | ND | 0.020 | 4 | 06/08/2015 14:32 |
| Isopropylbenzene | 0.040 | 0.020 | 4 | 06/08/2015 14:32 |
| 4-Isopropyl toluene | ND | 0.020 | 4 | 06/08/2015 14:32 |
| Methyl-t-butyl ether (MTBE) | ND | 0.020 | 4 | 06/08/2015 14:32 |
| Methylene chloride | ND | 0.020 | 4 | 06/08/2015 14:32 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.020 | 4 | 06/08/2015 14:32 |
| Naphthalene | ND | 0.020 | 4 | 06/08/2015 14:32 |
| n-Propyl benzene | 0.12 | 0.020 | 4 | 06/08/2015 14:32 |
| Styrene | ND | 0.020 | 4 | 06/08/2015 14:32 |
| 1,1,1,2-Tetrachloroethane | ND | 0.020 | 4 | 06/08/2015 14:32 |
| 1,1,2,2-Tetrachloroethane | ND | 0.020 | 4 | 06/08/2015 14:32 |
| Tetrachloroethene | ND | 0.020 | 4 | 06/08/2015 14:32 |
| Toluene | ND | 0.020 | 4 | 06/08/2015 14:32 |
| 1,2,3-Trichlorobenzene | ND | 0.020 | 4 | 06/08/2015 14:32 |
| 1,2,4-Trichlorobenzene | ND | 0.020 | 4 | 06/08/2015 14:32 |
| 1,1,1-Trichloroethane | ND | 0.020 | 4 | 06/08/2015 14:32 |
| 1,1,2-Trichloroethane | ND | 0.020 | 4 | 06/08/2015 14:32 |
| Trichloroethene | ND | 0.020 | 4 | 06/08/2015 14:32 |
| Trichlorofluoromethane | ND | 0.020 | 4 | 06/08/2015 14:32 |
| 1,2,3-Trichloropropane | ND | 0.020 | 4 | 06/08/2015 14:32 |
| 1,2,4-Trimethylbenzene | ND | 0.020 | 4 | 06/08/2015 14:32 |
| 1,3,5-Trimethylbenzene | ND | 0.020 | 4 | 06/08/2015 14:32 |
| Vinyl Chloride | ND | 0.020 | 4 | 06/08/2015 14:32 |
| Xylenes, Total | ND | 0.020 | 4 | 06/08/2015 14:32 |

(Cont.)



Analytical Report

| | |
|---|-----------------------------------|
| Client: P & D Environmental | WorkOrder: 1506217 |
| Project: #0398; Auto Depot 4171 Broadway Oakland | Extraction Method: SW5030B |
| Date Received: 6/4/15 16:29 | Analytical Method: SW8260B |
| Date Prepared: 6/4/15-6/8/15 | 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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B4A-9.0 | 1506217-003A | Soil | 06/02/2015 08:40 | GC16 | 105841 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|--------|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | |
| Dibromofluoromethane | 110 | 70-130 | | 06/08/2015 14:32 |
| Toluene-d8 | 88 | 70-130 | | 06/08/2015 14:32 |
| 4-BFB | 98 | 70-130 | | 06/08/2015 14:32 |
| Benzene-d6 | 92 | 60-140 | | 06/08/2015 14:32 |
| Ethylbenzene-d10 | 98 | 60-140 | | 06/08/2015 14:32 |
| 1,2-DCB-d4 | 102 | 60-140 | | 06/08/2015 14:32 |

Analyst(s): KF



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B4A-11.0 | 1506217-004A | Soil | 06/02/2015 08:45 | GC18 | 105841 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| Acetone | ND | 0.10 | 1 | 06/06/2015 15:04 |
| tert-Amyl methyl ether (TAME) | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Benzene | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Bromobenzene | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Bromochloromethane | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Bromodichloromethane | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Bromoform | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Bromomethane | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| 2-Butanone (MEK) | ND | 0.020 | 1 | 06/06/2015 15:04 |
| t-Butyl alcohol (TBA) | ND | 0.050 | 1 | 06/06/2015 15:04 |
| n-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| sec-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| tert-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Carbon Disulfide | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Carbon Tetrachloride | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Chlorobenzene | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Chloroethane | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Chloroform | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Chloromethane | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| 2-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| 4-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Dibromochloromethane | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| 1,2-Dibromo-3-chloropropane | ND | 0.0040 | 1 | 06/06/2015 15:04 |
| 1,2-Dibromoethane (EDB) | ND | 0.0040 | 1 | 06/06/2015 15:04 |
| Dibromomethane | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| 1,2-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| 1,3-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| 1,4-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Dichlorodifluoromethane | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| 1,1-Dichloroethane | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.0040 | 1 | 06/06/2015 15:04 |
| 1,1-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| cis-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| trans-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| 1,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| 1,3-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| 2,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| 1,1-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 15:04 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B4A-11.0 | 1506217-004A | Soil | 06/02/2015 08:45 | GC18 | 105841 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| trans-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Diisopropyl ether (DIPE) | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Ethylbenzene | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Freon 113 | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Hexachlorobutadiene | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Hexachloroethane | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| 2-Hexanone | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Isopropylbenzene | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| 4-Isopropyl toluene | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Methyl-t-butyl ether (MTBE) | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Methylene chloride | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Naphthalene | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| n-Propyl benzene | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Styrene | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Tetrachloroethene | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Toluene | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| 1,2,3-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| 1,2,4-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| 1,1,1-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| 1,1,2-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Trichloroethene | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Trichlorofluoromethane | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| 1,2,3-Trichloropropane | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Vinyl Chloride | ND | 0.0050 | 1 | 06/06/2015 15:04 |
| Xylenes, Total | ND | 0.0050 | 1 | 06/06/2015 15:04 |

(Cont.)



Analytical Report

| | |
|---|-----------------------------------|
| Client: P & D Environmental | WorkOrder: 1506217 |
| Project: #0398; Auto Depot 4171 Broadway Oakland | Extraction Method: SW5030B |
| Date Received: 6/4/15 16:29 | Analytical Method: SW8260B |
| Date Prepared: 6/4/15-6/8/15 | 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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B4A-11.0 | 1506217-004A | Soil | 06/02/2015 08:45 | GC18 | 105841 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|--------|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | |
| Dibromofluoromethane | 102 | 70-130 | | 06/06/2015 15:04 |
| Toluene-d8 | 99 | 70-130 | | 06/06/2015 15:04 |
| 4-BFB | 101 | 70-130 | | 06/06/2015 15:04 |
| Benzene-d6 | 130 | 60-140 | | 06/06/2015 15:04 |
| Ethylbenzene-d10 | 118 | 60-140 | | 06/06/2015 15:04 |
| 1,2-DCB-d4 | 99 | 60-140 | | 06/06/2015 15:04 |

Analyst(s): KF



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B8-4.0 | 1506217-005A | Soil | 06/02/2015 07:40 | GC18 | 105841 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| Acetone | ND | 0.10 | 1 | 06/06/2015 15:43 |
| tert-Amyl methyl ether (TAME) | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Benzene | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Bromobenzene | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Bromochloromethane | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Bromodichloromethane | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Bromoform | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Bromomethane | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| 2-Butanone (MEK) | ND | 0.020 | 1 | 06/06/2015 15:43 |
| t-Butyl alcohol (TBA) | ND | 0.050 | 1 | 06/06/2015 15:43 |
| n-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| sec-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| tert-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Carbon Disulfide | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Carbon Tetrachloride | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Chlorobenzene | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Chloroethane | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Chloroform | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Chloromethane | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| 2-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| 4-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Dibromochloromethane | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| 1,2-Dibromo-3-chloropropane | ND | 0.0040 | 1 | 06/06/2015 15:43 |
| 1,2-Dibromoethane (EDB) | ND | 0.0040 | 1 | 06/06/2015 15:43 |
| Dibromomethane | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| 1,2-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| 1,3-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| 1,4-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Dichlorodifluoromethane | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| 1,1-Dichloroethane | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.0040 | 1 | 06/06/2015 15:43 |
| 1,1-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| cis-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| trans-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| 1,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| 1,3-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| 2,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| 1,1-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 15:43 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B8-4.0 | 1506217-005A | Soil | 06/02/2015 07:40 | GC18 | 105841 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| trans-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Diisopropyl ether (DIPE) | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Ethylbenzene | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Freon 113 | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Hexachlorobutadiene | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Hexachloroethane | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| 2-Hexanone | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Isopropylbenzene | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| 4-Isopropyl toluene | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Methyl-t-butyl ether (MTBE) | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Methylene chloride | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Naphthalene | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| n-Propyl benzene | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Styrene | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Tetrachloroethene | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Toluene | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| 1,2,3-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| 1,2,4-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| 1,1,1-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| 1,1,2-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Trichloroethene | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Trichlorofluoromethane | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| 1,2,3-Trichloropropane | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Vinyl Chloride | ND | 0.0050 | 1 | 06/06/2015 15:43 |
| Xylenes, Total | ND | 0.0050 | 1 | 06/06/2015 15:43 |

(Cont.)



Analytical Report

Client: P & D Environmental **WorkOrder:** 1506217
Project: #0398; Auto Depot 4171 Broadway Oakland **Extraction Method:** SW5030B
Date Received: 6/4/15 16:29 **Analytical Method:** SW8260B
Date Prepared: 6/4/15-6/8/15 **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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B8-4.0 | 1506217-005A | Soil | 06/02/2015 07:40 | GC18 | 105841 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|---------------|----|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | | |
| Dibromofluoromethane | 102 | 70-130 | | 06/06/2015 15:43 |
| Toluene-d8 | 98 | 70-130 | | 06/06/2015 15:43 |
| 4-BFB | 98 | 70-130 | | 06/06/2015 15:43 |
| Benzene-d6 | 130 | 60-140 | | 06/06/2015 15:43 |
| Ethylbenzene-d10 | 120 | 60-140 | | 06/06/2015 15:43 |
| 1,2-DCB-d4 | 97 | 60-140 | | 06/06/2015 15:43 |

Analyst(s): KF



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B8-9.5 | 1506217-006A | Soil | 06/02/2015 07:48 | GC16 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|-------|----|------------------|
| Acetone | ND | 0.50 | 5 | 06/08/2015 15:18 |
| tert-Amyl methyl ether (TAME) | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Benzene | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Bromobenzene | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Bromochloromethane | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Bromodichloromethane | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Bromoform | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Bromomethane | ND | 0.025 | 5 | 06/08/2015 15:18 |
| 2-Butanone (MEK) | ND | 0.10 | 5 | 06/08/2015 15:18 |
| t-Butyl alcohol (TBA) | ND | 0.25 | 5 | 06/08/2015 15:18 |
| n-Butyl benzene | ND | 0.025 | 5 | 06/08/2015 15:18 |
| sec-Butyl benzene | ND | 0.025 | 5 | 06/08/2015 15:18 |
| tert-Butyl benzene | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Carbon Disulfide | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Carbon Tetrachloride | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Chlorobenzene | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Chloroethane | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Chloroform | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Chloromethane | ND | 0.025 | 5 | 06/08/2015 15:18 |
| 2-Chlorotoluene | ND | 0.025 | 5 | 06/08/2015 15:18 |
| 4-Chlorotoluene | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Dibromochloromethane | ND | 0.025 | 5 | 06/08/2015 15:18 |
| 1,2-Dibromo-3-chloropropane | ND | 0.020 | 5 | 06/08/2015 15:18 |
| 1,2-Dibromoethane (EDB) | ND | 0.020 | 5 | 06/08/2015 15:18 |
| Dibromomethane | ND | 0.025 | 5 | 06/08/2015 15:18 |
| 1,2-Dichlorobenzene | ND | 0.025 | 5 | 06/08/2015 15:18 |
| 1,3-Dichlorobenzene | ND | 0.025 | 5 | 06/08/2015 15:18 |
| 1,4-Dichlorobenzene | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Dichlorodifluoromethane | ND | 0.025 | 5 | 06/08/2015 15:18 |
| 1,1-Dichloroethane | ND | 0.025 | 5 | 06/08/2015 15:18 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.020 | 5 | 06/08/2015 15:18 |
| 1,1-Dichloroethene | ND | 0.025 | 5 | 06/08/2015 15:18 |
| cis-1,2-Dichloroethene | ND | 0.025 | 5 | 06/08/2015 15:18 |
| trans-1,2-Dichloroethene | ND | 0.025 | 5 | 06/08/2015 15:18 |
| 1,2-Dichloropropane | ND | 0.025 | 5 | 06/08/2015 15:18 |
| 1,3-Dichloropropane | ND | 0.025 | 5 | 06/08/2015 15:18 |
| 2,2-Dichloropropane | ND | 0.025 | 5 | 06/08/2015 15:18 |
| 1,1-Dichloropropene | ND | 0.025 | 5 | 06/08/2015 15:18 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B8-9.5 | 1506217-006A | Soil | 06/02/2015 07:48 | GC16 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|-------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.025 | 5 | 06/08/2015 15:18 |
| trans-1,3-Dichloropropene | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Diisopropyl ether (DIPE) | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Ethylbenzene | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Freon 113 | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Hexachlorobutadiene | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Hexachloroethane | ND | 0.025 | 5 | 06/08/2015 15:18 |
| 2-Hexanone | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Isopropylbenzene | ND | 0.025 | 5 | 06/08/2015 15:18 |
| 4-Isopropyl toluene | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Methyl-t-butyl ether (MTBE) | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Methylene chloride | ND | 0.025 | 5 | 06/08/2015 15:18 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Naphthalene | ND | 0.025 | 5 | 06/08/2015 15:18 |
| n-Propyl benzene | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Styrene | ND | 0.025 | 5 | 06/08/2015 15:18 |
| 1,1,1,2-Tetrachloroethane | ND | 0.025 | 5 | 06/08/2015 15:18 |
| 1,1,2,2-Tetrachloroethane | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Tetrachloroethene | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Toluene | ND | 0.025 | 5 | 06/08/2015 15:18 |
| 1,2,3-Trichlorobenzene | ND | 0.025 | 5 | 06/08/2015 15:18 |
| 1,2,4-Trichlorobenzene | ND | 0.025 | 5 | 06/08/2015 15:18 |
| 1,1,1-Trichloroethane | ND | 0.025 | 5 | 06/08/2015 15:18 |
| 1,1,2-Trichloroethane | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Trichloroethene | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Trichlorofluoromethane | ND | 0.025 | 5 | 06/08/2015 15:18 |
| 1,2,3-Trichloropropane | ND | 0.025 | 5 | 06/08/2015 15:18 |
| 1,2,4-Trimethylbenzene | ND | 0.025 | 5 | 06/08/2015 15:18 |
| 1,3,5-Trimethylbenzene | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Vinyl Chloride | ND | 0.025 | 5 | 06/08/2015 15:18 |
| Xylenes, Total | ND | 0.025 | 5 | 06/08/2015 15:18 |

(Cont.)



Analytical Report

| | |
|---|-----------------------------------|
| Client: P & D Environmental | WorkOrder: 1506217 |
| Project: #0398; Auto Depot 4171 Broadway Oakland | Extraction Method: SW5030B |
| Date Received: 6/4/15 16:29 | Analytical Method: SW8260B |
| Date Prepared: 6/4/15-6/8/15 | 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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B8-9.5 | 1506217-006A | Soil | 06/02/2015 07:48 | GC16 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|--------|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | |
| Dibromofluoromethane | 107 | 70-130 | | 06/08/2015 15:18 |
| Toluene-d8 | 87 | 70-130 | | 06/08/2015 15:18 |
| 4-BFB | 109 | 70-130 | | 06/08/2015 15:18 |
| Benzene-d6 | 93 | 60-140 | | 06/08/2015 15:18 |
| Ethylbenzene-d10 | 103 | 60-140 | | 06/08/2015 15:18 |
| 1,2-DCB-d4 | 100 | 60-140 | | 06/08/2015 15:18 |

Analyst(s): KF **Analytical Comments:** a3



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B8-11.5 | 1506217-007A | Soil | 06/02/2015 08:00 | GC18 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| Acetone | ND | 0.10 | 1 | 06/06/2015 16:22 |
| tert-Amyl methyl ether (TAME) | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Benzene | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Bromobenzene | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Bromochloromethane | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Bromodichloromethane | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Bromoform | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Bromomethane | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| 2-Butanone (MEK) | ND | 0.020 | 1 | 06/06/2015 16:22 |
| t-Butyl alcohol (TBA) | ND | 0.050 | 1 | 06/06/2015 16:22 |
| n-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| sec-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| tert-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Carbon Disulfide | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Carbon Tetrachloride | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Chlorobenzene | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Chloroethane | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Chloroform | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Chloromethane | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| 2-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| 4-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Dibromochloromethane | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| 1,2-Dibromo-3-chloropropane | ND | 0.0040 | 1 | 06/06/2015 16:22 |
| 1,2-Dibromoethane (EDB) | ND | 0.0040 | 1 | 06/06/2015 16:22 |
| Dibromomethane | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| 1,2-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| 1,3-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| 1,4-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Dichlorodifluoromethane | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| 1,1-Dichloroethane | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.0040 | 1 | 06/06/2015 16:22 |
| 1,1-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| cis-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| trans-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| 1,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| 1,3-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| 2,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| 1,1-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 16:22 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B8-11.5 | 1506217-007A | Soil | 06/02/2015 08:00 | GC18 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| trans-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Diisopropyl ether (DIPE) | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Ethylbenzene | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Freon 113 | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Hexachlorobutadiene | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Hexachloroethane | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| 2-Hexanone | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Isopropylbenzene | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| 4-Isopropyl toluene | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Methyl-t-butyl ether (MTBE) | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Methylene chloride | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Naphthalene | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| n-Propyl benzene | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Styrene | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Tetrachloroethene | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Toluene | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| 1,2,3-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| 1,2,4-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| 1,1,1-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| 1,1,2-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Trichloroethene | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Trichlorofluoromethane | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| 1,2,3-Trichloropropane | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Vinyl Chloride | ND | 0.0050 | 1 | 06/06/2015 16:22 |
| Xylenes, Total | ND | 0.0050 | 1 | 06/06/2015 16:22 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B8-11.5 | 1506217-007A | Soil | 06/02/2015 08:00 | GC18 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|---------------|----|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | | |
| Dibromofluoromethane | 103 | 70-130 | | 06/06/2015 16:22 |
| Toluene-d8 | 99 | 70-130 | | 06/06/2015 16:22 |
| 4-BFB | 99 | 70-130 | | 06/06/2015 16:22 |
| Benzene-d6 | 129 | 60-140 | | 06/06/2015 16:22 |
| Ethylbenzene-d10 | 115 | 60-140 | | 06/06/2015 16:22 |
| 1,2-DCB-d4 | 95 | 60-140 | | 06/06/2015 16:22 |

Analyst(s): KF



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B8-18.5 | 1506217-008A | Soil | 06/02/2015 07:50 | GC18 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| Acetone | ND | 0.10 | 1 | 06/06/2015 19:02 |
| tert-Amyl methyl ether (TAME) | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Benzene | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Bromobenzene | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Bromochloromethane | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Bromodichloromethane | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Bromoform | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Bromomethane | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| 2-Butanone (MEK) | ND | 0.020 | 1 | 06/06/2015 19:02 |
| t-Butyl alcohol (TBA) | ND | 0.050 | 1 | 06/06/2015 19:02 |
| n-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| sec-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| tert-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Carbon Disulfide | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Carbon Tetrachloride | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Chlorobenzene | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Chloroethane | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Chloroform | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Chloromethane | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| 2-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| 4-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Dibromochloromethane | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| 1,2-Dibromo-3-chloropropane | ND | 0.0040 | 1 | 06/06/2015 19:02 |
| 1,2-Dibromoethane (EDB) | ND | 0.0040 | 1 | 06/06/2015 19:02 |
| Dibromomethane | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| 1,2-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| 1,3-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| 1,4-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Dichlorodifluoromethane | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| 1,1-Dichloroethane | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.0040 | 1 | 06/06/2015 19:02 |
| 1,1-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| cis-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| trans-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| 1,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| 1,3-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| 2,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| 1,1-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 19:02 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B8-18.5 | 1506217-008A | Soil | 06/02/2015 07:50 | GC18 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| trans-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Diisopropyl ether (DIPE) | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Ethylbenzene | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Freon 113 | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Hexachlorobutadiene | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Hexachloroethane | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| 2-Hexanone | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Isopropylbenzene | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| 4-Isopropyl toluene | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Methyl-t-butyl ether (MTBE) | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Methylene chloride | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Naphthalene | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| n-Propyl benzene | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Styrene | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Tetrachloroethene | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Toluene | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| 1,2,3-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| 1,2,4-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| 1,1,1-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| 1,1,2-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Trichloroethene | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Trichlorofluoromethane | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| 1,2,3-Trichloropropane | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Vinyl Chloride | ND | 0.0050 | 1 | 06/06/2015 19:02 |
| Xylenes, Total | ND | 0.0050 | 1 | 06/06/2015 19:02 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B8-18.5 | 1506217-008A | Soil | 06/02/2015 07:50 | GC18 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|---------------|----|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | | |
| Dibromofluoromethane | 102 | 70-130 | | 06/06/2015 19:02 |
| Toluene-d8 | 98 | 70-130 | | 06/06/2015 19:02 |
| 4-BFB | 99 | 70-130 | | 06/06/2015 19:02 |
| Benzene-d6 | 128 | 60-140 | | 06/06/2015 19:02 |
| Ethylbenzene-d10 | 115 | 60-140 | | 06/06/2015 19:02 |
| 1,2-DCB-d4 | 95 | 60-140 | | 06/06/2015 19:02 |

Analyst(s): KF



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B9-4.0 | 1506217-009A | Soil | 06/02/2015 09:35 | GC16 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| Acetone | ND | 0.10 | 1 | 06/06/2015 15:30 |
| tert-Amyl methyl ether (TAME) | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Benzene | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Bromobenzene | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Bromochloromethane | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Bromodichloromethane | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Bromoform | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Bromomethane | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| 2-Butanone (MEK) | ND | 0.020 | 1 | 06/06/2015 15:30 |
| t-Butyl alcohol (TBA) | ND | 0.050 | 1 | 06/06/2015 15:30 |
| n-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| sec-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| tert-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Carbon Disulfide | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Carbon Tetrachloride | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Chlorobenzene | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Chloroethane | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Chloroform | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Chloromethane | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| 2-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| 4-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Dibromochloromethane | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| 1,2-Dibromo-3-chloropropane | ND | 0.0040 | 1 | 06/06/2015 15:30 |
| 1,2-Dibromoethane (EDB) | ND | 0.0040 | 1 | 06/06/2015 15:30 |
| Dibromomethane | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| 1,2-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| 1,3-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| 1,4-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Dichlorodifluoromethane | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| 1,1-Dichloroethane | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.0040 | 1 | 06/06/2015 15:30 |
| 1,1-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| cis-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| trans-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| 1,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| 1,3-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| 2,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| 1,1-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 15:30 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B9-4.0 | 1506217-009A | Soil | 06/02/2015 09:35 | GC16 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| trans-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Diisopropyl ether (DIPE) | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Ethylbenzene | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Freon 113 | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Hexachlorobutadiene | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Hexachloroethane | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| 2-Hexanone | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Isopropylbenzene | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| 4-Isopropyl toluene | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Methyl-t-butyl ether (MTBE) | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Methylene chloride | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Naphthalene | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| n-Propyl benzene | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Styrene | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Tetrachloroethene | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Toluene | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| 1,2,3-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| 1,2,4-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| 1,1,1-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| 1,1,2-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Trichloroethene | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Trichlorofluoromethane | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| 1,2,3-Trichloropropane | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Vinyl Chloride | ND | 0.0050 | 1 | 06/06/2015 15:30 |
| Xylenes, Total | ND | 0.0050 | 1 | 06/06/2015 15:30 |

(Cont.)



Analytical Report

| | |
|---|-----------------------------------|
| Client: P & D Environmental | WorkOrder: 1506217 |
| Project: #0398; Auto Depot 4171 Broadway Oakland | Extraction Method: SW5030B |
| Date Received: 6/4/15 16:29 | Analytical Method: SW8260B |
| Date Prepared: 6/4/15-6/8/15 | 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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B9-4.0 | 1506217-009A | Soil | 06/02/2015 09:35 | GC16 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|--------|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | |
| Dibromofluoromethane | 104 | 70-130 | | 06/06/2015 15:30 |
| Toluene-d8 | 96 | 70-130 | | 06/06/2015 15:30 |
| 4-BFB | 96 | 70-130 | | 06/06/2015 15:30 |
| Benzene-d6 | 83 | 60-140 | | 06/06/2015 15:30 |
| Ethylbenzene-d10 | 87 | 60-140 | | 06/06/2015 15:30 |
| 1,2-DCB-d4 | 91 | 60-140 | | 06/06/2015 15:30 |

Analyst(s): KF



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-------------------------------|---------------|----------------|------------------|------------|----------------------|
| B9-8.0 | 1506217-010A | Soil | 06/02/2015 09:40 | GC10 | 105879 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| Acetone | ND | | 4.0 | 40 | 06/09/2015 17:24 |
| tert-Amyl methyl ether (TAME) | ND | | 0.20 | 40 | 06/09/2015 17:24 |
| Benzene | ND | | 0.20 | 40 | 06/09/2015 17:24 |
| Bromobenzene | ND | | 0.20 | 40 | 06/09/2015 17:24 |
| Bromochloromethane | ND | | 0.20 | 40 | 06/09/2015 17:24 |
| Bromodichloromethane | ND | | 0.20 | 40 | 06/09/2015 17:24 |
| Bromoform | ND | | 0.20 | 40 | 06/09/2015 17:24 |
| Bromomethane | ND | | 0.20 | 40 | 06/09/2015 17:24 |
| 2-Butanone (MEK) | ND | | 0.80 | 40 | 06/09/2015 17:24 |
| t-Butyl alcohol (TBA) | ND | | 2.0 | 40 | 06/09/2015 17:24 |
| n-Butyl benzene | 2.2 | | 0.20 | 40 | 06/09/2015 17:24 |
| sec-Butyl benzene | 0.57 | | 0.20 | 40 | 06/09/2015 17:24 |
| tert-Butyl benzene | ND | | 0.20 | 40 | 06/09/2015 17:24 |
| Carbon Disulfide | ND | | 0.20 | 40 | 06/09/2015 17:24 |
| Carbon Tetrachloride | ND | | 0.20 | 40 | 06/09/2015 17:24 |
| Chlorobenzene | ND | | 0.20 | 40 | 06/09/2015 17:24 |
| Chloroethane | ND | | 0.20 | 40 | 06/09/2015 17:24 |
| Chloroform | ND | | 0.20 | 40 | 06/09/2015 17:24 |
| Chloromethane | ND | | 0.20 | 40 | 06/09/2015 17:24 |
| 2-Chlorotoluene | ND | | 0.20 | 40 | 06/09/2015 17:24 |
| 4-Chlorotoluene | ND | | 0.20 | 40 | 06/09/2015 17:24 |
| Dibromochloromethane | ND | | 0.20 | 40 | 06/09/2015 17:24 |
| 1,2-Dibromo-3-chloropropane | ND | | 0.16 | 40 | 06/09/2015 17:24 |
| 1,2-Dibromoethane (EDB) | ND | | 0.16 | 40 | 06/09/2015 17:24 |
| Dibromomethane | ND | | 0.20 | 40 | 06/09/2015 17:24 |
| 1,2-Dichlorobenzene | ND | | 0.20 | 40 | 06/09/2015 17:24 |
| 1,3-Dichlorobenzene | ND | | 0.20 | 40 | 06/09/2015 17:24 |
| 1,4-Dichlorobenzene | ND | | 0.20 | 40 | 06/09/2015 17:24 |
| Dichlorodifluoromethane | ND | | 0.20 | 40 | 06/09/2015 17:24 |
| 1,1-Dichloroethane | ND | | 0.20 | 40 | 06/09/2015 17:24 |
| 1,2-Dichloroethane (1,2-DCA) | ND | | 0.16 | 40 | 06/09/2015 17:24 |
| 1,1-Dichloroethene | ND | | 0.20 | 40 | 06/09/2015 17:24 |
| cis-1,2-Dichloroethene | ND | | 0.20 | 40 | 06/09/2015 17:24 |
| trans-1,2-Dichloroethene | ND | | 0.20 | 40 | 06/09/2015 17:24 |
| 1,2-Dichloropropane | ND | | 0.20 | 40 | 06/09/2015 17:24 |
| 1,3-Dichloropropane | ND | | 0.20 | 40 | 06/09/2015 17:24 |
| 2,2-Dichloropropane | ND | | 0.20 | 40 | 06/09/2015 17:24 |
| 1,1-Dichloropropene | ND | | 0.20 | 40 | 06/09/2015 17:24 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B9-8.0 | 1506217-010A | Soil | 06/02/2015 09:40 | GC10 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|-------------|------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.20 | 40 | 06/09/2015 17:24 |
| trans-1,3-Dichloropropene | ND | 0.20 | 40 | 06/09/2015 17:24 |
| Diisopropyl ether (DIPE) | ND | 0.20 | 40 | 06/09/2015 17:24 |
| Ethylbenzene | ND | 0.20 | 40 | 06/09/2015 17:24 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.20 | 40 | 06/09/2015 17:24 |
| Freon 113 | ND | 0.20 | 40 | 06/09/2015 17:24 |
| Hexachlorobutadiene | ND | 0.20 | 40 | 06/09/2015 17:24 |
| Hexachloroethane | ND | 0.20 | 40 | 06/09/2015 17:24 |
| 2-Hexanone | ND | 0.20 | 40 | 06/09/2015 17:24 |
| Isopropylbenzene | 0.30 | 0.20 | 40 | 06/09/2015 17:24 |
| 4-Isopropyl toluene | ND | 0.20 | 40 | 06/09/2015 17:24 |
| Methyl-t-butyl ether (MTBE) | ND | 0.20 | 40 | 06/09/2015 17:24 |
| Methylene chloride | ND | 0.20 | 40 | 06/09/2015 17:24 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.20 | 40 | 06/09/2015 17:24 |
| Naphthalene | ND | 0.20 | 40 | 06/09/2015 17:24 |
| n-Propyl benzene | 1.4 | 0.20 | 40 | 06/09/2015 17:24 |
| Styrene | ND | 0.20 | 40 | 06/09/2015 17:24 |
| 1,1,1,2-Tetrachloroethane | ND | 0.20 | 40 | 06/09/2015 17:24 |
| 1,1,2,2-Tetrachloroethane | ND | 0.20 | 40 | 06/09/2015 17:24 |
| Tetrachloroethene | ND | 0.20 | 40 | 06/09/2015 17:24 |
| Toluene | ND | 0.20 | 40 | 06/09/2015 17:24 |
| 1,2,3-Trichlorobenzene | ND | 0.20 | 40 | 06/09/2015 17:24 |
| 1,2,4-Trichlorobenzene | ND | 0.20 | 40 | 06/09/2015 17:24 |
| 1,1,1-Trichloroethane | ND | 0.20 | 40 | 06/09/2015 17:24 |
| 1,1,2-Trichloroethane | ND | 0.20 | 40 | 06/09/2015 17:24 |
| Trichloroethene | ND | 0.20 | 40 | 06/09/2015 17:24 |
| Trichlorofluoromethane | ND | 0.20 | 40 | 06/09/2015 17:24 |
| 1,2,3-Trichloropropane | ND | 0.20 | 40 | 06/09/2015 17:24 |
| 1,2,4-Trimethylbenzene | ND | 0.20 | 40 | 06/09/2015 17:24 |
| 1,3,5-Trimethylbenzene | ND | 0.20 | 40 | 06/09/2015 17:24 |
| Vinyl Chloride | ND | 0.20 | 40 | 06/09/2015 17:24 |
| Xylenes, Total | ND | 0.20 | 40 | 06/09/2015 17:24 |

(Cont.)



Analytical Report

| | |
|---|-----------------------------------|
| Client: P & D Environmental | WorkOrder: 1506217 |
| Project: #0398; Auto Depot 4171 Broadway Oakland | Extraction Method: SW5030B |
| Date Received: 6/4/15 16:29 | Analytical Method: SW8260B |
| Date Prepared: 6/4/15-6/8/15 | 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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B9-8.0 | 1506217-010A | Soil | 06/02/2015 09:40 | GC10 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|-------------------|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u> | |
| Dibromofluoromethane | 89 | | 70-130 | 06/09/2015 17:24 |
| Toluene-d8 | 87 | | 70-130 | 06/09/2015 17:24 |
| 4-BFB | 77 | | 70-130 | 06/09/2015 17:24 |
| Benzene-d6 | 63 | | 60-140 | 06/09/2015 17:24 |
| Ethylbenzene-d10 | 33 | S | 60-140 | 06/09/2015 17:24 |
| 1,2-DCB-d4 | 98 | | 60-140 | 06/09/2015 17:24 |

Analyst(s): KBO

Analytical Comments: c7



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B9-12.0 | 1506217-011A | Soil | 06/02/2015 09:45 | GC16 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| Acetone | ND | 0.10 | 1 | 06/06/2015 16:13 |
| tert-Amyl methyl ether (TAME) | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Benzene | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Bromobenzene | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Bromochloromethane | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Bromodichloromethane | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Bromoform | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Bromomethane | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| 2-Butanone (MEK) | ND | 0.020 | 1 | 06/06/2015 16:13 |
| t-Butyl alcohol (TBA) | ND | 0.050 | 1 | 06/06/2015 16:13 |
| n-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| sec-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| tert-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Carbon Disulfide | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Carbon Tetrachloride | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Chlorobenzene | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Chloroethane | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Chloroform | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Chloromethane | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| 2-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| 4-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Dibromochloromethane | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| 1,2-Dibromo-3-chloropropane | ND | 0.0040 | 1 | 06/06/2015 16:13 |
| 1,2-Dibromoethane (EDB) | ND | 0.0040 | 1 | 06/06/2015 16:13 |
| Dibromomethane | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| 1,2-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| 1,3-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| 1,4-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Dichlorodifluoromethane | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| 1,1-Dichloroethane | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.0040 | 1 | 06/06/2015 16:13 |
| 1,1-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| cis-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| trans-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| 1,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| 1,3-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| 2,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| 1,1-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 16:13 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B9-12.0 | 1506217-011A | Soil | 06/02/2015 09:45 | GC16 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| trans-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Diisopropyl ether (DIPE) | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Ethylbenzene | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Freon 113 | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Hexachlorobutadiene | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Hexachloroethane | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| 2-Hexanone | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Isopropylbenzene | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| 4-Isopropyl toluene | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Methyl-t-butyl ether (MTBE) | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Methylene chloride | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Naphthalene | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| n-Propyl benzene | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Styrene | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Tetrachloroethene | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Toluene | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| 1,2,3-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| 1,2,4-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| 1,1,1-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| 1,1,2-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Trichloroethene | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Trichlorofluoromethane | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| 1,2,3-Trichloropropane | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Vinyl Chloride | ND | 0.0050 | 1 | 06/06/2015 16:13 |
| Xylenes, Total | ND | 0.0050 | 1 | 06/06/2015 16:13 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B9-12.0 | 1506217-011A | Soil | 06/02/2015 09:45 | GC16 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|---------------|----|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | | |
| Dibromofluoromethane | 104 | 70-130 | | 06/06/2015 16:13 |
| Toluene-d8 | 97 | 70-130 | | 06/06/2015 16:13 |
| 4-BFB | 91 | 70-130 | | 06/06/2015 16:13 |
| Benzene-d6 | 83 | 60-140 | | 06/06/2015 16:13 |
| Ethylbenzene-d10 | 85 | 60-140 | | 06/06/2015 16:13 |
| 1,2-DCB-d4 | 91 | 60-140 | | 06/06/2015 16:13 |

Analyst(s): KF



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B9-19.0 | 1506217-012A | Soil | 06/02/2015 09:55 | GC16 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| Acetone | ND | 0.10 | 1 | 06/06/2015 19:06 |
| tert-Amyl methyl ether (TAME) | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Benzene | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Bromobenzene | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Bromochloromethane | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Bromodichloromethane | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Bromoform | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Bromomethane | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| 2-Butanone (MEK) | ND | 0.020 | 1 | 06/06/2015 19:06 |
| t-Butyl alcohol (TBA) | ND | 0.050 | 1 | 06/06/2015 19:06 |
| n-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| sec-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| tert-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Carbon Disulfide | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Carbon Tetrachloride | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Chlorobenzene | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Chloroethane | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Chloroform | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Chloromethane | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| 2-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| 4-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Dibromochloromethane | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| 1,2-Dibromo-3-chloropropane | ND | 0.0040 | 1 | 06/06/2015 19:06 |
| 1,2-Dibromoethane (EDB) | ND | 0.0040 | 1 | 06/06/2015 19:06 |
| Dibromomethane | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| 1,2-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| 1,3-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| 1,4-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Dichlorodifluoromethane | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| 1,1-Dichloroethane | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.0040 | 1 | 06/06/2015 19:06 |
| 1,1-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| cis-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| trans-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| 1,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| 1,3-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| 2,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| 1,1-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 19:06 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B9-19.0 | 1506217-012A | Soil | 06/02/2015 09:55 | GC16 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| trans-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Diisopropyl ether (DIPE) | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Ethylbenzene | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Freon 113 | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Hexachlorobutadiene | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Hexachloroethane | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| 2-Hexanone | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Isopropylbenzene | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| 4-Isopropyl toluene | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Methyl-t-butyl ether (MTBE) | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Methylene chloride | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Naphthalene | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| n-Propyl benzene | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Styrene | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Tetrachloroethene | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Toluene | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| 1,2,3-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| 1,2,4-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| 1,1,1-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| 1,1,2-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Trichloroethene | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Trichlorofluoromethane | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| 1,2,3-Trichloropropane | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Vinyl Chloride | ND | 0.0050 | 1 | 06/06/2015 19:06 |
| Xylenes, Total | ND | 0.0050 | 1 | 06/06/2015 19:06 |

(Cont.)



Analytical Report

Client: P & D Environmental **WorkOrder:** 1506217
Project: #0398; Auto Depot 4171 Broadway Oakland **Extraction Method:** SW5030B
Date Received: 6/4/15 16:29 **Analytical Method:** SW8260B
Date Prepared: 6/4/15-6/8/15 **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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B9-19.0 | 1506217-012A | Soil | 06/02/2015 09:55 | GC16 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|---------------|----|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | | |
| Dibromofluoromethane | 104 | 70-130 | | 06/06/2015 19:06 |
| Toluene-d8 | 96 | 70-130 | | 06/06/2015 19:06 |
| 4-BFB | 92 | 70-130 | | 06/06/2015 19:06 |
| Benzene-d6 | 80 | 60-140 | | 06/06/2015 19:06 |
| Ethylbenzene-d10 | 81 | 60-140 | | 06/06/2015 19:06 |
| 1,2-DCB-d4 | 87 | 60-140 | | 06/06/2015 19:06 |

Analyst(s): KF



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B10-3.0 | 1506217-013A | Soil | 06/02/2015 10:35 | GC18 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------------|--------|----|------------------|
| Acetone | ND | 0.10 | 1 | 06/06/2015 19:41 |
| tert-Amyl methyl ether (TAME) | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Benzene | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Bromobenzene | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Bromochloromethane | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Bromodichloromethane | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Bromoform | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Bromomethane | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| 2-Butanone (MEK) | 0.025 | 0.020 | 1 | 06/06/2015 19:41 |
| t-Butyl alcohol (TBA) | ND | 0.050 | 1 | 06/06/2015 19:41 |
| n-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| sec-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| tert-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Carbon Disulfide | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Carbon Tetrachloride | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Chlorobenzene | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Chloroethane | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Chloroform | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Chloromethane | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| 2-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| 4-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Dibromochloromethane | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| 1,2-Dibromo-3-chloropropane | ND | 0.0040 | 1 | 06/06/2015 19:41 |
| 1,2-Dibromoethane (EDB) | ND | 0.0040 | 1 | 06/06/2015 19:41 |
| Dibromomethane | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| 1,2-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| 1,3-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| 1,4-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Dichlorodifluoromethane | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| 1,1-Dichloroethane | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.0040 | 1 | 06/06/2015 19:41 |
| 1,1-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| cis-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| trans-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| 1,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| 1,3-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| 2,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| 1,1-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 19:41 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B10-3.0 | 1506217-013A | Soil | 06/02/2015 10:35 | GC18 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| trans-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Diisopropyl ether (DIPE) | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Ethylbenzene | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Freon 113 | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Hexachlorobutadiene | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Hexachloroethane | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| 2-Hexanone | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Isopropylbenzene | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| 4-Isopropyl toluene | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Methyl-t-butyl ether (MTBE) | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Methylene chloride | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Naphthalene | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| n-Propyl benzene | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Styrene | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Tetrachloroethene | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Toluene | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| 1,2,3-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| 1,2,4-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| 1,1,1-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| 1,1,2-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Trichloroethene | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Trichlorofluoromethane | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| 1,2,3-Trichloropropane | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Vinyl Chloride | ND | 0.0050 | 1 | 06/06/2015 19:41 |
| Xylenes, Total | ND | 0.0050 | 1 | 06/06/2015 19:41 |

(Cont.)



Analytical Report

| | |
|---|-----------------------------------|
| Client: P & D Environmental | WorkOrder: 1506217 |
| Project: #0398; Auto Depot 4171 Broadway Oakland | Extraction Method: SW5030B |
| Date Received: 6/4/15 16:29 | Analytical Method: SW8260B |
| Date Prepared: 6/4/15-6/8/15 | 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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B10-3.0 | 1506217-013A | Soil | 06/02/2015 10:35 | GC18 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|--------|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | |
| Dibromofluoromethane | 102 | 70-130 | | 06/06/2015 19:41 |
| Toluene-d8 | 96 | 70-130 | | 06/06/2015 19:41 |
| 4-BFB | 96 | 70-130 | | 06/06/2015 19:41 |
| Benzene-d6 | 115 | 60-140 | | 06/06/2015 19:41 |
| Ethylbenzene-d10 | 104 | 60-140 | | 06/06/2015 19:41 |
| 1,2-DCB-d4 | 92 | 60-140 | | 06/06/2015 19:41 |

Analyst(s): KF



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B10-7.5 | 1506217-014A | Soil | 06/02/2015 10:40 | GC10 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|------|----|------------------|
| Acetone | ND | 6.7 | 67 | 06/09/2015 18:05 |
| tert-Amyl methyl ether (TAME) | ND | 0.33 | 67 | 06/09/2015 18:05 |
| Benzene | ND | 0.33 | 67 | 06/09/2015 18:05 |
| Bromobenzene | ND | 0.33 | 67 | 06/09/2015 18:05 |
| Bromochloromethane | ND | 0.33 | 67 | 06/09/2015 18:05 |
| Bromodichloromethane | ND | 0.33 | 67 | 06/09/2015 18:05 |
| Bromoform | ND | 0.33 | 67 | 06/09/2015 18:05 |
| Bromomethane | ND | 0.33 | 67 | 06/09/2015 18:05 |
| 2-Butanone (MEK) | ND | 1.3 | 67 | 06/09/2015 18:05 |
| t-Butyl alcohol (TBA) | ND | 3.3 | 67 | 06/09/2015 18:05 |
| n-Butyl benzene | 1.5 | 0.33 | 67 | 06/09/2015 18:05 |
| sec-Butyl benzene | 0.43 | 0.33 | 67 | 06/09/2015 18:05 |
| tert-Butyl benzene | ND | 0.33 | 67 | 06/09/2015 18:05 |
| Carbon Disulfide | ND | 0.33 | 67 | 06/09/2015 18:05 |
| Carbon Tetrachloride | ND | 0.33 | 67 | 06/09/2015 18:05 |
| Chlorobenzene | ND | 0.33 | 67 | 06/09/2015 18:05 |
| Chloroethane | ND | 0.33 | 67 | 06/09/2015 18:05 |
| Chloroform | ND | 0.33 | 67 | 06/09/2015 18:05 |
| Chloromethane | ND | 0.33 | 67 | 06/09/2015 18:05 |
| 2-Chlorotoluene | ND | 0.33 | 67 | 06/09/2015 18:05 |
| 4-Chlorotoluene | ND | 0.33 | 67 | 06/09/2015 18:05 |
| Dibromochloromethane | ND | 0.33 | 67 | 06/09/2015 18:05 |
| 1,2-Dibromo-3-chloropropane | ND | 0.27 | 67 | 06/09/2015 18:05 |
| 1,2-Dibromoethane (EDB) | ND | 0.27 | 67 | 06/09/2015 18:05 |
| Dibromomethane | ND | 0.33 | 67 | 06/09/2015 18:05 |
| 1,2-Dichlorobenzene | ND | 0.33 | 67 | 06/09/2015 18:05 |
| 1,3-Dichlorobenzene | ND | 0.33 | 67 | 06/09/2015 18:05 |
| 1,4-Dichlorobenzene | ND | 0.33 | 67 | 06/09/2015 18:05 |
| Dichlorodifluoromethane | ND | 0.33 | 67 | 06/09/2015 18:05 |
| 1,1-Dichloroethane | ND | 0.33 | 67 | 06/09/2015 18:05 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.27 | 67 | 06/09/2015 18:05 |
| 1,1-Dichloroethene | ND | 0.33 | 67 | 06/09/2015 18:05 |
| cis-1,2-Dichloroethene | ND | 0.33 | 67 | 06/09/2015 18:05 |
| trans-1,2-Dichloroethene | ND | 0.33 | 67 | 06/09/2015 18:05 |
| 1,2-Dichloropropane | ND | 0.33 | 67 | 06/09/2015 18:05 |
| 1,3-Dichloropropane | ND | 0.33 | 67 | 06/09/2015 18:05 |
| 2,2-Dichloropropane | ND | 0.33 | 67 | 06/09/2015 18:05 |
| 1,1-Dichloropropene | ND | 0.33 | 67 | 06/09/2015 18:05 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-------------------------------|---------------|----------------|------------------|----------------------|----------|
| B10-7.5 | 1506217-014A | Soil | 06/02/2015 10:40 | GC10 | 105879 |
| Analytes | Result | RL | DF | Date Analyzed | |
| cis-1,3-Dichloropropene | ND | 0.33 | 67 | 06/09/2015 18:05 | |
| trans-1,3-Dichloropropene | ND | 0.33 | 67 | 06/09/2015 18:05 | |
| Diisopropyl ether (DIPE) | ND | 0.33 | 67 | 06/09/2015 18:05 | |
| Ethylbenzene | 3.9 | 0.33 | 67 | 06/09/2015 18:05 | |
| Ethyl tert-butyl ether (ETBE) | ND | 0.33 | 67 | 06/09/2015 18:05 | |
| Freon 113 | ND | 0.33 | 67 | 06/09/2015 18:05 | |
| Hexachlorobutadiene | ND | 0.33 | 67 | 06/09/2015 18:05 | |
| Hexachloroethane | ND | 0.33 | 67 | 06/09/2015 18:05 | |
| 2-Hexanone | ND | 0.33 | 67 | 06/09/2015 18:05 | |
| Isopropylbenzene | 0.73 | 0.33 | 67 | 06/09/2015 18:05 | |
| 4-Isopropyl toluene | ND | 0.33 | 67 | 06/09/2015 18:05 | |
| Methyl-t-butyl ether (MTBE) | ND | 0.33 | 67 | 06/09/2015 18:05 | |
| Methylene chloride | ND | 0.33 | 67 | 06/09/2015 18:05 | |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.33 | 67 | 06/09/2015 18:05 | |
| Naphthalene | 4.8 | 0.33 | 67 | 06/09/2015 18:05 | |
| n-Propyl benzene | 3.0 | 0.33 | 67 | 06/09/2015 18:05 | |
| Styrene | ND | 0.33 | 67 | 06/09/2015 18:05 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.33 | 67 | 06/09/2015 18:05 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.33 | 67 | 06/09/2015 18:05 | |
| Tetrachloroethene | ND | 0.33 | 67 | 06/09/2015 18:05 | |
| Toluene | ND | 0.33 | 67 | 06/09/2015 18:05 | |
| 1,2,3-Trichlorobenzene | ND | 0.33 | 67 | 06/09/2015 18:05 | |
| 1,2,4-Trichlorobenzene | ND | 0.33 | 67 | 06/09/2015 18:05 | |
| 1,1,1-Trichloroethane | ND | 0.33 | 67 | 06/09/2015 18:05 | |
| 1,1,2-Trichloroethane | ND | 0.33 | 67 | 06/09/2015 18:05 | |
| Trichloroethene | ND | 0.33 | 67 | 06/09/2015 18:05 | |
| Trichlorofluoromethane | ND | 0.33 | 67 | 06/09/2015 18:05 | |
| 1,2,3-Trichloropropane | ND | 0.33 | 67 | 06/09/2015 18:05 | |
| 1,2,4-Trimethylbenzene | 0.77 | 0.33 | 67 | 06/09/2015 18:05 | |
| 1,3,5-Trimethylbenzene | ND | 0.33 | 67 | 06/09/2015 18:05 | |
| Vinyl Chloride | ND | 0.33 | 67 | 06/09/2015 18:05 | |
| Xylenes, Total | 0.33 | 0.33 | 67 | 06/09/2015 18:05 | |

(Cont.)



Analytical Report

| | |
|---|-----------------------------------|
| Client: P & D Environmental | WorkOrder: 1506217 |
| Project: #0398; Auto Depot 4171 Broadway Oakland | Extraction Method: SW5030B |
| Date Received: 6/4/15 16:29 | Analytical Method: SW8260B |
| Date Prepared: 6/4/15-6/8/15 | 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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B10-7.5 | 1506217-014A | Soil | 06/02/2015 10:40 | GC10 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|-------------------|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u> | |
| Dibromofluoromethane | 86 | | 70-130 | 06/09/2015 18:05 |
| Toluene-d8 | 87 | | 70-130 | 06/09/2015 18:05 |
| 4-BFB | 84 | | 70-130 | 06/09/2015 18:05 |
| Benzene-d6 | 65 | | 60-140 | 06/09/2015 18:05 |
| Ethylbenzene-d10 | 14 | S | 60-140 | 06/09/2015 18:05 |
| 1,2-DCB-d4 | 104 | | 60-140 | 06/09/2015 18:05 |

Analyst(s): KBO

Analytical Comments: c7



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-------------------------------|--------------|----------------|------------------|------------------|----------|
| B10-10.5 | 1506217-015A | Soil | 06/02/2015 10:45 | GC18 | 105879 |
| Analytes | Result | RL | DF | Date Analyzed | |
| Acetone | ND | 0.20 | 2 | 06/07/2015 00:10 | |
| tert-Amyl methyl ether (TAME) | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| Benzene | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| Bromobenzene | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| Bromochloromethane | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| Bromodichloromethane | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| Bromoform | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| Bromomethane | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| 2-Butanone (MEK) | ND | 0.040 | 2 | 06/07/2015 00:10 | |
| t-Butyl alcohol (TBA) | ND | 0.10 | 2 | 06/07/2015 00:10 | |
| n-Butyl benzene | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| sec-Butyl benzene | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| tert-Butyl benzene | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| Carbon Disulfide | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| Carbon Tetrachloride | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| Chlorobenzene | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| Chloroethane | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| Chloroform | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| Chloromethane | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| 2-Chlorotoluene | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| 4-Chlorotoluene | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| Dibromochloromethane | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.0080 | 2 | 06/07/2015 00:10 | |
| 1,2-Dibromoethane (EDB) | ND | 0.0080 | 2 | 06/07/2015 00:10 | |
| Dibromomethane | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| 1,2-Dichlorobenzene | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| 1,3-Dichlorobenzene | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| 1,4-Dichlorobenzene | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| Dichlorodifluoromethane | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| 1,1-Dichloroethane | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.0080 | 2 | 06/07/2015 00:10 | |
| 1,1-Dichloroethene | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| cis-1,2-Dichloroethene | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| trans-1,2-Dichloroethene | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| 1,2-Dichloropropane | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| 1,3-Dichloropropane | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| 2,2-Dichloropropane | ND | 0.010 | 2 | 06/07/2015 00:10 | |
| 1,1-Dichloropropene | ND | 0.010 | 2 | 06/07/2015 00:10 | |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B10-10.5 | 1506217-015A | Soil | 06/02/2015 10:45 | GC18 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|-------------|-------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.010 | 2 | 06/07/2015 00:10 |
| trans-1,3-Dichloropropene | ND | 0.010 | 2 | 06/07/2015 00:10 |
| Diisopropyl ether (DIPE) | ND | 0.010 | 2 | 06/07/2015 00:10 |
| Ethylbenzene | ND | 0.010 | 2 | 06/07/2015 00:10 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.010 | 2 | 06/07/2015 00:10 |
| Freon 113 | ND | 0.010 | 2 | 06/07/2015 00:10 |
| Hexachlorobutadiene | ND | 0.010 | 2 | 06/07/2015 00:10 |
| Hexachloroethane | ND | 0.010 | 2 | 06/07/2015 00:10 |
| 2-Hexanone | ND | 0.010 | 2 | 06/07/2015 00:10 |
| Isopropylbenzene | ND | 0.010 | 2 | 06/07/2015 00:10 |
| 4-Isopropyl toluene | ND | 0.010 | 2 | 06/07/2015 00:10 |
| Methyl-t-butyl ether (MTBE) | ND | 0.010 | 2 | 06/07/2015 00:10 |
| Methylene chloride | ND | 0.010 | 2 | 06/07/2015 00:10 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.010 | 2 | 06/07/2015 00:10 |
| Naphthalene | 0.11 | 0.010 | 2 | 06/07/2015 00:10 |
| n-Propyl benzene | ND | 0.010 | 2 | 06/07/2015 00:10 |
| Styrene | ND | 0.010 | 2 | 06/07/2015 00:10 |
| 1,1,1,2-Tetrachloroethane | ND | 0.010 | 2 | 06/07/2015 00:10 |
| 1,1,2,2-Tetrachloroethane | ND | 0.010 | 2 | 06/07/2015 00:10 |
| Tetrachloroethene | ND | 0.010 | 2 | 06/07/2015 00:10 |
| Toluene | ND | 0.010 | 2 | 06/07/2015 00:10 |
| 1,2,3-Trichlorobenzene | ND | 0.010 | 2 | 06/07/2015 00:10 |
| 1,2,4-Trichlorobenzene | ND | 0.010 | 2 | 06/07/2015 00:10 |
| 1,1,1-Trichloroethane | ND | 0.010 | 2 | 06/07/2015 00:10 |
| 1,1,2-Trichloroethane | ND | 0.010 | 2 | 06/07/2015 00:10 |
| Trichloroethene | ND | 0.010 | 2 | 06/07/2015 00:10 |
| Trichlorofluoromethane | ND | 0.010 | 2 | 06/07/2015 00:10 |
| 1,2,3-Trichloropropane | ND | 0.010 | 2 | 06/07/2015 00:10 |
| 1,2,4-Trimethylbenzene | ND | 0.010 | 2 | 06/07/2015 00:10 |
| 1,3,5-Trimethylbenzene | ND | 0.010 | 2 | 06/07/2015 00:10 |
| Vinyl Chloride | ND | 0.010 | 2 | 06/07/2015 00:10 |
| Xylenes, Total | ND | 0.010 | 2 | 06/07/2015 00:10 |

(Cont.)



Analytical Report

| | |
|---|-----------------------------------|
| Client: P & D Environmental | WorkOrder: 1506217 |
| Project: #0398; Auto Depot 4171 Broadway Oakland | Extraction Method: SW5030B |
| Date Received: 6/4/15 16:29 | Analytical Method: SW8260B |
| Date Prepared: 6/4/15-6/8/15 | 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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B10-10.5 | 1506217-015A | Soil | 06/02/2015 10:45 | GC18 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|--------|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | |
| Dibromofluoromethane | 105 | 70-130 | | 06/07/2015 00:10 |
| Toluene-d8 | 92 | 70-130 | | 06/07/2015 00:10 |
| 4-BFB | 92 | 70-130 | | 06/07/2015 00:10 |
| Benzene-d6 | 130 | 60-140 | | 06/07/2015 00:10 |
| Ethylbenzene-d10 | 122 | 60-140 | | 06/07/2015 00:10 |
| 1,2-DCB-d4 | 102 | 60-140 | | 06/07/2015 00:10 |

Analyst(s): KF



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B10A-4.0 | 1506217-016A | Soil | 06/02/2015 13:35 | GC10 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| Acetone | ND | 0.10 | 1 | 06/09/2015 16:43 |
| tert-Amyl methyl ether (TAME) | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| Benzene | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| Bromobenzene | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| Bromochloromethane | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| Bromodichloromethane | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| Bromoform | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| Bromomethane | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| 2-Butanone (MEK) | ND | 0.020 | 1 | 06/09/2015 16:43 |
| t-Butyl alcohol (TBA) | ND | 0.050 | 1 | 06/09/2015 16:43 |
| n-Butyl benzene | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| sec-Butyl benzene | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| tert-Butyl benzene | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| Carbon Disulfide | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| Carbon Tetrachloride | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| Chlorobenzene | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| Chloroethane | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| Chloroform | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| Chloromethane | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| 2-Chlorotoluene | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| 4-Chlorotoluene | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| Dibromochloromethane | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| 1,2-Dibromo-3-chloropropane | ND | 0.0040 | 1 | 06/09/2015 16:43 |
| 1,2-Dibromoethane (EDB) | ND | 0.0040 | 1 | 06/09/2015 16:43 |
| Dibromomethane | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| 1,2-Dichlorobenzene | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| 1,3-Dichlorobenzene | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| 1,4-Dichlorobenzene | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| Dichlorodifluoromethane | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| 1,1-Dichloroethane | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.0040 | 1 | 06/09/2015 16:43 |
| 1,1-Dichloroethene | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| cis-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| trans-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| 1,2-Dichloropropane | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| 1,3-Dichloropropane | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| 2,2-Dichloropropane | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| 1,1-Dichloropropene | ND | 0.0050 | 1 | 06/09/2015 16:43 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B10A-4.0 | 1506217-016A | Soil | 06/02/2015 13:35 | GC10 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|---------------|--------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| trans-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| Diisopropyl ether (DIPE) | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| Ethylbenzene | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| Freon 113 | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| Hexachlorobutadiene | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| Hexachloroethane | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| 2-Hexanone | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| Isopropylbenzene | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| 4-Isopropyl toluene | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| Methyl-t-butyl ether (MTBE) | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| Methylene chloride | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| Naphthalene | 0.0085 | 0.0050 | 1 | 06/09/2015 16:43 |
| n-Propyl benzene | 0.0075 | 0.0050 | 1 | 06/09/2015 16:43 |
| Styrene | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| Tetrachloroethene | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| Toluene | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| 1,2,3-Trichlorobenzene | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| 1,2,4-Trichlorobenzene | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| 1,1,1-Trichloroethane | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| 1,1,2-Trichloroethane | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| Trichloroethene | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| Trichlorofluoromethane | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| 1,2,3-Trichloropropane | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| Vinyl Chloride | ND | 0.0050 | 1 | 06/09/2015 16:43 |
| Xylenes, Total | ND | 0.0050 | 1 | 06/09/2015 16:43 |

(Cont.)



Analytical Report

Client: P & D Environmental **WorkOrder:** 1506217
Project: #0398; Auto Depot 4171 Broadway Oakland **Extraction Method:** SW5030B
Date Received: 6/4/15 16:29 **Analytical Method:** SW8260B
Date Prepared: 6/4/15-6/8/15 **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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B10A-4.0 | 1506217-016A | Soil | 06/02/2015 13:35 | GC10 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|---------------|----|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | | |
| Dibromofluoromethane | 85 | 70-130 | | 06/09/2015 16:43 |
| Toluene-d8 | 91 | 70-130 | | 06/09/2015 16:43 |
| 4-BFB | 82 | 70-130 | | 06/09/2015 16:43 |
| Benzene-d6 | 66 | 60-140 | | 06/09/2015 16:43 |
| Ethylbenzene-d10 | 83 | 60-140 | | 06/09/2015 16:43 |
| 1,2-DCB-d4 | 71 | 60-140 | | 06/09/2015 16:43 |

Analyst(s): KBO



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B10A-8.0 | 1506217-017A | Soil | 06/02/2015 13:40 | GC10 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|------|----|------------------|
| Acetone | ND | 4.0 | 40 | 06/09/2015 20:11 |
| tert-Amyl methyl ether (TAME) | ND | 0.20 | 40 | 06/09/2015 20:11 |
| Benzene | ND | 0.20 | 40 | 06/09/2015 20:11 |
| Bromobenzene | ND | 0.20 | 40 | 06/09/2015 20:11 |
| Bromochloromethane | ND | 0.20 | 40 | 06/09/2015 20:11 |
| Bromodichloromethane | ND | 0.20 | 40 | 06/09/2015 20:11 |
| Bromoform | ND | 0.20 | 40 | 06/09/2015 20:11 |
| Bromomethane | ND | 0.20 | 40 | 06/09/2015 20:11 |
| 2-Butanone (MEK) | ND | 0.80 | 40 | 06/09/2015 20:11 |
| t-Butyl alcohol (TBA) | ND | 2.0 | 40 | 06/09/2015 20:11 |
| n-Butyl benzene | 0.71 | 0.20 | 40 | 06/09/2015 20:11 |
| sec-Butyl benzene | 0.22 | 0.20 | 40 | 06/09/2015 20:11 |
| tert-Butyl benzene | ND | 0.20 | 40 | 06/09/2015 20:11 |
| Carbon Disulfide | ND | 0.20 | 40 | 06/09/2015 20:11 |
| Carbon Tetrachloride | ND | 0.20 | 40 | 06/09/2015 20:11 |
| Chlorobenzene | ND | 0.20 | 40 | 06/09/2015 20:11 |
| Chloroethane | ND | 0.20 | 40 | 06/09/2015 20:11 |
| Chloroform | ND | 0.20 | 40 | 06/09/2015 20:11 |
| Chloromethane | ND | 0.20 | 40 | 06/09/2015 20:11 |
| 2-Chlorotoluene | ND | 0.20 | 40 | 06/09/2015 20:11 |
| 4-Chlorotoluene | ND | 0.20 | 40 | 06/09/2015 20:11 |
| Dibromochloromethane | ND | 0.20 | 40 | 06/09/2015 20:11 |
| 1,2-Dibromo-3-chloropropane | ND | 0.16 | 40 | 06/09/2015 20:11 |
| 1,2-Dibromoethane (EDB) | ND | 0.16 | 40 | 06/09/2015 20:11 |
| Dibromomethane | ND | 0.20 | 40 | 06/09/2015 20:11 |
| 1,2-Dichlorobenzene | ND | 0.20 | 40 | 06/09/2015 20:11 |
| 1,3-Dichlorobenzene | ND | 0.20 | 40 | 06/09/2015 20:11 |
| 1,4-Dichlorobenzene | ND | 0.20 | 40 | 06/09/2015 20:11 |
| Dichlorodifluoromethane | ND | 0.20 | 40 | 06/09/2015 20:11 |
| 1,1-Dichloroethane | ND | 0.20 | 40 | 06/09/2015 20:11 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.16 | 40 | 06/09/2015 20:11 |
| 1,1-Dichloroethene | ND | 0.20 | 40 | 06/09/2015 20:11 |
| cis-1,2-Dichloroethene | ND | 0.20 | 40 | 06/09/2015 20:11 |
| trans-1,2-Dichloroethene | ND | 0.20 | 40 | 06/09/2015 20:11 |
| 1,2-Dichloropropane | ND | 0.20 | 40 | 06/09/2015 20:11 |
| 1,3-Dichloropropane | ND | 0.20 | 40 | 06/09/2015 20:11 |
| 2,2-Dichloropropane | ND | 0.20 | 40 | 06/09/2015 20:11 |
| 1,1-Dichloropropene | ND | 0.20 | 40 | 06/09/2015 20:11 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-------------------------------|---------------|----------------|------------------|------------|----------------------|
| B10A-8.0 | 1506217-017A | Soil | 06/02/2015 13:40 | GC10 | 105879 |
| Analytes | Result | | RL | DF | Date Analyzed |
| cis-1,3-Dichloropropene | ND | | 0.20 | 40 | 06/09/2015 20:11 |
| trans-1,3-Dichloropropene | ND | | 0.20 | 40 | 06/09/2015 20:11 |
| Diisopropyl ether (DIPE) | ND | | 0.20 | 40 | 06/09/2015 20:11 |
| Ethylbenzene | 3.5 | | 0.20 | 40 | 06/09/2015 20:11 |
| Ethyl tert-butyl ether (ETBE) | ND | | 0.20 | 40 | 06/09/2015 20:11 |
| Freon 113 | ND | | 0.20 | 40 | 06/09/2015 20:11 |
| Hexachlorobutadiene | ND | | 0.20 | 40 | 06/09/2015 20:11 |
| Hexachloroethane | ND | | 0.20 | 40 | 06/09/2015 20:11 |
| 2-Hexanone | ND | | 0.20 | 40 | 06/09/2015 20:11 |
| Isopropylbenzene | 0.51 | | 0.20 | 40 | 06/09/2015 20:11 |
| 4-Isopropyl toluene | ND | | 0.20 | 40 | 06/09/2015 20:11 |
| Methyl-t-butyl ether (MTBE) | ND | | 0.20 | 40 | 06/09/2015 20:11 |
| Methylene chloride | ND | | 0.20 | 40 | 06/09/2015 20:11 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.20 | 40 | 06/09/2015 20:11 |
| Naphthalene | 2.3 | | 0.20 | 40 | 06/09/2015 20:11 |
| n-Propyl benzene | 1.7 | | 0.20 | 40 | 06/09/2015 20:11 |
| Styrene | ND | | 0.20 | 40 | 06/09/2015 20:11 |
| 1,1,1,2-Tetrachloroethane | ND | | 0.20 | 40 | 06/09/2015 20:11 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.20 | 40 | 06/09/2015 20:11 |
| Tetrachloroethene | ND | | 0.20 | 40 | 06/09/2015 20:11 |
| Toluene | ND | | 0.20 | 40 | 06/09/2015 20:11 |
| 1,2,3-Trichlorobenzene | ND | | 0.20 | 40 | 06/09/2015 20:11 |
| 1,2,4-Trichlorobenzene | ND | | 0.20 | 40 | 06/09/2015 20:11 |
| 1,1,1-Trichloroethane | ND | | 0.20 | 40 | 06/09/2015 20:11 |
| 1,1,2-Trichloroethane | ND | | 0.20 | 40 | 06/09/2015 20:11 |
| Trichloroethene | ND | | 0.20 | 40 | 06/09/2015 20:11 |
| Trichlorofluoromethane | ND | | 0.20 | 40 | 06/09/2015 20:11 |
| 1,2,3-Trichloropropane | ND | | 0.20 | 40 | 06/09/2015 20:11 |
| 1,2,4-Trimethylbenzene | 0.32 | | 0.20 | 40 | 06/09/2015 20:11 |
| 1,3,5-Trimethylbenzene | ND | | 0.20 | 40 | 06/09/2015 20:11 |
| Vinyl Chloride | ND | | 0.20 | 40 | 06/09/2015 20:11 |
| Xylenes, Total | ND | | 0.20 | 40 | 06/09/2015 20:11 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B10A-8.0 | 1506217-017A | Soil | 06/02/2015 13:40 | GC10 | 105879 |

| Analytes | Result | | RL | DF | Date Analyzed |
|----------------------|----------------|-------------------|---------------|----|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u> | | |
| Dibromofluoromethane | 84 | | 70-130 | | 06/09/2015 20:11 |
| Toluene-d8 | 90 | | 70-130 | | 06/09/2015 20:11 |
| 4-BFB | 85 | | 70-130 | | 06/09/2015 20:11 |
| Benzene-d6 | 64 | | 60-140 | | 06/09/2015 20:11 |
| Ethylbenzene-d10 | 34 | S | 60-140 | | 06/09/2015 20:11 |
| 1,2-DCB-d4 | 97 | | 60-140 | | 06/09/2015 20:11 |

Analyst(s): KBO

Analytical Comments: c7



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B10A-13.0 | 1506217-018A | Soil | 06/02/2015 13:50 | GC18 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| Acetone | ND | 0.10 | 1 | 06/06/2015 20:19 |
| tert-Amyl methyl ether (TAME) | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Benzene | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Bromobenzene | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Bromochloromethane | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Bromodichloromethane | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Bromoform | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Bromomethane | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| 2-Butanone (MEK) | ND | 0.020 | 1 | 06/06/2015 20:19 |
| t-Butyl alcohol (TBA) | ND | 0.050 | 1 | 06/06/2015 20:19 |
| n-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| sec-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| tert-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Carbon Disulfide | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Carbon Tetrachloride | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Chlorobenzene | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Chloroethane | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Chloroform | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Chloromethane | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| 2-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| 4-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Dibromochloromethane | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| 1,2-Dibromo-3-chloropropane | ND | 0.0040 | 1 | 06/06/2015 20:19 |
| 1,2-Dibromoethane (EDB) | ND | 0.0040 | 1 | 06/06/2015 20:19 |
| Dibromomethane | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| 1,2-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| 1,3-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| 1,4-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Dichlorodifluoromethane | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| 1,1-Dichloroethane | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.0040 | 1 | 06/06/2015 20:19 |
| 1,1-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| cis-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| trans-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| 1,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| 1,3-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| 2,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| 1,1-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 20:19 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B10A-13.0 | 1506217-018A | Soil | 06/02/2015 13:50 | GC18 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| trans-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Diisopropyl ether (DIPE) | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Ethylbenzene | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Freon 113 | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Hexachlorobutadiene | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Hexachloroethane | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| 2-Hexanone | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Isopropylbenzene | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| 4-Isopropyl toluene | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Methyl-t-butyl ether (MTBE) | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Methylene chloride | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Naphthalene | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| n-Propyl benzene | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Styrene | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Tetrachloroethene | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Toluene | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| 1,2,3-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| 1,2,4-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| 1,1,1-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| 1,1,2-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Trichloroethene | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Trichlorofluoromethane | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| 1,2,3-Trichloropropane | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Vinyl Chloride | ND | 0.0050 | 1 | 06/06/2015 20:19 |
| Xylenes, Total | ND | 0.0050 | 1 | 06/06/2015 20:19 |

(Cont.)



Analytical Report

| | |
|---|-----------------------------------|
| Client: P & D Environmental | WorkOrder: 1506217 |
| Project: #0398; Auto Depot 4171 Broadway Oakland | Extraction Method: SW5030B |
| Date Received: 6/4/15 16:29 | Analytical Method: SW8260B |
| Date Prepared: 6/4/15-6/8/15 | 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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B10A-13.0 | 1506217-018A | Soil | 06/02/2015 13:50 | GC18 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|--------|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | |
| Dibromofluoromethane | 103 | 70-130 | | 06/06/2015 20:19 |
| Toluene-d8 | 98 | 70-130 | | 06/06/2015 20:19 |
| 4-BFB | 100 | 70-130 | | 06/06/2015 20:19 |
| Benzene-d6 | 122 | 60-140 | | 06/06/2015 20:19 |
| Ethylbenzene-d10 | 109 | 60-140 | | 06/06/2015 20:19 |
| 1,2-DCB-d4 | 92 | 60-140 | | 06/06/2015 20:19 |

Analyst(s): KF



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B10A-18.0 | 1506217-019A | Soil | 06/02/2015 14:00 | GC18 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| Acetone | ND | 0.10 | 1 | 06/06/2015 20:58 |
| tert-Amyl methyl ether (TAME) | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Benzene | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Bromobenzene | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Bromochloromethane | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Bromodichloromethane | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Bromoform | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Bromomethane | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| 2-Butanone (MEK) | ND | 0.020 | 1 | 06/06/2015 20:58 |
| t-Butyl alcohol (TBA) | ND | 0.050 | 1 | 06/06/2015 20:58 |
| n-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| sec-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| tert-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Carbon Disulfide | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Carbon Tetrachloride | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Chlorobenzene | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Chloroethane | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Chloroform | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Chloromethane | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| 2-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| 4-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Dibromochloromethane | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| 1,2-Dibromo-3-chloropropane | ND | 0.0040 | 1 | 06/06/2015 20:58 |
| 1,2-Dibromoethane (EDB) | ND | 0.0040 | 1 | 06/06/2015 20:58 |
| Dibromomethane | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| 1,2-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| 1,3-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| 1,4-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Dichlorodifluoromethane | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| 1,1-Dichloroethane | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.0040 | 1 | 06/06/2015 20:58 |
| 1,1-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| cis-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| trans-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| 1,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| 1,3-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| 2,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| 1,1-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 20:58 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B10A-18.0 | 1506217-019A | Soil | 06/02/2015 14:00 | GC18 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| trans-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Diisopropyl ether (DIPE) | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Ethylbenzene | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Freon 113 | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Hexachlorobutadiene | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Hexachloroethane | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| 2-Hexanone | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Isopropylbenzene | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| 4-Isopropyl toluene | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Methyl-t-butyl ether (MTBE) | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Methylene chloride | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Naphthalene | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| n-Propyl benzene | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Styrene | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Tetrachloroethene | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Toluene | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| 1,2,3-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| 1,2,4-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| 1,1,1-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| 1,1,2-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Trichloroethene | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Trichlorofluoromethane | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| 1,2,3-Trichloropropane | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Vinyl Chloride | ND | 0.0050 | 1 | 06/06/2015 20:58 |
| Xylenes, Total | ND | 0.0050 | 1 | 06/06/2015 20:58 |

(Cont.)



Analytical Report

Client: P & D Environmental **WorkOrder:** 1506217
Project: #0398; Auto Depot 4171 Broadway Oakland **Extraction Method:** SW5030B
Date Received: 6/4/15 16:29 **Analytical Method:** SW8260B
Date Prepared: 6/4/15-6/8/15 **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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B10A-18.0 | 1506217-019A | Soil | 06/02/2015 14:00 | GC18 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|---------------|----|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | | |
| Dibromofluoromethane | 102 | 70-130 | | 06/06/2015 20:58 |
| Toluene-d8 | 97 | 70-130 | | 06/06/2015 20:58 |
| 4-BFB | 98 | 70-130 | | 06/06/2015 20:58 |
| Benzene-d6 | 130 | 60-140 | | 06/06/2015 20:58 |
| Ethylbenzene-d10 | 116 | 60-140 | | 06/06/2015 20:58 |
| 1,2-DCB-d4 | 96 | 60-140 | | 06/06/2015 20:58 |

Analyst(s): KF



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B11-4.0 | 1506217-020A | Soil | 06/02/2015 11:05 | GC18 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|---------------|--------|----|------------------|
| Acetone | ND | 0.10 | 1 | 06/06/2015 21:36 |
| tert-Amyl methyl ether (TAME) | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| Benzene | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| Bromobenzene | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| Bromochloromethane | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| Bromodichloromethane | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| Bromoform | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| Bromomethane | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| 2-Butanone (MEK) | 0.022 | 0.020 | 1 | 06/06/2015 21:36 |
| t-Butyl alcohol (TBA) | ND | 0.050 | 1 | 06/06/2015 21:36 |
| n-Butyl benzene | 0.0098 | 0.0050 | 1 | 06/06/2015 21:36 |
| sec-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| tert-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| Carbon Disulfide | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| Carbon Tetrachloride | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| Chlorobenzene | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| Chloroethane | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| Chloroform | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| Chloromethane | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| 2-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| 4-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| Dibromochloromethane | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| 1,2-Dibromo-3-chloropropane | ND | 0.0040 | 1 | 06/06/2015 21:36 |
| 1,2-Dibromoethane (EDB) | ND | 0.0040 | 1 | 06/06/2015 21:36 |
| Dibromomethane | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| 1,2-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| 1,3-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| 1,4-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| Dichlorodifluoromethane | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| 1,1-Dichloroethane | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.0040 | 1 | 06/06/2015 21:36 |
| 1,1-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| cis-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| trans-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| 1,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| 1,3-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| 2,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| 1,1-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 21:36 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B11-4.0 | 1506217-020A | Soil | 06/02/2015 11:05 | GC18 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|---------------|--------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| trans-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| Diisopropyl ether (DIPE) | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| Ethylbenzene | 0.0081 | 0.0050 | 1 | 06/06/2015 21:36 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| Freon 113 | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| Hexachlorobutadiene | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| Hexachloroethane | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| 2-Hexanone | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| Isopropylbenzene | 0.0058 | 0.0050 | 1 | 06/06/2015 21:36 |
| 4-Isopropyl toluene | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| Methyl-t-butyl ether (MTBE) | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| Methylene chloride | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| Naphthalene | 0.011 | 0.0050 | 1 | 06/06/2015 21:36 |
| n-Propyl benzene | 0.024 | 0.0050 | 1 | 06/06/2015 21:36 |
| Styrene | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| Tetrachloroethene | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| Toluene | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| 1,2,3-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| 1,2,4-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| 1,1,1-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| 1,1,2-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| Trichloroethene | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| Trichlorofluoromethane | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| 1,2,3-Trichloropropane | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| Vinyl Chloride | ND | 0.0050 | 1 | 06/06/2015 21:36 |
| Xylenes, Total | ND | 0.0050 | 1 | 06/06/2015 21:36 |

(Cont.)



Analytical Report

| | |
|---|-----------------------------------|
| Client: P & D Environmental | WorkOrder: 1506217 |
| Project: #0398; Auto Depot 4171 Broadway Oakland | Extraction Method: SW5030B |
| Date Received: 6/4/15 16:29 | Analytical Method: SW8260B |
| Date Prepared: 6/4/15-6/8/15 | 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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B11-4.0 | 1506217-020A | Soil | 06/02/2015 11:05 | GC18 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|--------|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | |
| Dibromofluoromethane | 102 | 70-130 | | 06/06/2015 21:36 |
| Toluene-d8 | 95 | 70-130 | | 06/06/2015 21:36 |
| 4-BFB | 93 | 70-130 | | 06/06/2015 21:36 |
| Benzene-d6 | 121 | 60-140 | | 06/06/2015 21:36 |
| Ethylbenzene-d10 | 113 | 60-140 | | 06/06/2015 21:36 |
| 1,2-DCB-d4 | 96 | 60-140 | | 06/06/2015 21:36 |

Analyst(s): KF



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-------------------------------|---------------|----------------|------------------|------------|----------------------|
| B11-8.5 | 1506217-021A | Soil | 06/02/2015 11:10 | GC10 | 105879 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| Acetone | ND | | 4.0 | 40 | 06/09/2015 20:52 |
| tert-Amyl methyl ether (TAME) | ND | | 0.20 | 40 | 06/09/2015 20:52 |
| Benzene | ND | | 0.20 | 40 | 06/09/2015 20:52 |
| Bromobenzene | ND | | 0.20 | 40 | 06/09/2015 20:52 |
| Bromochloromethane | ND | | 0.20 | 40 | 06/09/2015 20:52 |
| Bromodichloromethane | ND | | 0.20 | 40 | 06/09/2015 20:52 |
| Bromoform | ND | | 0.20 | 40 | 06/09/2015 20:52 |
| Bromomethane | ND | | 0.20 | 40 | 06/09/2015 20:52 |
| 2-Butanone (MEK) | ND | | 0.80 | 40 | 06/09/2015 20:52 |
| t-Butyl alcohol (TBA) | ND | | 2.0 | 40 | 06/09/2015 20:52 |
| n-Butyl benzene | 0.31 | | 0.20 | 40 | 06/09/2015 20:52 |
| sec-Butyl benzene | ND | | 0.20 | 40 | 06/09/2015 20:52 |
| tert-Butyl benzene | ND | | 0.20 | 40 | 06/09/2015 20:52 |
| Carbon Disulfide | ND | | 0.20 | 40 | 06/09/2015 20:52 |
| Carbon Tetrachloride | ND | | 0.20 | 40 | 06/09/2015 20:52 |
| Chlorobenzene | ND | | 0.20 | 40 | 06/09/2015 20:52 |
| Chloroethane | ND | | 0.20 | 40 | 06/09/2015 20:52 |
| Chloroform | ND | | 0.20 | 40 | 06/09/2015 20:52 |
| Chloromethane | ND | | 0.20 | 40 | 06/09/2015 20:52 |
| 2-Chlorotoluene | ND | | 0.20 | 40 | 06/09/2015 20:52 |
| 4-Chlorotoluene | ND | | 0.20 | 40 | 06/09/2015 20:52 |
| Dibromochloromethane | ND | | 0.20 | 40 | 06/09/2015 20:52 |
| 1,2-Dibromo-3-chloropropane | ND | | 0.16 | 40 | 06/09/2015 20:52 |
| 1,2-Dibromoethane (EDB) | ND | | 0.16 | 40 | 06/09/2015 20:52 |
| Dibromomethane | ND | | 0.20 | 40 | 06/09/2015 20:52 |
| 1,2-Dichlorobenzene | ND | | 0.20 | 40 | 06/09/2015 20:52 |
| 1,3-Dichlorobenzene | ND | | 0.20 | 40 | 06/09/2015 20:52 |
| 1,4-Dichlorobenzene | ND | | 0.20 | 40 | 06/09/2015 20:52 |
| Dichlorodifluoromethane | ND | | 0.20 | 40 | 06/09/2015 20:52 |
| 1,1-Dichloroethane | ND | | 0.20 | 40 | 06/09/2015 20:52 |
| 1,2-Dichloroethane (1,2-DCA) | ND | | 0.16 | 40 | 06/09/2015 20:52 |
| 1,1-Dichloroethene | ND | | 0.20 | 40 | 06/09/2015 20:52 |
| cis-1,2-Dichloroethene | ND | | 0.20 | 40 | 06/09/2015 20:52 |
| trans-1,2-Dichloroethene | ND | | 0.20 | 40 | 06/09/2015 20:52 |
| 1,2-Dichloropropane | ND | | 0.20 | 40 | 06/09/2015 20:52 |
| 1,3-Dichloropropane | ND | | 0.20 | 40 | 06/09/2015 20:52 |
| 2,2-Dichloropropane | ND | | 0.20 | 40 | 06/09/2015 20:52 |
| 1,1-Dichloropropene | ND | | 0.20 | 40 | 06/09/2015 20:52 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-------------------------------|---------------|----------------|------------------|----------------------|----------|
| B11-8.5 | 1506217-021A | Soil | 06/02/2015 11:10 | GC10 | 105879 |
| Analytes | Result | RL | DF | Date Analyzed | |
| cis-1,3-Dichloropropene | ND | 0.20 | 40 | 06/09/2015 20:52 | |
| trans-1,3-Dichloropropene | ND | 0.20 | 40 | 06/09/2015 20:52 | |
| Diisopropyl ether (DIPE) | ND | 0.20 | 40 | 06/09/2015 20:52 | |
| Ethylbenzene | 1.2 | 0.20 | 40 | 06/09/2015 20:52 | |
| Ethyl tert-butyl ether (ETBE) | ND | 0.20 | 40 | 06/09/2015 20:52 | |
| Freon 113 | ND | 0.20 | 40 | 06/09/2015 20:52 | |
| Hexachlorobutadiene | ND | 0.20 | 40 | 06/09/2015 20:52 | |
| Hexachloroethane | ND | 0.20 | 40 | 06/09/2015 20:52 | |
| 2-Hexanone | ND | 0.20 | 40 | 06/09/2015 20:52 | |
| Isopropylbenzene | 0.20 | 0.20 | 40 | 06/09/2015 20:52 | |
| 4-Isopropyl toluene | ND | 0.20 | 40 | 06/09/2015 20:52 | |
| Methyl-t-butyl ether (MTBE) | ND | 0.20 | 40 | 06/09/2015 20:52 | |
| Methylene chloride | ND | 0.20 | 40 | 06/09/2015 20:52 | |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.20 | 40 | 06/09/2015 20:52 | |
| Naphthalene | 0.96 | 0.20 | 40 | 06/09/2015 20:52 | |
| n-Propyl benzene | 0.63 | 0.20 | 40 | 06/09/2015 20:52 | |
| Styrene | ND | 0.20 | 40 | 06/09/2015 20:52 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.20 | 40 | 06/09/2015 20:52 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.20 | 40 | 06/09/2015 20:52 | |
| Tetrachloroethene | ND | 0.20 | 40 | 06/09/2015 20:52 | |
| Toluene | ND | 0.20 | 40 | 06/09/2015 20:52 | |
| 1,2,3-Trichlorobenzene | ND | 0.20 | 40 | 06/09/2015 20:52 | |
| 1,2,4-Trichlorobenzene | ND | 0.20 | 40 | 06/09/2015 20:52 | |
| 1,1,1-Trichloroethane | ND | 0.20 | 40 | 06/09/2015 20:52 | |
| 1,1,2-Trichloroethane | ND | 0.20 | 40 | 06/09/2015 20:52 | |
| Trichloroethene | ND | 0.20 | 40 | 06/09/2015 20:52 | |
| Trichlorofluoromethane | ND | 0.20 | 40 | 06/09/2015 20:52 | |
| 1,2,3-Trichloropropane | ND | 0.20 | 40 | 06/09/2015 20:52 | |
| 1,2,4-Trimethylbenzene | 1.8 | 0.20 | 40 | 06/09/2015 20:52 | |
| 1,3,5-Trimethylbenzene | 0.29 | 0.20 | 40 | 06/09/2015 20:52 | |
| Vinyl Chloride | ND | 0.20 | 40 | 06/09/2015 20:52 | |
| Xylenes, Total | 0.34 | 0.20 | 40 | 06/09/2015 20:52 | |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B11-8.5 | 1506217-021A | Soil | 06/02/2015 11:10 | GC10 | 105879 |

| Analytes | Result | | RL | DF | Date Analyzed |
|----------------------|----------------|-------------------|---------------|----|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u> | | |
| Dibromofluoromethane | 86 | | 70-130 | | 06/09/2015 20:52 |
| Toluene-d8 | 87 | | 70-130 | | 06/09/2015 20:52 |
| 4-BFB | 83 | | 70-130 | | 06/09/2015 20:52 |
| Benzene-d6 | 58 | S | 60-140 | | 06/09/2015 20:52 |
| Ethylbenzene-d10 | 29 | S | 60-140 | | 06/09/2015 20:52 |
| 1,2-DCB-d4 | 89 | | 60-140 | | 06/09/2015 20:52 |

Analyst(s): KBO

Analytical Comments: c7



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B11-10.0 | 1506217-022A | Soil | 06/02/2015 11:15 | GC16 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| Acetone | ND | 0.10 | 1 | 06/06/2015 19:48 |
| tert-Amyl methyl ether (TAME) | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Benzene | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Bromobenzene | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Bromochloromethane | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Bromodichloromethane | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Bromoform | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Bromomethane | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| 2-Butanone (MEK) | ND | 0.020 | 1 | 06/06/2015 19:48 |
| t-Butyl alcohol (TBA) | ND | 0.050 | 1 | 06/06/2015 19:48 |
| n-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| sec-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| tert-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Carbon Disulfide | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Carbon Tetrachloride | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Chlorobenzene | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Chloroethane | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Chloroform | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Chloromethane | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| 2-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| 4-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Dibromochloromethane | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| 1,2-Dibromo-3-chloropropane | ND | 0.0040 | 1 | 06/06/2015 19:48 |
| 1,2-Dibromoethane (EDB) | ND | 0.0040 | 1 | 06/06/2015 19:48 |
| Dibromomethane | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| 1,2-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| 1,3-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| 1,4-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Dichlorodifluoromethane | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| 1,1-Dichloroethane | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.0040 | 1 | 06/06/2015 19:48 |
| 1,1-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| cis-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| trans-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| 1,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| 1,3-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| 2,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| 1,1-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 19:48 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B11-10.0 | 1506217-022A | Soil | 06/02/2015 11:15 | GC16 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| trans-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Diisopropyl ether (DIPE) | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Ethylbenzene | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Freon 113 | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Hexachlorobutadiene | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Hexachloroethane | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| 2-Hexanone | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Isopropylbenzene | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| 4-Isopropyl toluene | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Methyl-t-butyl ether (MTBE) | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Methylene chloride | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Naphthalene | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| n-Propyl benzene | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Styrene | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Tetrachloroethene | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Toluene | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| 1,2,3-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| 1,2,4-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| 1,1,1-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| 1,1,2-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Trichloroethene | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Trichlorofluoromethane | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| 1,2,3-Trichloropropane | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Vinyl Chloride | ND | 0.0050 | 1 | 06/06/2015 19:48 |
| Xylenes, Total | ND | 0.0050 | 1 | 06/06/2015 19:48 |

(Cont.)



Analytical Report

| | |
|---|-----------------------------------|
| Client: P & D Environmental | WorkOrder: 1506217 |
| Project: #0398; Auto Depot 4171 Broadway Oakland | Extraction Method: SW5030B |
| Date Received: 6/4/15 16:29 | Analytical Method: SW8260B |
| Date Prepared: 6/4/15-6/8/15 | 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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B11-10.0 | 1506217-022A | Soil | 06/02/2015 11:15 | GC16 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|--------|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | |
| Dibromofluoromethane | 104 | 70-130 | | 06/06/2015 19:48 |
| Toluene-d8 | 94 | 70-130 | | 06/06/2015 19:48 |
| 4-BFB | 95 | 70-130 | | 06/06/2015 19:48 |
| Benzene-d6 | 74 | 60-140 | | 06/06/2015 19:48 |
| Ethylbenzene-d10 | 79 | 60-140 | | 06/06/2015 19:48 |
| 1,2-DCB-d4 | 83 | 60-140 | | 06/06/2015 19:48 |

Analyst(s): KF



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B11-18.0 | 1506217-023A | Soil | 06/02/2015 11:25 | GC16 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| Acetone | ND | 0.10 | 1 | 06/06/2015 20:31 |
| tert-Amyl methyl ether (TAME) | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Benzene | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Bromobenzene | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Bromochloromethane | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Bromodichloromethane | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Bromoform | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Bromomethane | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| 2-Butanone (MEK) | ND | 0.020 | 1 | 06/06/2015 20:31 |
| t-Butyl alcohol (TBA) | ND | 0.050 | 1 | 06/06/2015 20:31 |
| n-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| sec-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| tert-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Carbon Disulfide | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Carbon Tetrachloride | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Chlorobenzene | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Chloroethane | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Chloroform | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Chloromethane | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| 2-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| 4-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Dibromochloromethane | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| 1,2-Dibromo-3-chloropropane | ND | 0.0040 | 1 | 06/06/2015 20:31 |
| 1,2-Dibromoethane (EDB) | ND | 0.0040 | 1 | 06/06/2015 20:31 |
| Dibromomethane | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| 1,2-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| 1,3-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| 1,4-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Dichlorodifluoromethane | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| 1,1-Dichloroethane | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.0040 | 1 | 06/06/2015 20:31 |
| 1,1-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| cis-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| trans-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| 1,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| 1,3-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| 2,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| 1,1-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 20:31 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B11-18.0 | 1506217-023A | Soil | 06/02/2015 11:25 | GC16 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| trans-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Diisopropyl ether (DIPE) | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Ethylbenzene | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Freon 113 | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Hexachlorobutadiene | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Hexachloroethane | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| 2-Hexanone | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Isopropylbenzene | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| 4-Isopropyl toluene | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Methyl-t-butyl ether (MTBE) | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Methylene chloride | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Naphthalene | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| n-Propyl benzene | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Styrene | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Tetrachloroethene | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Toluene | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| 1,2,3-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| 1,2,4-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| 1,1,1-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| 1,1,2-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Trichloroethene | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Trichlorofluoromethane | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| 1,2,3-Trichloropropane | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Vinyl Chloride | ND | 0.0050 | 1 | 06/06/2015 20:31 |
| Xylenes, Total | ND | 0.0050 | 1 | 06/06/2015 20:31 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B11-18.0 | 1506217-023A | Soil | 06/02/2015 11:25 | GC16 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|---------------|----|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | | |
| Dibromofluoromethane | 104 | 70-130 | | 06/06/2015 20:31 |
| Toluene-d8 | 94 | 70-130 | | 06/06/2015 20:31 |
| 4-BFB | 92 | 70-130 | | 06/06/2015 20:31 |
| Benzene-d6 | 70 | 60-140 | | 06/06/2015 20:31 |
| Ethylbenzene-d10 | 75 | 60-140 | | 06/06/2015 20:31 |
| 1,2-DCB-d4 | 80 | 60-140 | | 06/06/2015 20:31 |

Analyst(s): KF



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-------------------------------|---------------|----------------|------------------|------------|----------------------|
| B12-4.0 | 1506217-024A | Soil | 06/03/2015 08:35 | GC18 | 105879 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| Acetone | ND | | 0.20 | 2 | 06/07/2015 01:26 |
| tert-Amyl methyl ether (TAME) | ND | | 0.010 | 2 | 06/07/2015 01:26 |
| Benzene | 0.012 | | 0.010 | 2 | 06/07/2015 01:26 |
| Bromobenzene | ND | | 0.010 | 2 | 06/07/2015 01:26 |
| Bromochloromethane | ND | | 0.010 | 2 | 06/07/2015 01:26 |
| Bromodichloromethane | ND | | 0.010 | 2 | 06/07/2015 01:26 |
| Bromoform | ND | | 0.010 | 2 | 06/07/2015 01:26 |
| Bromomethane | ND | | 0.010 | 2 | 06/07/2015 01:26 |
| 2-Butanone (MEK) | ND | | 0.040 | 2 | 06/07/2015 01:26 |
| t-Butyl alcohol (TBA) | ND | | 0.10 | 2 | 06/07/2015 01:26 |
| n-Butyl benzene | 0.022 | | 0.010 | 2 | 06/07/2015 01:26 |
| sec-Butyl benzene | ND | | 0.010 | 2 | 06/07/2015 01:26 |
| tert-Butyl benzene | ND | | 0.010 | 2 | 06/07/2015 01:26 |
| Carbon Disulfide | ND | | 0.010 | 2 | 06/07/2015 01:26 |
| Carbon Tetrachloride | ND | | 0.010 | 2 | 06/07/2015 01:26 |
| Chlorobenzene | ND | | 0.010 | 2 | 06/07/2015 01:26 |
| Chloroethane | ND | | 0.010 | 2 | 06/07/2015 01:26 |
| Chloroform | ND | | 0.010 | 2 | 06/07/2015 01:26 |
| Chloromethane | ND | | 0.010 | 2 | 06/07/2015 01:26 |
| 2-Chlorotoluene | ND | | 0.010 | 2 | 06/07/2015 01:26 |
| 4-Chlorotoluene | ND | | 0.010 | 2 | 06/07/2015 01:26 |
| Dibromochloromethane | ND | | 0.010 | 2 | 06/07/2015 01:26 |
| 1,2-Dibromo-3-chloropropane | ND | | 0.0080 | 2 | 06/07/2015 01:26 |
| 1,2-Dibromoethane (EDB) | ND | | 0.0080 | 2 | 06/07/2015 01:26 |
| Dibromomethane | ND | | 0.010 | 2 | 06/07/2015 01:26 |
| 1,2-Dichlorobenzene | ND | | 0.010 | 2 | 06/07/2015 01:26 |
| 1,3-Dichlorobenzene | ND | | 0.010 | 2 | 06/07/2015 01:26 |
| 1,4-Dichlorobenzene | ND | | 0.010 | 2 | 06/07/2015 01:26 |
| Dichlorodifluoromethane | ND | | 0.010 | 2 | 06/07/2015 01:26 |
| 1,1-Dichloroethane | ND | | 0.010 | 2 | 06/07/2015 01:26 |
| 1,2-Dichloroethane (1,2-DCA) | ND | | 0.0080 | 2 | 06/07/2015 01:26 |
| 1,1-Dichloroethene | ND | | 0.010 | 2 | 06/07/2015 01:26 |
| cis-1,2-Dichloroethene | ND | | 0.010 | 2 | 06/07/2015 01:26 |
| trans-1,2-Dichloroethene | ND | | 0.010 | 2 | 06/07/2015 01:26 |
| 1,2-Dichloropropane | ND | | 0.010 | 2 | 06/07/2015 01:26 |
| 1,3-Dichloropropane | ND | | 0.010 | 2 | 06/07/2015 01:26 |
| 2,2-Dichloropropane | ND | | 0.010 | 2 | 06/07/2015 01:26 |
| 1,1-Dichloropropene | ND | | 0.010 | 2 | 06/07/2015 01:26 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B12-4.0 | 1506217-024A | Soil | 06/03/2015 08:35 | GC18 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------------|-------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.010 | 2 | 06/07/2015 01:26 |
| trans-1,3-Dichloropropene | ND | 0.010 | 2 | 06/07/2015 01:26 |
| Diisopropyl ether (DIPE) | ND | 0.010 | 2 | 06/07/2015 01:26 |
| Ethylbenzene | ND | 0.010 | 2 | 06/07/2015 01:26 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.010 | 2 | 06/07/2015 01:26 |
| Freon 113 | ND | 0.010 | 2 | 06/07/2015 01:26 |
| Hexachlorobutadiene | ND | 0.010 | 2 | 06/07/2015 01:26 |
| Hexachloroethane | ND | 0.010 | 2 | 06/07/2015 01:26 |
| 2-Hexanone | ND | 0.010 | 2 | 06/07/2015 01:26 |
| Isopropylbenzene | ND | 0.010 | 2 | 06/07/2015 01:26 |
| 4-Isopropyl toluene | ND | 0.010 | 2 | 06/07/2015 01:26 |
| Methyl-t-butyl ether (MTBE) | ND | 0.010 | 2 | 06/07/2015 01:26 |
| Methylene chloride | ND | 0.010 | 2 | 06/07/2015 01:26 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.010 | 2 | 06/07/2015 01:26 |
| Naphthalene | ND | 0.010 | 2 | 06/07/2015 01:26 |
| n-Propyl benzene | 0.014 | 0.010 | 2 | 06/07/2015 01:26 |
| Styrene | ND | 0.010 | 2 | 06/07/2015 01:26 |
| 1,1,1,2-Tetrachloroethane | ND | 0.010 | 2 | 06/07/2015 01:26 |
| 1,1,2,2-Tetrachloroethane | ND | 0.010 | 2 | 06/07/2015 01:26 |
| Tetrachloroethene | ND | 0.010 | 2 | 06/07/2015 01:26 |
| Toluene | ND | 0.010 | 2 | 06/07/2015 01:26 |
| 1,2,3-Trichlorobenzene | ND | 0.010 | 2 | 06/07/2015 01:26 |
| 1,2,4-Trichlorobenzene | ND | 0.010 | 2 | 06/07/2015 01:26 |
| 1,1,1-Trichloroethane | ND | 0.010 | 2 | 06/07/2015 01:26 |
| 1,1,2-Trichloroethane | ND | 0.010 | 2 | 06/07/2015 01:26 |
| Trichloroethene | ND | 0.010 | 2 | 06/07/2015 01:26 |
| Trichlorofluoromethane | ND | 0.010 | 2 | 06/07/2015 01:26 |
| 1,2,3-Trichloropropane | ND | 0.010 | 2 | 06/07/2015 01:26 |
| 1,2,4-Trimethylbenzene | ND | 0.010 | 2 | 06/07/2015 01:26 |
| 1,3,5-Trimethylbenzene | ND | 0.010 | 2 | 06/07/2015 01:26 |
| Vinyl Chloride | ND | 0.010 | 2 | 06/07/2015 01:26 |
| Xylenes, Total | ND | 0.010 | 2 | 06/07/2015 01:26 |

(Cont.)



Analytical Report

| | |
|---|-----------------------------------|
| Client: P & D Environmental | WorkOrder: 1506217 |
| Project: #0398; Auto Depot 4171 Broadway Oakland | Extraction Method: SW5030B |
| Date Received: 6/4/15 16:29 | Analytical Method: SW8260B |
| Date Prepared: 6/4/15-6/8/15 | 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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B12-4.0 | 1506217-024A | Soil | 06/03/2015 08:35 | GC18 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|--------|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | |
| Dibromofluoromethane | 107 | 70-130 | | 06/07/2015 01:26 |
| Toluene-d8 | 92 | 70-130 | | 06/07/2015 01:26 |
| 4-BFB | 91 | 70-130 | | 06/07/2015 01:26 |
| Benzene-d6 | 130 | 60-140 | | 06/07/2015 01:26 |
| Ethylbenzene-d10 | 117 | 60-140 | | 06/07/2015 01:26 |
| 1,2-DCB-d4 | 103 | 60-140 | | 06/07/2015 01:26 |

Analyst(s): KF



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B12-7.0 | 1506217-025A | Soil | 06/03/2015 08:40 | GC16 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|------|-----|------------------|
| Acetone | ND | 10 | 100 | 06/09/2015 01:36 |
| tert-Amyl methyl ether (TAME) | ND | 0.50 | 100 | 06/09/2015 01:36 |
| Benzene | ND | 0.50 | 100 | 06/09/2015 01:36 |
| Bromobenzene | ND | 0.50 | 100 | 06/09/2015 01:36 |
| Bromochloromethane | ND | 0.50 | 100 | 06/09/2015 01:36 |
| Bromodichloromethane | ND | 0.50 | 100 | 06/09/2015 01:36 |
| Bromoform | ND | 0.50 | 100 | 06/09/2015 01:36 |
| Bromomethane | ND | 0.50 | 100 | 06/09/2015 01:36 |
| 2-Butanone (MEK) | ND | 2.0 | 100 | 06/09/2015 01:36 |
| t-Butyl alcohol (TBA) | ND | 5.0 | 100 | 06/09/2015 01:36 |
| n-Butyl benzene | ND | 0.50 | 100 | 06/09/2015 01:36 |
| sec-Butyl benzene | ND | 0.50 | 100 | 06/09/2015 01:36 |
| tert-Butyl benzene | ND | 0.50 | 100 | 06/09/2015 01:36 |
| Carbon Disulfide | ND | 0.50 | 100 | 06/09/2015 01:36 |
| Carbon Tetrachloride | ND | 0.50 | 100 | 06/09/2015 01:36 |
| Chlorobenzene | ND | 0.50 | 100 | 06/09/2015 01:36 |
| Chloroethane | ND | 0.50 | 100 | 06/09/2015 01:36 |
| Chloroform | ND | 0.50 | 100 | 06/09/2015 01:36 |
| Chloromethane | ND | 0.50 | 100 | 06/09/2015 01:36 |
| 2-Chlorotoluene | ND | 0.50 | 100 | 06/09/2015 01:36 |
| 4-Chlorotoluene | ND | 0.50 | 100 | 06/09/2015 01:36 |
| Dibromochloromethane | ND | 0.50 | 100 | 06/09/2015 01:36 |
| 1,2-Dibromo-3-chloropropane | ND | 0.40 | 100 | 06/09/2015 01:36 |
| 1,2-Dibromoethane (EDB) | ND | 0.40 | 100 | 06/09/2015 01:36 |
| Dibromomethane | ND | 0.50 | 100 | 06/09/2015 01:36 |
| 1,2-Dichlorobenzene | ND | 0.50 | 100 | 06/09/2015 01:36 |
| 1,3-Dichlorobenzene | ND | 0.50 | 100 | 06/09/2015 01:36 |
| 1,4-Dichlorobenzene | ND | 0.50 | 100 | 06/09/2015 01:36 |
| Dichlorodifluoromethane | ND | 0.50 | 100 | 06/09/2015 01:36 |
| 1,1-Dichloroethane | ND | 0.50 | 100 | 06/09/2015 01:36 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.40 | 100 | 06/09/2015 01:36 |
| 1,1-Dichloroethene | ND | 0.50 | 100 | 06/09/2015 01:36 |
| cis-1,2-Dichloroethene | ND | 0.50 | 100 | 06/09/2015 01:36 |
| trans-1,2-Dichloroethene | ND | 0.50 | 100 | 06/09/2015 01:36 |
| 1,2-Dichloropropane | ND | 0.50 | 100 | 06/09/2015 01:36 |
| 1,3-Dichloropropane | ND | 0.50 | 100 | 06/09/2015 01:36 |
| 2,2-Dichloropropane | ND | 0.50 | 100 | 06/09/2015 01:36 |
| 1,1-Dichloropropene | ND | 0.50 | 100 | 06/09/2015 01:36 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B12-7.0 | 1506217-025A | Soil | 06/03/2015 08:40 | GC16 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|------|-----|------------------|
| cis-1,3-Dichloropropene | ND | 0.50 | 100 | 06/09/2015 01:36 |
| trans-1,3-Dichloropropene | ND | 0.50 | 100 | 06/09/2015 01:36 |
| Diisopropyl ether (DIPE) | ND | 0.50 | 100 | 06/09/2015 01:36 |
| Ethylbenzene | 1.9 | 0.50 | 100 | 06/09/2015 01:36 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.50 | 100 | 06/09/2015 01:36 |
| Freon 113 | ND | 0.50 | 100 | 06/09/2015 01:36 |
| Hexachlorobutadiene | ND | 0.50 | 100 | 06/09/2015 01:36 |
| Hexachloroethane | ND | 0.50 | 100 | 06/09/2015 01:36 |
| 2-Hexanone | ND | 0.50 | 100 | 06/09/2015 01:36 |
| Isopropylbenzene | ND | 0.50 | 100 | 06/09/2015 01:36 |
| 4-Isopropyl toluene | ND | 0.50 | 100 | 06/09/2015 01:36 |
| Methyl-t-butyl ether (MTBE) | ND | 0.50 | 100 | 06/09/2015 01:36 |
| Methylene chloride | ND | 0.50 | 100 | 06/09/2015 01:36 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.50 | 100 | 06/09/2015 01:36 |
| Naphthalene | 2.4 | 0.50 | 100 | 06/09/2015 01:36 |
| n-Propyl benzene | 1.1 | 0.50 | 100 | 06/09/2015 01:36 |
| Styrene | ND | 0.50 | 100 | 06/09/2015 01:36 |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | 100 | 06/09/2015 01:36 |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | 100 | 06/09/2015 01:36 |
| Tetrachloroethene | ND | 0.50 | 100 | 06/09/2015 01:36 |
| Toluene | ND | 0.50 | 100 | 06/09/2015 01:36 |
| 1,2,3-Trichlorobenzene | ND | 0.50 | 100 | 06/09/2015 01:36 |
| 1,2,4-Trichlorobenzene | ND | 0.50 | 100 | 06/09/2015 01:36 |
| 1,1,1-Trichloroethane | ND | 0.50 | 100 | 06/09/2015 01:36 |
| 1,1,2-Trichloroethane | ND | 0.50 | 100 | 06/09/2015 01:36 |
| Trichloroethene | ND | 0.50 | 100 | 06/09/2015 01:36 |
| Trichlorofluoromethane | ND | 0.50 | 100 | 06/09/2015 01:36 |
| 1,2,3-Trichloropropane | ND | 0.50 | 100 | 06/09/2015 01:36 |
| 1,2,4-Trimethylbenzene | ND | 0.50 | 100 | 06/09/2015 01:36 |
| 1,3,5-Trimethylbenzene | ND | 0.50 | 100 | 06/09/2015 01:36 |
| Vinyl Chloride | ND | 0.50 | 100 | 06/09/2015 01:36 |
| Xylenes, Total | ND | 0.50 | 100 | 06/09/2015 01:36 |

(Cont.)



Analytical Report

| | |
|---|-----------------------------------|
| Client: P & D Environmental | WorkOrder: 1506217 |
| Project: #0398; Auto Depot 4171 Broadway Oakland | Extraction Method: SW5030B |
| Date Received: 6/4/15 16:29 | Analytical Method: SW8260B |
| Date Prepared: 6/4/15-6/8/15 | 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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B12-7.0 | 1506217-025A | Soil | 06/03/2015 08:40 | GC16 | 105879 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|-------------------|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u> | |
| Dibromofluoromethane | 110 | | 70-130 | 06/09/2015 01:36 |
| Toluene-d8 | 87 | | 70-130 | 06/09/2015 01:36 |
| 4-BFB | 87 | | 70-130 | 06/09/2015 01:36 |
| Benzene-d6 | 106 | | 60-140 | 06/09/2015 01:36 |
| Ethylbenzene-d10 | 108 | | 60-140 | 06/09/2015 01:36 |
| 1,2-DCB-d4 | 2 | S | 60-140 | 06/09/2015 01:36 |

Analyst(s): KF **Analytical Comments:** c7



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B12-11.0 | 1506217-026A | Soil | 06/03/2015 08:45 | GC18 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------------|--------|----|------------------|
| Acetone | ND | 0.10 | 1 | 06/06/2015 22:15 |
| tert-Amyl methyl ether (TAME) | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| Benzene | 0.047 | 0.0050 | 1 | 06/06/2015 22:15 |
| Bromobenzene | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| Bromochloromethane | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| Bromodichloromethane | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| Bromoform | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| Bromomethane | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| 2-Butanone (MEK) | ND | 0.020 | 1 | 06/06/2015 22:15 |
| t-Butyl alcohol (TBA) | ND | 0.050 | 1 | 06/06/2015 22:15 |
| n-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| sec-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| tert-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| Carbon Disulfide | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| Carbon Tetrachloride | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| Chlorobenzene | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| Chloroethane | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| Chloroform | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| Chloromethane | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| 2-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| 4-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| Dibromochloromethane | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| 1,2-Dibromo-3-chloropropane | ND | 0.0040 | 1 | 06/06/2015 22:15 |
| 1,2-Dibromoethane (EDB) | ND | 0.0040 | 1 | 06/06/2015 22:15 |
| Dibromomethane | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| 1,2-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| 1,3-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| 1,4-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| Dichlorodifluoromethane | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| 1,1-Dichloroethane | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.0040 | 1 | 06/06/2015 22:15 |
| 1,1-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| cis-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| trans-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| 1,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| 1,3-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| 2,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| 1,1-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 22:15 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B12-11.0 | 1506217-026A | Soil | 06/03/2015 08:45 | GC18 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| trans-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| Diisopropyl ether (DIPE) | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| Ethylbenzene | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| Freon 113 | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| Hexachlorobutadiene | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| Hexachloroethane | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| 2-Hexanone | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| Isopropylbenzene | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| 4-Isopropyl toluene | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| Methyl-t-butyl ether (MTBE) | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| Methylene chloride | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| Naphthalene | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| n-Propyl benzene | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| Styrene | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| Tetrachloroethene | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| Toluene | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| 1,2,3-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| 1,2,4-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| 1,1,1-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| 1,1,2-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| Trichloroethene | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| Trichlorofluoromethane | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| 1,2,3-Trichloropropane | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| Vinyl Chloride | ND | 0.0050 | 1 | 06/06/2015 22:15 |
| Xylenes, Total | ND | 0.0050 | 1 | 06/06/2015 22:15 |

(Cont.)



Analytical Report

| | |
|---|-----------------------------------|
| Client: P & D Environmental | WorkOrder: 1506217 |
| Project: #0398; Auto Depot 4171 Broadway Oakland | Extraction Method: SW5030B |
| Date Received: 6/4/15 16:29 | Analytical Method: SW8260B |
| Date Prepared: 6/4/15-6/8/15 | 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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B12-11.0 | 1506217-026A | Soil | 06/03/2015 08:45 | GC18 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|--------|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | |
| Dibromofluoromethane | 103 | 70-130 | | 06/06/2015 22:15 |
| Toluene-d8 | 99 | 70-130 | | 06/06/2015 22:15 |
| 4-BFB | 104 | 70-130 | | 06/06/2015 22:15 |
| Benzene-d6 | 126 | 60-140 | | 06/06/2015 22:15 |
| Ethylbenzene-d10 | 116 | 60-140 | | 06/06/2015 22:15 |
| 1,2-DCB-d4 | 97 | 60-140 | | 06/06/2015 22:15 |

Analyst(s): KF



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B12-19.0 | 1506217-027A | Soil | 06/03/2015 10:40 | GC16 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| Acetone | ND | 0.10 | 1 | 06/06/2015 21:13 |
| tert-Amyl methyl ether (TAME) | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Benzene | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Bromobenzene | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Bromochloromethane | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Bromodichloromethane | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Bromoform | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Bromomethane | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| 2-Butanone (MEK) | ND | 0.020 | 1 | 06/06/2015 21:13 |
| t-Butyl alcohol (TBA) | ND | 0.050 | 1 | 06/06/2015 21:13 |
| n-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| sec-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| tert-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Carbon Disulfide | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Carbon Tetrachloride | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Chlorobenzene | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Chloroethane | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Chloroform | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Chloromethane | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| 2-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| 4-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Dibromochloromethane | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| 1,2-Dibromo-3-chloropropane | ND | 0.0040 | 1 | 06/06/2015 21:13 |
| 1,2-Dibromoethane (EDB) | ND | 0.0040 | 1 | 06/06/2015 21:13 |
| Dibromomethane | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| 1,2-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| 1,3-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| 1,4-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Dichlorodifluoromethane | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| 1,1-Dichloroethane | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.0040 | 1 | 06/06/2015 21:13 |
| 1,1-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| cis-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| trans-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| 1,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| 1,3-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| 2,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| 1,1-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 21:13 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B12-19.0 | 1506217-027A | Soil | 06/03/2015 10:40 | GC16 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| trans-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Diisopropyl ether (DIPE) | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Ethylbenzene | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Freon 113 | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Hexachlorobutadiene | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Hexachloroethane | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| 2-Hexanone | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Isopropylbenzene | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| 4-Isopropyl toluene | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Methyl-t-butyl ether (MTBE) | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Methylene chloride | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Naphthalene | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| n-Propyl benzene | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Styrene | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Tetrachloroethene | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Toluene | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| 1,2,3-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| 1,2,4-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| 1,1,1-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| 1,1,2-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Trichloroethene | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Trichlorofluoromethane | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| 1,2,3-Trichloropropane | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Vinyl Chloride | ND | 0.0050 | 1 | 06/06/2015 21:13 |
| Xylenes, Total | ND | 0.0050 | 1 | 06/06/2015 21:13 |

(Cont.)



Analytical Report

| | |
|---|-----------------------------------|
| Client: P & D Environmental | WorkOrder: 1506217 |
| Project: #0398; Auto Depot 4171 Broadway Oakland | Extraction Method: SW5030B |
| Date Received: 6/4/15 16:29 | Analytical Method: SW8260B |
| Date Prepared: 6/4/15-6/8/15 | 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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B12-19.0 | 1506217-027A | Soil | 06/03/2015 10:40 | GC16 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|--------|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | |
| Dibromofluoromethane | 103 | 70-130 | | 06/06/2015 21:13 |
| Toluene-d8 | 95 | 70-130 | | 06/06/2015 21:13 |
| 4-BFB | 94 | 70-130 | | 06/06/2015 21:13 |
| Benzene-d6 | 75 | 60-140 | | 06/06/2015 21:13 |
| Ethylbenzene-d10 | 76 | 60-140 | | 06/06/2015 21:13 |
| 1,2-DCB-d4 | 85 | 60-140 | | 06/06/2015 21:13 |

Analyst(s): KF



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B13-4.0 | 1506217-028A | Soil | 06/02/2015 12:35 | GC16 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| Acetone | ND | 0.10 | 1 | 06/06/2015 21:56 |
| tert-Amyl methyl ether (TAME) | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Benzene | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Bromobenzene | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Bromochloromethane | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Bromodichloromethane | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Bromoform | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Bromomethane | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| 2-Butanone (MEK) | ND | 0.020 | 1 | 06/06/2015 21:56 |
| t-Butyl alcohol (TBA) | ND | 0.050 | 1 | 06/06/2015 21:56 |
| n-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| sec-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| tert-Butyl benzene | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Carbon Disulfide | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Carbon Tetrachloride | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Chlorobenzene | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Chloroethane | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Chloroform | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Chloromethane | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| 2-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| 4-Chlorotoluene | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Dibromochloromethane | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| 1,2-Dibromo-3-chloropropane | ND | 0.0040 | 1 | 06/06/2015 21:56 |
| 1,2-Dibromoethane (EDB) | ND | 0.0040 | 1 | 06/06/2015 21:56 |
| Dibromomethane | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| 1,2-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| 1,3-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| 1,4-Dichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Dichlorodifluoromethane | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| 1,1-Dichloroethane | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.0040 | 1 | 06/06/2015 21:56 |
| 1,1-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| cis-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| trans-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| 1,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| 1,3-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| 2,2-Dichloropropane | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| 1,1-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 21:56 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B13-4.0 | 1506217-028A | Soil | 06/02/2015 12:35 | GC16 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| trans-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Diisopropyl ether (DIPE) | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Ethylbenzene | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Freon 113 | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Hexachlorobutadiene | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Hexachloroethane | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| 2-Hexanone | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Isopropylbenzene | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| 4-Isopropyl toluene | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Methyl-t-butyl ether (MTBE) | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Methylene chloride | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Naphthalene | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| n-Propyl benzene | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Styrene | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Tetrachloroethene | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Toluene | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| 1,2,3-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| 1,2,4-Trichlorobenzene | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| 1,1,1-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| 1,1,2-Trichloroethane | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Trichloroethene | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Trichlorofluoromethane | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| 1,2,3-Trichloropropane | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Vinyl Chloride | ND | 0.0050 | 1 | 06/06/2015 21:56 |
| Xylenes, Total | ND | 0.0050 | 1 | 06/06/2015 21:56 |

(Cont.)



Analytical Report

Client: P & D Environmental **WorkOrder:** 1506217
Project: #0398; Auto Depot 4171 Broadway Oakland **Extraction Method:** SW5030B
Date Received: 6/4/15 16:29 **Analytical Method:** SW8260B
Date Prepared: 6/4/15-6/8/15 **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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B13-4.0 | 1506217-028A | Soil | 06/02/2015 12:35 | GC16 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|---------------|----|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | | |
| Dibromofluoromethane | 104 | 70-130 | | 06/06/2015 21:56 |
| Toluene-d8 | 94 | 70-130 | | 06/06/2015 21:56 |
| 4-BFB | 93 | 70-130 | | 06/06/2015 21:56 |
| Benzene-d6 | 75 | 60-140 | | 06/06/2015 21:56 |
| Ethylbenzene-d10 | 79 | 60-140 | | 06/06/2015 21:56 |
| 1,2-DCB-d4 | 83 | 60-140 | | 06/06/2015 21:56 |

Analyst(s): KF



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-------------------------------|---------------|----------------|------------------|------------|----------------------|
| B13-8.5 | 1506217-029A | Soil | 06/02/2015 12:40 | GC16 | 105880 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| Acetone | ND | | 0.50 | 5 | 06/09/2015 02:18 |
| tert-Amyl methyl ether (TAME) | ND | | 0.025 | 5 | 06/09/2015 02:18 |
| Benzene | ND | | 0.025 | 5 | 06/09/2015 02:18 |
| Bromobenzene | ND | | 0.025 | 5 | 06/09/2015 02:18 |
| Bromochloromethane | ND | | 0.025 | 5 | 06/09/2015 02:18 |
| Bromodichloromethane | ND | | 0.025 | 5 | 06/09/2015 02:18 |
| Bromoform | ND | | 0.025 | 5 | 06/09/2015 02:18 |
| Bromomethane | ND | | 0.025 | 5 | 06/09/2015 02:18 |
| 2-Butanone (MEK) | ND | | 0.10 | 5 | 06/09/2015 02:18 |
| t-Butyl alcohol (TBA) | ND | | 0.25 | 5 | 06/09/2015 02:18 |
| n-Butyl benzene | 0.095 | | 0.025 | 5 | 06/09/2015 02:18 |
| sec-Butyl benzene | 0.030 | | 0.025 | 5 | 06/09/2015 02:18 |
| tert-Butyl benzene | ND | | 0.025 | 5 | 06/09/2015 02:18 |
| Carbon Disulfide | ND | | 0.025 | 5 | 06/09/2015 02:18 |
| Carbon Tetrachloride | ND | | 0.025 | 5 | 06/09/2015 02:18 |
| Chlorobenzene | ND | | 0.025 | 5 | 06/09/2015 02:18 |
| Chloroethane | ND | | 0.025 | 5 | 06/09/2015 02:18 |
| Chloroform | ND | | 0.025 | 5 | 06/09/2015 02:18 |
| Chloromethane | ND | | 0.025 | 5 | 06/09/2015 02:18 |
| 2-Chlorotoluene | ND | | 0.025 | 5 | 06/09/2015 02:18 |
| 4-Chlorotoluene | ND | | 0.025 | 5 | 06/09/2015 02:18 |
| Dibromochloromethane | ND | | 0.025 | 5 | 06/09/2015 02:18 |
| 1,2-Dibromo-3-chloropropane | ND | | 0.020 | 5 | 06/09/2015 02:18 |
| 1,2-Dibromoethane (EDB) | ND | | 0.020 | 5 | 06/09/2015 02:18 |
| Dibromomethane | ND | | 0.025 | 5 | 06/09/2015 02:18 |
| 1,2-Dichlorobenzene | ND | | 0.025 | 5 | 06/09/2015 02:18 |
| 1,3-Dichlorobenzene | ND | | 0.025 | 5 | 06/09/2015 02:18 |
| 1,4-Dichlorobenzene | ND | | 0.025 | 5 | 06/09/2015 02:18 |
| Dichlorodifluoromethane | ND | | 0.025 | 5 | 06/09/2015 02:18 |
| 1,1-Dichloroethane | ND | | 0.025 | 5 | 06/09/2015 02:18 |
| 1,2-Dichloroethane (1,2-DCA) | ND | | 0.020 | 5 | 06/09/2015 02:18 |
| 1,1-Dichloroethene | ND | | 0.025 | 5 | 06/09/2015 02:18 |
| cis-1,2-Dichloroethene | ND | | 0.025 | 5 | 06/09/2015 02:18 |
| trans-1,2-Dichloroethene | ND | | 0.025 | 5 | 06/09/2015 02:18 |
| 1,2-Dichloropropane | ND | | 0.025 | 5 | 06/09/2015 02:18 |
| 1,3-Dichloropropane | ND | | 0.025 | 5 | 06/09/2015 02:18 |
| 2,2-Dichloropropane | ND | | 0.025 | 5 | 06/09/2015 02:18 |
| 1,1-Dichloropropene | ND | | 0.025 | 5 | 06/09/2015 02:18 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B13-8.5 | 1506217-029A | Soil | 06/02/2015 12:40 | GC16 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------------|-------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.025 | 5 | 06/09/2015 02:18 |
| trans-1,3-Dichloropropene | ND | 0.025 | 5 | 06/09/2015 02:18 |
| Diisopropyl ether (DIPE) | ND | 0.025 | 5 | 06/09/2015 02:18 |
| Ethylbenzene | 0.28 | 0.025 | 5 | 06/09/2015 02:18 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.025 | 5 | 06/09/2015 02:18 |
| Freon 113 | ND | 0.025 | 5 | 06/09/2015 02:18 |
| Hexachlorobutadiene | ND | 0.025 | 5 | 06/09/2015 02:18 |
| Hexachloroethane | ND | 0.025 | 5 | 06/09/2015 02:18 |
| 2-Hexanone | ND | 0.025 | 5 | 06/09/2015 02:18 |
| Isopropylbenzene | 0.059 | 0.025 | 5 | 06/09/2015 02:18 |
| 4-Isopropyl toluene | ND | 0.025 | 5 | 06/09/2015 02:18 |
| Methyl-t-butyl ether (MTBE) | ND | 0.025 | 5 | 06/09/2015 02:18 |
| Methylene chloride | ND | 0.025 | 5 | 06/09/2015 02:18 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.025 | 5 | 06/09/2015 02:18 |
| Naphthalene | 0.51 | 0.025 | 5 | 06/09/2015 02:18 |
| n-Propyl benzene | 0.18 | 0.025 | 5 | 06/09/2015 02:18 |
| Styrene | ND | 0.025 | 5 | 06/09/2015 02:18 |
| 1,1,1,2-Tetrachloroethane | ND | 0.025 | 5 | 06/09/2015 02:18 |
| 1,1,2,2-Tetrachloroethane | ND | 0.025 | 5 | 06/09/2015 02:18 |
| Tetrachloroethene | ND | 0.025 | 5 | 06/09/2015 02:18 |
| Toluene | ND | 0.025 | 5 | 06/09/2015 02:18 |
| 1,2,3-Trichlorobenzene | ND | 0.025 | 5 | 06/09/2015 02:18 |
| 1,2,4-Trichlorobenzene | ND | 0.025 | 5 | 06/09/2015 02:18 |
| 1,1,1-Trichloroethane | ND | 0.025 | 5 | 06/09/2015 02:18 |
| 1,1,2-Trichloroethane | ND | 0.025 | 5 | 06/09/2015 02:18 |
| Trichloroethene | ND | 0.025 | 5 | 06/09/2015 02:18 |
| Trichlorofluoromethane | ND | 0.025 | 5 | 06/09/2015 02:18 |
| 1,2,3-Trichloropropane | ND | 0.025 | 5 | 06/09/2015 02:18 |
| 1,2,4-Trimethylbenzene | 0.27 | 0.025 | 5 | 06/09/2015 02:18 |
| 1,3,5-Trimethylbenzene | 0.040 | 0.025 | 5 | 06/09/2015 02:18 |
| Vinyl Chloride | ND | 0.025 | 5 | 06/09/2015 02:18 |
| Xylenes, Total | 0.19 | 0.025 | 5 | 06/09/2015 02:18 |

(Cont.)



Analytical Report

| | |
|---|-----------------------------------|
| Client: P & D Environmental | WorkOrder: 1506217 |
| Project: #0398; Auto Depot 4171 Broadway Oakland | Extraction Method: SW5030B |
| Date Received: 6/4/15 16:29 | Analytical Method: SW8260B |
| Date Prepared: 6/4/15-6/8/15 | 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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B13-8.5 | 1506217-029A | Soil | 06/02/2015 12:40 | GC16 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|-------------------|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u> | |
| Dibromofluoromethane | 119 | | 70-130 | 06/09/2015 02:18 |
| Toluene-d8 | 91 | | 70-130 | 06/09/2015 02:18 |
| 4-BFB | 107 | | 70-130 | 06/09/2015 02:18 |
| Benzene-d6 | 50 | S | 60-140 | 06/09/2015 02:18 |
| Ethylbenzene-d10 | 54 | S | 60-140 | 06/09/2015 02:18 |
| 1,2-DCB-d4 | 55 | S | 60-140 | 06/09/2015 02:18 |

Analyst(s): KF

Analytical Comments: c7



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B13-10.0 | 1506217-030A | Soil | 06/02/2015 12:45 | GC16 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| Acetone | ND | 0.10 | 1 | 06/10/2015 00:55 |
| tert-Amyl methyl ether (TAME) | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Benzene | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Bromobenzene | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Bromochloromethane | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Bromodichloromethane | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Bromoform | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Bromomethane | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| 2-Butanone (MEK) | ND | 0.020 | 1 | 06/10/2015 00:55 |
| t-Butyl alcohol (TBA) | ND | 0.050 | 1 | 06/10/2015 00:55 |
| n-Butyl benzene | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| sec-Butyl benzene | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| tert-Butyl benzene | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Carbon Disulfide | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Carbon Tetrachloride | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Chlorobenzene | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Chloroethane | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Chloroform | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Chloromethane | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| 2-Chlorotoluene | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| 4-Chlorotoluene | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Dibromochloromethane | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| 1,2-Dibromo-3-chloropropane | ND | 0.0040 | 1 | 06/10/2015 00:55 |
| 1,2-Dibromoethane (EDB) | ND | 0.0040 | 1 | 06/10/2015 00:55 |
| Dibromomethane | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| 1,2-Dichlorobenzene | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| 1,3-Dichlorobenzene | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| 1,4-Dichlorobenzene | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Dichlorodifluoromethane | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| 1,1-Dichloroethane | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.0040 | 1 | 06/10/2015 00:55 |
| 1,1-Dichloroethene | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| cis-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| trans-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| 1,2-Dichloropropane | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| 1,3-Dichloropropane | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| 2,2-Dichloropropane | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| 1,1-Dichloropropene | ND | 0.0050 | 1 | 06/10/2015 00:55 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B13-10.0 | 1506217-030A | Soil | 06/02/2015 12:45 | GC16 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| trans-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Diisopropyl ether (DIPE) | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Ethylbenzene | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Freon 113 | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Hexachlorobutadiene | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Hexachloroethane | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| 2-Hexanone | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Isopropylbenzene | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| 4-Isopropyl toluene | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Methyl-t-butyl ether (MTBE) | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Methylene chloride | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Naphthalene | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| n-Propyl benzene | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Styrene | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Tetrachloroethene | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Toluene | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| 1,2,3-Trichlorobenzene | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| 1,2,4-Trichlorobenzene | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| 1,1,1-Trichloroethane | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| 1,1,2-Trichloroethane | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Trichloroethene | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Trichlorofluoromethane | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| 1,2,3-Trichloropropane | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Vinyl Chloride | ND | 0.0050 | 1 | 06/10/2015 00:55 |
| Xylenes, Total | ND | 0.0050 | 1 | 06/10/2015 00:55 |

(Cont.)



Analytical Report

Client: P & D Environmental **WorkOrder:** 1506217
Project: #0398; Auto Depot 4171 Broadway Oakland **Extraction Method:** SW5030B
Date Received: 6/4/15 16:29 **Analytical Method:** SW8260B
Date Prepared: 6/4/15-6/8/15 **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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B13-10.0 | 1506217-030A | Soil | 06/02/2015 12:45 | GC16 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|---------------|----|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | | |
| Dibromofluoromethane | 103 | 70-130 | | 06/10/2015 00:55 |
| Toluene-d8 | 93 | 70-130 | | 06/10/2015 00:55 |
| 4-BFB | 93 | 70-130 | | 06/10/2015 00:55 |
| Benzene-d6 | 75 | 60-140 | | 06/10/2015 00:55 |
| Ethylbenzene-d10 | 80 | 60-140 | | 06/10/2015 00:55 |
| 1,2-DCB-d4 | 82 | 60-140 | | 06/10/2015 00:55 |

Analyst(s): KF



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B13-19.0 | 1506217-031A | Soil | 06/02/2015 12:55 | GC16 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| Acetone | ND | 0.10 | 1 | 06/09/2015 00:53 |
| tert-Amyl methyl ether (TAME) | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Benzene | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Bromobenzene | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Bromochloromethane | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Bromodichloromethane | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Bromoform | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Bromomethane | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| 2-Butanone (MEK) | ND | 0.020 | 1 | 06/09/2015 00:53 |
| t-Butyl alcohol (TBA) | ND | 0.050 | 1 | 06/09/2015 00:53 |
| n-Butyl benzene | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| sec-Butyl benzene | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| tert-Butyl benzene | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Carbon Disulfide | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Carbon Tetrachloride | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Chlorobenzene | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Chloroethane | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Chloroform | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Chloromethane | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| 2-Chlorotoluene | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| 4-Chlorotoluene | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Dibromochloromethane | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| 1,2-Dibromo-3-chloropropane | ND | 0.0040 | 1 | 06/09/2015 00:53 |
| 1,2-Dibromoethane (EDB) | ND | 0.0040 | 1 | 06/09/2015 00:53 |
| Dibromomethane | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| 1,2-Dichlorobenzene | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| 1,3-Dichlorobenzene | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| 1,4-Dichlorobenzene | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Dichlorodifluoromethane | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| 1,1-Dichloroethane | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.0040 | 1 | 06/09/2015 00:53 |
| 1,1-Dichloroethene | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| cis-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| trans-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| 1,2-Dichloropropane | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| 1,3-Dichloropropane | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| 2,2-Dichloropropane | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| 1,1-Dichloropropene | ND | 0.0050 | 1 | 06/09/2015 00:53 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B13-19.0 | 1506217-031A | Soil | 06/02/2015 12:55 | GC16 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| trans-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Diisopropyl ether (DIPE) | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Ethylbenzene | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Freon 113 | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Hexachlorobutadiene | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Hexachloroethane | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| 2-Hexanone | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Isopropylbenzene | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| 4-Isopropyl toluene | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Methyl-t-butyl ether (MTBE) | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Methylene chloride | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Naphthalene | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| n-Propyl benzene | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Styrene | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Tetrachloroethene | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Toluene | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| 1,2,3-Trichlorobenzene | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| 1,2,4-Trichlorobenzene | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| 1,1,1-Trichloroethane | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| 1,1,2-Trichloroethane | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Trichloroethene | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Trichlorofluoromethane | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| 1,2,3-Trichloropropane | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Vinyl Chloride | ND | 0.0050 | 1 | 06/09/2015 00:53 |
| Xylenes, Total | ND | 0.0050 | 1 | 06/09/2015 00:53 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B13-19.0 | 1506217-031A | Soil | 06/02/2015 12:55 | GC16 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|---------------|----|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | | |
| Dibromofluoromethane | 104 | 70-130 | | 06/09/2015 00:53 |
| Toluene-d8 | 92 | 70-130 | | 06/09/2015 00:53 |
| 4-BFB | 90 | 70-130 | | 06/09/2015 00:53 |
| Benzene-d6 | 73 | 60-140 | | 06/09/2015 00:53 |
| Ethylbenzene-d10 | 78 | 60-140 | | 06/09/2015 00:53 |
| 1,2-DCB-d4 | 82 | 60-140 | | 06/09/2015 00:53 |

Analyst(s): KF



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B14-4.0 | 1506217-032A | Soil | 06/03/2015 07:40 | GC16 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| Acetone | ND | 0.10 | 1 | 06/07/2015 00:03 |
| tert-Amyl methyl ether (TAME) | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Benzene | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Bromobenzene | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Bromochloromethane | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Bromodichloromethane | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Bromoform | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Bromomethane | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| 2-Butanone (MEK) | ND | 0.020 | 1 | 06/07/2015 00:03 |
| t-Butyl alcohol (TBA) | ND | 0.050 | 1 | 06/07/2015 00:03 |
| n-Butyl benzene | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| sec-Butyl benzene | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| tert-Butyl benzene | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Carbon Disulfide | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Carbon Tetrachloride | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Chlorobenzene | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Chloroethane | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Chloroform | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Chloromethane | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| 2-Chlorotoluene | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| 4-Chlorotoluene | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Dibromochloromethane | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| 1,2-Dibromo-3-chloropropane | ND | 0.0040 | 1 | 06/07/2015 00:03 |
| 1,2-Dibromoethane (EDB) | ND | 0.0040 | 1 | 06/07/2015 00:03 |
| Dibromomethane | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| 1,2-Dichlorobenzene | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| 1,3-Dichlorobenzene | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| 1,4-Dichlorobenzene | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Dichlorodifluoromethane | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| 1,1-Dichloroethane | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.0040 | 1 | 06/07/2015 00:03 |
| 1,1-Dichloroethene | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| cis-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| trans-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| 1,2-Dichloropropane | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| 1,3-Dichloropropane | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| 2,2-Dichloropropane | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| 1,1-Dichloropropene | ND | 0.0050 | 1 | 06/07/2015 00:03 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B14-4.0 | 1506217-032A | Soil | 06/03/2015 07:40 | GC16 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| trans-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Diisopropyl ether (DIPE) | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Ethylbenzene | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Freon 113 | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Hexachlorobutadiene | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Hexachloroethane | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| 2-Hexanone | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Isopropylbenzene | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| 4-Isopropyl toluene | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Methyl-t-butyl ether (MTBE) | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Methylene chloride | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Naphthalene | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| n-Propyl benzene | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Styrene | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Tetrachloroethene | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Toluene | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| 1,2,3-Trichlorobenzene | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| 1,2,4-Trichlorobenzene | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| 1,1,1-Trichloroethane | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| 1,1,2-Trichloroethane | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Trichloroethene | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Trichlorofluoromethane | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| 1,2,3-Trichloropropane | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Vinyl Chloride | ND | 0.0050 | 1 | 06/07/2015 00:03 |
| Xylenes, Total | ND | 0.0050 | 1 | 06/07/2015 00:03 |

(Cont.)



Analytical Report

| | |
|---|-----------------------------------|
| Client: P & D Environmental | WorkOrder: 1506217 |
| Project: #0398; Auto Depot 4171 Broadway Oakland | Extraction Method: SW5030B |
| Date Received: 6/4/15 16:29 | Analytical Method: SW8260B |
| Date Prepared: 6/4/15-6/8/15 | 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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B14-4.0 | 1506217-032A | Soil | 06/03/2015 07:40 | GC16 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|--------|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | |
| Dibromofluoromethane | 101 | 70-130 | | 06/07/2015 00:03 |
| Toluene-d8 | 96 | 70-130 | | 06/07/2015 00:03 |
| 4-BFB | 90 | 70-130 | | 06/07/2015 00:03 |
| Benzene-d6 | 76 | 60-140 | | 06/07/2015 00:03 |
| Ethylbenzene-d10 | 80 | 60-140 | | 06/07/2015 00:03 |
| 1,2-DCB-d4 | 81 | 60-140 | | 06/07/2015 00:03 |

Analyst(s): KF



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B14-9.0 | 1506217-033A | Soil | 06/03/2015 07:45 | GC10 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|------------|-----|-----|------------------|
| Acetone | ND | 40 | 400 | 06/09/2015 21:33 |
| tert-Amyl methyl ether (TAME) | ND | 2.0 | 400 | 06/09/2015 21:33 |
| Benzene | ND | 2.0 | 400 | 06/09/2015 21:33 |
| Bromobenzene | ND | 2.0 | 400 | 06/09/2015 21:33 |
| Bromochloromethane | ND | 2.0 | 400 | 06/09/2015 21:33 |
| Bromodichloromethane | ND | 2.0 | 400 | 06/09/2015 21:33 |
| Bromoform | ND | 2.0 | 400 | 06/09/2015 21:33 |
| Bromomethane | ND | 2.0 | 400 | 06/09/2015 21:33 |
| 2-Butanone (MEK) | ND | 8.0 | 400 | 06/09/2015 21:33 |
| t-Butyl alcohol (TBA) | ND | 20 | 400 | 06/09/2015 21:33 |
| n-Butyl benzene | 4.4 | 2.0 | 400 | 06/09/2015 21:33 |
| sec-Butyl benzene | ND | 2.0 | 400 | 06/09/2015 21:33 |
| tert-Butyl benzene | ND | 2.0 | 400 | 06/09/2015 21:33 |
| Carbon Disulfide | ND | 2.0 | 400 | 06/09/2015 21:33 |
| Carbon Tetrachloride | ND | 2.0 | 400 | 06/09/2015 21:33 |
| Chlorobenzene | ND | 2.0 | 400 | 06/09/2015 21:33 |
| Chloroethane | ND | 2.0 | 400 | 06/09/2015 21:33 |
| Chloroform | ND | 2.0 | 400 | 06/09/2015 21:33 |
| Chloromethane | ND | 2.0 | 400 | 06/09/2015 21:33 |
| 2-Chlorotoluene | ND | 2.0 | 400 | 06/09/2015 21:33 |
| 4-Chlorotoluene | ND | 2.0 | 400 | 06/09/2015 21:33 |
| Dibromochloromethane | ND | 2.0 | 400 | 06/09/2015 21:33 |
| 1,2-Dibromo-3-chloropropane | ND | 1.6 | 400 | 06/09/2015 21:33 |
| 1,2-Dibromoethane (EDB) | ND | 1.6 | 400 | 06/09/2015 21:33 |
| Dibromomethane | ND | 2.0 | 400 | 06/09/2015 21:33 |
| 1,2-Dichlorobenzene | ND | 2.0 | 400 | 06/09/2015 21:33 |
| 1,3-Dichlorobenzene | ND | 2.0 | 400 | 06/09/2015 21:33 |
| 1,4-Dichlorobenzene | ND | 2.0 | 400 | 06/09/2015 21:33 |
| Dichlorodifluoromethane | ND | 2.0 | 400 | 06/09/2015 21:33 |
| 1,1-Dichloroethane | ND | 2.0 | 400 | 06/09/2015 21:33 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 1.6 | 400 | 06/09/2015 21:33 |
| 1,1-Dichloroethene | ND | 2.0 | 400 | 06/09/2015 21:33 |
| cis-1,2-Dichloroethene | ND | 2.0 | 400 | 06/09/2015 21:33 |
| trans-1,2-Dichloroethene | ND | 2.0 | 400 | 06/09/2015 21:33 |
| 1,2-Dichloropropane | ND | 2.0 | 400 | 06/09/2015 21:33 |
| 1,3-Dichloropropane | ND | 2.0 | 400 | 06/09/2015 21:33 |
| 2,2-Dichloropropane | ND | 2.0 | 400 | 06/09/2015 21:33 |
| 1,1-Dichloropropene | ND | 2.0 | 400 | 06/09/2015 21:33 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-------------------------------|---------------|----------------|------------------|------------|----------------------|
| B14-9.0 | 1506217-033A | Soil | 06/03/2015 07:45 | GC10 | 105880 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| cis-1,3-Dichloropropene | ND | | 2.0 | 400 | 06/09/2015 21:33 |
| trans-1,3-Dichloropropene | ND | | 2.0 | 400 | 06/09/2015 21:33 |
| Diisopropyl ether (DIPE) | ND | | 2.0 | 400 | 06/09/2015 21:33 |
| Ethylbenzene | 13 | | 2.0 | 400 | 06/09/2015 21:33 |
| Ethyl tert-butyl ether (ETBE) | ND | | 2.0 | 400 | 06/09/2015 21:33 |
| Freon 113 | ND | | 2.0 | 400 | 06/09/2015 21:33 |
| Hexachlorobutadiene | ND | | 2.0 | 400 | 06/09/2015 21:33 |
| Hexachloroethane | ND | | 2.0 | 400 | 06/09/2015 21:33 |
| 2-Hexanone | ND | | 2.0 | 400 | 06/09/2015 21:33 |
| Isopropylbenzene | 2.0 | | 2.0 | 400 | 06/09/2015 21:33 |
| 4-Isopropyl toluene | ND | | 2.0 | 400 | 06/09/2015 21:33 |
| Methyl-t-butyl ether (MTBE) | ND | | 2.0 | 400 | 06/09/2015 21:33 |
| Methylene chloride | ND | | 2.0 | 400 | 06/09/2015 21:33 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 2.0 | 400 | 06/09/2015 21:33 |
| Naphthalene | 10 | | 2.0 | 400 | 06/09/2015 21:33 |
| n-Propyl benzene | 7.7 | | 2.0 | 400 | 06/09/2015 21:33 |
| Styrene | ND | | 2.0 | 400 | 06/09/2015 21:33 |
| 1,1,1,2-Tetrachloroethane | ND | | 2.0 | 400 | 06/09/2015 21:33 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.0 | 400 | 06/09/2015 21:33 |
| Tetrachloroethene | ND | | 2.0 | 400 | 06/09/2015 21:33 |
| Toluene | ND | | 2.0 | 400 | 06/09/2015 21:33 |
| 1,2,3-Trichlorobenzene | ND | | 2.0 | 400 | 06/09/2015 21:33 |
| 1,2,4-Trichlorobenzene | ND | | 2.0 | 400 | 06/09/2015 21:33 |
| 1,1,1-Trichloroethane | ND | | 2.0 | 400 | 06/09/2015 21:33 |
| 1,1,2-Trichloroethane | ND | | 2.0 | 400 | 06/09/2015 21:33 |
| Trichloroethene | ND | | 2.0 | 400 | 06/09/2015 21:33 |
| Trichlorofluoromethane | ND | | 2.0 | 400 | 06/09/2015 21:33 |
| 1,2,3-Trichloropropane | ND | | 2.0 | 400 | 06/09/2015 21:33 |
| 1,2,4-Trimethylbenzene | 37 | | 2.0 | 400 | 06/09/2015 21:33 |
| 1,3,5-Trimethylbenzene | 10 | | 2.0 | 400 | 06/09/2015 21:33 |
| Vinyl Chloride | ND | | 2.0 | 400 | 06/09/2015 21:33 |
| Xylenes, Total | 27 | | 2.0 | 400 | 06/09/2015 21:33 |

(Cont.)



Analytical Report

| | |
|---|-----------------------------------|
| Client: P & D Environmental | WorkOrder: 1506217 |
| Project: #0398; Auto Depot 4171 Broadway Oakland | Extraction Method: SW5030B |
| Date Received: 6/4/15 16:29 | Analytical Method: SW8260B |
| Date Prepared: 6/4/15-6/8/15 | 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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B14-9.0 | 1506217-033A | Soil | 06/03/2015 07:45 | GC10 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|-------------------|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u> | |
| Dibromofluoromethane | 86 | | 70-130 | 06/09/2015 21:33 |
| Toluene-d8 | 86 | | 70-130 | 06/09/2015 21:33 |
| 4-BFB | 84 | | 70-130 | 06/09/2015 21:33 |
| Benzene-d6 | 22 | S | 60-140 | 06/09/2015 21:33 |
| Ethylbenzene-d10 | 0 | S | 60-140 | 06/09/2015 21:33 |
| 1,2-DCB-d4 | 152 | S | 60-140 | 06/09/2015 21:33 |

Analyst(s): KBO

Analytical Comments: c7



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B14-14.0 | 1506217-034A | Soil | 06/03/2015 07:50 | GC16 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| Acetone | ND | 0.10 | 1 | 06/07/2015 00:46 |
| tert-Amyl methyl ether (TAME) | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Benzene | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Bromobenzene | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Bromochloromethane | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Bromodichloromethane | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Bromoform | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Bromomethane | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| 2-Butanone (MEK) | ND | 0.020 | 1 | 06/07/2015 00:46 |
| t-Butyl alcohol (TBA) | ND | 0.050 | 1 | 06/07/2015 00:46 |
| n-Butyl benzene | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| sec-Butyl benzene | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| tert-Butyl benzene | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Carbon Disulfide | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Carbon Tetrachloride | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Chlorobenzene | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Chloroethane | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Chloroform | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Chloromethane | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| 2-Chlorotoluene | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| 4-Chlorotoluene | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Dibromochloromethane | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| 1,2-Dibromo-3-chloropropane | ND | 0.0040 | 1 | 06/07/2015 00:46 |
| 1,2-Dibromoethane (EDB) | ND | 0.0040 | 1 | 06/07/2015 00:46 |
| Dibromomethane | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| 1,2-Dichlorobenzene | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| 1,3-Dichlorobenzene | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| 1,4-Dichlorobenzene | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Dichlorodifluoromethane | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| 1,1-Dichloroethane | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.0040 | 1 | 06/07/2015 00:46 |
| 1,1-Dichloroethene | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| cis-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| trans-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| 1,2-Dichloropropane | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| 1,3-Dichloropropane | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| 2,2-Dichloropropane | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| 1,1-Dichloropropene | ND | 0.0050 | 1 | 06/07/2015 00:46 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B14-14.0 | 1506217-034A | Soil | 06/03/2015 07:50 | GC16 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| trans-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Diisopropyl ether (DIPE) | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Ethylbenzene | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Freon 113 | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Hexachlorobutadiene | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Hexachloroethane | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| 2-Hexanone | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Isopropylbenzene | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| 4-Isopropyl toluene | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Methyl-t-butyl ether (MTBE) | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Methylene chloride | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Naphthalene | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| n-Propyl benzene | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Styrene | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Tetrachloroethene | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Toluene | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| 1,2,3-Trichlorobenzene | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| 1,2,4-Trichlorobenzene | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| 1,1,1-Trichloroethane | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| 1,1,2-Trichloroethane | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Trichloroethene | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Trichlorofluoromethane | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| 1,2,3-Trichloropropane | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Vinyl Chloride | ND | 0.0050 | 1 | 06/07/2015 00:46 |
| Xylenes, Total | ND | 0.0050 | 1 | 06/07/2015 00:46 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B14-14.0 | 1506217-034A | Soil | 06/03/2015 07:50 | GC16 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|---------------|----|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | | |
| Dibromofluoromethane | 104 | 70-130 | | 06/07/2015 00:46 |
| Toluene-d8 | 95 | 70-130 | | 06/07/2015 00:46 |
| 4-BFB | 95 | 70-130 | | 06/07/2015 00:46 |
| Benzene-d6 | 77 | 60-140 | | 06/07/2015 00:46 |
| Ethylbenzene-d10 | 80 | 60-140 | | 06/07/2015 00:46 |
| 1,2-DCB-d4 | 83 | 60-140 | | 06/07/2015 00:46 |

Analyst(s): KF



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-------------------------------|--------------|----------------|------------------|------------------|----------|
| B15-4.0 | 1506217-035A | Soil | 06/03/2015 12:10 | GC16 | 105880 |
| Analytes | Result | RL | DF | Date Analyzed | |
| Acetone | ND | 0.10 | 1 | 06/10/2015 01:37 | |
| tert-Amyl methyl ether (TAME) | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| Benzene | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| Bromobenzene | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| Bromochloromethane | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| Bromodichloromethane | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| Bromoform | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| Bromomethane | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| 2-Butanone (MEK) | ND | 0.020 | 1 | 06/10/2015 01:37 | |
| t-Butyl alcohol (TBA) | ND | 0.050 | 1 | 06/10/2015 01:37 | |
| n-Butyl benzene | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| sec-Butyl benzene | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| tert-Butyl benzene | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| Carbon Disulfide | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| Carbon Tetrachloride | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| Chlorobenzene | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| Chloroethane | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| Chloroform | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| Chloromethane | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| 2-Chlorotoluene | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| 4-Chlorotoluene | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| Dibromochloromethane | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.0040 | 1 | 06/10/2015 01:37 | |
| 1,2-Dibromoethane (EDB) | ND | 0.0040 | 1 | 06/10/2015 01:37 | |
| Dibromomethane | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| 1,2-Dichlorobenzene | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| 1,3-Dichlorobenzene | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| 1,4-Dichlorobenzene | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| Dichlorodifluoromethane | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| 1,1-Dichloroethane | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.0040 | 1 | 06/10/2015 01:37 | |
| 1,1-Dichloroethene | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| cis-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| trans-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| 1,2-Dichloropropane | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| 1,3-Dichloropropane | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| 2,2-Dichloropropane | ND | 0.0050 | 1 | 06/10/2015 01:37 | |
| 1,1-Dichloropropene | ND | 0.0050 | 1 | 06/10/2015 01:37 | |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B15-4.0 | 1506217-035A | Soil | 06/03/2015 12:10 | GC16 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| trans-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| Diisopropyl ether (DIPE) | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| Ethylbenzene | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| Freon 113 | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| Hexachlorobutadiene | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| Hexachloroethane | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| 2-Hexanone | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| Isopropylbenzene | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| 4-Isopropyl toluene | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| Methyl-t-butyl ether (MTBE) | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| Methylene chloride | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| Naphthalene | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| n-Propyl benzene | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| Styrene | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| Tetrachloroethene | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| Toluene | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| 1,2,3-Trichlorobenzene | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| 1,2,4-Trichlorobenzene | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| 1,1,1-Trichloroethane | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| 1,1,2-Trichloroethane | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| Trichloroethene | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| Trichlorofluoromethane | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| 1,2,3-Trichloropropane | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| Vinyl Chloride | ND | 0.0050 | 1 | 06/10/2015 01:37 |
| Xylenes, Total | ND | 0.0050 | 1 | 06/10/2015 01:37 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B15-4.0 | 1506217-035A | Soil | 06/03/2015 12:10 | GC16 | 105880 |

| Analytes | Result | | RL | DF | Date Analyzed |
|----------------------|----------------|-------------------|---------------|----|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u> | | |
| Dibromofluoromethane | 103 | | 70-130 | | 06/10/2015 01:37 |
| Toluene-d8 | 94 | | 70-130 | | 06/10/2015 01:37 |
| 4-BFB | 92 | | 70-130 | | 06/10/2015 01:37 |
| Benzene-d6 | 49 | S | 60-140 | | 06/10/2015 01:37 |
| Ethylbenzene-d10 | 66 | | 60-140 | | 06/10/2015 01:37 |
| 1,2-DCB-d4 | 80 | | 60-140 | | 06/10/2015 01:37 |

Analyst(s): KF

Analytical Comments: c2



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-------------------------------|---------------|----------------|------------------|------------|----------------------|
| B15-8.0 | 1506217-036A | Soil | 06/03/2015 12:15 | GC10 | 105880 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| Acetone | ND | | 0.50 | 5 | 06/09/2015 22:14 |
| tert-Amyl methyl ether (TAME) | ND | | 0.025 | 5 | 06/09/2015 22:14 |
| Benzene | ND | | 0.025 | 5 | 06/09/2015 22:14 |
| Bromobenzene | ND | | 0.025 | 5 | 06/09/2015 22:14 |
| Bromochloromethane | ND | | 0.025 | 5 | 06/09/2015 22:14 |
| Bromodichloromethane | ND | | 0.025 | 5 | 06/09/2015 22:14 |
| Bromoform | ND | | 0.025 | 5 | 06/09/2015 22:14 |
| Bromomethane | ND | | 0.025 | 5 | 06/09/2015 22:14 |
| 2-Butanone (MEK) | ND | | 0.10 | 5 | 06/09/2015 22:14 |
| t-Butyl alcohol (TBA) | ND | | 0.25 | 5 | 06/09/2015 22:14 |
| n-Butyl benzene | 0.11 | | 0.025 | 5 | 06/09/2015 22:14 |
| sec-Butyl benzene | ND | | 0.025 | 5 | 06/09/2015 22:14 |
| tert-Butyl benzene | ND | | 0.025 | 5 | 06/09/2015 22:14 |
| Carbon Disulfide | ND | | 0.025 | 5 | 06/09/2015 22:14 |
| Carbon Tetrachloride | ND | | 0.025 | 5 | 06/09/2015 22:14 |
| Chlorobenzene | ND | | 0.025 | 5 | 06/09/2015 22:14 |
| Chloroethane | ND | | 0.025 | 5 | 06/09/2015 22:14 |
| Chloroform | ND | | 0.025 | 5 | 06/09/2015 22:14 |
| Chloromethane | ND | | 0.025 | 5 | 06/09/2015 22:14 |
| 2-Chlorotoluene | ND | | 0.025 | 5 | 06/09/2015 22:14 |
| 4-Chlorotoluene | ND | | 0.025 | 5 | 06/09/2015 22:14 |
| Dibromochloromethane | ND | | 0.025 | 5 | 06/09/2015 22:14 |
| 1,2-Dibromo-3-chloropropane | ND | | 0.020 | 5 | 06/09/2015 22:14 |
| 1,2-Dibromoethane (EDB) | ND | | 0.020 | 5 | 06/09/2015 22:14 |
| Dibromomethane | ND | | 0.025 | 5 | 06/09/2015 22:14 |
| 1,2-Dichlorobenzene | ND | | 0.025 | 5 | 06/09/2015 22:14 |
| 1,3-Dichlorobenzene | ND | | 0.025 | 5 | 06/09/2015 22:14 |
| 1,4-Dichlorobenzene | ND | | 0.025 | 5 | 06/09/2015 22:14 |
| Dichlorodifluoromethane | ND | | 0.025 | 5 | 06/09/2015 22:14 |
| 1,1-Dichloroethane | ND | | 0.025 | 5 | 06/09/2015 22:14 |
| 1,2-Dichloroethane (1,2-DCA) | ND | | 0.020 | 5 | 06/09/2015 22:14 |
| 1,1-Dichloroethene | ND | | 0.025 | 5 | 06/09/2015 22:14 |
| cis-1,2-Dichloroethene | ND | | 0.025 | 5 | 06/09/2015 22:14 |
| trans-1,2-Dichloroethene | ND | | 0.025 | 5 | 06/09/2015 22:14 |
| 1,2-Dichloropropane | ND | | 0.025 | 5 | 06/09/2015 22:14 |
| 1,3-Dichloropropane | ND | | 0.025 | 5 | 06/09/2015 22:14 |
| 2,2-Dichloropropane | ND | | 0.025 | 5 | 06/09/2015 22:14 |
| 1,1-Dichloropropene | ND | | 0.025 | 5 | 06/09/2015 22:14 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B15-8.0 | 1506217-036A | Soil | 06/03/2015 12:15 | GC10 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------------|-------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.025 | 5 | 06/09/2015 22:14 |
| trans-1,3-Dichloropropene | ND | 0.025 | 5 | 06/09/2015 22:14 |
| Diisopropyl ether (DIPE) | ND | 0.025 | 5 | 06/09/2015 22:14 |
| Ethylbenzene | 0.070 | 0.025 | 5 | 06/09/2015 22:14 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.025 | 5 | 06/09/2015 22:14 |
| Freon 113 | ND | 0.025 | 5 | 06/09/2015 22:14 |
| Hexachlorobutadiene | ND | 0.025 | 5 | 06/09/2015 22:14 |
| Hexachloroethane | ND | 0.025 | 5 | 06/09/2015 22:14 |
| 2-Hexanone | ND | 0.025 | 5 | 06/09/2015 22:14 |
| Isopropylbenzene | 0.034 | 0.025 | 5 | 06/09/2015 22:14 |
| 4-Isopropyl toluene | ND | 0.025 | 5 | 06/09/2015 22:14 |
| Methyl-t-butyl ether (MTBE) | ND | 0.025 | 5 | 06/09/2015 22:14 |
| Methylene chloride | ND | 0.025 | 5 | 06/09/2015 22:14 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.025 | 5 | 06/09/2015 22:14 |
| Naphthalene | ND | 0.025 | 5 | 06/09/2015 22:14 |
| n-Propyl benzene | 0.14 | 0.025 | 5 | 06/09/2015 22:14 |
| Styrene | ND | 0.025 | 5 | 06/09/2015 22:14 |
| 1,1,1,2-Tetrachloroethane | ND | 0.025 | 5 | 06/09/2015 22:14 |
| 1,1,2,2-Tetrachloroethane | ND | 0.025 | 5 | 06/09/2015 22:14 |
| Tetrachloroethene | ND | 0.025 | 5 | 06/09/2015 22:14 |
| Toluene | ND | 0.025 | 5 | 06/09/2015 22:14 |
| 1,2,3-Trichlorobenzene | ND | 0.025 | 5 | 06/09/2015 22:14 |
| 1,2,4-Trichlorobenzene | ND | 0.025 | 5 | 06/09/2015 22:14 |
| 1,1,1-Trichloroethane | ND | 0.025 | 5 | 06/09/2015 22:14 |
| 1,1,2-Trichloroethane | ND | 0.025 | 5 | 06/09/2015 22:14 |
| Trichloroethene | ND | 0.025 | 5 | 06/09/2015 22:14 |
| Trichlorofluoromethane | ND | 0.025 | 5 | 06/09/2015 22:14 |
| 1,2,3-Trichloropropane | ND | 0.025 | 5 | 06/09/2015 22:14 |
| 1,2,4-Trimethylbenzene | ND | 0.025 | 5 | 06/09/2015 22:14 |
| 1,3,5-Trimethylbenzene | ND | 0.025 | 5 | 06/09/2015 22:14 |
| Vinyl Chloride | ND | 0.025 | 5 | 06/09/2015 22:14 |
| Xylenes, Total | ND | 0.025 | 5 | 06/09/2015 22:14 |

(Cont.)



Analytical Report

| | |
|---|-----------------------------------|
| Client: P & D Environmental | WorkOrder: 1506217 |
| Project: #0398; Auto Depot 4171 Broadway Oakland | Extraction Method: SW5030B |
| Date Received: 6/4/15 16:29 | Analytical Method: SW8260B |
| Date Prepared: 6/4/15-6/8/15 | 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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B15-8.0 | 1506217-036A | Soil | 06/03/2015 12:15 | GC10 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|--------|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | |
| Dibromofluoromethane | 84 | 70-130 | | 06/09/2015 22:14 |
| Toluene-d8 | 92 | 70-130 | | 06/09/2015 22:14 |
| 4-BFB | 83 | 70-130 | | 06/09/2015 22:14 |
| Benzene-d6 | 69 | 60-140 | | 06/09/2015 22:14 |
| Ethylbenzene-d10 | 86 | 60-140 | | 06/09/2015 22:14 |
| 1,2-DCB-d4 | 86 | 60-140 | | 06/09/2015 22:14 |

Analyst(s): KBO



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B15-11.0 | 1506217-037A | Soil | 06/03/2015 12:20 | GC16 | 105980 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| Acetone | ND | 0.10 | 1 | 06/09/2015 16:20 |
| tert-Amyl methyl ether (TAME) | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Benzene | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Bromobenzene | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Bromochloromethane | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Bromodichloromethane | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Bromoform | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Bromomethane | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| 2-Butanone (MEK) | ND | 0.020 | 1 | 06/09/2015 16:20 |
| t-Butyl alcohol (TBA) | ND | 0.050 | 1 | 06/09/2015 16:20 |
| n-Butyl benzene | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| sec-Butyl benzene | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| tert-Butyl benzene | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Carbon Disulfide | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Carbon Tetrachloride | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Chlorobenzene | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Chloroethane | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Chloroform | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Chloromethane | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| 2-Chlorotoluene | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| 4-Chlorotoluene | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Dibromochloromethane | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| 1,2-Dibromo-3-chloropropane | ND | 0.0040 | 1 | 06/09/2015 16:20 |
| 1,2-Dibromoethane (EDB) | ND | 0.0040 | 1 | 06/09/2015 16:20 |
| Dibromomethane | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| 1,2-Dichlorobenzene | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| 1,3-Dichlorobenzene | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| 1,4-Dichlorobenzene | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Dichlorodifluoromethane | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| 1,1-Dichloroethane | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.0040 | 1 | 06/09/2015 16:20 |
| 1,1-Dichloroethene | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| cis-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| trans-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| 1,2-Dichloropropane | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| 1,3-Dichloropropane | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| 2,2-Dichloropropane | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| 1,1-Dichloropropene | ND | 0.0050 | 1 | 06/09/2015 16:20 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B15-11.0 | 1506217-037A | Soil | 06/03/2015 12:20 | GC16 | 105980 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| trans-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Diisopropyl ether (DIPE) | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Ethylbenzene | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Freon 113 | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Hexachlorobutadiene | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Hexachloroethane | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| 2-Hexanone | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Isopropylbenzene | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| 4-Isopropyl toluene | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Methyl-t-butyl ether (MTBE) | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Methylene chloride | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Naphthalene | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| n-Propyl benzene | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Styrene | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Tetrachloroethene | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Toluene | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| 1,2,3-Trichlorobenzene | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| 1,2,4-Trichlorobenzene | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| 1,1,1-Trichloroethane | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| 1,1,2-Trichloroethane | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Trichloroethene | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Trichlorofluoromethane | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| 1,2,3-Trichloropropane | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Vinyl Chloride | ND | 0.0050 | 1 | 06/09/2015 16:20 |
| Xylenes, Total | ND | 0.0050 | 1 | 06/09/2015 16:20 |

(Cont.)



Analytical Report

| | |
|---|-----------------------------------|
| Client: P & D Environmental | WorkOrder: 1506217 |
| Project: #0398; Auto Depot 4171 Broadway Oakland | Extraction Method: SW5030B |
| Date Received: 6/4/15 16:29 | Analytical Method: SW8260B |
| Date Prepared: 6/4/15-6/8/15 | 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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B15-11.0 | 1506217-037A | Soil | 06/03/2015 12:20 | GC16 | 105980 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|--------|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | |
| Dibromofluoromethane | 105 | 70-130 | | 06/09/2015 16:20 |
| Toluene-d8 | 90 | 70-130 | | 06/09/2015 16:20 |
| 4-BFB | 88 | 70-130 | | 06/09/2015 16:20 |
| Benzene-d6 | 72 | 60-140 | | 06/09/2015 16:20 |
| Ethylbenzene-d10 | 72 | 60-140 | | 06/09/2015 16:20 |
| 1,2-DCB-d4 | 75 | 60-140 | | 06/09/2015 16:20 |

Analyst(s): KF



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B15-20.0 | 1506217-038A | Soil | 06/03/2015 12:40 | GC10 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| Acetone | ND | 0.10 | 1 | 06/05/2015 13:59 |
| tert-Amyl methyl ether (TAME) | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Benzene | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Bromobenzene | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Bromochloromethane | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Bromodichloromethane | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Bromoform | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Bromomethane | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| 2-Butanone (MEK) | ND | 0.020 | 1 | 06/05/2015 13:59 |
| t-Butyl alcohol (TBA) | ND | 0.050 | 1 | 06/05/2015 13:59 |
| n-Butyl benzene | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| sec-Butyl benzene | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| tert-Butyl benzene | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Carbon Disulfide | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Carbon Tetrachloride | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Chlorobenzene | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Chloroethane | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Chloroform | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Chloromethane | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| 2-Chlorotoluene | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| 4-Chlorotoluene | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Dibromochloromethane | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| 1,2-Dibromo-3-chloropropane | ND | 0.0040 | 1 | 06/05/2015 13:59 |
| 1,2-Dibromoethane (EDB) | ND | 0.0040 | 1 | 06/05/2015 13:59 |
| Dibromomethane | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| 1,2-Dichlorobenzene | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| 1,3-Dichlorobenzene | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| 1,4-Dichlorobenzene | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Dichlorodifluoromethane | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| 1,1-Dichloroethane | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.0040 | 1 | 06/05/2015 13:59 |
| 1,1-Dichloroethene | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| cis-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| trans-1,2-Dichloroethene | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| 1,2-Dichloropropane | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| 1,3-Dichloropropane | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| 2,2-Dichloropropane | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| 1,1-Dichloropropene | ND | 0.0050 | 1 | 06/05/2015 13:59 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B15-20.0 | 1506217-038A | Soil | 06/03/2015 12:40 | GC10 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|--------|----|------------------|
| cis-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| trans-1,3-Dichloropropene | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Diisopropyl ether (DIPE) | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Ethylbenzene | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Freon 113 | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Hexachlorobutadiene | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Hexachloroethane | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| 2-Hexanone | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Isopropylbenzene | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| 4-Isopropyl toluene | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Methyl-t-butyl ether (MTBE) | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Methylene chloride | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Naphthalene | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| n-Propyl benzene | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Styrene | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| 1,1,1,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Tetrachloroethene | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Toluene | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| 1,2,3-Trichlorobenzene | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| 1,2,4-Trichlorobenzene | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| 1,1,1-Trichloroethane | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| 1,1,2-Trichloroethane | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Trichloroethene | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Trichlorofluoromethane | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| 1,2,3-Trichloropropane | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Vinyl Chloride | ND | 0.0050 | 1 | 06/05/2015 13:59 |
| Xylenes, Total | ND | 0.0050 | 1 | 06/05/2015 13:59 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15-6/8/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8260B
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B15-20.0 | 1506217-038A | Soil | 06/03/2015 12:40 | GC10 | 105880 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|---------------|----|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | | |
| Dibromofluoromethane | 88 | 70-130 | | 06/05/2015 13:59 |
| Toluene-d8 | 91 | 70-130 | | 06/05/2015 13:59 |
| 4-BFB | 96 | 70-130 | | 06/05/2015 13:59 |
| Benzene-d6 | 81 | 60-140 | | 06/05/2015 13:59 |
| Ethylbenzene-d10 | 95 | 60-140 | | 06/05/2015 13:59 |
| 1,2-DCB-d4 | 75 | 60-140 | | 06/05/2015 13:59 |

Analyst(s): AK



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/5/15

WorkOrder: 1506217
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-------------------------------|---------------|----------------|------------------|------------|----------------------|
| B4A-3.0 | 1506217-001A | Soil | 06/02/2015 08:30 | GC21 | 105894 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| Acenaphthene | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Acenaphthylene | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Acetochlor | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Anthracene | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Benzidine | ND | | 1.3 | 1 | 06/05/2015 15:28 |
| Benzo (a) anthracene | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Benzo (b) fluoranthene | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Benzo (k) fluoranthene | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Benzo (g,h,i) perylene | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Benzo (a) pyrene | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Benzyl Alcohol | ND | | 1.3 | 1 | 06/05/2015 15:28 |
| 1,1-Biphenyl | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Bis (2-chloroethoxy) Methane | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Bis (2-chloroethyl) Ether | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Bis (2-chloroisopropyl) Ether | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Bis (2-ethylhexyl) Adipate | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Bis (2-ethylhexyl) Phthalate | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| 4-Bromophenyl Phenyl Ether | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Butylbenzyl Phthalate | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| 4-Chloroaniline | ND | | 0.50 | 1 | 06/05/2015 15:28 |
| 4-Chloro-3-methylphenol | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| 2-Chloronaphthalene | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| 2-Chlorophenol | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| 4-Chlorophenyl Phenyl Ether | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Chrysene | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Dibenzo (a,h) anthracene | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Dibenzofuran | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Di-n-butyl Phthalate | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| 1,2-Dichlorobenzene | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| 1,3-Dichlorobenzene | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| 1,4-Dichlorobenzene | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| 3,3-Dichlorobenzidine | ND | | 0.50 | 1 | 06/05/2015 15:28 |
| 2,4-Dichlorophenol | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Diethyl Phthalate | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| 2,4-Dimethylphenol | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Dimethyl Phthalate | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| 4,6-Dinitro-2-methylphenol | ND | | 1.3 | 1 | 06/05/2015 15:28 |
| 2,4-Dinitrophenol | ND | | 6.3 | 1 | 06/05/2015 15:28 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/5/15

WorkOrder: 1506217
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|---------------------------------|---------------|----------------|------------------|------------|----------------------|
| B4A-3.0 | 1506217-001A | Soil | 06/02/2015 08:30 | GC21 | 105894 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| 2,4-Dinitrotoluene | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| 2,6-Dinitrotoluene | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Di-n-octyl Phthalate | ND | | 0.50 | 1 | 06/05/2015 15:28 |
| 1,2-Diphenylhydrazine | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Fluoranthene | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Fluorene | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Hexachlorobenzene | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Hexachlorobutadiene | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Hexachlorocyclopentadiene | ND | | 1.3 | 1 | 06/05/2015 15:28 |
| Hexachloroethane | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Indeno (1,2,3-cd) pyrene | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Isophorone | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| 2-Methylnaphthalene | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| 2-Methylphenol (o-Cresol) | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| 3 & 4-Methylphenol (m,p-Cresol) | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Naphthalene | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| 2-Nitroaniline | ND | | 1.3 | 1 | 06/05/2015 15:28 |
| 3-Nitroaniline | ND | | 1.3 | 1 | 06/05/2015 15:28 |
| 4-Nitroaniline | ND | | 1.3 | 1 | 06/05/2015 15:28 |
| Nitrobenzene | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| 2-Nitrophenol | ND | | 1.3 | 1 | 06/05/2015 15:28 |
| 4-Nitrophenol | ND | | 1.3 | 1 | 06/05/2015 15:28 |
| N-Nitrosodiphenylamine | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| N-Nitrosodi-n-propylamine | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Pentachlorophenol | ND | | 1.3 | 1 | 06/05/2015 15:28 |
| Phenanthrene | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Phenol | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| Pyrene | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| 1,2,4-Trichlorobenzene | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| 2,4,5-Trichlorophenol | ND | | 0.25 | 1 | 06/05/2015 15:28 |
| 2,4,6-Trichlorophenol | ND | | 0.25 | 1 | 06/05/2015 15:28 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/5/15

WorkOrder: 1506217
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B4A-3.0 | 1506217-001A | Soil | 06/02/2015 08:30 | GC21 | 105894 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|----|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | |
| 2-Fluorophenol | 94 | | 30-130 | 06/05/2015 15:28 |
| Phenol-d5 | 94 | | 30-130 | 06/05/2015 15:28 |
| Nitrobenzene-d5 | 88 | | 30-130 | 06/05/2015 15:28 |
| 2-Fluorobiphenyl | 78 | | 30-130 | 06/05/2015 15:28 |
| 2,4,6-Tribromophenol | 62 | | 16-130 | 06/05/2015 15:28 |
| 4-Terphenyl-d14 | 87 | | 30-130 | 06/05/2015 15:28 |

Analyst(s): HK



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/5/15

WorkOrder: 1506217
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-------------------------------|---------------|----------------|------------------|------------|----------------------|
| B4A-4.0 | 1506217-002A | Soil | 06/02/2015 08:35 | GC21 | 105894 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| Acenaphthene | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| Acenaphthylene | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| Acetochlor | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| Anthracene | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| Benzidine | ND | | 1.3 | 1 | 06/05/2015 15:57 |
| Benzo (a) anthracene | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| Benzo (b) fluoranthene | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| Benzo (k) fluoranthene | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| Benzo (g,h,i) perylene | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| Benzo (a) pyrene | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| Benzyl Alcohol | ND | | 1.3 | 1 | 06/05/2015 15:57 |
| 1,1-Biphenyl | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| Bis (2-chloroethoxy) Methane | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| Bis (2-chloroethyl) Ether | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| Bis (2-chloroisopropyl) Ether | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| Bis (2-ethylhexyl) Adipate | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| Bis (2-ethylhexyl) Phthalate | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| 4-Bromophenyl Phenyl Ether | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| Butylbenzyl Phthalate | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| 4-Chloroaniline | ND | | 0.50 | 1 | 06/05/2015 15:57 |
| 4-Chloro-3-methylphenol | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| 2-Chloronaphthalene | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| 2-Chlorophenol | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| 4-Chlorophenyl Phenyl Ether | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| Chrysene | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| Dibenzo (a,h) anthracene | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| Dibenzofuran | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| Di-n-butyl Phthalate | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| 1,2-Dichlorobenzene | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| 1,3-Dichlorobenzene | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| 1,4-Dichlorobenzene | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| 3,3-Dichlorobenzidine | ND | | 0.50 | 1 | 06/05/2015 15:57 |
| 2,4-Dichlorophenol | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| Diethyl Phthalate | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| 2,4-Dimethylphenol | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| Dimethyl Phthalate | ND | | 0.25 | 1 | 06/05/2015 15:57 |
| 4,6-Dinitro-2-methylphenol | ND | | 1.3 | 1 | 06/05/2015 15:57 |
| 2,4-Dinitrophenol | ND | | 6.3 | 1 | 06/05/2015 15:57 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/5/15

WorkOrder: 1506217
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B4A-4.0 | 1506217-002A | Soil | 06/02/2015 08:35 | GC21 | 105894 |

| Analytes | Result | RL | DF | Date Analyzed |
|---------------------------------|--------|------|----|------------------|
| 2,4-Dinitrotoluene | ND | 0.25 | 1 | 06/05/2015 15:57 |
| 2,6-Dinitrotoluene | ND | 0.25 | 1 | 06/05/2015 15:57 |
| Di-n-octyl Phthalate | ND | 0.50 | 1 | 06/05/2015 15:57 |
| 1,2-Diphenylhydrazine | ND | 0.25 | 1 | 06/05/2015 15:57 |
| Fluoranthene | ND | 0.25 | 1 | 06/05/2015 15:57 |
| Fluorene | ND | 0.25 | 1 | 06/05/2015 15:57 |
| Hexachlorobenzene | ND | 0.25 | 1 | 06/05/2015 15:57 |
| Hexachlorobutadiene | ND | 0.25 | 1 | 06/05/2015 15:57 |
| Hexachlorocyclopentadiene | ND | 1.3 | 1 | 06/05/2015 15:57 |
| Hexachloroethane | ND | 0.25 | 1 | 06/05/2015 15:57 |
| Indeno (1,2,3-cd) pyrene | ND | 0.25 | 1 | 06/05/2015 15:57 |
| Isophorone | ND | 0.25 | 1 | 06/05/2015 15:57 |
| 2-Methylnaphthalene | ND | 0.25 | 1 | 06/05/2015 15:57 |
| 2-Methylphenol (o-Cresol) | ND | 0.25 | 1 | 06/05/2015 15:57 |
| 3 & 4-Methylphenol (m,p-Cresol) | ND | 0.25 | 1 | 06/05/2015 15:57 |
| Naphthalene | ND | 0.25 | 1 | 06/05/2015 15:57 |
| 2-Nitroaniline | ND | 1.3 | 1 | 06/05/2015 15:57 |
| 3-Nitroaniline | ND | 1.3 | 1 | 06/05/2015 15:57 |
| 4-Nitroaniline | ND | 1.3 | 1 | 06/05/2015 15:57 |
| Nitrobenzene | ND | 0.25 | 1 | 06/05/2015 15:57 |
| 2-Nitrophenol | ND | 1.3 | 1 | 06/05/2015 15:57 |
| 4-Nitrophenol | ND | 1.3 | 1 | 06/05/2015 15:57 |
| N-Nitrosodiphenylamine | ND | 0.25 | 1 | 06/05/2015 15:57 |
| N-Nitrosodi-n-propylamine | ND | 0.25 | 1 | 06/05/2015 15:57 |
| Pentachlorophenol | ND | 1.3 | 1 | 06/05/2015 15:57 |
| Phenanthrene | ND | 0.25 | 1 | 06/05/2015 15:57 |
| Phenol | ND | 0.25 | 1 | 06/05/2015 15:57 |
| Pyrene | ND | 0.25 | 1 | 06/05/2015 15:57 |
| 1,2,4-Trichlorobenzene | ND | 0.25 | 1 | 06/05/2015 15:57 |
| 2,4,5-Trichlorophenol | ND | 0.25 | 1 | 06/05/2015 15:57 |
| 2,4,6-Trichlorophenol | ND | 0.25 | 1 | 06/05/2015 15:57 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/5/15

WorkOrder: 1506217
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B4A-4.0 | 1506217-002A | Soil | 06/02/2015 08:35 | GC21 | 105894 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|----|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | |
| 2-Fluorophenol | 98 | | 30-130 | 06/05/2015 15:57 |
| Phenol-d5 | 98 | | 30-130 | 06/05/2015 15:57 |
| Nitrobenzene-d5 | 91 | | 30-130 | 06/05/2015 15:57 |
| 2-Fluorobiphenyl | 82 | | 30-130 | 06/05/2015 15:57 |
| 2,4,6-Tribromophenol | 61 | | 16-130 | 06/05/2015 15:57 |
| 4-Terphenyl-d14 | 86 | | 30-130 | 06/05/2015 15:57 |

Analyst(s): HK



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/5/15

WorkOrder: 1506217
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-------------------------------|--------------|----------------|------------------|------------------|----------|
| B4A-9.0 | 1506217-003A | Soil | 06/02/2015 08:40 | GC21 | 105894 |
| Analytes | Result | RL | DF | Date Analyzed | |
| Acenaphthene | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| Acenaphthylene | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| Acetochlor | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| Anthracene | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| Benzidine | ND | 1.3 | 1 | 06/05/2015 14:59 | |
| Benzo (a) anthracene | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| Benzo (b) fluoranthene | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| Benzo (k) fluoranthene | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| Benzo (g,h,i) perylene | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| Benzo (a) pyrene | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| Benzyl Alcohol | ND | 1.3 | 1 | 06/05/2015 14:59 | |
| 1,1-Biphenyl | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| Bis (2-chloroethoxy) Methane | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| Bis (2-chloroethyl) Ether | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| Bis (2-chloroisopropyl) Ether | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| Bis (2-ethylhexyl) Adipate | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| Bis (2-ethylhexyl) Phthalate | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| 4-Bromophenyl Phenyl Ether | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| Butylbenzyl Phthalate | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| 4-Chloroaniline | ND | 0.50 | 1 | 06/05/2015 14:59 | |
| 4-Chloro-3-methylphenol | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| 2-Chloronaphthalene | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| 2-Chlorophenol | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| 4-Chlorophenyl Phenyl Ether | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| Chrysene | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| Dibenzo (a,h) anthracene | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| Dibenzofuran | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| Di-n-butyl Phthalate | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| 1,2-Dichlorobenzene | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| 1,3-Dichlorobenzene | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| 1,4-Dichlorobenzene | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| 3,3-Dichlorobenzidine | ND | 0.50 | 1 | 06/05/2015 14:59 | |
| 2,4-Dichlorophenol | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| Diethyl Phthalate | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| 2,4-Dimethylphenol | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| Dimethyl Phthalate | ND | 0.25 | 1 | 06/05/2015 14:59 | |
| 4,6-Dinitro-2-methylphenol | ND | 1.3 | 1 | 06/05/2015 14:59 | |
| 2,4-Dinitrophenol | ND | 6.3 | 1 | 06/05/2015 14:59 | |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/5/15

WorkOrder: 1506217
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|---------------------------------|---------------|----------------|------------------|------------|----------------------|
| B4A-9.0 | 1506217-003A | Soil | 06/02/2015 08:40 | GC21 | 105894 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| 2,4-Dinitrotoluene | ND | | 0.25 | 1 | 06/05/2015 14:59 |
| 2,6-Dinitrotoluene | ND | | 0.25 | 1 | 06/05/2015 14:59 |
| Di-n-octyl Phthalate | ND | | 0.50 | 1 | 06/05/2015 14:59 |
| 1,2-Diphenylhydrazine | ND | | 0.25 | 1 | 06/05/2015 14:59 |
| Fluoranthene | ND | | 0.25 | 1 | 06/05/2015 14:59 |
| Fluorene | ND | | 0.25 | 1 | 06/05/2015 14:59 |
| Hexachlorobenzene | ND | | 0.25 | 1 | 06/05/2015 14:59 |
| Hexachlorobutadiene | ND | | 0.25 | 1 | 06/05/2015 14:59 |
| Hexachlorocyclopentadiene | ND | | 1.3 | 1 | 06/05/2015 14:59 |
| Hexachloroethane | ND | | 0.25 | 1 | 06/05/2015 14:59 |
| Indeno (1,2,3-cd) pyrene | ND | | 0.25 | 1 | 06/05/2015 14:59 |
| Isophorone | ND | | 0.25 | 1 | 06/05/2015 14:59 |
| 2-Methylnaphthalene | ND | | 0.25 | 1 | 06/05/2015 14:59 |
| 2-Methylphenol (o-Cresol) | ND | | 0.25 | 1 | 06/05/2015 14:59 |
| 3 & 4-Methylphenol (m,p-Cresol) | ND | | 0.25 | 1 | 06/05/2015 14:59 |
| Naphthalene | ND | | 0.25 | 1 | 06/05/2015 14:59 |
| 2-Nitroaniline | ND | | 1.3 | 1 | 06/05/2015 14:59 |
| 3-Nitroaniline | ND | | 1.3 | 1 | 06/05/2015 14:59 |
| 4-Nitroaniline | ND | | 1.3 | 1 | 06/05/2015 14:59 |
| Nitrobenzene | ND | | 0.25 | 1 | 06/05/2015 14:59 |
| 2-Nitrophenol | ND | | 1.3 | 1 | 06/05/2015 14:59 |
| 4-Nitrophenol | ND | | 1.3 | 1 | 06/05/2015 14:59 |
| N-Nitrosodiphenylamine | ND | | 0.25 | 1 | 06/05/2015 14:59 |
| N-Nitrosodi-n-propylamine | ND | | 0.25 | 1 | 06/05/2015 14:59 |
| Pentachlorophenol | ND | | 1.3 | 1 | 06/05/2015 14:59 |
| Phenanthrene | ND | | 0.25 | 1 | 06/05/2015 14:59 |
| Phenol | ND | | 0.25 | 1 | 06/05/2015 14:59 |
| Pyrene | ND | | 0.25 | 1 | 06/05/2015 14:59 |
| 1,2,4-Trichlorobenzene | ND | | 0.25 | 1 | 06/05/2015 14:59 |
| 2,4,5-Trichlorophenol | ND | | 0.25 | 1 | 06/05/2015 14:59 |
| 2,4,6-Trichlorophenol | ND | | 0.25 | 1 | 06/05/2015 14:59 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/5/15

WorkOrder: 1506217
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B4A-9.0 | 1506217-003A | Soil | 06/02/2015 08:40 | GC21 | 105894 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|----|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | |
| 2-Fluorophenol | 96 | | 30-130 | 06/05/2015 14:59 |
| Phenol-d5 | 99 | | 30-130 | 06/05/2015 14:59 |
| Nitrobenzene-d5 | 90 | | 30-130 | 06/05/2015 14:59 |
| 2-Fluorobiphenyl | 79 | | 30-130 | 06/05/2015 14:59 |
| 2,4,6-Tribromophenol | 60 | | 16-130 | 06/05/2015 14:59 |
| 4-Terphenyl-d14 | 87 | | 30-130 | 06/05/2015 14:59 |

Analyst(s): HK



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/5/15

WorkOrder: 1506217
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B4A-11.0 | 1506217-004A | Soil | 06/02/2015 08:45 | GC21 | 105894 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|------|----|------------------|
| Acenaphthene | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Acenaphthylene | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Acetochlor | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Anthracene | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Benzidine | ND | 1.3 | 1 | 06/05/2015 14:29 |
| Benzo (a) anthracene | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Benzo (b) fluoranthene | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Benzo (k) fluoranthene | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Benzo (g,h,i) perylene | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Benzo (a) pyrene | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Benzyl Alcohol | ND | 1.3 | 1 | 06/05/2015 14:29 |
| 1,1-Biphenyl | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Bis (2-chloroethoxy) Methane | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Bis (2-chloroethyl) Ether | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Bis (2-chloroisopropyl) Ether | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Bis (2-ethylhexyl) Adipate | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Bis (2-ethylhexyl) Phthalate | ND | 0.25 | 1 | 06/05/2015 14:29 |
| 4-Bromophenyl Phenyl Ether | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Butylbenzyl Phthalate | ND | 0.25 | 1 | 06/05/2015 14:29 |
| 4-Chloroaniline | ND | 0.50 | 1 | 06/05/2015 14:29 |
| 4-Chloro-3-methylphenol | ND | 0.25 | 1 | 06/05/2015 14:29 |
| 2-Chloronaphthalene | ND | 0.25 | 1 | 06/05/2015 14:29 |
| 2-Chlorophenol | ND | 0.25 | 1 | 06/05/2015 14:29 |
| 4-Chlorophenyl Phenyl Ether | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Chrysene | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Dibenzo (a,h) anthracene | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Dibenzofuran | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Di-n-butyl Phthalate | ND | 0.25 | 1 | 06/05/2015 14:29 |
| 1,2-Dichlorobenzene | ND | 0.25 | 1 | 06/05/2015 14:29 |
| 1,3-Dichlorobenzene | ND | 0.25 | 1 | 06/05/2015 14:29 |
| 1,4-Dichlorobenzene | ND | 0.25 | 1 | 06/05/2015 14:29 |
| 3,3-Dichlorobenzidine | ND | 0.50 | 1 | 06/05/2015 14:29 |
| 2,4-Dichlorophenol | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Diethyl Phthalate | ND | 0.25 | 1 | 06/05/2015 14:29 |
| 2,4-Dimethylphenol | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Dimethyl Phthalate | ND | 0.25 | 1 | 06/05/2015 14:29 |
| 4,6-Dinitro-2-methylphenol | ND | 1.3 | 1 | 06/05/2015 14:29 |
| 2,4-Dinitrophenol | ND | 6.3 | 1 | 06/05/2015 14:29 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/5/15

WorkOrder: 1506217
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B4A-11.0 | 1506217-004A | Soil | 06/02/2015 08:45 | GC21 | 105894 |

| Analytes | Result | RL | DF | Date Analyzed |
|---------------------------------|--------|------|----|------------------|
| 2,4-Dinitrotoluene | ND | 0.25 | 1 | 06/05/2015 14:29 |
| 2,6-Dinitrotoluene | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Di-n-octyl Phthalate | ND | 0.50 | 1 | 06/05/2015 14:29 |
| 1,2-Diphenylhydrazine | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Fluoranthene | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Fluorene | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Hexachlorobenzene | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Hexachlorobutadiene | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Hexachlorocyclopentadiene | ND | 1.3 | 1 | 06/05/2015 14:29 |
| Hexachloroethane | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Indeno (1,2,3-cd) pyrene | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Isophorone | ND | 0.25 | 1 | 06/05/2015 14:29 |
| 2-Methylnaphthalene | ND | 0.25 | 1 | 06/05/2015 14:29 |
| 2-Methylphenol (o-Cresol) | ND | 0.25 | 1 | 06/05/2015 14:29 |
| 3 & 4-Methylphenol (m,p-Cresol) | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Naphthalene | ND | 0.25 | 1 | 06/05/2015 14:29 |
| 2-Nitroaniline | ND | 1.3 | 1 | 06/05/2015 14:29 |
| 3-Nitroaniline | ND | 1.3 | 1 | 06/05/2015 14:29 |
| 4-Nitroaniline | ND | 1.3 | 1 | 06/05/2015 14:29 |
| Nitrobenzene | ND | 0.25 | 1 | 06/05/2015 14:29 |
| 2-Nitrophenol | ND | 1.3 | 1 | 06/05/2015 14:29 |
| 4-Nitrophenol | ND | 1.3 | 1 | 06/05/2015 14:29 |
| N-Nitrosodiphenylamine | ND | 0.25 | 1 | 06/05/2015 14:29 |
| N-Nitrosodi-n-propylamine | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Pentachlorophenol | ND | 1.3 | 1 | 06/05/2015 14:29 |
| Phenanthrene | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Phenol | ND | 0.25 | 1 | 06/05/2015 14:29 |
| Pyrene | ND | 0.25 | 1 | 06/05/2015 14:29 |
| 1,2,4-Trichlorobenzene | ND | 0.25 | 1 | 06/05/2015 14:29 |
| 2,4,5-Trichlorophenol | ND | 0.25 | 1 | 06/05/2015 14:29 |
| 2,4,6-Trichlorophenol | ND | 0.25 | 1 | 06/05/2015 14:29 |

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/5/15

WorkOrder: 1506217
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics by GC/MS (Basic Target List)

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B4A-11.0 | 1506217-004A | Soil | 06/02/2015 08:45 | GC21 | 105894 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|----|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | |
| 2-Fluorophenol | 91 | | 30-130 | 06/05/2015 14:29 |
| Phenol-d5 | 95 | | 30-130 | 06/05/2015 14:29 |
| Nitrobenzene-d5 | 88 | | 30-130 | 06/05/2015 14:29 |
| 2-Fluorobiphenyl | 74 | | 30-130 | 06/05/2015 14:29 |
| 2,4,6-Tribromophenol | 54 | | 16-130 | 06/05/2015 14:29 |
| 4-Terphenyl-d14 | 82 | | 30-130 | 06/05/2015 14:29 |

Analyst(s): HK



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B4A-3.0 | 1506217-001A | Soil | 06/02/2015 08:30 | GC3 | 105833 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|--------|----|------------------|
| TPH(g) | 15 | 1.0 | 1 | 06/05/2015 23:36 |
| MTBE | --- | 0.050 | 1 | 06/05/2015 23:36 |
| Benzene | --- | 0.0050 | 1 | 06/05/2015 23:36 |
| Toluene | --- | 0.0050 | 1 | 06/05/2015 23:36 |
| Ethylbenzene | --- | 0.0050 | 1 | 06/05/2015 23:36 |
| Xylenes | --- | 0.0050 | 1 | 06/05/2015 23:36 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 85 | 70-130 | 06/05/2015 23:36 |

Analyst(s): HD

Analytical Comments: d2,d9

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B4A-4.0 | 1506217-002A | Soil | 06/02/2015 08:35 | GC19 | 105833 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|-------|----|------------------|
| TPH(g) | 150 | 10 | 10 | 06/06/2015 14:23 |
| MTBE | --- | 0.50 | 10 | 06/06/2015 14:23 |
| Benzene | --- | 0.050 | 10 | 06/06/2015 14:23 |
| Toluene | --- | 0.050 | 10 | 06/06/2015 14:23 |
| Ethylbenzene | --- | 0.050 | 10 | 06/06/2015 14:23 |
| Xylenes | --- | 0.050 | 10 | 06/06/2015 14:23 |

| Surrogates | REC (%) | Qualifiers | Limits | Date Analyzed |
|-----------------|---------|------------|--------|------------------|
| 2-Fluorotoluene | 156 | S | 70-130 | 06/06/2015 14:23 |

Analyst(s): HD

Analytical Comments: d2,d9,c4

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B4A-9.0 | 1506217-003A | Soil | 06/02/2015 08:40 | GC3 | 105833 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|-------|----|------------------|
| TPH(g) | 40 | 10 | 10 | 06/08/2015 23:45 |
| MTBE | --- | 0.50 | 10 | 06/08/2015 23:45 |
| Benzene | --- | 0.050 | 10 | 06/08/2015 23:45 |
| Toluene | --- | 0.050 | 10 | 06/08/2015 23:45 |
| Ethylbenzene | --- | 0.050 | 10 | 06/08/2015 23:45 |
| Xylenes | --- | 0.050 | 10 | 06/08/2015 23:45 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 100 | 70-130 | 06/08/2015 23:45 |

Analyst(s): HD

Analytical Comments: d2,d9

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B4A-11.0 | 1506217-004A | Soil | 06/02/2015 08:45 | GC3 | 105833 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|--------|----|------------------|
| TPH(g) | ND | 1.0 | 1 | 06/06/2015 00:36 |
| MTBE | --- | 0.050 | 1 | 06/06/2015 00:36 |
| Benzene | --- | 0.0050 | 1 | 06/06/2015 00:36 |
| Toluene | --- | 0.0050 | 1 | 06/06/2015 00:36 |
| Ethylbenzene | --- | 0.0050 | 1 | 06/06/2015 00:36 |
| Xylenes | --- | 0.0050 | 1 | 06/06/2015 00:36 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 103 | 70-130 | 06/06/2015 00:36 |

Analyst(s): HD



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B8-4.0 | 1506217-005A | Soil | 06/02/2015 07:40 | GC3 | 105883 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|--------|----|------------------|
| TPH(g) | 1.8 | 1.0 | 1 | 06/06/2015 01:06 |
| MTBE | --- | 0.050 | 1 | 06/06/2015 01:06 |
| Benzene | --- | 0.0050 | 1 | 06/06/2015 01:06 |
| Toluene | --- | 0.0050 | 1 | 06/06/2015 01:06 |
| Ethylbenzene | --- | 0.0050 | 1 | 06/06/2015 01:06 |
| Xylenes | --- | 0.0050 | 1 | 06/06/2015 01:06 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 97 | 70-130 | 06/06/2015 01:06 |

Analyst(s): HD

Analytical Comments: d9

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B8-9.5 | 1506217-006A | Soil | 06/02/2015 07:48 | GC19 | 105883 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|-------|----|------------------|
| TPH(g) | 45 | 5.0 | 5 | 06/08/2015 19:27 |
| MTBE | --- | 0.25 | 5 | 06/08/2015 19:27 |
| Benzene | --- | 0.025 | 5 | 06/08/2015 19:27 |
| Toluene | --- | 0.025 | 5 | 06/08/2015 19:27 |
| Ethylbenzene | --- | 0.025 | 5 | 06/08/2015 19:27 |
| Xylenes | --- | 0.025 | 5 | 06/08/2015 19:27 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 107 | 70-130 | 06/08/2015 19:27 |

Analyst(s): HD

Analytical Comments: d7,d9



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B8-11.5 | 1506217-007A | Soil | 06/02/2015 08:00 | GC3 | 105883 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|--------|----|------------------|
| TPH(g) | ND | 1.0 | 1 | 06/06/2015 03:06 |
| MTBE | --- | 0.050 | 1 | 06/06/2015 03:06 |
| Benzene | --- | 0.0050 | 1 | 06/06/2015 03:06 |
| Toluene | --- | 0.0050 | 1 | 06/06/2015 03:06 |
| Ethylbenzene | --- | 0.0050 | 1 | 06/06/2015 03:06 |
| Xylenes | --- | 0.0050 | 1 | 06/06/2015 03:06 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 103 | 70-130 | 06/06/2015 03:06 |

Analyst(s): HD

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B8-18.5 | 1506217-008A | Soil | 06/02/2015 07:50 | GC3 | 105883 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|--------|----|------------------|
| TPH(g) | ND | 1.0 | 1 | 06/06/2015 04:06 |
| MTBE | --- | 0.050 | 1 | 06/06/2015 04:06 |
| Benzene | --- | 0.0050 | 1 | 06/06/2015 04:06 |
| Toluene | --- | 0.0050 | 1 | 06/06/2015 04:06 |
| Ethylbenzene | --- | 0.0050 | 1 | 06/06/2015 04:06 |
| Xylenes | --- | 0.0050 | 1 | 06/06/2015 04:06 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 99 | 70-130 | 06/06/2015 04:06 |

Analyst(s): HD



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B9-4.0 | 1506217-009A | Soil | 06/02/2015 09:35 | GC3 | 105883 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|--------|----|------------------|
| TPH(g) | ND | 1.0 | 1 | 06/06/2015 05:35 |
| MTBE | --- | 0.050 | 1 | 06/06/2015 05:35 |
| Benzene | --- | 0.0050 | 1 | 06/06/2015 05:35 |
| Toluene | --- | 0.0050 | 1 | 06/06/2015 05:35 |
| Ethylbenzene | --- | 0.0050 | 1 | 06/06/2015 05:35 |
| Xylenes | --- | 0.0050 | 1 | 06/06/2015 05:35 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 99 | 70-130 | 06/06/2015 05:35 |

Analyst(s): HD

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B9-8.0 | 1506217-010A | Soil | 06/02/2015 09:40 | GC19 | 105883 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|------|-----|------------------|
| TPH(g) | 310 | 100 | 100 | 06/05/2015 20:16 |
| MTBE | --- | 5.0 | 100 | 06/05/2015 20:16 |
| Benzene | --- | 0.50 | 100 | 06/05/2015 20:16 |
| Toluene | --- | 0.50 | 100 | 06/05/2015 20:16 |
| Ethylbenzene | --- | 0.50 | 100 | 06/05/2015 20:16 |
| Xylenes | --- | 0.50 | 100 | 06/05/2015 20:16 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| aaa-TFT | 91 | 70-130 | 06/05/2015 20:16 |

Analyst(s): HD

Analytical Comments: d2



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B9-12.0 | 1506217-011A | Soil | 06/02/2015 09:45 | GC3 | 105883 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|--------|----|------------------|
| TPH(g) | ND | 1.0 | 1 | 06/06/2015 06:05 |
| MTBE | --- | 0.050 | 1 | 06/06/2015 06:05 |
| Benzene | --- | 0.0050 | 1 | 06/06/2015 06:05 |
| Toluene | --- | 0.0050 | 1 | 06/06/2015 06:05 |
| Ethylbenzene | --- | 0.0050 | 1 | 06/06/2015 06:05 |
| Xylenes | --- | 0.0050 | 1 | 06/06/2015 06:05 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 104 | 70-130 | 06/06/2015 06:05 |

Analyst(s): HD

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B9-19.0 | 1506217-012A | Soil | 06/02/2015 09:55 | GC3 | 105883 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|--------|----|------------------|
| TPH(g) | ND | 1.0 | 1 | 06/06/2015 06:35 |
| MTBE | --- | 0.050 | 1 | 06/06/2015 06:35 |
| Benzene | --- | 0.0050 | 1 | 06/06/2015 06:35 |
| Toluene | --- | 0.0050 | 1 | 06/06/2015 06:35 |
| Ethylbenzene | --- | 0.0050 | 1 | 06/06/2015 06:35 |
| Xylenes | --- | 0.0050 | 1 | 06/06/2015 06:35 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 98 | 70-130 | 06/06/2015 06:35 |

Analyst(s): HD

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B10-3.0 | 1506217-013A | Soil | 06/02/2015 10:35 | GC3 | 105883 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|--------|----|------------------|
| TPH(g) | 2.4 | 1.0 | 1 | 06/06/2015 07:05 |
| MTBE | --- | 0.050 | 1 | 06/06/2015 07:05 |
| Benzene | --- | 0.0050 | 1 | 06/06/2015 07:05 |
| Toluene | --- | 0.0050 | 1 | 06/06/2015 07:05 |
| Ethylbenzene | --- | 0.0050 | 1 | 06/06/2015 07:05 |
| Xylenes | --- | 0.0050 | 1 | 06/06/2015 07:05 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 95 | 70-130 | 06/06/2015 07:05 |

Analyst(s): HD

Analytical Comments: d2,d9

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B10-7.5 | 1506217-014A | Soil | 06/02/2015 10:40 | GC19 | 105883 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|------|-----|------------------|
| TPH(g) | 420 | 100 | 100 | 06/05/2015 23:55 |
| MTBE | --- | 5.0 | 100 | 06/05/2015 23:55 |
| Benzene | --- | 0.50 | 100 | 06/05/2015 23:55 |
| Toluene | --- | 0.50 | 100 | 06/05/2015 23:55 |
| Ethylbenzene | --- | 0.50 | 100 | 06/05/2015 23:55 |
| Xylenes | --- | 0.50 | 100 | 06/05/2015 23:55 |

| Surrogates | REC (%) | Qualifiers | Limits | Date Analyzed |
|-----------------|---------|------------|--------|------------------|
| 2-Fluorotoluene | 292 | S | 70-130 | 06/05/2015 23:55 |

Analyst(s): HD

Analytical Comments: d2,d9,c4



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B10-10.5 | 1506217-015A | Soil | 06/02/2015 10:45 | GC3 | 105883 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|--------|----|------------------|
| TPH(g) | 14 | 1.0 | 1 | 06/06/2015 07:35 |
| MTBE | --- | 0.050 | 1 | 06/06/2015 07:35 |
| Benzene | --- | 0.0050 | 1 | 06/06/2015 07:35 |
| Toluene | --- | 0.0050 | 1 | 06/06/2015 07:35 |
| Ethylbenzene | --- | 0.0050 | 1 | 06/06/2015 07:35 |
| Xylenes | --- | 0.0050 | 1 | 06/06/2015 07:35 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 105 | 70-130 | 06/06/2015 07:35 |

Analyst(s): HD

Analytical Comments: d1,d9

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B10A-4.0 | 1506217-016A | Soil | 06/02/2015 13:35 | GC3 | 105883 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|--------|----|------------------|
| TPH(g) | 9.2 | 1.0 | 1 | 06/06/2015 08:05 |
| MTBE | --- | 0.050 | 1 | 06/06/2015 08:05 |
| Benzene | --- | 0.0050 | 1 | 06/06/2015 08:05 |
| Toluene | --- | 0.0050 | 1 | 06/06/2015 08:05 |
| Ethylbenzene | --- | 0.0050 | 1 | 06/06/2015 08:05 |
| Xylenes | --- | 0.0050 | 1 | 06/06/2015 08:05 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 95 | 70-130 | 06/06/2015 08:05 |

Analyst(s): HD

Analytical Comments: d1,d7

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B10A-8.0 | 1506217-017A | Soil | 06/02/2015 13:40 | GC3 | 105883 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|------|-----|------------------|
| TPH(g) | 440 | 100 | 100 | 06/09/2015 00:17 |
| MTBE | --- | 5.0 | 100 | 06/09/2015 00:17 |
| Benzene | --- | 0.50 | 100 | 06/09/2015 00:17 |
| Toluene | --- | 0.50 | 100 | 06/09/2015 00:17 |
| Ethylbenzene | --- | 0.50 | 100 | 06/09/2015 00:17 |
| Xylenes | --- | 0.50 | 100 | 06/09/2015 00:17 |

| Surrogates | REC (%) | Qualifiers | Limits | Date Analyzed |
|-----------------|---------|------------|--------|------------------|
| 2-Fluorotoluene | 204 | S | 70-130 | 06/09/2015 00:17 |

Analyst(s): HD

Analytical Comments: d2,d9,c4

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B10A-13.0 | 1506217-018A | Soil | 06/02/2015 13:50 | GC3 | 105883 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|--------|----|------------------|
| TPH(g) | ND | 1.0 | 1 | 06/09/2015 00:49 |
| MTBE | --- | 0.050 | 1 | 06/09/2015 00:49 |
| Benzene | --- | 0.0050 | 1 | 06/09/2015 00:49 |
| Toluene | --- | 0.0050 | 1 | 06/09/2015 00:49 |
| Ethylbenzene | --- | 0.0050 | 1 | 06/09/2015 00:49 |
| Xylenes | --- | 0.0050 | 1 | 06/09/2015 00:49 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 94 | 70-130 | 06/09/2015 00:49 |

Analyst(s): HD

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B10A-18.0 | 1506217-019A | Soil | 06/02/2015 14:00 | GC3 | 105883 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|--------|----|------------------|
| TPH(g) | ND | 1.0 | 1 | 06/06/2015 10:06 |
| MTBE | --- | 0.050 | 1 | 06/06/2015 10:06 |
| Benzene | --- | 0.0050 | 1 | 06/06/2015 10:06 |
| Toluene | --- | 0.0050 | 1 | 06/06/2015 10:06 |
| Ethylbenzene | --- | 0.0050 | 1 | 06/06/2015 10:06 |
| Xylenes | --- | 0.0050 | 1 | 06/06/2015 10:06 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 104 | 70-130 | 06/06/2015 10:06 |

Analyst(s): HD

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B11-4.0 | 1506217-020A | Soil | 06/02/2015 11:05 | GC3 | 105883 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|--------|----|------------------|
| TPH(g) | 3.3 | 1.0 | 1 | 06/06/2015 10:36 |
| MTBE | --- | 0.050 | 1 | 06/06/2015 10:36 |
| Benzene | --- | 0.0050 | 1 | 06/06/2015 10:36 |
| Toluene | --- | 0.0050 | 1 | 06/06/2015 10:36 |
| Ethylbenzene | --- | 0.0050 | 1 | 06/06/2015 10:36 |
| Xylenes | --- | 0.0050 | 1 | 06/06/2015 10:36 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 81 | 70-130 | 06/06/2015 10:36 |

Analyst(s): HD

Analytical Comments: d2,d9



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B11-8.5 | 1506217-021A | Soil | 06/02/2015 11:10 | GC7 | 105883 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|------|----|------------------|
| TPH(g) | 320 | 50 | 50 | 06/09/2015 02:25 |
| MTBE | --- | 2.5 | 50 | 06/09/2015 02:25 |
| Benzene | --- | 0.25 | 50 | 06/09/2015 02:25 |
| Toluene | --- | 0.25 | 50 | 06/09/2015 02:25 |
| Ethylbenzene | --- | 0.25 | 50 | 06/09/2015 02:25 |
| Xylenes | --- | 0.25 | 50 | 06/09/2015 02:25 |

| Surrogates | REC (%) | Qualifiers | Limits | Date Analyzed |
|-----------------|---------|------------|--------|------------------|
| 2-Fluorotoluene | 172 | S | 70-130 | 06/09/2015 02:25 |

Analyst(s): HD

Analytical Comments: d2,d9,c4

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B11-10.0 | 1506217-022A | Soil | 06/02/2015 11:15 | GC7 | 105883 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|--------|----|------------------|
| TPH(g) | 1.5 | 1.0 | 1 | 06/09/2015 02:56 |
| MTBE | --- | 0.050 | 1 | 06/09/2015 02:56 |
| Benzene | --- | 0.0050 | 1 | 06/09/2015 02:56 |
| Toluene | --- | 0.0050 | 1 | 06/09/2015 02:56 |
| Ethylbenzene | --- | 0.0050 | 1 | 06/09/2015 02:56 |
| Xylenes | --- | 0.0050 | 1 | 06/09/2015 02:56 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 88 | 70-130 | 06/09/2015 02:56 |

Analyst(s): HD

Analytical Comments: d9



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B11-18.0 | 1506217-023A | Soil | 06/02/2015 11:25 | GC7 | 105883 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|--------|----|------------------|
| TPH(g) | ND | 1.0 | 1 | 06/06/2015 20:43 |
| MTBE | --- | 0.050 | 1 | 06/06/2015 20:43 |
| Benzene | --- | 0.0050 | 1 | 06/06/2015 20:43 |
| Toluene | --- | 0.0050 | 1 | 06/06/2015 20:43 |
| Ethylbenzene | --- | 0.0050 | 1 | 06/06/2015 20:43 |
| Xylenes | --- | 0.0050 | 1 | 06/06/2015 20:43 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 93 | 70-130 | 06/06/2015 20:43 |

Analyst(s): HD

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B12-4.0 | 1506217-024A | Soil | 06/03/2015 08:35 | GC19 | 105883 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|--------|----|------------------|
| TPH(g) | 15 | 1.0 | 1 | 06/05/2015 17:04 |
| MTBE | --- | 0.050 | 1 | 06/05/2015 17:04 |
| Benzene | --- | 0.0050 | 1 | 06/05/2015 17:04 |
| Toluene | --- | 0.0050 | 1 | 06/05/2015 17:04 |
| Ethylbenzene | --- | 0.0050 | 1 | 06/05/2015 17:04 |
| Xylenes | --- | 0.0050 | 1 | 06/05/2015 17:04 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 100 | 70-130 | 06/05/2015 17:04 |

Analyst(s): HD

Analytical Comments: d2,d9



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B12-7.0 | 1506217-025A | Soil | 06/03/2015 08:40 | GC19 | 105884 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|------|----|------------------|
| TPH(g) | 210 | 50 | 50 | 06/08/2015 20:00 |
| MTBE | --- | 2.5 | 50 | 06/08/2015 20:00 |
| Benzene | --- | 0.25 | 50 | 06/08/2015 20:00 |
| Toluene | --- | 0.25 | 50 | 06/08/2015 20:00 |
| Ethylbenzene | --- | 0.25 | 50 | 06/08/2015 20:00 |
| Xylenes | --- | 0.25 | 50 | 06/08/2015 20:00 |

| Surrogates | REC (%) | Qualifiers | Limits | Date Analyzed |
|-----------------|---------|------------|--------|------------------|
| 2-Fluorotoluene | 162 | S | 70-130 | 06/08/2015 20:00 |

Analyst(s): HD

Analytical Comments: d2,d9,c4

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B12-11.0 | 1506217-026A | Soil | 06/03/2015 08:45 | GC19 | 105884 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|--------|----|------------------|
| TPH(g) | 1.3 | 1.0 | 1 | 06/06/2015 13:14 |
| MTBE | --- | 0.050 | 1 | 06/06/2015 13:14 |
| Benzene | --- | 0.0050 | 1 | 06/06/2015 13:14 |
| Toluene | --- | 0.0050 | 1 | 06/06/2015 13:14 |
| Ethylbenzene | --- | 0.0050 | 1 | 06/06/2015 13:14 |
| Xylenes | --- | 0.0050 | 1 | 06/06/2015 13:14 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 87 | 70-130 | 06/06/2015 13:14 |

Analyst(s): HD

Analytical Comments: d1



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B12-19.0 | 1506217-027A | Soil | 06/03/2015 10:40 | GC7 | 105884 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|--------|----|------------------|
| TPH(g) | ND | 1.0 | 1 | 06/06/2015 21:14 |
| MTBE | --- | 0.050 | 1 | 06/06/2015 21:14 |
| Benzene | --- | 0.0050 | 1 | 06/06/2015 21:14 |
| Toluene | --- | 0.0050 | 1 | 06/06/2015 21:14 |
| Ethylbenzene | --- | 0.0050 | 1 | 06/06/2015 21:14 |
| Xylenes | --- | 0.0050 | 1 | 06/06/2015 21:14 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 100 | 70-130 | 06/06/2015 21:14 |

Analyst(s): HD

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B13-4.0 | 1506217-028A | Soil | 06/02/2015 12:35 | GC7 | 105884 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|--------|----|------------------|
| TPH(g) | 2.4 | 1.0 | 1 | 06/06/2015 22:15 |
| MTBE | --- | 0.050 | 1 | 06/06/2015 22:15 |
| Benzene | --- | 0.0050 | 1 | 06/06/2015 22:15 |
| Toluene | --- | 0.0050 | 1 | 06/06/2015 22:15 |
| Ethylbenzene | --- | 0.0050 | 1 | 06/06/2015 22:15 |
| Xylenes | --- | 0.0050 | 1 | 06/06/2015 22:15 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 98 | 70-130 | 06/06/2015 22:15 |

Analyst(s): HD

Analytical Comments: d2,d9

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B13-8.5 | 1506217-029A | Soil | 06/02/2015 12:40 | GC7 | 105884 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|------|----|------------------|
| TPH(g) | 150 | 50 | 50 | 06/09/2015 03:26 |
| MTBE | --- | 2.5 | 50 | 06/09/2015 03:26 |
| Benzene | --- | 0.25 | 50 | 06/09/2015 03:26 |
| Toluene | --- | 0.25 | 50 | 06/09/2015 03:26 |
| Ethylbenzene | --- | 0.25 | 50 | 06/09/2015 03:26 |
| Xylenes | --- | 0.25 | 50 | 06/09/2015 03:26 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 122 | 70-130 | 06/09/2015 03:26 |

Analyst(s): HD

Analytical Comments: d2,d9

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B13-10.0 | 1506217-030A | Soil | 06/02/2015 12:45 | GC19 | 105884 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|--------|----|------------------|
| TPH(g) | 3.2 | 1.0 | 1 | 06/06/2015 18:53 |
| MTBE | --- | 0.050 | 1 | 06/06/2015 18:53 |
| Benzene | --- | 0.0050 | 1 | 06/06/2015 18:53 |
| Toluene | --- | 0.0050 | 1 | 06/06/2015 18:53 |
| Ethylbenzene | --- | 0.0050 | 1 | 06/06/2015 18:53 |
| Xylenes | --- | 0.0050 | 1 | 06/06/2015 18:53 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 95 | 70-130 | 06/06/2015 18:53 |

Analyst(s): HD

Analytical Comments: d9



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B13-19.0 | 1506217-031A | Soil | 06/02/2015 12:55 | GC7 | 105884 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|--------|----|------------------|
| TPH(g) | ND | 1.0 | 1 | 06/07/2015 03:17 |
| MTBE | --- | 0.050 | 1 | 06/07/2015 03:17 |
| Benzene | --- | 0.0050 | 1 | 06/07/2015 03:17 |
| Toluene | --- | 0.0050 | 1 | 06/07/2015 03:17 |
| Ethylbenzene | --- | 0.0050 | 1 | 06/07/2015 03:17 |
| Xylenes | --- | 0.0050 | 1 | 06/07/2015 03:17 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 95 | 70-130 | 06/07/2015 03:17 |

Analyst(s): HD

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B14-4.0 | 1506217-032A | Soil | 06/03/2015 07:40 | GC7 | 105884 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|--------|----|------------------|
| TPH(g) | ND | 1.0 | 1 | 06/07/2015 03:47 |
| MTBE | --- | 0.050 | 1 | 06/07/2015 03:47 |
| Benzene | --- | 0.0050 | 1 | 06/07/2015 03:47 |
| Toluene | --- | 0.0050 | 1 | 06/07/2015 03:47 |
| Ethylbenzene | --- | 0.0050 | 1 | 06/07/2015 03:47 |
| Xylenes | --- | 0.0050 | 1 | 06/07/2015 03:47 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 97 | 70-130 | 06/07/2015 03:47 |

Analyst(s): HD

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B14-9.0 | 1506217-033A | Soil | 06/03/2015 07:45 | GC19 | 105884 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|------|-----|------------------|
| TPH(g) | 2800 | 100 | 100 | 06/06/2015 00:26 |
| MTBE | --- | 5.0 | 100 | 06/06/2015 00:26 |
| Benzene | --- | 0.50 | 100 | 06/06/2015 00:26 |
| Toluene | --- | 0.50 | 100 | 06/06/2015 00:26 |
| Ethylbenzene | --- | 0.50 | 100 | 06/06/2015 00:26 |
| Xylenes | --- | 0.50 | 100 | 06/06/2015 00:26 |

| Surrogates | REC (%) | Qualifiers | Limits | Date Analyzed |
|-----------------|---------|------------|--------|------------------|
| 2-Fluorotoluene | 314 | S | 70-130 | 06/06/2015 00:26 |

Analyst(s): HD

Analytical Comments: d2,d9,c4

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B14-14.0 | 1506217-034A | Soil | 06/03/2015 07:50 | GC7 | 105884 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|--------|----|------------------|
| TPH(g) | ND | 1.0 | 1 | 06/07/2015 05:17 |
| MTBE | --- | 0.050 | 1 | 06/07/2015 05:17 |
| Benzene | --- | 0.0050 | 1 | 06/07/2015 05:17 |
| Toluene | --- | 0.0050 | 1 | 06/07/2015 05:17 |
| Ethylbenzene | --- | 0.0050 | 1 | 06/07/2015 05:17 |
| Xylenes | --- | 0.0050 | 1 | 06/07/2015 05:17 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 102 | 70-130 | 06/07/2015 05:17 |

Analyst(s): HD

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B15-4.0 | 1506217-035A | Soil | 06/03/2015 12:10 | GC19 | 105884 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|--------|----|------------------|
| TPH(g) | 2.2 | 1.0 | 1 | 06/06/2015 19:25 |
| MTBE | --- | 0.050 | 1 | 06/06/2015 19:25 |
| Benzene | --- | 0.0050 | 1 | 06/06/2015 19:25 |
| Toluene | --- | 0.0050 | 1 | 06/06/2015 19:25 |
| Ethylbenzene | --- | 0.0050 | 1 | 06/06/2015 19:25 |
| Xylenes | --- | 0.0050 | 1 | 06/06/2015 19:25 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 89 | 70-130 | 06/06/2015 19:25 |

Analyst(s): HD

Analytical Comments: d9

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B15-8.0 | 1506217-036A | Soil | 06/03/2015 12:15 | GC19 | 105884 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|-------|----|------------------|
| TPH(g) | 39 | 5.0 | 5 | 06/05/2015 19:16 |
| MTBE | --- | 0.25 | 5 | 06/05/2015 19:16 |
| Benzene | --- | 0.025 | 5 | 06/05/2015 19:16 |
| Toluene | --- | 0.025 | 5 | 06/05/2015 19:16 |
| Ethylbenzene | --- | 0.025 | 5 | 06/05/2015 19:16 |
| Xylenes | --- | 0.025 | 5 | 06/05/2015 19:16 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 107 | 70-130 | 06/05/2015 19:16 |

Analyst(s): HD

Analytical Comments: d2,d9

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B15-11.0 | 1506217-037A | Soil | 06/03/2015 12:20 | GC7 | 105884 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|--------|----|------------------|
| TPH(g) | ND | 1.0 | 1 | 06/07/2015 05:47 |
| MTBE | --- | 0.050 | 1 | 06/07/2015 05:47 |
| Benzene | --- | 0.0050 | 1 | 06/07/2015 05:47 |
| Toluene | --- | 0.0050 | 1 | 06/07/2015 05:47 |
| Ethylbenzene | --- | 0.0050 | 1 | 06/07/2015 05:47 |
| Xylenes | --- | 0.0050 | 1 | 06/07/2015 05:47 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 89 | 70-130 | 06/07/2015 05:47 |

Analyst(s): HD

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B15-20.0 | 1506217-038A | Soil | 06/03/2015 12:40 | GC7 | 105884 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|--------|----|------------------|
| TPH(g) | ND | 1.0 | 1 | 06/07/2015 08:18 |
| MTBE | --- | 0.050 | 1 | 06/07/2015 08:18 |
| Benzene | --- | 0.0050 | 1 | 06/07/2015 08:18 |
| Toluene | --- | 0.0050 | 1 | 06/07/2015 08:18 |
| Ethylbenzene | --- | 0.0050 | 1 | 06/07/2015 08:18 |
| Xylenes | --- | 0.0050 | 1 | 06/07/2015 08:18 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|-----------------|---------|--------|------------------|
| 2-Fluorotoluene | 102 | 70-130 | 06/07/2015 08:18 |

Analyst(s): HD



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B4A-3.0 | 1506217-001A | Soil | 06/02/2015 08:30 | GC11B | 105836 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | 11 | 1.0 | 1 | 06/05/2015 17:31 |
| TPH-Motor Oil (C18-C36) | 110 | 5.0 | 1 | 06/05/2015 17:31 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 108 | 70-130 | 06/05/2015 17:31 |

Analyst(s): TK **Analytical Comments:** e7,e2

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B4A-4.0 | 1506217-002A | Soil | 06/02/2015 08:35 | GC9a | 105836 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | 15 | 1.0 | 1 | 06/08/2015 19:15 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/08/2015 19:15 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 111 | 70-130 | 06/08/2015 19:15 |

Analyst(s): TK **Analytical Comments:** e4

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B4A-9.0 | 1506217-003A | Soil | 06/02/2015 08:40 | GC2B | 105836 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | 3.8 | 1.0 | 1 | 06/07/2015 21:22 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/07/2015 21:22 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 95 | 70-130 | 06/07/2015 21:22 |

Analyst(s): TK **Analytical Comments:** e11

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B4A-11.0 | 1506217-004A | Soil | 06/02/2015 08:45 | GC2B | 105836 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | ND | 1.0 | 1 | 06/07/2015 22:37 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/07/2015 22:37 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 94 | 70-130 | 06/07/2015 22:37 |

Analyst(s): TK

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B8-4.0 | 1506217-005A | Soil | 06/02/2015 07:40 | GC2A | 105836 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | ND | 1.0 | 1 | 06/08/2015 04:54 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/08/2015 04:54 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 107 | 70-130 | 06/08/2015 04:54 |

Analyst(s): TK

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B8-9.5 | 1506217-006A | Soil | 06/02/2015 07:48 | GC2A | 105836 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | 1.3 | 1.0 | 1 | 06/07/2015 04:51 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/07/2015 04:51 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 108 | 70-130 | 06/07/2015 04:51 |

Analyst(s): TK

Analytical Comments: e8



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B8-11.5 | 1506217-007A | Soil | 06/02/2015 08:00 | GC2A | 105836 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | ND | 1.0 | 1 | 06/07/2015 07:20 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/07/2015 07:20 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 109 | 70-130 | 06/07/2015 07:20 |

Analyst(s): TK

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B8-18.5 | 1506217-008A | Soil | 06/02/2015 07:50 | GC2A | 105836 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | ND | 1.0 | 1 | 06/07/2015 06:06 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/07/2015 06:06 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 108 | 70-130 | 06/07/2015 06:06 |

Analyst(s): TK

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B9-4.0 | 1506217-009A | Soil | 06/02/2015 09:35 | GC11A | 105836 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | ND | 1.0 | 1 | 06/07/2015 14:18 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/07/2015 14:18 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 104 | 70-130 | 06/07/2015 14:18 |

Analyst(s): TK

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B9-8.0 | 1506217-010A | Soil | 06/02/2015 09:40 | GC6A | 105836 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | 270 | 2.0 | 2 | 06/07/2015 22:14 |
| TPH-Motor Oil (C18-C36) | 17 | 10 | 2 | 06/07/2015 22:14 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 99 | 70-130 | 06/07/2015 22:14 |

Analyst(s): TK **Analytical Comments:** e4

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B9-12.0 | 1506217-011A | Soil | 06/02/2015 09:45 | GC11A | 105881 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | ND | 1.0 | 1 | 06/07/2015 12:00 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/07/2015 12:00 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 105 | 70-130 | 06/07/2015 12:00 |

Analyst(s): TK

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B9-19.0 | 1506217-012A | Soil | 06/02/2015 09:55 | GC11A | 105881 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | ND | 1.0 | 1 | 06/07/2015 00:34 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/07/2015 00:34 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 105 | 70-130 | 06/07/2015 00:34 |

Analyst(s): TK

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B10-3.0 | 1506217-013A | Soil | 06/02/2015 10:35 | GC11A | 105881 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | 1.4 | 1.0 | 1 | 06/07/2015 13:09 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/07/2015 13:09 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 105 | 70-130 | 06/07/2015 13:09 |

Analyst(s): TK **Analytical Comments:** e11,e2

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B10-7.5 | 1506217-014A | Soil | 06/02/2015 10:40 | GC2B | 105881 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | 92 | 1.0 | 1 | 06/08/2015 16:47 |
| TPH-Motor Oil (C18-C36) | 5.7 | 5.0 | 1 | 06/08/2015 16:47 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 91 | 70-130 | 06/08/2015 16:47 |

Analyst(s): TK **Analytical Comments:** e4

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B10-10.5 | 1506217-015A | Soil | 06/02/2015 10:45 | GC2B | 105881 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | 2.7 | 1.0 | 1 | 06/08/2015 02:24 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/08/2015 02:24 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 96 | 70-130 | 06/08/2015 02:24 |

Analyst(s): TK **Analytical Comments:** e8



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B10A-4.0 | 1506217-016A | Soil | 06/02/2015 13:35 | GC2A | 105881 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | 7.8 | 1.0 | 1 | 06/08/2015 02:24 |
| TPH-Motor Oil (C18-C36) | 15 | 5.0 | 1 | 06/08/2015 02:24 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 108 | 70-130 | 06/08/2015 02:24 |

Analyst(s): TK Analytical Comments: e7,e2

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B10A-8.0 | 1506217-017A | Soil | 06/02/2015 13:40 | GC11A | 105881 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | 25 | 1.0 | 1 | 06/07/2015 08:34 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/07/2015 08:34 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 105 | 70-130 | 06/07/2015 08:34 |

Analyst(s): TK Analytical Comments: e4

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B10A-13.0 | 1506217-018A | Soil | 06/02/2015 13:50 | GC11A | 105881 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | ND | 1.0 | 1 | 06/07/2015 07:26 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/07/2015 07:26 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 105 | 70-130 | 06/07/2015 07:26 |

Analyst(s): TK



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B10A-18.0 | 1506217-019A | Soil | 06/02/2015 14:00 | GC11A | 105881 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | ND | 1.0 | 1 | 06/07/2015 05:08 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/07/2015 05:08 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 105 | 70-130 | 06/07/2015 05:08 |

Analyst(s): TK

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B11-4.0 | 1506217-020A | Soil | 06/02/2015 11:05 | GC11A | 105881 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | 1.4 | 1.0 | 1 | 06/08/2015 11:37 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/08/2015 11:37 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 103 | 70-130 | 06/08/2015 11:37 |

Analyst(s): TK

Analytical Comments: e11/e4

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B11-8.5 | 1506217-021A | Soil | 06/02/2015 11:10 | GC11A | 105881 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | 11 | 1.0 | 1 | 06/07/2015 02:51 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/07/2015 02:51 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 106 | 70-130 | 06/07/2015 02:51 |

Analyst(s): TK

Analytical Comments: e4

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B11-10.0 | 1506217-022A | Soil | 06/02/2015 11:15 | GC11A | 105881 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | ND | 1.0 | 1 | 06/07/2015 01:42 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/07/2015 01:42 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 105 | 70-130 | 06/07/2015 01:42 |

Analyst(s): TK

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B11-18.0 | 1506217-023A | Soil | 06/02/2015 11:25 | GC2A | 105881 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | ND | 1.0 | 1 | 06/07/2015 21:22 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/07/2015 21:22 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 105 | 70-130 | 06/07/2015 21:22 |

Analyst(s): TK

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B12-4.0 | 1506217-024A | Soil | 06/03/2015 08:35 | GC2A | 105881 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | 3.0 | 1.0 | 1 | 06/07/2015 22:37 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/07/2015 22:37 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 106 | 70-130 | 06/07/2015 22:37 |

Analyst(s): TK

Analytical Comments: e4

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B12-7.0 | 1506217-025A | Soil | 06/03/2015 08:40 | GC2A | 105881 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | 12 | 1.0 | 1 | 06/08/2015 03:39 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/08/2015 03:39 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 108 | 70-130 | 06/08/2015 03:39 |

Analyst(s): TK **Analytical Comments:** e4

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B12-11.0 | 1506217-026A | Soil | 06/03/2015 08:45 | GC2A | 105881 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | ND | 1.0 | 1 | 06/06/2015 17:37 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/06/2015 17:37 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 105 | 70-130 | 06/06/2015 17:37 |

Analyst(s): TK

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B12-19.0 | 1506217-027A | Soil | 06/03/2015 10:40 | GC2B | 105881 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | ND | 1.0 | 1 | 06/06/2015 15:04 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/06/2015 15:04 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 94 | 70-130 | 06/06/2015 15:04 |

Analyst(s): TK

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B13-4.0 | 1506217-028A | Soil | 06/02/2015 12:35 | GC2A | 105881 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | ND | 1.0 | 1 | 06/06/2015 18:53 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/06/2015 18:53 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 106 | 70-130 | 06/06/2015 18:53 |

Analyst(s): TK

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B13-8.5 | 1506217-029A | Soil | 06/02/2015 12:40 | GC2A | 105881 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | 8.6 | 1.0 | 1 | 06/06/2015 20:08 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/06/2015 20:08 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 107 | 70-130 | 06/06/2015 20:08 |

Analyst(s): TK

Analytical Comments: e4

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B13-10.0 | 1506217-030A | Soil | 06/02/2015 12:45 | GC2B | 105881 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | ND | 1.0 | 1 | 06/06/2015 13:47 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/06/2015 13:47 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 94 | 70-130 | 06/06/2015 13:47 |

Analyst(s): TK

(Cont.)



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B13-19.0 | 1506217-031A | Soil | 06/02/2015 12:55 | GC2A | 105882 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | ND | 1.0 | 1 | 06/07/2015 03:37 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/07/2015 03:37 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 108 | 70-130 | 06/07/2015 03:37 |

Analyst(s): TK

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B14-4.0 | 1506217-032A | Soil | 06/03/2015 07:40 | GC2A | 105882 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | ND | 1.0 | 1 | 06/07/2015 01:08 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/07/2015 01:08 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 108 | 70-130 | 06/07/2015 01:08 |

Analyst(s): TK

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B14-9.0 | 1506217-033A | Soil | 06/03/2015 07:45 | GC6A | 105882 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | 890 | 1.0 | 1 | 06/08/2015 06:34 |
| TPH-Motor Oil (C18-C36) | 44 | 5.0 | 1 | 06/08/2015 06:34 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 128 | 70-130 | 06/08/2015 06:34 |

Analyst(s): TK

Analytical Comments: e4



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B14-14.0 | 1506217-034A | Soil | 06/03/2015 07:50 | GC2A | 105882 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | ND | 1.0 | 1 | 06/07/2015 02:22 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/07/2015 02:22 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 108 | 70-130 | 06/07/2015 02:22 |

Analyst(s): TK

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B15-4.0 | 1506217-035A | Soil | 06/03/2015 12:10 | GC2A | 105882 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | ND | 1.0 | 1 | 06/06/2015 21:23 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/06/2015 21:23 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 108 | 70-130 | 06/06/2015 21:23 |

Analyst(s): TK

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B15-8.0 | 1506217-036A | Soil | 06/03/2015 12:15 | GC6A | 105882 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | 2.5 | 1.0 | 1 | 06/08/2015 11:01 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/08/2015 11:01 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 107 | 70-130 | 06/08/2015 11:01 |

Analyst(s): TK

Analytical Comments: e4



Analytical Report

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland
Date Received: 6/4/15 16:29
Date Prepared: 6/4/15

WorkOrder: 1506217
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B15-11.0 | 1506217-037A | Soil | 06/03/2015 12:20 | GC2B | 105882 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | ND | 1.0 | 1 | 06/05/2015 12:09 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/05/2015 12:09 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 93 | 70-130 | 06/05/2015 12:09 |

Analyst(s): TK

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B15-20.0 | 1506217-038A | Soil | 06/03/2015 12:40 | GC6A | 105882 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | ND | 1.0 | 1 | 06/08/2015 07:45 |
| TPH-Motor Oil (C18-C36) | ND | 5.0 | 1 | 06/08/2015 07:45 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 100 | 70-130 | 06/08/2015 07:45 |

Analyst(s): TK



Quality Control Report

Client: P & D Environmental
Date Prepared: 6/3/15
Date Analyzed: 6/4/15
Instrument: GC7
Matrix: Soil
Project: #0398; Auto Depot 4171 Broadway Oakland

WorkOrder: 1506217
BatchID: 105833
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg
Sample ID: MB/LCS-105833
 1506183-014AMS/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 | 0.575 | 0.40 | 0.60 | - | 96 | 70-130 |
| MTBE | ND | 0.0905 | 0.050 | 0.10 | - | 91 | 70-130 |
| Benzene | ND | 0.0963 | 0.0050 | 0.10 | - | 96 | 70-130 |
| Toluene | ND | 0.0940 | 0.0050 | 0.10 | - | 94 | 70-130 |
| Ethylbenzene | ND | 0.101 | 0.0050 | 0.10 | - | 101 | 70-130 |
| Xylenes | ND | 0.317 | 0.0050 | 0.30 | - | 106 | 70-130 |

Surrogate Recovery

| | | | | | | | |
|-----------------|-------|-------|--|------|-----|-----|--------|
| 2-Fluorotoluene | 0.108 | 0.105 | | 0.10 | 108 | 105 | 70-130 |
|-----------------|-------|-------|--|------|-----|-----|--------|

| Analyte | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD Limit |
|--------------|-----------|------------|---------|------------|---------|----------|---------------|---------|-----------|
| TPH(btex) | 0.554 | 0.580 | 0.60 | ND | 92 | 97 | 70-130 | 4.59 | 20 |
| MTBE | 0.0644 | 0.0821 | 0.10 | ND | 64,F1 | 82 | 70-130 | 24.2,F1 | 20 |
| Benzene | 0.0746 | 0.0840 | 0.10 | ND | 75 | 84 | 70-130 | 11.8 | 20 |
| Toluene | 0.0725 | 0.0823 | 0.10 | ND | 72 | 82 | 70-130 | 12.7 | 20 |
| Ethylbenzene | 0.0769 | 0.0858 | 0.10 | ND | 77 | 86 | 70-130 | 10.9 | 20 |
| Xylenes | 0.252 | 0.279 | 0.30 | ND | 84 | 93 | 70-130 | 10.2 | 20 |

Surrogate Recovery

| | | | | | | | | | |
|-----------------|--------|--------|------|--|----|----|--------|------|----|
| 2-Fluorotoluene | 0.0839 | 0.0929 | 0.10 | | 84 | 93 | 70-130 | 10.2 | 20 |
|-----------------|--------|--------|------|--|----|----|--------|------|----|

(Cont.)



Quality Control Report

Client: P & D Environmental
Date Prepared: 6/4/15
Date Analyzed: 6/4/15
Instrument: GC16
Matrix: Soil
Project: #0398; Auto Depot 4171 Broadway Oakland

WorkOrder: 1506217
BatchID: 105841
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-105841
 1506185-010AMS/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 | 0.0538 | 0.0050 | 0.050 | - | 108 | 53-116 |
| Benzene | ND | 0.0522 | 0.0050 | 0.050 | - | 104 | 63-137 |
| 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 | 0.241 | 0.050 | 0.20 | - | 121 | 41-135 |
| 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 | 0.0484 | 0.0050 | 0.050 | - | 97 | 77-121 |
| 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 | 0.0512 | 0.0040 | 0.050 | - | 102 | 67-119 |
| 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 | 0.0516 | 0.0040 | 0.050 | - | 103 | 58-135 |
| 1,1-Dichloroethene | ND | 0.0456 | 0.0050 | 0.050 | - | 91 | 42-145 |
| 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.)



Quality Control Report

Client: P & D Environmental
Date Prepared: 6/4/15
Date Analyzed: 6/4/15
Instrument: GC16
Matrix: Soil
Project: #0398; Auto Depot 4171 Broadway Oakland

WorkOrder: 1506217
BatchID: 105841
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-105841
 1506185-010AMS/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 | 0.0498 | 0.0050 | 0.050 | - | 100 | 52-129 |
| Ethylbenzene | ND | - | 0.0050 | - | - | - | - |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0529 | 0.0050 | 0.050 | - | 106 | 53-125 |
| 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 | 0.0528 | 0.0050 | 0.050 | - | 106 | 58-122 |
| 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 | 0.0478 | 0.0050 | 0.050 | - | 96 | 76-130 |
| 1,2,3-Trichlorobenzene | ND | - | 0.0050 | - | - | - | - |
| 1,2,4-Trichlorobenzene | ND | - | 0.0050 | - | - | - | - |
| 1,1,1-Trichloroethane | ND | - | 0.0050 | - | - | - | - |
| 1,1,2-Trichloroethane | ND | - | 0.0050 | - | - | - | - |
| Trichloroethene | ND | 0.0492 | 0.0050 | 0.050 | - | 98 | 72-132 |
| 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 | 0.124 | 0.130 | | 0.12 | 99 | 104 | 70-130 |
| Toluene-d8 | 0.123 | 0.119 | | 0.12 | 98 | 95 | 70-130 |
| 4-BFB | 0.0112 | 0.0116 | | 0.012 | 90 | 93 | 70-130 |
| Benzene-d6 | 0.0870 | 0.0944 | | 0.10 | 87 | 94 | 60-140 |
| Ethylbenzene-d10 | 0.0900 | 0.0983 | | 0.10 | 90 | 98 | 60-140 |
| 1,2-DCB-d4 | 0.0886 | 0.0956 | | 0.10 | 89 | 96 | 60-140 |

(Cont.)



Quality Control Report

Client: P & D Environmental
Date Prepared: 6/4/15
Date Analyzed: 6/4/15
Instrument: GC16
Matrix: Soil
Project: #0398; Auto Depot 4171 Broadway Oakland

WorkOrder: 1506217
BatchID: 105841
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-105841
 1506185-010AMS/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) | 0.0450 | 0.0445 | 0.050 | ND | 90 | 89 | 70-130 | 1.03 | 20 |
| Benzene | 0.0421 | 0.0408 | 0.050 | ND | 84 | 82 | 70-130 | 3.11 | 20 |
| t-Butyl alcohol (TBA) | 0.195 | 0.186 | 0.20 | ND | 97 | 93 | 70-130 | 4.39 | 20 |
| Chlorobenzene | 0.0400 | 0.0397 | 0.050 | ND | 80 | 79 | 70-130 | 0.724 | 20 |
| 1,2-Dibromoethane (EDB) | 0.0429 | 0.0424 | 0.050 | ND | 86 | 85 | 70-130 | 1.26 | 20 |
| 1,2-Dichloroethane (1,2-DCA) | 0.0429 | 0.0417 | 0.050 | ND | 86 | 83 | 70-130 | 2.95 | 20 |
| 1,1-Dichloroethene | 0.0369 | 0.0353 | 0.050 | ND | 74 | 71 | 70-130 | 4.64 | 20 |
| Diisopropyl ether (DIPE) | 0.0417 | 0.0403 | 0.050 | ND | 83 | 81 | 70-130 | 3.47 | 20 |
| Ethyl tert-butyl ether (ETBE) | 0.0441 | 0.0426 | 0.050 | ND | 88 | 85 | 70-130 | 3.31 | 20 |
| Methyl-t-butyl ether (MTBE) | 0.0444 | 0.0425 | 0.050 | ND | 89 | 85 | 70-130 | 4.22 | 20 |
| Toluene | 0.0389 | 0.0384 | 0.050 | ND | 78 | 77 | 70-130 | 1.26 | 20 |
| Trichloroethene | 0.0405 | 0.0391 | 0.050 | ND | 81 | 78 | 70-130 | 3.47 | 20 |
| Surrogate Recovery | | | | | | | | | |
| Dibromofluoromethane | 0.130 | 0.129 | 0.12 | | 104 | 104 | 70-130 | 0 | 20 |
| Toluene-d8 | 0.118 | 0.119 | 0.12 | | 94 | 95 | 70-130 | 1.25 | 20 |
| 4-BFB | 0.0116 | 0.0116 | 0.012 | | 93 | 93 | 70-130 | 0 | 20 |
| Benzene-d6 | 0.0790 | 0.0771 | 0.10 | | 79 | 77 | 60-140 | 2.43 | 20 |
| Ethylbenzene-d10 | 0.0827 | 0.0810 | 0.10 | | 83 | 81 | 60-140 | 2.02 | 20 |
| 1,2-DCB-d4 | 0.0851 | 0.0837 | 0.10 | | 85 | 84 | 60-140 | 1.61 | 20 |

(Cont.)



Quality Control Report

Client: P & D Environmental
Date Prepared: 6/4/15
Date Analyzed: 6/5/15 - 6/9/15
Instrument: GC10, GC16
Matrix: Soil
Project: #0398; Auto Depot 4171 Broadway Oakland

WorkOrder: 1506217
BatchID: 105879
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-105879
 1506217-025AMS/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 | 0.0506 | 0.0050 | 0.050 | - | 101 | 53-116 |
| Benzene | ND | 0.0508 | 0.0050 | 0.050 | - | 102 | 63-137 |
| 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 | 0.224 | 0.050 | 0.20 | - | 112 | 41-135 |
| 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 | 0.0473 | 0.0050 | 0.050 | - | 95 | 77-121 |
| 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 | 0.0498 | 0.0040 | 0.050 | - | 100 | 67-119 |
| 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 | 0.0503 | 0.0040 | 0.050 | - | 101 | 58-135 |
| 1,1-Dichloroethene | ND | 0.0444 | 0.0050 | 0.050 | - | 89 | 42-145 |
| 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.)



Quality Control Report

Client: P & D Environmental
Date Prepared: 6/4/15
Date Analyzed: 6/5/15 - 6/9/15
Instrument: GC10, GC16
Matrix: Soil
Project: #0398; Auto Depot 4171 Broadway Oakland

WorkOrder: 1506217
BatchID: 105879
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-105879
 1506217-025AMS/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 | 0.0480 | 0.0050 | 0.050 | - | 96 | 52-129 |
| Ethylbenzene | ND | - | 0.0050 | - | - | - | - |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0503 | 0.0050 | 0.050 | - | 101 | 53-125 |
| 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 | 0.0499 | 0.0050 | 0.050 | - | 100 | 58-122 |
| 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 | 0.0458 | 0.0050 | 0.050 | - | 92 | 76-130 |
| 1,2,3-Trichlorobenzene | ND | - | 0.0050 | - | - | - | - |
| 1,2,4-Trichlorobenzene | ND | - | 0.0050 | - | - | - | - |
| 1,1,1-Trichloroethane | ND | - | 0.0050 | - | - | - | - |
| 1,1,2-Trichloroethane | ND | - | 0.0050 | - | - | - | - |
| Trichloroethene | ND | 0.0502 | 0.0050 | 0.050 | - | 100 | 72-132 |
| 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 | 0.104 | 0.130 | | 0.12 | 83 | 104 | 70-130 |
| Toluene-d8 | 0.115 | 0.117 | | 0.12 | 92 | 94 | 70-130 |
| 4-BFB | 0.0107 | 0.0124 | | 0.012 | 86 | 99 | 70-130 |
| Benzene-d6 | 0.0844 | 0.0887 | | 0.10 | 84 | 89 | 60-140 |
| Ethylbenzene-d10 | 0.106 | 0.0920 | | 0.10 | 106 | 92 | 60-140 |
| 1,2-DCB-d4 | 0.0780 | 0.0919 | | 0.10 | 78 | 92 | 60-140 |

(Cont.)



Quality Control Report

Client: P & D Environmental
Date Prepared: 6/4/15
Date Analyzed: 6/5/15 - 6/9/15
Instrument: GC10, GC16
Matrix: Soil
Project: #0398; Auto Depot 4171 Broadway Oakland

WorkOrder: 1506217
BatchID: 105879
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-105879
 1506217-025AMS/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 | | ND<0.5 | NR | NR | - | NR | |
| Benzene | NR | NR | | ND<0.5 | NR | NR | - | NR | |
| t-Butyl alcohol (TBA) | NR | NR | | ND<5 | NR | NR | - | NR | |
| Chlorobenzene | NR | NR | | ND<0.5 | NR | NR | - | NR | |
| 1,2-Dibromoethane (EDB) | NR | NR | | ND<0.4 | NR | NR | - | NR | |
| 1,2-Dichloroethane (1,2-DCA) | NR | NR | | ND<0.4 | NR | NR | - | NR | |
| 1,1-Dichloroethene | NR | NR | | ND<0.5 | NR | NR | - | NR | |
| Diisopropyl ether (DIPE) | NR | NR | | ND<0.5 | NR | NR | - | NR | |
| Ethyl tert-butyl ether (ETBE) | NR | NR | | ND<0.5 | NR | NR | - | NR | |
| Methyl-t-butyl ether (MTBE) | NR | NR | | ND<0.5 | NR | NR | - | NR | |
| Toluene | NR | NR | | ND<0.5 | NR | NR | - | NR | |
| Trichloroethene | NR | NR | | ND<0.5 | NR | NR | - | NR | |
| Surrogate Recovery | | | | | | | | | |
| Dibromofluoromethane | NR | NR | | | NR | NR | - | NR | |
| Toluene-d8 | NR | NR | | | NR | NR | - | NR | |
| 4-BFB | NR | NR | | | NR | NR | - | NR | |
| Benzene-d6 | NR | NR | | | NR | NR | - | NR | |
| Ethylbenzene-d10 | NR | NR | | | NR | NR | - | NR | |
| 1,2-DCB-d4 | NR | NR | | | NR | NR | - | NR | |

(Cont.)



Quality Control Report

Client: P & D Environmental
Date Prepared: 6/4/15
Date Analyzed: 6/5/15
Instrument: GC16
Matrix: Soil
Project: #0398; Auto Depot 4171 Broadway Oakland

WorkOrder: 1506217
BatchID: 105880
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-105880
 1506217-038AMS/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 | 0.0489 | 0.0050 | 0.050 | - | 98 | 53-116 |
| Benzene | ND | 0.0496 | 0.0050 | 0.050 | - | 99 | 63-137 |
| 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 | 0.206 | 0.050 | 0.20 | - | 103 | 41-135 |
| 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 | 0.0458 | 0.0050 | 0.050 | - | 92 | 77-121 |
| 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 | 0.0534 | 0.0040 | 0.050 | - | 107 | 67-119 |
| 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 | 0.0499 | 0.0040 | 0.050 | - | 100 | 58-135 |
| 1,1-Dichloroethene | ND | 0.0442 | 0.0050 | 0.050 | - | 88 | 42-145 |
| 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.)



Quality Control Report

Client: P & D Environmental
Date Prepared: 6/4/15
Date Analyzed: 6/5/15
Instrument: GC16
Matrix: Soil
Project: #0398; Auto Depot 4171 Broadway Oakland

WorkOrder: 1506217
BatchID: 105880
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-105880
 1506217-038AMS/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 | 0.0455 | 0.0050 | 0.050 | - | 91 | 52-129 |
| Ethylbenzene | ND | - | 0.0050 | - | - | - | - |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0479 | 0.0050 | 0.050 | - | 96 | 53-125 |
| 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 | 58-122 |
| 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 | 0.0442 | 0.0050 | 0.050 | - | 88 | 76-130 |
| 1,2,3-Trichlorobenzene | ND | - | 0.0050 | - | - | - | - |
| 1,2,4-Trichlorobenzene | ND | - | 0.0050 | - | - | - | - |
| 1,1,1-Trichloroethane | ND | - | 0.0050 | - | - | - | - |
| 1,1,2-Trichloroethane | ND | - | 0.0050 | - | - | - | - |
| Trichloroethene | ND | 0.0486 | 0.0050 | 0.050 | - | 97 | 72-132 |
| Trichlorofluoromethane | ND | - | 0.0050 | - | - | - | - |
| 1,2,3-Trichloropropane | ND | - | 0.0050 | - | - | - | - |
| 1,2,4-Trimethylbenzene | ND | - | 0.0050 | - | - | - | - |
| 1,3,5-Trimethylbenzene | ND | - | 0.0050 | - | - | - | - |
| Vinyl Chloride | ND | - | 0.0050 | - | - | - | - |
| Xylenes, Total | ND | - | 0.0050 | - | - | - | - |

Surrogate Recovery

| | | | | | | | |
|----------------------|--------|--------|--|-------|-----|-----|--------|
| Dibromofluoromethane | 0.125 | 0.133 | | 0.12 | 100 | 107 | 70-130 |
| Toluene-d8 | 0.122 | 0.116 | | 0.12 | 98 | 93 | 70-130 |
| 4-BFB | 0.0118 | 0.0125 | | 0.012 | 94 | 100 | 70-130 |
| Benzene-d6 | 0.0817 | 0.0866 | | 0.10 | 82 | 87 | 60-140 |
| Ethylbenzene-d10 | 0.0826 | 0.0893 | | 0.10 | 83 | 89 | 60-140 |
| 1,2-DCB-d4 | 0.0873 | 0.0893 | | 0.10 | 87 | 89 | 60-140 |

(Cont.)



Quality Control Report

Client: P & D Environmental
Date Prepared: 6/4/15
Date Analyzed: 6/5/15
Instrument: GC16
Matrix: Soil
Project: #0398; Auto Depot 4171 Broadway Oakland

WorkOrder: 1506217
BatchID: 105880
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-105880
 1506217-038AMS/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) | 0.0344 | 0.0361 | 0.050 | ND | 69,F1 | 72 | 70-130 | 4.60 | 20 |
| Benzene | 0.0413 | 0.0440 | 0.050 | ND | 83 | 88 | 70-130 | 6.15 | 20 |
| t-Butyl alcohol (TBA) | 0.141 | 0.147 | 0.20 | ND | 70 | 73 | 70-130 | 4.03 | 20 |
| Chlorobenzene | 0.0392 | 0.0413 | 0.050 | ND | 78 | 83 | 70-130 | 5.16 | 20 |
| 1,2-Dibromoethane (EDB) | 0.0360 | 0.0376 | 0.050 | ND | 72 | 75 | 70-130 | 4.33 | 20 |
| 1,2-Dichloroethane (1,2-DCA) | 0.0400 | 0.0419 | 0.050 | ND | 80 | 84 | 70-130 | 4.73 | 20 |
| 1,1-Dichloroethene | 0.0404 | 0.0429 | 0.050 | ND | 81 | 86 | 70-130 | 6.05 | 20 |
| Diisopropyl ether (DIPE) | 0.0394 | 0.0420 | 0.050 | ND | 79 | 84 | 70-130 | 6.42 | 20 |
| Ethyl tert-butyl ether (ETBE) | 0.0388 | 0.0411 | 0.050 | ND | 78 | 82 | 70-130 | 5.72 | 20 |
| Methyl-t-butyl ether (MTBE) | 0.0382 | 0.0403 | 0.050 | ND | 76 | 81 | 70-130 | 5.23 | 20 |
| Toluene | 0.0420 | 0.0450 | 0.050 | ND | 84 | 90 | 70-130 | 7.05 | 20 |
| Trichloroethene | 0.0397 | 0.0422 | 0.050 | ND | 79 | 84 | 70-130 | 5.96 | 20 |
| Surrogate Recovery | | | | | | | | | |
| Dibromofluoromethane | 0.108 | 0.109 | 0.12 | | 86 | 87 | 70-130 | 1.14 | 20 |
| Toluene-d8 | 0.112 | 0.114 | 0.12 | | 90 | 91 | 70-130 | 1.92 | 20 |
| 4-BFB | 0.0103 | 0.0103 | 0.012 | | 82 | 83 | 70-130 | 0.0262 | 20 |
| Benzene-d6 | 0.0819 | 0.0863 | 0.10 | | 82 | 86 | 60-140 | 5.20 | 20 |
| Ethylbenzene-d10 | 0.102 | 0.108 | 0.10 | | 102 | 108 | 60-140 | 5.51 | 20 |
| 1,2-DCB-d4 | 0.0739 | 0.0757 | 0.10 | | 74 | 76 | 60-140 | 2.33 | 20 |

(Cont.)



Quality Control Report

Client: P & D Environmental
Date Prepared: 6/4/15
Date Analyzed: 6/5/15 - 6/8/15
Instrument: GC7
Matrix: Soil
Project: #0398; Auto Depot 4171 Broadway Oakland

WorkOrder: 1506217
BatchID: 105883
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg
Sample ID: MB/LCS-105883
 1506217-024AMS/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 | 0.565 | 0.40 | 0.60 | - | 94 | 70-130 |
| MTBE | ND | 0.0962 | 0.050 | 0.10 | - | 96 | 70-130 |
| Benzene | ND | 0.0966 | 0.0050 | 0.10 | - | 97 | 70-130 |
| Toluene | ND | 0.0945 | 0.0050 | 0.10 | - | 94 | 70-130 |
| Ethylbenzene | ND | 0.100 | 0.0050 | 0.10 | - | 100 | 70-130 |
| Xylenes | ND | 0.316 | 0.0050 | 0.30 | - | 106 | 70-130 |

Surrogate Recovery

| | | | | | | | |
|-----------------|-------|-------|--|------|-----|-----|--------|
| 2-Fluorotoluene | 0.114 | 0.103 | | 0.10 | 114 | 103 | 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 | | 4 | NR | NR | - | NR | |
| MTBE | NR | NR | | ND | NR | NR | - | NR | |
| Benzene | NR | NR | | 0.018 | NR | NR | - | NR | |
| Toluene | NR | NR | | 0.56 | NR | NR | - | NR | |
| Ethylbenzene | NR | NR | | 0.038 | NR | NR | - | NR | |
| Xylenes | NR | NR | | ND | NR | NR | - | NR | |

Surrogate Recovery

| | | | | | | | | | |
|-----------------|----|----|--|--|----|----|---|----|--|
| 2-Fluorotoluene | NR | NR | | | NR | NR | - | NR | |
|-----------------|----|----|--|--|----|----|---|----|--|

(Cont.)



Quality Control Report

Client: P & D Environmental
Date Prepared: 6/4/15
Date Analyzed: 6/5/15
Instrument: GC3
Matrix: Soil
Project: #0398; Auto Depot 4171 Broadway Oakland

WorkOrder: 1506217
BatchID: 105884
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg
Sample ID: MB/LCS-105884
 1506217-036AMS/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 | 0.664 | 0.40 | 0.60 | - | 111 | 70-130 |
| MTBE | ND | 0.107 | 0.050 | 0.10 | - | 105 | 70-130 |
| Benzene | ND | 0.113 | 0.0050 | 0.10 | - | 113 | 70-130 |
| Toluene | ND | 0.116 | 0.0050 | 0.10 | - | 116 | 70-130 |
| Ethylbenzene | ND | 0.116 | 0.0050 | 0.10 | - | 116 | 70-130 |
| Xylenes | ND | 0.350 | 0.0050 | 0.30 | - | 117 | 70-130 |

Surrogate Recovery

| | | | | | | | |
|-----------------|-------|-------|--|------|-----|-----|--------|
| 2-Fluorotoluene | 0.103 | 0.104 | | 0.10 | 103 | 104 | 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 | | 12 | NR | NR | - | NR | |
| MTBE | NR | NR | | ND<0.25 | NR | NR | - | NR | |
| Benzene | NR | NR | | ND<0.025 | NR | NR | - | NR | |
| Toluene | NR | NR | | 0.14 | NR | NR | - | NR | |
| Ethylbenzene | NR | NR | | 0.094 | NR | NR | - | NR | |
| Xylenes | NR | NR | | ND<0.025 | NR | NR | - | NR | |

Surrogate Recovery

| | | | | | | | | | |
|-----------------|----|----|--|--|----|----|---|----|--|
| 2-Fluorotoluene | NR | NR | | | NR | NR | - | NR | |
|-----------------|----|----|--|--|----|----|---|----|--|

(Cont.)



Quality Control Report

Client: P & D Environmental
Date Prepared: 6/8/15
Date Analyzed: 6/8/15
Instrument: GC16
Matrix: Soil
Project: #0398; Auto Depot 4171 Broadway Oakland

WorkOrder: 1506217
BatchID: 105980
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-105980
 1506349-004AMS/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 | 0.0529 | 0.0050 | 0.050 | - | 106 | 53-116 |
| Benzene | ND | 0.0476 | 0.0050 | 0.050 | - | 95 | 63-137 |
| 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 | 0.267 | 0.050 | 0.20 | - | 134 | 41-135 |
| 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 | 0.0455 | 0.0050 | 0.050 | - | 91 | 77-121 |
| 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 | 0.0513 | 0.0040 | 0.050 | - | 103 | 67-119 |
| 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 | - | 97 | 58-135 |
| 1,1-Dichloroethene | ND | 0.0422 | 0.0050 | 0.050 | - | 84 | 42-145 |
| 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.)



Quality Control Report

Client: P & D Environmental
Date Prepared: 6/8/15
Date Analyzed: 6/8/15
Instrument: GC16
Matrix: Soil
Project: #0398; Auto Depot 4171 Broadway Oakland

WorkOrder: 1506217
BatchID: 105980
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-105980
 1506349-004AMS/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 | - | 96 | 52-129 |
| Ethylbenzene | ND | - | 0.0050 | - | - | - | - |
| Ethyl tert-butyl ether (ETBE) | ND | 0.0513 | 0.0050 | 0.050 | - | 103 | 53-125 |
| 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 | 0.0524 | 0.0050 | 0.050 | - | 105 | 58-122 |
| 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 | 0.0444 | 0.0050 | 0.050 | - | 89 | 76-130 |
| 1,2,3-Trichlorobenzene | ND | - | 0.0050 | - | - | - | - |
| 1,2,4-Trichlorobenzene | ND | - | 0.0050 | - | - | - | - |
| 1,1,1-Trichloroethane | ND | - | 0.0050 | - | - | - | - |
| 1,1,2-Trichloroethane | ND | - | 0.0050 | - | - | - | - |
| Trichloroethene | ND | 0.0457 | 0.0050 | 0.050 | - | 91 | 72-132 |
| 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 | 0.131 | 0.132 | | 0.12 | 105 | 106 | 70-130 |
| Toluene-d8 | 0.118 | 0.118 | | 0.12 | 94 | 95 | 70-130 |
| 4-BFB | 0.0105 | 0.0112 | | 0.012 | 84 | 90 | 70-130 |
| Benzene-d6 | 0.0810 | 0.0792 | | 0.10 | 81 | 79 | 60-140 |
| Ethylbenzene-d10 | 0.0842 | 0.0870 | | 0.10 | 84 | 87 | 60-140 |
| 1,2-DCB-d4 | 0.0847 | 0.0890 | | 0.10 | 85 | 89 | 60-140 |

(Cont.)



Quality Control Report

Client: P & D Environmental
Date Prepared: 6/8/15
Date Analyzed: 6/8/15
Instrument: GC16
Matrix: Soil
Project: #0398; Auto Depot 4171 Broadway Oakland

WorkOrder: 1506217
BatchID: 105980
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS-105980
 1506349-004AMS/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) | 0.0496 | 0.0512 | 0.050 | ND | 99 | 102 | 70-130 | 3.14 | 20 |
| Benzene | 0.0485 | 0.0500 | 0.050 | ND | 97 | 100 | 70-130 | 2.95 | 20 |
| t-Butyl alcohol (TBA) | 0.213 | 0.220 | 0.20 | ND | 106 | 110 | 70-130 | 3.11 | 20 |
| Chlorobenzene | 0.0438 | 0.0452 | 0.050 | ND | 88 | 90 | 70-130 | 3.24 | 20 |
| 1,2-Dibromoethane (EDB) | 0.0479 | 0.0504 | 0.050 | ND | 96 | 101 | 70-130 | 5.03 | 20 |
| 1,2-Dichloroethane (1,2-DCA) | 0.0472 | 0.0487 | 0.050 | ND | 94 | 97 | 70-130 | 3.10 | 20 |
| 1,1-Dichloroethene | 0.0426 | 0.0437 | 0.050 | ND | 85 | 87 | 70-130 | 2.72 | 20 |
| Diisopropyl ether (DIPE) | 0.0462 | 0.0476 | 0.050 | ND | 92 | 95 | 70-130 | 3.14 | 20 |
| Ethyl tert-butyl ether (ETBE) | 0.0494 | 0.0508 | 0.050 | ND | 99 | 102 | 70-130 | 2.66 | 20 |
| Methyl-t-butyl ether (MTBE) | 0.0491 | 0.0512 | 0.050 | ND | 98 | 102 | 70-130 | 4.15 | 20 |
| Toluene | 0.0437 | 0.0450 | 0.050 | ND | 87 | 90 | 70-130 | 2.75 | 20 |
| Trichloroethene | 0.0467 | 0.0477 | 0.050 | ND | 93 | 95 | 70-130 | 1.95 | 20 |
| Surrogate Recovery | | | | | | | | | |
| Dibromofluoromethane | 0.130 | 0.130 | 0.12 | | 104 | 104 | 70-130 | 0 | 20 |
| Toluene-d8 | 0.115 | 0.115 | 0.12 | | 92 | 92 | 70-130 | 0 | 20 |
| 4-BFB | 0.0120 | 0.0119 | 0.012 | | 96 | 96 | 70-130 | 0 | 20 |
| Benzene-d6 | 0.0772 | 0.0786 | 0.10 | | 77 | 79 | 60-140 | 1.81 | 20 |
| Ethylbenzene-d10 | 0.0837 | 0.0856 | 0.10 | | 84 | 86 | 60-140 | 2.17 | 20 |
| 1,2-DCB-d4 | 0.0879 | 0.0901 | 0.10 | | 88 | 90 | 60-140 | 2.43 | 20 |



Quality Control Report

Client: P & D Environmental
Date Prepared: 6/4/15
Date Analyzed: 6/5/15
Instrument: GC17, GC21
Matrix: Soil
Project: #0398; Auto Depot 4171 Broadway Oakland

WorkOrder: 1506217
BatchID: 105894
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-105894
 1506216-001AMS/MSD

QC Summary Report for SW8270C

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Acenaphthene | ND | 4.59 | 0.25 | 5 | - | 92 | 30-130 |
| Acenaphthylene | ND | - | 0.25 | - | - | - | - |
| Acetochlor | ND | - | 0.25 | - | - | - | - |
| Anthracene | ND | - | 0.25 | - | - | - | - |
| Benzidine | ND | - | 1.3 | - | - | - | - |
| Benzo (a) anthracene | ND | - | 0.25 | - | - | - | - |
| Benzo (b) fluoranthene | ND | - | 0.25 | - | - | - | - |
| Benzo (k) fluoranthene | ND | - | 0.25 | - | - | - | - |
| Benzo (g,h,i) perylene | ND | - | 0.25 | - | - | - | - |
| Benzo (a) pyrene | ND | - | 0.25 | - | - | - | - |
| Benzyl Alcohol | ND | - | 1.3 | - | - | - | - |
| 1,1-Biphenyl | ND | - | 0.25 | - | - | - | - |
| Bis (2-chloroethoxy) Methane | ND | - | 0.25 | - | - | - | - |
| Bis (2-chloroethyl) Ether | ND | - | 0.25 | - | - | - | - |
| Bis (2-chloroisopropyl) Ether | ND | - | 0.25 | - | - | - | - |
| Bis (2-ethylhexyl) Adipate | ND | - | 0.25 | - | - | - | - |
| Bis (2-ethylhexyl) Phthalate | ND | - | 0.25 | - | - | - | - |
| 4-Bromophenyl Phenyl Ether | ND | - | 0.25 | - | - | - | - |
| Butylbenzyl Phthalate | ND | - | 0.25 | - | - | - | - |
| 4-Chloroaniline | ND | - | 0.50 | - | - | - | - |
| 4-Chloro-3-methylphenol | ND | 4.67 | 0.25 | 5 | - | 93 | 30-130 |
| 2-Chloronaphthalene | ND | - | 0.25 | - | - | - | - |
| 2-Chlorophenol | ND | 4.61 | 0.25 | 5 | - | 92 | 30-130 |
| 4-Chlorophenyl Phenyl Ether | ND | - | 0.25 | - | - | - | - |
| Chrysene | ND | - | 0.25 | - | - | - | - |
| Dibenzo (a,h) anthracene | ND | - | 0.25 | - | - | - | - |
| Dibenzofuran | ND | - | 0.25 | - | - | - | - |
| Di-n-butyl Phthalate | ND | - | 0.25 | - | - | - | - |
| 1,2-Dichlorobenzene | ND | - | 0.25 | - | - | - | - |
| 1,3-Dichlorobenzene | ND | - | 0.25 | - | - | - | - |
| 1,4-Dichlorobenzene | ND | 4.25 | 0.25 | 5 | - | 85 | 30-130 |
| 3,3-Dichlorobenzidine | ND | - | 0.50 | - | - | - | - |
| 2,4-Dichlorophenol | ND | - | 0.25 | - | - | - | - |
| Diethyl Phthalate | ND | - | 0.25 | - | - | - | - |
| 2,4-Dimethylphenol | ND | - | 0.25 | - | - | - | - |
| Dimethyl Phthalate | ND | - | 0.25 | - | - | - | - |
| 4,6-Dinitro-2-methylphenol | ND | - | 1.3 | - | - | - | - |
| 2,4-Dinitrophenol | ND | - | 6.3 | - | - | - | - |
| 2,4-Dinitrotoluene | ND | 4.63 | 0.25 | 5 | - | 93 | 30-130 |
| 2,6-Dinitrotoluene | ND | - | 0.25 | - | - | - | - |

(Cont.)



Quality Control Report

Client: P & D Environmental
Date Prepared: 6/4/15
Date Analyzed: 6/5/15
Instrument: GC17, GC21
Matrix: Soil
Project: #0398; Auto Depot 4171 Broadway Oakland

WorkOrder: 1506217
BatchID: 105894
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-105894
 1506216-001AMS/MSD

QC Summary Report for SW8270C

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|---------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Di-n-octyl Phthalate | ND | - | 0.50 | - | - | - | - |
| 1,2-Diphenylhydrazine | ND | - | 0.25 | - | - | - | - |
| Fluoranthene | ND | - | 0.25 | - | - | - | - |
| Fluorene | ND | - | 0.25 | - | - | - | - |
| Hexachlorobenzene | ND | - | 0.25 | - | - | - | - |
| Hexachlorobutadiene | ND | - | 0.25 | - | - | - | - |
| Hexachlorocyclopentadiene | ND | - | 1.3 | - | - | - | - |
| Hexachloroethane | ND | - | 0.25 | - | - | - | - |
| Indeno (1,2,3-cd) pyrene | ND | - | 0.25 | - | - | - | - |
| Isophorone | ND | - | 0.25 | - | - | - | - |
| 2-Methylnaphthalene | ND | - | 0.25 | - | - | - | - |
| 2-Methylphenol (o-Cresol) | ND | - | 0.25 | - | - | - | - |
| 3 & 4-Methylphenol (m,p-Cresol) | ND | - | 0.25 | - | - | - | - |
| Naphthalene | ND | - | 0.25 | - | - | - | - |
| 2-Nitroaniline | ND | - | 1.3 | - | - | - | - |
| 3-Nitroaniline | ND | - | 1.3 | - | - | - | - |
| 4-Nitroaniline | ND | - | 1.3 | - | - | - | - |
| Nitrobenzene | ND | - | 0.25 | - | - | - | - |
| 2-Nitrophenol | ND | - | 1.3 | - | - | - | - |
| 4-Nitrophenol | ND | 3.60 | 1.3 | 5 | - | 72 | 30-130 |
| N-Nitrosodiphenylamine | ND | - | 0.25 | - | - | - | - |
| N-Nitrosodi-n-propylamine | ND | 4.12 | 0.25 | 5 | - | 82 | 30-130 |
| Pentachlorophenol | ND | 4.08 | 1.3 | 5 | - | 82 | 30-130 |
| Phenanthrene | ND | - | 0.25 | - | - | - | - |
| Phenol | ND | 4.20 | 0.25 | 5 | - | 84 | 30-130 |
| Pyrene | ND | 4.99 | 0.25 | 5 | - | 100 | 30-130 |
| 1,2,4-Trichlorobenzene | ND | 4.67 | 0.25 | 5 | - | 93 | 30-130 |
| 2,4,5-Trichlorophenol | ND | - | 0.25 | - | - | - | - |
| 2,4,6-Trichlorophenol | ND | - | 0.25 | - | - | - | - |

Surrogate Recovery

| | | | | | | | |
|----------------------|------|------|--|---|-----|----|--------|
| 2-Fluorophenol | 5.72 | 4.65 | | 5 | 114 | 93 | 30-130 |
| Phenol-d5 | 5.96 | 4.88 | | 5 | 119 | 98 | 30-130 |
| Nitrobenzene-d5 | 5.40 | 4.55 | | 5 | 108 | 91 | 30-130 |
| 2-Fluorobiphenyl | 4.72 | 4.49 | | 5 | 94 | 90 | 30-130 |
| 2,4,6-Tribromophenol | 2.16 | 2.94 | | 5 | 43 | 59 | 16-130 |
| 4-Terphenyl-d14 | 5.00 | 4.97 | | 5 | 100 | 99 | 30-130 |

(Cont.)



Quality Control Report

Client: P & D Environmental
Date Prepared: 6/4/15
Date Analyzed: 6/5/15
Instrument: GC17, GC21
Matrix: Soil
Project: #0398; Auto Depot 4171 Broadway Oakland

WorkOrder: 1506217
BatchID: 105894
Extraction Method: SW3550B
Analytical Method: SW8270C
Unit: mg/Kg
Sample ID: MB/LCS-105894
 1506216-001AMS/MSD

QC Summary Report for SW8270C

| Analyte | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD Limit |
|---------------------------|-----------|------------|---------|------------|---------|----------|---------------|-------|-----------|
| Acenaphthene | 5.31 | 5.18 | 5 | ND | 106 | 104 | 30-130 | 2.42 | 30 |
| 4-Chloro-3-methylphenol | 5.96 | 5.73 | 5 | ND | 119 | 115 | 30-130 | 3.88 | 30 |
| 2-Chlorophenol | 5.91 | 5.62 | 5 | ND | 118 | 112 | 30-130 | 5.05 | 30 |
| 1,4-Dichlorobenzene | 4.72 | 4.55 | 5 | ND | 94 | 91 | 30-130 | 3.75 | 30 |
| 2,4-Dinitrotoluene | 5.79 | 5.74 | 5 | ND | 116 | 115 | 30-130 | 0.935 | 30 |
| 4-Nitrophenol | 5.40 | 4.70 | 5 | ND | 108 | 94 | 30-130 | 14.1 | 30 |
| N-Nitrosodi-n-propylamine | 5.09 | 4.74 | 5 | ND | 102 | 95 | 30-130 | 7.01 | 30 |
| Pentachlorophenol | 6.30 | 5.65 | 5 | ND | 126 | 113 | 30-130 | 10.9 | 30 |
| Phenol | 5.33 | 4.97 | 5 | ND | 107 | 99 | 30-130 | 7.00 | 30 |
| Pyrene | 5.73 | 5.71 | 5 | ND | 115 | 114 | 30-130 | 0.384 | 30 |
| 1,2,4-Trichlorobenzene | 5.39 | 5.26 | 5 | ND | 108 | 105 | 30-130 | 2.46 | 30 |
| Surrogate Recovery | | | | | | | | | |
| 2-Fluorophenol | 5.13 | 4.91 | 5 | | 103 | 98 | 30-130 | 4.52 | 30 |
| Phenol-d5 | 5.14 | 4.92 | 5 | | 103 | 98 | 30-130 | 4.24 | 30 |
| Nitrobenzene-d5 | 5.23 | 5.30 | 5 | | 105 | 106 | 30-130 | 1.38 | 30 |
| 2-Fluorobiphenyl | 4.63 | 4.53 | 5 | | 93 | 91 | 30-130 | 2.30 | 30 |
| 2,4,6-Tribromophenol | 3.46 | 3.38 | 5 | | 69 | 68 | 16-130 | 2.35 | 30 |
| 4-Terphenyl-d14 | 4.90 | 4.94 | 5 | | 98 | 99 | 30-130 | 0.765 | 30 |



Quality Control Report

Client: P & D Environmental
Date Prepared: 6/3/15
Date Analyzed: 6/4/15
Instrument: GC6A, GC6B
Matrix: Soil
Project: #0398; Auto Depot 4171 Broadway Oakland

WorkOrder: 1506217
BatchID: 105836
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg
Sample ID: MB/LCS-105836
 1506184-004AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------|-----------|------------|-----|---------|------------|----------|------------|
| TPH-Diesel (C10-C23) | ND | 46.8 | 1.0 | 40 | - | 117 | 70-130 |
| TPH-Motor Oil (C18-C36) | ND | - | 5.0 | - | - | - | - |

Surrogate Recovery

| | | | | | | | |
|----|------|------|--|----|-----|-----|--------|
| C9 | 26.1 | 26.1 | | 25 | 104 | 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) | 38.7 | 39.4 | 40 | ND<1.2 | 97 | 99 | 70-130 | 1.83 | 30 |

Surrogate Recovery

| | | | | | | | | | |
|----|------|------|----|--|-----|-----|--------|-------|----|
| C9 | 27.1 | 27.3 | 25 | | 108 | 109 | 70-130 | 0.695 | 30 |
|----|------|------|----|--|-----|-----|--------|-------|----|

(Cont.)



Quality Control Report

Client: P & D Environmental
Date Prepared: 6/4/15
Date Analyzed: 6/5/15 - 6/7/15
Instrument: GC6A
Matrix: Soil
Project: #0398; Auto Depot 4171 Broadway Oakland

WorkOrder: 1506217
BatchID: 105881
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg
Sample ID: MB/LCS-105881
 1506217-030AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------|-----------|------------|-----|---------|------------|----------|------------|
| TPH-Diesel (C10-C23) | ND | 44.1 | 1.0 | 40 | - | 110 | 70-130 |
| TPH-Motor Oil (C18-C36) | ND | - | 5.0 | - | - | - | - |

Surrogate Recovery

| | | | | | | | |
|----|------|------|--|----|-----|----|--------|
| C9 | 27.3 | 23.6 | | 25 | 109 | 94 | 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) | 35.1 | 35.8 | 40 | ND | 88 | 89 | 70-130 | 1.85 | 30 |

Surrogate Recovery

| | | | | | | | | | |
|----|------|------|----|--|----|----|--------|---|----|
| C9 | 23.6 | 23.6 | 25 | | 94 | 94 | 70-130 | 0 | 30 |
|----|------|------|----|--|----|----|--------|---|----|

(Cont.)



Quality Control Report

Client: P & D Environmental
Date Prepared: 6/4/15
Date Analyzed: 6/5/15 - 6/7/15
Instrument: GC6A
Matrix: Soil
Project: #0398; Auto Depot 4171 Broadway Oakland

WorkOrder: 1506217
BatchID: 105882
Extraction Method: SW3550B
Analytical Method: SW8015B
Unit: mg/Kg
Sample ID: MB/LCS-105882
 1506217-037AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------|-----------|------------|-----|---------|------------|----------|------------|
| TPH-Diesel (C10-C23) | ND | 44.9 | 1.0 | 40 | - | 112 | 70-130 |
| TPH-Motor Oil (C18-C36) | ND | - | 5.0 | - | - | - | - |

Surrogate Recovery

| | | | | | | | |
|----|------|------|--|----|----|----|--------|
| C9 | 24.6 | 23.2 | | 25 | 99 | 93 | 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) | 34.0 | 34.3 | 40 | ND | 83 | 84 | 70-130 | 0.951 | 30 |

Surrogate Recovery

| | | | | | | | | | |
|----|------|------|----|--|----|----|--------|---|----|
| C9 | 23.2 | 23.2 | 25 | | 93 | 93 | 70-130 | 0 | 30 |
|----|------|------|----|--|----|----|--------|---|----|



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1506217

ClientCode: PDEO

WaterTrax WriteOn EDF Excel EQUIS Email HardCopy ThirdParty J-flag

Report to:

Michael Deschenes
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
Oakland

Bill to:

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

Requested TAT:

5 days

Date Received: **06/04/2015**

Date Printed: **06/04/2015**

| 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 | |
| 1506217-001 | B4A-3.0 | Soil | 6/2/2015 8:30 | <input type="checkbox"/> | A | A | A | A | | | | | | | | | |
| 1506217-002 | B4A-4.0 | Soil | 6/2/2015 8:35 | <input type="checkbox"/> | A | A | A | A | | | | | | | | | |
| 1506217-003 | B4A-9.0 | Soil | 6/2/2015 8:40 | <input type="checkbox"/> | A | A | A | A | | | | | | | | | |
| 1506217-004 | B4A-11.0 | Soil | 6/2/2015 8:45 | <input type="checkbox"/> | A | A | A | A | | | | | | | | | |
| 1506217-005 | B8-4.0 | Soil | 6/2/2015 7:40 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-006 | B8-9.5 | Soil | 6/2/2015 7:48 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-007 | B8-11.5 | Soil | 6/2/2015 8:00 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-008 | B8-18.5 | Soil | 6/2/2015 7:50 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-009 | B9-4.0 | Soil | 6/2/2015 9:35 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-010 | B9-8.0 | Soil | 6/2/2015 9:40 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-011 | B9-12.0 | Soil | 6/2/2015 9:45 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-012 | B9-19.0 | Soil | 6/2/2015 9:55 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-013 | B10-3.0 | Soil | 6/2/2015 10:35 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-014 | B10-7.5 | Soil | 6/2/2015 10:40 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-015 | B10-10.5 | Soil | 6/2/2015 10:45 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |

Test Legend:

| | | | | | | | | | |
|----|---------|----|--------|---|----------|---|------------|----|--|
| 1 | 8260B_S | 2 | 8270_S | 3 | G-MBTX_S | 4 | TPH(DMO)_S | 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, 017A, 018A, 019A, 020A, 021A, 022A, 023A, 024A, 025A, 026A, 027A, 028A, 029A, 030A, 031A, 032A, 033A, 034A, 035A, 036A, 037A, 038A

Prepared by: Maria Venegas

Comments:

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



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1506217

ClientCode: PDEO

WaterTrax WriteOn EDF Excel EQUIS Email HardCopy ThirdParty J-flag

Report to:

Michael Deschenes
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
Oakland

Bill to:

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

Requested TAT:

5 days

Date Received: **06/04/2015**

Date Printed: **06/04/2015**

| 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 | |
| 1506217-016 | B10A-4.0 | Soil | 6/2/2015 13:35 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-017 | B10A-8.0 | Soil | 6/2/2015 13:40 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-018 | B10A-13.0 | Soil | 6/2/2015 13:50 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-019 | B10A-18.0 | Soil | 6/2/2015 14:00 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-020 | B11-4.0 | Soil | 6/2/2015 11:05 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-021 | B11-8.5 | Soil | 6/2/2015 11:10 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-022 | B11-10.0 | Soil | 6/2/2015 11:15 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-023 | B11-18.0 | Soil | 6/2/2015 11:25 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-024 | B12-4.0 | Soil | 6/3/2015 8:35 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-025 | B12-7.0 | Soil | 6/3/2015 8:40 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-026 | B12-11.0 | Soil | 6/3/2015 8:45 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-027 | B12-19.0 | Soil | 6/3/2015 10:40 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-028 | B13-4.0 | Soil | 6/2/2015 12:35 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-029 | B13-8.5 | Soil | 6/2/2015 12:40 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-030 | B13-10.0 | Soil | 6/2/2015 12:45 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |

Test Legend:

| | | | | | | | | | |
|----|---------|----|--------|---|-----------|---|------------|----|--|
| 1 | 8260B_S | 2 | 8270_S | 3 | G-MBTEX_S | 4 | TPH(DMO)_S | 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, 017A, 018A, 019A, 020A, 021A, 022A, 023A, 024A, 025A, 026A, 027A, 028A, 029A, 030A, 031A, 032A, 033A, 034A, 035A, 036A, 037A, 038A

Prepared by: Maria Venegas

Comments:

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



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1506217

ClientCode: PDEO

WaterTrax WriteOn EDF Excel EQUIS Email HardCopy ThirdParty J-flag

Report to:

Michael Deschenes
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
Oakland

Bill to:

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

Requested TAT:

5 days

Date Received: **06/04/2015**

Date Printed: **06/04/2015**

| 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 | |
| 1506217-031 | B13-19.0 | Soil | 6/2/2015 12:55 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-032 | B14-4.0 | Soil | 6/3/2015 7:40 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-033 | B14-9.0 | Soil | 6/3/2015 7:45 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-034 | B14-14.0 | Soil | 6/3/2015 7:50 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-035 | B15-4.0 | Soil | 6/3/2015 12:10 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-036 | B15-8.0 | Soil | 6/3/2015 12:15 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-037 | B15-11.0 | Soil | 6/3/2015 12:20 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |
| 1506217-038 | B15-20.0 | Soil | 6/3/2015 12:40 | <input type="checkbox"/> | A | | A | A | | | | | | | | | |

Test Legend:

| | | | | | | | | | |
|----|---------|----|--------|---|-----------|---|------------|----|--|
| 1 | 8260B_S | 2 | 8270_S | 3 | G-MBTEX_S | 4 | TPH(DMO)_S | 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, 017A, 018A, 019A, 020A, 021A, 022A, 023A, 024A, 025A, 026A, 027A, 028A, 029A, 030A, 031A, 032A, 033A, 034A, 035A, 036A, 037A, 038A

Prepared by: Maria Venegas

Comments:

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



WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL

QC Level: LEVEL 2

Work Order: 1506217

Project: #0398; Auto Depot 4171 Broadway Oakland

Client Contact: Michael Deschenes

Date Received: 6/4/2015

Comments:

Contact's Email: lab@pdenviro.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

| Lab ID | Client ID | Matrix | Test Name | Containers /Composites | Bottle & Preservative | De-chlorinated | Collection Date & Time | TAT | Sediment Content | Hold | SubOut |
|--------------|-----------|--------|-------------------------|------------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1506217-001A | B4A-3.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/2/2015 8:30 | 5 days | | <input type="checkbox"/> | |
| | | | SW8270C (SVOCs) | | | <input type="checkbox"/> | | 5 days | | | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | | |
| 1506217-002A | B4A-4.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/2/2015 8:35 | 5 days | | <input type="checkbox"/> | |
| | | | SW8270C (SVOCs) | | | <input type="checkbox"/> | | 5 days | | | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | | |
| 1506217-003A | B4A-9.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/2/2015 8:40 | 5 days | | <input type="checkbox"/> | |
| | | | SW8270C (SVOCs) | | | <input type="checkbox"/> | | 5 days | | | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | | |
| 1506217-004A | B4A-11.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/2/2015 8:45 | 5 days | | <input type="checkbox"/> | |
| | | | SW8270C (SVOCs) | | | <input type="checkbox"/> | | 5 days | | | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | | |
| 1506217-005A | B8-4.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/2/2015 7:40 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | | |
| 1506217-006A | B8-9.5 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/2/2015 7:48 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | | |

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL

QC Level: LEVEL 2

Work Order: 1506217

Project: #0398; Auto Depot 4171 Broadway Oakland

Client Contact: Michael Deschenes

Date Received: 6/4/2015

Comments:

Contact's Email: lab@pdenviro.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

| Lab ID | Client ID | Matrix | Test Name | Containers /Composites | Bottle & Preservative | De- chlorinated | Collection Date & Time | TAT | Sediment Content | Hold | SubOut |
|--------------|-----------|--------|-------------------------|---------------------------|-----------------------|--------------------------|---------------------------|--------|---------------------|--------------------------|--------|
| 1506217-007A | B8-11.5 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/2/2015 8:00 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |
| 1506217-008A | B8-18.5 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/2/2015 7:50 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |
| 1506217-009A | B9-4.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/2/2015 9:35 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |
| 1506217-010A | B9-8.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/2/2015 9:40 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |
| 1506217-011A | B9-12.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/2/2015 9:45 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |
| 1506217-012A | B9-19.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/2/2015 9:55 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |
| 1506217-013A | B10-3.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/2/2015 10:35 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |
| 1506217-014A | B10-7.5 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/2/2015 10:40 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL

QC Level: LEVEL 2

Work Order: 1506217

Project: #0398; Auto Depot 4171 Broadway Oakland

Client Contact: Michael Deschenes

Date Received: 6/4/2015

Comments:

Contact's Email: lab@pdenviro.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

| Lab ID | Client ID | Matrix | Test Name | Containers /Composites | Bottle & Preservative | De- chlorinated | Collection Date & Time | TAT | Sediment Content | Hold | SubOut |
|--------------|-----------|--------|-------------------------|---------------------------|-----------------------|--------------------------|---------------------------|--------|---------------------|--------------------------|--------|
| 1506217-015A | B10-10.5 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/2/2015 10:45 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |
| 1506217-016A | B10A-4.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/2/2015 13:35 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |
| 1506217-017A | B10A-8.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/2/2015 13:40 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |
| 1506217-018A | B10A-13.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/2/2015 13:50 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |
| 1506217-019A | B10A-18.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/2/2015 14:00 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |
| 1506217-020A | B11-4.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/2/2015 11:05 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |
| 1506217-021A | B11-8.5 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/2/2015 11:10 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |
| 1506217-022A | B11-10.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/2/2015 11:15 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL

QC Level: LEVEL 2

Work Order: 1506217

Project: #0398; Auto Depot 4171 Broadway Oakland

Client Contact: Michael Deschenes

Date Received: 6/4/2015

Comments:

Contact's Email: lab@pdenviro.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

| Lab ID | Client ID | Matrix | Test Name | Containers /Composites | Bottle & Preservative | De- chlorinated | Collection Date & Time | TAT | Sediment Content | Hold | SubOut |
|--------------|-----------|--------|-------------------------|---------------------------|-----------------------|--------------------------|---------------------------|--------|---------------------|--------------------------|--------|
| 1506217-023A | B11-18.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/2/2015 11:25 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |
| 1506217-024A | B12-4.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/3/2015 8:35 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |
| 1506217-025A | B12-7.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/3/2015 8:40 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |
| 1506217-026A | B12-11.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/3/2015 8:45 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |
| 1506217-027A | B12-19.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/3/2015 10:40 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |
| 1506217-028A | B13-4.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/2/2015 12:35 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |
| 1506217-029A | B13-8.5 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/2/2015 12:40 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |
| 1506217-030A | B13-10.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/2/2015 12:45 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL

QC Level: LEVEL 2

Work Order: 1506217

Project: #0398; Auto Depot 4171 Broadway Oakland

Client Contact: Michael Deschenes

Date Received: 6/4/2015

Comments:

Contact's Email: lab@pdenviro.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

| Lab ID | Client ID | Matrix | Test Name | Containers /Composites | Bottle & Preservative | De- chlorinated | Collection Date & Time | TAT | Sediment Content | Hold | SubOut |
|--------------|-----------|--------|-------------------------|---------------------------|-----------------------|--------------------------|---------------------------|--------|---------------------|--------------------------|--------|
| 1506217-031A | B13-19.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/2/2015 12:55 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |
| 1506217-032A | B14-4.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/3/2015 7:40 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |
| 1506217-033A | B14-9.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/3/2015 7:45 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |
| 1506217-034A | B14-14.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/3/2015 7:50 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |
| 1506217-035A | B15-4.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/3/2015 12:10 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |
| 1506217-036A | B15-8.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/3/2015 12:15 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |
| 1506217-037A | B15-11.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/3/2015 12:20 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |
| 1506217-038A | B15-20.0 | Soil | Multi-Range TPH(g,d,mo) | 1 | Acetate Liner | <input type="checkbox"/> | 6/3/2015 12:40 | 5 days | | <input type="checkbox"/> | |
| | | | SW8260B (VOCs) | | | <input type="checkbox"/> | | 5 days | | <input type="checkbox"/> | |

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1506217

CHAIN OF CUSTODY RECORD

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 *Michael Bass-Deschenes*

NUMBER OF CONTAINERS

ANALYSIS(ES):

TPH (G.D.H.O.)
EPA 8140 (FUEL OXIDIZERS AND
LEAD SCAVENGERS)
EPA 8270

PRESERVATIVE

REMARKS

| SAMPLE NUMBER | DATE | TIME | TYPE | SAMPLE LOCATION | NUMBER OF CONTAINERS | ANALYSIS(ES) | PRESERVATIVE | REMARKS |
|---------------|--------|------|------|-----------------|----------------------|--------------|--------------|------------|
| B4A-3.0 | 6-2-15 | 0830 | SOIL | | 1 | X X X | ICE | NORMAL TAT |
| B4A-4.0 | ↓ | 0835 | ↓ | | 1 | X X X | ↓ | ↓ ↓ |
| B4A-9.0 | ↓ | 0840 | ↓ | | 1 | X X X | ↓ | ↓ ↓ |
| B4A-11.0 | ↓ | 0845 | ↓ | | 1 | X X X | ↓ | ↓ ↓ |
| B8-4.0 | 6-2-15 | 0740 | SOIL | | 1 | X X | ICE | NORMAL TAT |
| B8-9.5 | ↓ | 0748 | ↓ | | 1 | X X | ↓ | ↓ ↓ |
| B8-11.5 | ↓ | 0800 | ↓ | | 1 | X X | ↓ | ↓ ↓ |
| B8-18.5 | ↓ | 0750 | ↓ | | 1 | X X | ↓ | ↓ ↓ |
| B9-4.0 | 6-2-15 | 0935 | SOIL | | 1 | X X | ICE | NORMAL TAT |
| B9-8.0 | ↓ | 0940 | ↓ | | 1 | X X | ↓ | ↓ ↓ |
| B9-12.0 | ↓ | 0945 | ↓ | | 1 | X X | ↓ | ↓ ↓ |
| B9-19.0 | ↓ | 0955 | ↓ | | 1 | X X | ↓ | ↓ ↓ |

RELINQUISHED BY: (SIGNATURE)

Michael Bass-Deschenes

DATE TIME

6-4-15 1400

RECEIVED BY: (SIGNATURE)

[Signature]

Total No. of Samples (This Shipment)

38

Total No. of Containers (This Shipment)

38

LABORATORY:

McCAMPBELL ANALYTICAL INC.

RELINQUISHED BY: (SIGNATURE)

[Signature]

DATE TIME

6-4-15 1500

RECEIVED BY: (SIGNATURE)

[Signature]

LABORATORY CONTACT:

ANGELA RYDELIUS (877) 252-9269

LABORATORY PHONE NUMBER:

RELINQUISHED BY: (SIGNATURE)

[Signature]

DATE TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)

[Signature]

SAMPLE ANALYSIS REQUEST SHEET

ATTACHED: () YES (X) NO

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

ICE/# 3.9

GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB


APPROPRIATE CONTAINERS PRESERVED IN LAB

REMARKS:

ICE/#
GOOD CONDITION
APPROPRIATE CONTAINERS PRESERVED IN LAB
DECHLORINATED IN LAB
VOAS O&G METALS OTHER
PRESERVATION

PRESERVATION VOAS O&G METALS OTHER

CHAIN OF CUSTODY RECORD

|  | | RGA Environmental, Inc. 1466 66th Street Emeryville, CA 94608 (510) 658-4363 | | | NUMBER OF CONTAINERS | ANALYSIS(ES): TPH (E.D.MO) EPA 8260 W/FUEL OXYGENATES AND LEAD SCAVENGERS EPA 8270 ALBA | | | | | | | | | | PRESERVATIVE | REMARKS | | | | |
|---|--------|---|----------------|--|----------------------|---|---|---|--|--|--|--|--|--|--|--------------|---------|-----|--------|-----|--|
| PROJECT NUMBER: 0398 | | PROJECT NAME: AUTO DEPOT 4171 BROADWAY OAKLAND, CA | | | | | | | | | | | | | | | | | | | |
| SAMPLED BY: (PRINTED & SIGNATURE) MICHAEL BASS-DESCHENES <i>Michael Bass-Deschenes</i> | | | | | | | | | | | | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | TYPE | SAMPLE LOCATION | | | | | | | | | | | | | | | | | |
| B10-3.0 | 6-2-15 | 1035 | SOIL | | 1 | X | X | | | | | | | | | | | ICE | NORMAL | TAT | |
| B10-7.5 | ↓ | 1040 | ↓ | | 1 | X | X | | | | | | | | | | | ↓ | ↓ | ↓ | |
| B10-10.5 | ↓ | 1045 | ↓ | | 1 | X | X | | | | | | | | | | | ↓ | ↓ | ↓ | |
| B10A-4.0 | 6-2-15 | 1335 | SOIL | | 1 | X | X | | | | | | | | | | | ICE | NORMAL | TAT | |
| B10A-8.0 | ↓ | 1340 | ↓ | | 1 | X | X | | | | | | | | | | | ↓ | ↓ | ↓ | |
| B10A-13.0 | ↓ | 1350 | ↓ | | 1 | X | X | | | | | | | | | | | ↓ | ↓ | ↓ | |
| B10A-18.0 | ↓ | 1400 | ↓ | | 1 | X | X | | | | | | | | | | | ↓ | ↓ | ↓ | |
| B11-4.0 | 6-2-15 | 1105 | SOIL | | 1 | X | X | | | | | | | | | | | ICE | NORMAL | TAT | |
| B11-8.5 | ↓ | 1110 | ↓ | | 1 | X | X | | | | | | | | | | | ↓ | ↓ | ↓ | |
| B11-10.0 | ↓ | 1115 | ↓ | | 1 | X | X | | | | | | | | | | | ↓ | ↓ | ↓ | |
| B11-18.0 | ↓ | 1125 | ↓ | | 1 | X | X | | | | | | | | | | | ↓ | ↓ | ↓ | |
| RELINQUISHED BY: (SIGNATURE) <i>Michael Bass-Deschenes</i> | | DATE 6-4-15 | TIME 1400 | RECEIVED BY: (SIGNATURE) <i>[Signature]</i> | | Total No. of Samples (This Shipment) 38 | | Total No. of Containers (This Shipment) 38 | | LABORATORY: Mc CAMPBELL ANALYTICAL, INC | | | | | | | | | | | |
| RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i> | | DATE 6-4-15 | TIME 1500 | RECEIVED BY: (SIGNATURE) <i>[Signature]</i> | | LABORATORY CONTACT: ANGELA RYDELLIS | | LABORATORY PHONE NUMBER: (877) 252-9262 | | | | | | | | | | | | | |
| RELINQUISHED BY: (SIGNATURE) [Signature] | | DATE [Date] | TIME [Time] | RECEIVED FOR LABORATORY BY: (SIGNATURE) [Signature] | | SAMPLE ANALYSIS REQUEST SHEET ATTACHED: () YES (X) NO | | | | | | | | | | | | | | | |
| Results and billing to: RGA Environmental, Inc. paul.king@rgaenv.com | | | | REMARKS: | | | | | | | | | | | | | | | | | |

CHAIN OF CUSTODY RECORD

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

NUMBER OF CONTAINERS

ANALYSIS(ES):
TPH (G.P.HO)
EPA 8260 IN FUEL OXYGENATES
AND LEAD SAUVENERS

PRESERVATIVE

REMARKS

SAMPLED BY: (PRINTED & SIGNATURE)

MICHAEL PASS-DESCHENES *Michael Pass-Deschenes*

| SAMPLE NUMBER | DATE | TIME | TYPE | SAMPLE LOCATION | NUMBER OF CONTAINERS | ANALYSIS(ES) | PRESERVATIVE | REMARKS |
|---------------|--------|------|------|-----------------|----------------------|--------------|--------------|------------|
| B12-4.0 | 6-3-15 | 0835 | Soil | | 1 | X X | ICE | NORMAL TAT |
| B12-7.0 | ↓ | 0840 | ↓ | | 1 | X X | ↓ | ↓ ↓ |
| B12-11.0 | ↓ | 0845 | ↓ | | 1 | X X | ↓ | ↓ ↓ |
| B12-19.0 | ↓ | 1040 | ↓ | | 1 | X X | ↓ | ↓ ↓ |
| B13-4.0 | 6-2-15 | 1235 | Soil | | 1 | X X | ICE | NORMAL TAT |
| B13-8.5 | ↓ | 1240 | ↓ | | 1 | X X | ↓ | ↓ ↓ |
| B13-10.0 | ↓ | 1245 | ↓ | | 1 | X X | ↓ | ↓ ↓ |
| B13-19.0 | ↓ | 1255 | ↓ | | 1 | X X | ↓ | ↓ ↓ |
| B14-4.0 | 6-3-15 | 0740 | Soil | | 1 | X X | ICE | NORMAL TAT |
| B14-9.0 | ↓ | 0745 | ↓ | | 1 | X X | ↓ | ↓ ↓ |
| B14-14.0 | ↓ | 0750 | ↓ | | 1 | X X | ↓ | ↓ ↓ |

RELINQUISHED BY: (SIGNATURE) Michael Pass-Deschenes DATE 6-4-15 TIME 1400

RECEIVED BY: (SIGNATURE) [Signature]

Total No. of Samples (This Shipment) 38
 Total No. of Containers (This Shipment) 38

LABORATORY: Mc CAMPBELL ANALYTICAL, INC

RELINQUISHED BY: (SIGNATURE) [Signature] DATE 6-9-15 TIME 1500

RECEIVED BY: (SIGNATURE) [Signature]

LABORATORY CONTACT: ANGELA RYDELIK

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:

CHAIN OF CUSTODY RECORD

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 *Michael Bass-Deschenes*

NUMBER OF CONTAINERS

ANALYSIS(ES):

TPH (G.P.H.O)
EPA 8260 w/ FUEL OXYGENATES AND LEAD SCAVENGERS

PRESERVATIVE

REMARKS

SAMPLE NUMBER

DATE

TIME

TYPE

SAMPLE LOCATION

B15-4.0

6-3-15

1210

SOIL

1

X

X

ICE

NORMAL TAT

B15-8.0

↓

1215

↓

1

X

X

B15-11.0

↓

1220

↓

1

X

X

B15-20.0

↓

1240

↓

1

X

X

RELINQUISHED BY: (SIGNATURE)

Michael Bass-Deschenes

DATE TIME

6-4-15 1400

RECEIVED BY: (SIGNATURE)

[Signature]

Total No. of Samples (This Shipment)

38

LABORATORY:

Total No. of Containers (This Shipment)

38

MC CAFFRELL ANALYTICAL, INC.

RELINQUISHED BY: (SIGNATURE)

[Signature]

DATE TIME

6-4-15 1500

RECEIVED BY: (SIGNATURE)

Manu V

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 () NO

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

REMARKS:



Sample Receipt Checklist

Client Name: **P & D Environmental** Date and Time Received: **6/4/2015 4:29:01 PM**
 Project Name: **#0398; Auto Depot 4171 Broadway Oakland** LogIn Reviewed by: **Maria Venegas**
 WorkOrder No: **1506217** Matrix: Soil Carrier: Bernie Cummins (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
 Sample/Temp Blank temperature 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: <2; 522: <4; 218.7: >8)? Yes No NA
 Samples Received on Ice? Yes No

(Ice Type: WET ICE)

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522? Yes No NA
 Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539? Yes No NA

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

 Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1506230

Report Created for: P & D Environmental

55 Santa Clara, Ste.240
Oakland, CA 94610

Project Contact: Michael Deschenes

Project P.O.:

Project Name: #0398; Auto Depot 4171 Broadway Oakland, CA

Project Received: 06/04/2015

Analytical Report reviewed & approved for release on 06/10/2015 by:

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.





Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland, CA
WorkOrder: 1506230

Glossary Abbreviation

| | |
|--------------|--|
| 95% Interval | 95% Confident Interval |
| DF | Dilution Factor |
| DI WET | (DISTLC) Waste Extraction Test using DI water |
| DISS | Dissolved (direct analysis of 0.45 µm filtered and acidified water sample) |
| 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 |
| N/A | Not Applicable |
| ND | Not detected at or above the indicated MDL or RL |
| NR | Data Not Reported due to matrix interference or insufficient sample amount. |
| 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 |
| SPLP | Synthetic Precipitation Leachate Procedure |
| TCLP | Toxicity Characteristic Leachate Procedure |
| TEQ | Toxicity Equivalents |
| WET (STLC) | Waste Extraction Test (Soluble Threshold Limit Concentration) |



Glossary of Terms & Qualifier Definitions

Client: P & D Environmental
Project: #0398; Auto Depot 4171 Broadway Oakland, CA
WorkOrder: 1506230

Analytical Qualifiers

| | |
|--------|--|
| S | spike recovery outside accepted recovery limits |
| a7 | reporting limit raised due to limited sample amount |
| 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?) |
| d9 | no recognizable pattern |
| e2 | diesel range compounds are significant; no recognizable pattern |
| e4/e8 | gasoline range compounds are significant.; and/or kerosene/kerosene range/jet fuel range |
| e4 | gasoline range compounds are significant. |
| e7 | oil range compounds are significant |
| e8 | kerosene/kerosene range/jet fuel range |
| e11/e4 | stoddard solvent/mineral spirit (?); and/or gasoline range compounds are significant. |



Analytical Report

Client: P & D Environmental **WorkOrder:** 1506230
Project: #0398; Auto Depot 4171 Broadway Oakland, CA **Extraction Method:** SW5030B
Date Received: 6/4/15 17:07 **Analytical Method:** SW8260B
Date Prepared: 6/6/15-6/8/15 **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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B4A-W | 1506230-001B | Water | 06/03/2015 07:30 | GC28 | 105964 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|------|----|------------------|
| Acetone | 50 | 10 | 1 | 06/08/2015 14:57 |
| tert-Amyl methyl ether (TAME) | ND | 0.50 | 1 | 06/08/2015 14:57 |
| Benzene | 1.2 | 0.50 | 1 | 06/08/2015 14:57 |
| Bromobenzene | ND | 0.50 | 1 | 06/08/2015 14:57 |
| Bromochloromethane | ND | 0.50 | 1 | 06/08/2015 14:57 |
| Bromodichloromethane | ND | 0.50 | 1 | 06/08/2015 14:57 |
| Bromoform | ND | 0.50 | 1 | 06/08/2015 14:57 |
| Bromomethane | ND | 0.50 | 1 | 06/08/2015 14:57 |
| 2-Butanone (MEK) | 13 | 2.0 | 1 | 06/08/2015 14:57 |
| t-Butyl alcohol (TBA) | ND | 2.0 | 1 | 06/08/2015 14:57 |
| n-Butyl benzene | ND | 0.50 | 1 | 06/08/2015 14:57 |
| sec-Butyl benzene | ND | 0.50 | 1 | 06/08/2015 14:57 |
| tert-Butyl benzene | ND | 0.50 | 1 | 06/08/2015 14:57 |
| Carbon Disulfide | 8.0 | 0.50 | 1 | 06/08/2015 14:57 |
| Carbon Tetrachloride | ND | 0.50 | 1 | 06/08/2015 14:57 |
| Chlorobenzene | ND | 0.50 | 1 | 06/08/2015 14:57 |
| Chloroethane | ND | 0.50 | 1 | 06/08/2015 14:57 |
| Chloroform | ND | 0.50 | 1 | 06/08/2015 14:57 |
| Chloromethane | ND | 0.50 | 1 | 06/08/2015 14:57 |
| 2-Chlorotoluene | ND | 0.50 | 1 | 06/08/2015 14:57 |
| 4-Chlorotoluene | ND | 0.50 | 1 | 06/08/2015 14:57 |
| Dibromochloromethane | ND | 0.50 | 1 | 06/08/2015 14:57 |
| 1,2-Dibromo-3-chloropropane | ND | 0.20 | 1 | 06/08/2015 14:57 |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | 1 | 06/08/2015 14:57 |
| Dibromomethane | ND | 0.50 | 1 | 06/08/2015 14:57 |
| 1,2-Dichlorobenzene | ND | 0.50 | 1 | 06/08/2015 14:57 |
| 1,3-Dichlorobenzene | ND | 0.50 | 1 | 06/08/2015 14:57 |
| 1,4-Dichlorobenzene | ND | 0.50 | 1 | 06/08/2015 14:57 |
| Dichlorodifluoromethane | ND | 0.50 | 1 | 06/08/2015 14:57 |
| 1,1-Dichloroethane | ND | 0.50 | 1 | 06/08/2015 14:57 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.50 | 1 | 06/08/2015 14:57 |
| 1,1-Dichloroethene | ND | 0.50 | 1 | 06/08/2015 14:57 |
| cis-1,2-Dichloroethene | ND | 0.50 | 1 | 06/08/2015 14:57 |
| trans-1,2-Dichloroethene | ND | 0.50 | 1 | 06/08/2015 14:57 |
| 1,2-Dichloropropane | ND | 0.50 | 1 | 06/08/2015 14:57 |
| 1,3-Dichloropropane | ND | 0.50 | 1 | 06/08/2015 14:57 |
| 2,2-Dichloropropane | ND | 0.50 | 1 | 06/08/2015 14:57 |
| 1,1-Dichloropropene | ND | 0.50 | 1 | 06/08/2015 14:57 |

(Cont.)



Analytical Report

Client: P & D Environmental **WorkOrder:** 1506230
Project: #0398; Auto Depot 4171 Broadway Oakland, CA **Extraction Method:** SW5030B
Date Received: 6/4/15 17:07 **Analytical Method:** SW8260B
Date Prepared: 6/6/15-6/8/15 **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 |
|-------------------------------|---------------|----------------|------------------|----------------------|----------|
| B4A-W | 1506230-001B | Water | 06/03/2015 07:30 | GC28 | 105964 |
| Analytes | Result | RL | DF | Date Analyzed | |
| cis-1,3-Dichloropropene | ND | 0.50 | 1 | 06/08/2015 14:57 | |
| trans-1,3-Dichloropropene | ND | 0.50 | 1 | 06/08/2015 14:57 | |
| Diisopropyl ether (DIPE) | ND | 0.50 | 1 | 06/08/2015 14:57 | |
| Ethylbenzene | 1.3 | 0.50 | 1 | 06/08/2015 14:57 | |
| Ethyl tert-butyl ether (ETBE) | ND | 0.50 | 1 | 06/08/2015 14:57 | |
| Freon 113 | ND | 0.50 | 1 | 06/08/2015 14:57 | |
| Hexachlorobutadiene | ND | 0.50 | 1 | 06/08/2015 14:57 | |
| Hexachloroethane | ND | 0.50 | 1 | 06/08/2015 14:57 | |
| 2-Hexanone | 0.85 | 0.50 | 1 | 06/08/2015 14:57 | |
| Isopropylbenzene | 0.51 | 0.50 | 1 | 06/08/2015 14:57 | |
| 4-Isopropyl toluene | ND | 0.50 | 1 | 06/08/2015 14:57 | |
| Methyl-t-butyl ether (MTBE) | ND | 0.50 | 1 | 06/08/2015 14:57 | |
| Methylene chloride | ND | 0.50 | 1 | 06/08/2015 14:57 | |
| 4-Methyl-2-pentanone (MIBK) | 0.99 | 0.50 | 1 | 06/08/2015 14:57 | |
| Naphthalene | 1.3 | 0.50 | 1 | 06/08/2015 14:57 | |
| n-Propyl benzene | 1.3 | 0.50 | 1 | 06/08/2015 14:57 | |
| Styrene | ND | 0.50 | 1 | 06/08/2015 14:57 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | 1 | 06/08/2015 14:57 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | 1 | 06/08/2015 14:57 | |
| Tetrachloroethene | ND | 0.50 | 1 | 06/08/2015 14:57 | |
| Toluene | ND | 0.50 | 1 | 06/08/2015 14:57 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | 1 | 06/08/2015 14:57 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | 1 | 06/08/2015 14:57 | |
| 1,1,1-Trichloroethane | ND | 0.50 | 1 | 06/08/2015 14:57 | |
| 1,1,2-Trichloroethane | ND | 0.50 | 1 | 06/08/2015 14:57 | |
| Trichloroethene | ND | 0.50 | 1 | 06/08/2015 14:57 | |
| Trichlorofluoromethane | ND | 0.50 | 1 | 06/08/2015 14:57 | |
| 1,2,3-Trichloropropane | ND | 0.50 | 1 | 06/08/2015 14:57 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | 1 | 06/08/2015 14:57 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | 1 | 06/08/2015 14:57 | |
| Vinyl Chloride | ND | 0.50 | 1 | 06/08/2015 14:57 | |
| Xylenes, Total | 1.2 | 0.50 | 1 | 06/08/2015 14:57 | |

(Cont.)



Analytical Report

Client: P & D Environmental **WorkOrder:** 1506230
Project: #0398; Auto Depot 4171 Broadway Oakland, CA **Extraction Method:** SW5030B
Date Received: 6/4/15 17:07 **Analytical Method:** SW8260B
Date Prepared: 6/6/15-6/8/15 **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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B4A-W | 1506230-001B | Water | 06/03/2015 07:30 | GC28 | 105964 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|---------------|----|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | | |
| Dibromofluoromethane | 115 | 70-130 | | 06/08/2015 14:57 |
| Toluene-d8 | 107 | 70-130 | | 06/08/2015 14:57 |
| 4-BFB | 101 | 70-130 | | 06/08/2015 14:57 |

Analyst(s): KF



Analytical Report

Client: P & D Environmental **WorkOrder:** 1506230
Project: #0398; Auto Depot 4171 Broadway Oakland, CA **Extraction Method:** SW5030B
Date Received: 6/4/15 17:07 **Analytical Method:** SW8260B
Date Prepared: 6/6/15-6/8/15 **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 |
|-------------------------------|---------------|----------------|------------------|------------|----------------------|
| B8-W | 1506230-002B | Water | 06/02/2015 08:30 | GC10 | 105964 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| Acetone | ND | | 10 | 1 | 06/06/2015 22:57 |
| tert-Amyl methyl ether (TAME) | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Benzene | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Bromobenzene | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Bromochloromethane | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Bromodichloromethane | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Bromoform | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Bromomethane | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| 2-Butanone (MEK) | ND | | 2.0 | 1 | 06/06/2015 22:57 |
| t-Butyl alcohol (TBA) | ND | | 2.0 | 1 | 06/06/2015 22:57 |
| n-Butyl benzene | 2.9 | | 0.50 | 1 | 06/06/2015 22:57 |
| sec-Butyl benzene | 1.2 | | 0.50 | 1 | 06/06/2015 22:57 |
| tert-Butyl benzene | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Carbon Disulfide | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Carbon Tetrachloride | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Chlorobenzene | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Chloroethane | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Chloroform | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Chloromethane | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| 2-Chlorotoluene | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| 4-Chlorotoluene | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Dibromochloromethane | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| 1,2-Dibromo-3-chloropropane | ND | | 0.20 | 1 | 06/06/2015 22:57 |
| 1,2-Dibromoethane (EDB) | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Dibromomethane | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| 1,2-Dichlorobenzene | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| 1,3-Dichlorobenzene | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| 1,4-Dichlorobenzene | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Dichlorodifluoromethane | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| 1,1-Dichloroethane | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| 1,2-Dichloroethane (1,2-DCA) | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| 1,1-Dichloroethene | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| cis-1,2-Dichloroethene | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| trans-1,2-Dichloroethene | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| 1,2-Dichloropropane | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| 1,3-Dichloropropane | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| 2,2-Dichloropropane | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| 1,1-Dichloropropene | ND | | 0.50 | 1 | 06/06/2015 22:57 |

(Cont.)



Analytical Report

Client: P & D Environmental **WorkOrder:** 1506230
Project: #0398; Auto Depot 4171 Broadway Oakland, CA **Extraction Method:** SW5030B
Date Received: 6/4/15 17:07 **Analytical Method:** SW8260B
Date Prepared: 6/6/15-6/8/15 **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 |
|-------------------------------|---------------|----------------|------------------|------------|----------------------|
| B8-W | 1506230-002B | Water | 06/02/2015 08:30 | GC10 | 105964 |
| Analytes | Result | | RL | DF | Date Analyzed |
| cis-1,3-Dichloropropene | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| trans-1,3-Dichloropropene | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Diisopropyl ether (DIPE) | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Ethylbenzene | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Ethyl tert-butyl ether (ETBE) | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Freon 113 | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Hexachlorobutadiene | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Hexachloroethane | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| 2-Hexanone | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Isopropylbenzene | 1.0 | | 0.50 | 1 | 06/06/2015 22:57 |
| 4-Isopropyl toluene | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Methyl-t-butyl ether (MTBE) | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Methylene chloride | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Naphthalene | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| n-Propyl benzene | 3.1 | | 0.50 | 1 | 06/06/2015 22:57 |
| Styrene | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Tetrachloroethene | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Toluene | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| 1,2,3-Trichlorobenzene | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| 1,2,4-Trichlorobenzene | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| 1,1,1-Trichloroethane | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| 1,1,2-Trichloroethane | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Trichloroethene | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Trichlorofluoromethane | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| 1,2,3-Trichloropropane | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| 1,2,4-Trimethylbenzene | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| 1,3,5-Trimethylbenzene | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Vinyl Chloride | ND | | 0.50 | 1 | 06/06/2015 22:57 |
| Xylenes, Total | ND | | 0.50 | 1 | 06/06/2015 22:57 |

(Cont.)



Analytical Report

| | | | |
|-----------------------|---|---------------------------|---------|
| Client: | P & D Environmental | WorkOrder: | 1506230 |
| Project: | #0398; Auto Depot 4171 Broadway Oakland, CA | Extraction Method: | SW5030B |
| Date Received: | 6/4/15 17:07 | Analytical Method: | SW8260B |
| Date Prepared: | 6/6/15-6/8/15 | 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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B8-W | 1506230-002B | Water | 06/02/2015 08:30 | GC10 | 105964 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|--------|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | |
| Dibromofluoromethane | 85 | 70-130 | | 06/06/2015 22:57 |
| Toluene-d8 | 85 | 70-130 | | 06/06/2015 22:57 |
| 4-BFB | 78 | 70-130 | | 06/06/2015 22:57 |

Analyst(s): AK



Analytical Report

Client: P & D Environmental **WorkOrder:** 1506230
Project: #0398; Auto Depot 4171 Broadway Oakland, CA **Extraction Method:** SW5030B
Date Received: 6/4/15 17:07 **Analytical Method:** SW8260B
Date Prepared: 6/6/15-6/8/15 **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 |
|-------------------------------|---------------|----------------|------------------|------------|----------------------|
| B9-W | 1506230-003B | Water | 06/02/2015 10:15 | GC10 | 105964 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| Acetone | 28 | | 10 | 1 | 06/06/2015 23:38 |
| tert-Amyl methyl ether (TAME) | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| Benzene | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| Bromobenzene | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| Bromochloromethane | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| Bromodichloromethane | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| Bromoform | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| Bromomethane | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| 2-Butanone (MEK) | ND | | 2.0 | 1 | 06/06/2015 23:38 |
| t-Butyl alcohol (TBA) | ND | | 2.0 | 1 | 06/06/2015 23:38 |
| n-Butyl benzene | 6.0 | | 0.50 | 1 | 06/06/2015 23:38 |
| sec-Butyl benzene | 2.8 | | 0.50 | 1 | 06/06/2015 23:38 |
| tert-Butyl benzene | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| Carbon Disulfide | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| Carbon Tetrachloride | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| Chlorobenzene | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| Chloroethane | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| Chloroform | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| Chloromethane | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| 2-Chlorotoluene | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| 4-Chlorotoluene | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| Dibromochloromethane | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| 1,2-Dibromo-3-chloropropane | ND | | 0.20 | 1 | 06/06/2015 23:38 |
| 1,2-Dibromoethane (EDB) | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| Dibromomethane | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| 1,2-Dichlorobenzene | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| 1,3-Dichlorobenzene | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| 1,4-Dichlorobenzene | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| Dichlorodifluoromethane | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| 1,1-Dichloroethane | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| 1,2-Dichloroethane (1,2-DCA) | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| 1,1-Dichloroethene | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| cis-1,2-Dichloroethene | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| trans-1,2-Dichloroethene | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| 1,2-Dichloropropane | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| 1,3-Dichloropropane | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| 2,2-Dichloropropane | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| 1,1-Dichloropropene | ND | | 0.50 | 1 | 06/06/2015 23:38 |

(Cont.)



Analytical Report

Client: P & D Environmental **WorkOrder:** 1506230
Project: #0398; Auto Depot 4171 Broadway Oakland, CA **Extraction Method:** SW5030B
Date Received: 6/4/15 17:07 **Analytical Method:** SW8260B
Date Prepared: 6/6/15-6/8/15 **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 |
|-------------------------------|---------------|----------------|------------------|------------|----------------------|
| B9-W | 1506230-003B | Water | 06/02/2015 10:15 | GC10 | 105964 |
| Analytes | Result | | RL | DF | Date Analyzed |
| cis-1,3-Dichloropropene | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| trans-1,3-Dichloropropene | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| Diisopropyl ether (DIPE) | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| Ethylbenzene | 0.91 | | 0.50 | 1 | 06/06/2015 23:38 |
| Ethyl tert-butyl ether (ETBE) | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| Freon 113 | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| Hexachlorobutadiene | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| Hexachloroethane | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| 2-Hexanone | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| Isopropylbenzene | 4.0 | | 0.50 | 1 | 06/06/2015 23:38 |
| 4-Isopropyl toluene | 0.60 | | 0.50 | 1 | 06/06/2015 23:38 |
| Methyl-t-butyl ether (MTBE) | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| Methylene chloride | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| Naphthalene | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| n-Propyl benzene | 13 | | 0.50 | 1 | 06/06/2015 23:38 |
| Styrene | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| Tetrachloroethene | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| Toluene | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| 1,2,3-Trichlorobenzene | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| 1,2,4-Trichlorobenzene | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| 1,1,1-Trichloroethane | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| 1,1,2-Trichloroethane | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| Trichloroethene | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| Trichlorofluoromethane | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| 1,2,3-Trichloropropane | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| 1,2,4-Trimethylbenzene | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| 1,3,5-Trimethylbenzene | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| Vinyl Chloride | ND | | 0.50 | 1 | 06/06/2015 23:38 |
| Xylenes, Total | 5.7 | | 0.50 | 1 | 06/06/2015 23:38 |

(Cont.)



Analytical Report

| | | | |
|-----------------------|---|---------------------------|---------|
| Client: | P & D Environmental | WorkOrder: | 1506230 |
| Project: | #0398; Auto Depot 4171 Broadway Oakland, CA | Extraction Method: | SW5030B |
| Date Received: | 6/4/15 17:07 | Analytical Method: | SW8260B |
| Date Prepared: | 6/6/15-6/8/15 | 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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B9-W | 1506230-003B | Water | 06/02/2015 10:15 | GC10 | 105964 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|--------|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | |
| Dibromofluoromethane | 85 | 70-130 | | 06/06/2015 23:38 |
| Toluene-d8 | 84 | 70-130 | | 06/06/2015 23:38 |
| 4-BFB | 78 | 70-130 | | 06/06/2015 23:38 |

Analyst(s): AK



Analytical Report

Client: P & D Environmental **WorkOrder:** 1506230
Project: #0398; Auto Depot 4171 Broadway Oakland, CA **Extraction Method:** SW5030B
Date Received: 6/4/15 17:07 **Analytical Method:** SW8260B
Date Prepared: 6/6/15-6/8/15 **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 |
|-------------------------------|---------------|----------------|------------------|------------|----------------------|
| B12-W | 1506230-004B | Water | 06/02/2015 11:30 | GC10 | 105964 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| Acetone | ND | | 500 | 50 | 06/07/2015 00:19 |
| tert-Amyl methyl ether (TAME) | ND | | 25 | 50 | 06/07/2015 00:19 |
| Benzene | 130 | | 25 | 50 | 06/07/2015 00:19 |
| Bromobenzene | ND | | 25 | 50 | 06/07/2015 00:19 |
| Bromochloromethane | ND | | 25 | 50 | 06/07/2015 00:19 |
| Bromodichloromethane | ND | | 25 | 50 | 06/07/2015 00:19 |
| Bromoform | ND | | 25 | 50 | 06/07/2015 00:19 |
| Bromomethane | ND | | 25 | 50 | 06/07/2015 00:19 |
| 2-Butanone (MEK) | ND | | 100 | 50 | 06/07/2015 00:19 |
| t-Butyl alcohol (TBA) | ND | | 100 | 50 | 06/07/2015 00:19 |
| n-Butyl benzene | ND | | 25 | 50 | 06/07/2015 00:19 |
| sec-Butyl benzene | ND | | 25 | 50 | 06/07/2015 00:19 |
| tert-Butyl benzene | ND | | 25 | 50 | 06/07/2015 00:19 |
| Carbon Disulfide | ND | | 25 | 50 | 06/07/2015 00:19 |
| Carbon Tetrachloride | ND | | 25 | 50 | 06/07/2015 00:19 |
| Chlorobenzene | ND | | 25 | 50 | 06/07/2015 00:19 |
| Chloroethane | ND | | 25 | 50 | 06/07/2015 00:19 |
| Chloroform | ND | | 25 | 50 | 06/07/2015 00:19 |
| Chloromethane | ND | | 25 | 50 | 06/07/2015 00:19 |
| 2-Chlorotoluene | ND | | 25 | 50 | 06/07/2015 00:19 |
| 4-Chlorotoluene | ND | | 25 | 50 | 06/07/2015 00:19 |
| Dibromochloromethane | ND | | 25 | 50 | 06/07/2015 00:19 |
| 1,2-Dibromo-3-chloropropane | ND | | 10 | 50 | 06/07/2015 00:19 |
| 1,2-Dibromoethane (EDB) | ND | | 25 | 50 | 06/07/2015 00:19 |
| Dibromomethane | ND | | 25 | 50 | 06/07/2015 00:19 |
| 1,2-Dichlorobenzene | ND | | 25 | 50 | 06/07/2015 00:19 |
| 1,3-Dichlorobenzene | ND | | 25 | 50 | 06/07/2015 00:19 |
| 1,4-Dichlorobenzene | ND | | 25 | 50 | 06/07/2015 00:19 |
| Dichlorodifluoromethane | ND | | 25 | 50 | 06/07/2015 00:19 |
| 1,1-Dichloroethane | ND | | 25 | 50 | 06/07/2015 00:19 |
| 1,2-Dichloroethane (1,2-DCA) | ND | | 25 | 50 | 06/07/2015 00:19 |
| 1,1-Dichloroethene | ND | | 25 | 50 | 06/07/2015 00:19 |
| cis-1,2-Dichloroethene | ND | | 25 | 50 | 06/07/2015 00:19 |
| trans-1,2-Dichloroethene | ND | | 25 | 50 | 06/07/2015 00:19 |
| 1,2-Dichloropropane | ND | | 25 | 50 | 06/07/2015 00:19 |
| 1,3-Dichloropropane | ND | | 25 | 50 | 06/07/2015 00:19 |
| 2,2-Dichloropropane | ND | | 25 | 50 | 06/07/2015 00:19 |
| 1,1-Dichloropropene | ND | | 25 | 50 | 06/07/2015 00:19 |

(Cont.)



Analytical Report

Client: P & D Environmental **WorkOrder:** 1506230
Project: #0398; Auto Depot 4171 Broadway Oakland, CA **Extraction Method:** SW5030B
Date Received: 6/4/15 17:07 **Analytical Method:** SW8260B
Date Prepared: 6/6/15-6/8/15 **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 |
|-------------------------------|---------------|----------------|------------------|------------|----------------------|
| B12-W | 1506230-004B | Water | 06/02/2015 11:30 | GC10 | 105964 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| cis-1,3-Dichloropropene | ND | | 25 | 50 | 06/07/2015 00:19 |
| trans-1,3-Dichloropropene | ND | | 25 | 50 | 06/07/2015 00:19 |
| Diisopropyl ether (DIPE) | ND | | 25 | 50 | 06/07/2015 00:19 |
| Ethylbenzene | 250 | | 25 | 50 | 06/07/2015 00:19 |
| Ethyl tert-butyl ether (ETBE) | ND | | 25 | 50 | 06/07/2015 00:19 |
| Freon 113 | ND | | 25 | 50 | 06/07/2015 00:19 |
| Hexachlorobutadiene | ND | | 25 | 50 | 06/07/2015 00:19 |
| Hexachloroethane | ND | | 25 | 50 | 06/07/2015 00:19 |
| 2-Hexanone | ND | | 25 | 50 | 06/07/2015 00:19 |
| Isopropylbenzene | ND | | 25 | 50 | 06/07/2015 00:19 |
| 4-Isopropyl toluene | ND | | 25 | 50 | 06/07/2015 00:19 |
| Methyl-t-butyl ether (MTBE) | ND | | 25 | 50 | 06/07/2015 00:19 |
| Methylene chloride | ND | | 25 | 50 | 06/07/2015 00:19 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 25 | 50 | 06/07/2015 00:19 |
| Naphthalene | 130 | | 25 | 50 | 06/07/2015 00:19 |
| n-Propyl benzene | 61 | | 25 | 50 | 06/07/2015 00:19 |
| Styrene | ND | | 25 | 50 | 06/07/2015 00:19 |
| 1,1,1,2-Tetrachloroethane | ND | | 25 | 50 | 06/07/2015 00:19 |
| 1,1,2,2-Tetrachloroethane | ND | | 25 | 50 | 06/07/2015 00:19 |
| Tetrachloroethene | ND | | 25 | 50 | 06/07/2015 00:19 |
| Toluene | ND | | 25 | 50 | 06/07/2015 00:19 |
| 1,2,3-Trichlorobenzene | ND | | 25 | 50 | 06/07/2015 00:19 |
| 1,2,4-Trichlorobenzene | ND | | 25 | 50 | 06/07/2015 00:19 |
| 1,1,1-Trichloroethane | ND | | 25 | 50 | 06/07/2015 00:19 |
| 1,1,2-Trichloroethane | ND | | 25 | 50 | 06/07/2015 00:19 |
| Trichloroethene | ND | | 25 | 50 | 06/07/2015 00:19 |
| Trichlorofluoromethane | ND | | 25 | 50 | 06/07/2015 00:19 |
| 1,2,3-Trichloropropane | ND | | 25 | 50 | 06/07/2015 00:19 |
| 1,2,4-Trimethylbenzene | 92 | | 25 | 50 | 06/07/2015 00:19 |
| 1,3,5-Trimethylbenzene | ND | | 25 | 50 | 06/07/2015 00:19 |
| Vinyl Chloride | ND | | 25 | 50 | 06/07/2015 00:19 |
| Xylenes, Total | 36 | | 25 | 50 | 06/07/2015 00:19 |

(Cont.)



Analytical Report

Client: P & D Environmental

WorkOrder: 1506230

Project: #0398; Auto Depot 4171 Broadway Oakland, CA

Extraction Method: SW5030B

Date Received: 6/4/15 17:07

Analytical Method: SW8260B

Date Prepared: 6/6/15-6/8/15

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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B12-W | 1506230-004B | Water | 06/02/2015 11:30 | GC10 | 105964 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|---------|--------|----|------------------|
| Surrogates | REC (%) | Limits | | |
| Dibromofluoromethane | 88 | 70-130 | | 06/07/2015 00:19 |
| Toluene-d8 | 87 | 70-130 | | 06/07/2015 00:19 |
| 4-BFB | 81 | 70-130 | | 06/07/2015 00:19 |

Analyst(s): AK



Analytical Report

Client: P & D Environmental **WorkOrder:** 1506230
Project: #0398; Auto Depot 4171 Broadway Oakland, CA **Extraction Method:** SW5030B
Date Received: 6/4/15 17:07 **Analytical Method:** SW8260B
Date Prepared: 6/6/15-6/8/15 **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 |
|-------------------------------|---------------|----------------|------------------|------------|----------------------|
| B-13-W | 1506230-005B | Water | 06/02/2015 13:15 | GC10 | 105964 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| Acetone | ND | | 500 | 50 | 06/07/2015 01:00 |
| tert-Amyl methyl ether (TAME) | ND | | 25 | 50 | 06/07/2015 01:00 |
| Benzene | 29 | | 25 | 50 | 06/07/2015 01:00 |
| Bromobenzene | ND | | 25 | 50 | 06/07/2015 01:00 |
| Bromochloromethane | ND | | 25 | 50 | 06/07/2015 01:00 |
| Bromodichloromethane | ND | | 25 | 50 | 06/07/2015 01:00 |
| Bromoform | ND | | 25 | 50 | 06/07/2015 01:00 |
| Bromomethane | ND | | 25 | 50 | 06/07/2015 01:00 |
| 2-Butanone (MEK) | ND | | 100 | 50 | 06/07/2015 01:00 |
| t-Butyl alcohol (TBA) | ND | | 100 | 50 | 06/07/2015 01:00 |
| n-Butyl benzene | ND | | 25 | 50 | 06/07/2015 01:00 |
| sec-Butyl benzene | ND | | 25 | 50 | 06/07/2015 01:00 |
| tert-Butyl benzene | ND | | 25 | 50 | 06/07/2015 01:00 |
| Carbon Disulfide | ND | | 25 | 50 | 06/07/2015 01:00 |
| Carbon Tetrachloride | ND | | 25 | 50 | 06/07/2015 01:00 |
| Chlorobenzene | ND | | 25 | 50 | 06/07/2015 01:00 |
| Chloroethane | ND | | 25 | 50 | 06/07/2015 01:00 |
| Chloroform | ND | | 25 | 50 | 06/07/2015 01:00 |
| Chloromethane | ND | | 25 | 50 | 06/07/2015 01:00 |
| 2-Chlorotoluene | ND | | 25 | 50 | 06/07/2015 01:00 |
| 4-Chlorotoluene | ND | | 25 | 50 | 06/07/2015 01:00 |
| Dibromochloromethane | ND | | 25 | 50 | 06/07/2015 01:00 |
| 1,2-Dibromo-3-chloropropane | ND | | 10 | 50 | 06/07/2015 01:00 |
| 1,2-Dibromoethane (EDB) | ND | | 25 | 50 | 06/07/2015 01:00 |
| Dibromomethane | ND | | 25 | 50 | 06/07/2015 01:00 |
| 1,2-Dichlorobenzene | ND | | 25 | 50 | 06/07/2015 01:00 |
| 1,3-Dichlorobenzene | ND | | 25 | 50 | 06/07/2015 01:00 |
| 1,4-Dichlorobenzene | ND | | 25 | 50 | 06/07/2015 01:00 |
| Dichlorodifluoromethane | ND | | 25 | 50 | 06/07/2015 01:00 |
| 1,1-Dichloroethane | ND | | 25 | 50 | 06/07/2015 01:00 |
| 1,2-Dichloroethane (1,2-DCA) | ND | | 25 | 50 | 06/07/2015 01:00 |
| 1,1-Dichloroethene | ND | | 25 | 50 | 06/07/2015 01:00 |
| cis-1,2-Dichloroethene | ND | | 25 | 50 | 06/07/2015 01:00 |
| trans-1,2-Dichloroethene | ND | | 25 | 50 | 06/07/2015 01:00 |
| 1,2-Dichloropropane | ND | | 25 | 50 | 06/07/2015 01:00 |
| 1,3-Dichloropropane | ND | | 25 | 50 | 06/07/2015 01:00 |
| 2,2-Dichloropropane | ND | | 25 | 50 | 06/07/2015 01:00 |
| 1,1-Dichloropropene | ND | | 25 | 50 | 06/07/2015 01:00 |

(Cont.)



Analytical Report

Client: P & D Environmental **WorkOrder:** 1506230
Project: #0398; Auto Depot 4171 Broadway Oakland, CA **Extraction Method:** SW5030B
Date Received: 6/4/15 17:07 **Analytical Method:** SW8260B
Date Prepared: 6/6/15-6/8/15 **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 |
|-------------------------------|---------------|----------------|------------------|------------|----------------------|
| B-13-W | 1506230-005B | Water | 06/02/2015 13:15 | GC10 | 105964 |
| Analytes | Result | | RL | DF | Date Analyzed |
| cis-1,3-Dichloropropene | ND | | 25 | 50 | 06/07/2015 01:00 |
| trans-1,3-Dichloropropene | ND | | 25 | 50 | 06/07/2015 01:00 |
| Diisopropyl ether (DIPE) | ND | | 25 | 50 | 06/07/2015 01:00 |
| Ethylbenzene | 130 | | 25 | 50 | 06/07/2015 01:00 |
| Ethyl tert-butyl ether (ETBE) | ND | | 25 | 50 | 06/07/2015 01:00 |
| Freon 113 | ND | | 25 | 50 | 06/07/2015 01:00 |
| Hexachlorobutadiene | ND | | 25 | 50 | 06/07/2015 01:00 |
| Hexachloroethane | ND | | 25 | 50 | 06/07/2015 01:00 |
| 2-Hexanone | ND | | 25 | 50 | 06/07/2015 01:00 |
| Isopropylbenzene | ND | | 25 | 50 | 06/07/2015 01:00 |
| 4-Isopropyl toluene | ND | | 25 | 50 | 06/07/2015 01:00 |
| Methyl-t-butyl ether (MTBE) | ND | | 25 | 50 | 06/07/2015 01:00 |
| Methylene chloride | ND | | 25 | 50 | 06/07/2015 01:00 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 25 | 50 | 06/07/2015 01:00 |
| Naphthalene | 100 | | 25 | 50 | 06/07/2015 01:00 |
| n-Propyl benzene | 46 | | 25 | 50 | 06/07/2015 01:00 |
| Styrene | ND | | 25 | 50 | 06/07/2015 01:00 |
| 1,1,1,2-Tetrachloroethane | ND | | 25 | 50 | 06/07/2015 01:00 |
| 1,1,2,2-Tetrachloroethane | ND | | 25 | 50 | 06/07/2015 01:00 |
| Tetrachloroethene | ND | | 25 | 50 | 06/07/2015 01:00 |
| Toluene | ND | | 25 | 50 | 06/07/2015 01:00 |
| 1,2,3-Trichlorobenzene | ND | | 25 | 50 | 06/07/2015 01:00 |
| 1,2,4-Trichlorobenzene | ND | | 25 | 50 | 06/07/2015 01:00 |
| 1,1,1-Trichloroethane | ND | | 25 | 50 | 06/07/2015 01:00 |
| 1,1,2-Trichloroethane | ND | | 25 | 50 | 06/07/2015 01:00 |
| Trichloroethene | ND | | 25 | 50 | 06/07/2015 01:00 |
| Trichlorofluoromethane | ND | | 25 | 50 | 06/07/2015 01:00 |
| 1,2,3-Trichloropropane | ND | | 25 | 50 | 06/07/2015 01:00 |
| 1,2,4-Trimethylbenzene | 110 | | 25 | 50 | 06/07/2015 01:00 |
| 1,3,5-Trimethylbenzene | ND | | 25 | 50 | 06/07/2015 01:00 |
| Vinyl Chloride | ND | | 25 | 50 | 06/07/2015 01:00 |
| Xylenes, Total | 98 | | 25 | 50 | 06/07/2015 01:00 |

(Cont.)



Analytical Report

| | | | |
|-----------------------|---|---------------------------|---------|
| Client: | P & D Environmental | WorkOrder: | 1506230 |
| Project: | #0398; Auto Depot 4171 Broadway Oakland, CA | Extraction Method: | SW5030B |
| Date Received: | 6/4/15 17:07 | Analytical Method: | SW8260B |
| Date Prepared: | 6/6/15-6/8/15 | 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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B-13-W | 1506230-005B | Water | 06/02/2015 13:15 | GC10 | 105964 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|--------|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | |
| Dibromofluoromethane | 85 | 70-130 | | 06/07/2015 01:00 |
| Toluene-d8 | 86 | 70-130 | | 06/07/2015 01:00 |
| 4-BFB | 77 | 70-130 | | 06/07/2015 01:00 |

Analyst(s): AK



Analytical Report

Client: P & D Environmental **WorkOrder:** 1506230
Project: #0398; Auto Depot 4171 Broadway Oakland, CA **Extraction Method:** SW5030B
Date Received: 6/4/15 17:07 **Analytical Method:** SW8260B
Date Prepared: 6/6/15-6/8/15 **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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B-14-W | 1506230-006B | Water | 06/03/2015 10:00 | GC10 | 105964 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|-----|----|------------------|
| Acetone | ND | 500 | 50 | 06/07/2015 01:41 |
| tert-Amyl methyl ether (TAME) | ND | 25 | 50 | 06/07/2015 01:41 |
| Benzene | 40 | 25 | 50 | 06/07/2015 01:41 |
| Bromobenzene | ND | 25 | 50 | 06/07/2015 01:41 |
| Bromochloromethane | ND | 25 | 50 | 06/07/2015 01:41 |
| Bromodichloromethane | ND | 25 | 50 | 06/07/2015 01:41 |
| Bromoform | ND | 25 | 50 | 06/07/2015 01:41 |
| Bromomethane | ND | 25 | 50 | 06/07/2015 01:41 |
| 2-Butanone (MEK) | ND | 100 | 50 | 06/07/2015 01:41 |
| t-Butyl alcohol (TBA) | ND | 100 | 50 | 06/07/2015 01:41 |
| n-Butyl benzene | ND | 25 | 50 | 06/07/2015 01:41 |
| sec-Butyl benzene | ND | 25 | 50 | 06/07/2015 01:41 |
| tert-Butyl benzene | ND | 25 | 50 | 06/07/2015 01:41 |
| Carbon Disulfide | ND | 25 | 50 | 06/07/2015 01:41 |
| Carbon Tetrachloride | ND | 25 | 50 | 06/07/2015 01:41 |
| Chlorobenzene | ND | 25 | 50 | 06/07/2015 01:41 |
| Chloroethane | ND | 25 | 50 | 06/07/2015 01:41 |
| Chloroform | ND | 25 | 50 | 06/07/2015 01:41 |
| Chloromethane | ND | 25 | 50 | 06/07/2015 01:41 |
| 2-Chlorotoluene | ND | 25 | 50 | 06/07/2015 01:41 |
| 4-Chlorotoluene | ND | 25 | 50 | 06/07/2015 01:41 |
| Dibromochloromethane | ND | 25 | 50 | 06/07/2015 01:41 |
| 1,2-Dibromo-3-chloropropane | ND | 10 | 50 | 06/07/2015 01:41 |
| 1,2-Dibromoethane (EDB) | ND | 25 | 50 | 06/07/2015 01:41 |
| Dibromomethane | ND | 25 | 50 | 06/07/2015 01:41 |
| 1,2-Dichlorobenzene | ND | 25 | 50 | 06/07/2015 01:41 |
| 1,3-Dichlorobenzene | ND | 25 | 50 | 06/07/2015 01:41 |
| 1,4-Dichlorobenzene | ND | 25 | 50 | 06/07/2015 01:41 |
| Dichlorodifluoromethane | ND | 25 | 50 | 06/07/2015 01:41 |
| 1,1-Dichloroethane | ND | 25 | 50 | 06/07/2015 01:41 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 25 | 50 | 06/07/2015 01:41 |
| 1,1-Dichloroethene | ND | 25 | 50 | 06/07/2015 01:41 |
| cis-1,2-Dichloroethene | ND | 25 | 50 | 06/07/2015 01:41 |
| trans-1,2-Dichloroethene | ND | 25 | 50 | 06/07/2015 01:41 |
| 1,2-Dichloropropane | ND | 25 | 50 | 06/07/2015 01:41 |
| 1,3-Dichloropropane | ND | 25 | 50 | 06/07/2015 01:41 |
| 2,2-Dichloropropane | ND | 25 | 50 | 06/07/2015 01:41 |
| 1,1-Dichloropropene | ND | 25 | 50 | 06/07/2015 01:41 |

(Cont.)



Analytical Report

Client: P & D Environmental **WorkOrder:** 1506230
Project: #0398; Auto Depot 4171 Broadway Oakland, CA **Extraction Method:** SW5030B
Date Received: 6/4/15 17:07 **Analytical Method:** SW8260B
Date Prepared: 6/6/15-6/8/15 **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 |
|-------------------------------|---------------|----------------|------------------|----------------------|----------|
| B-14-W | 1506230-006B | Water | 06/03/2015 10:00 | GC10 | 105964 |
| Analytes | Result | RL | DF | Date Analyzed | |
| cis-1,3-Dichloropropene | ND | 25 | 50 | 06/07/2015 01:41 | |
| trans-1,3-Dichloropropene | ND | 25 | 50 | 06/07/2015 01:41 | |
| Diisopropyl ether (DIPE) | ND | 25 | 50 | 06/07/2015 01:41 | |
| Ethylbenzene | 69 | 25 | 50 | 06/07/2015 01:41 | |
| Ethyl tert-butyl ether (ETBE) | ND | 25 | 50 | 06/07/2015 01:41 | |
| Freon 113 | ND | 25 | 50 | 06/07/2015 01:41 | |
| Hexachlorobutadiene | ND | 25 | 50 | 06/07/2015 01:41 | |
| Hexachloroethane | ND | 25 | 50 | 06/07/2015 01:41 | |
| 2-Hexanone | ND | 25 | 50 | 06/07/2015 01:41 | |
| Isopropylbenzene | ND | 25 | 50 | 06/07/2015 01:41 | |
| 4-Isopropyl toluene | ND | 25 | 50 | 06/07/2015 01:41 | |
| Methyl-t-butyl ether (MTBE) | ND | 25 | 50 | 06/07/2015 01:41 | |
| Methylene chloride | ND | 25 | 50 | 06/07/2015 01:41 | |
| 4-Methyl-2-pentanone (MIBK) | ND | 25 | 50 | 06/07/2015 01:41 | |
| Naphthalene | 68 | 25 | 50 | 06/07/2015 01:41 | |
| n-Propyl benzene | 66 | 25 | 50 | 06/07/2015 01:41 | |
| Styrene | ND | 25 | 50 | 06/07/2015 01:41 | |
| 1,1,1,2-Tetrachloroethane | ND | 25 | 50 | 06/07/2015 01:41 | |
| 1,1,2,2-Tetrachloroethane | ND | 25 | 50 | 06/07/2015 01:41 | |
| Tetrachloroethene | ND | 25 | 50 | 06/07/2015 01:41 | |
| Toluene | ND | 25 | 50 | 06/07/2015 01:41 | |
| 1,2,3-Trichlorobenzene | ND | 25 | 50 | 06/07/2015 01:41 | |
| 1,2,4-Trichlorobenzene | ND | 25 | 50 | 06/07/2015 01:41 | |
| 1,1,1-Trichloroethane | ND | 25 | 50 | 06/07/2015 01:41 | |
| 1,1,2-Trichloroethane | ND | 25 | 50 | 06/07/2015 01:41 | |
| Trichloroethene | ND | 25 | 50 | 06/07/2015 01:41 | |
| Trichlorofluoromethane | ND | 25 | 50 | 06/07/2015 01:41 | |
| 1,2,3-Trichloropropane | ND | 25 | 50 | 06/07/2015 01:41 | |
| 1,2,4-Trimethylbenzene | 66 | 25 | 50 | 06/07/2015 01:41 | |
| 1,3,5-Trimethylbenzene | ND | 25 | 50 | 06/07/2015 01:41 | |
| Vinyl Chloride | ND | 25 | 50 | 06/07/2015 01:41 | |
| Xylenes, Total | 110 | 25 | 50 | 06/07/2015 01:41 | |

(Cont.)



Analytical Report

| | | | |
|-----------------------|---|---------------------------|---------|
| Client: | P & D Environmental | WorkOrder: | 1506230 |
| Project: | #0398; Auto Depot 4171 Broadway Oakland, CA | Extraction Method: | SW5030B |
| Date Received: | 6/4/15 17:07 | Analytical Method: | SW8260B |
| Date Prepared: | 6/6/15-6/8/15 | 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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B-14-W | 1506230-006B | Water | 06/03/2015 10:00 | GC10 | 105964 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|--------|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | |
| Dibromofluoromethane | 87 | 70-130 | | 06/07/2015 01:41 |
| Toluene-d8 | 86 | 70-130 | | 06/07/2015 01:41 |
| 4-BFB | 78 | 70-130 | | 06/07/2015 01:41 |

Analyst(s): AK



Analytical Report

Client: P & D Environmental **WorkOrder:** 1506230
Project: #0398; Auto Depot 4171 Broadway Oakland, CA **Extraction Method:** SW5030B
Date Received: 6/4/15 17:07 **Analytical Method:** SW8260B
Date Prepared: 6/6/15-6/8/15 **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 |
|-------------------------------|---------------|----------------|------------------|------------|----------------------|
| B15-W | 1506230-007B | Water | 06/03/2015 13:00 | GC10 | 105964 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| Acetone | ND | | 10 | 1 | 06/07/2015 02:22 |
| tert-Amyl methyl ether (TAME) | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| Benzene | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| Bromobenzene | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| Bromochloromethane | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| Bromodichloromethane | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| Bromoform | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| Bromomethane | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| 2-Butanone (MEK) | ND | | 2.0 | 1 | 06/07/2015 02:22 |
| t-Butyl alcohol (TBA) | ND | | 2.0 | 1 | 06/07/2015 02:22 |
| n-Butyl benzene | 0.70 | | 0.50 | 1 | 06/07/2015 02:22 |
| sec-Butyl benzene | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| tert-Butyl benzene | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| Carbon Disulfide | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| Carbon Tetrachloride | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| Chlorobenzene | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| Chloroethane | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| Chloroform | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| Chloromethane | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| 2-Chlorotoluene | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| 4-Chlorotoluene | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| Dibromochloromethane | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| 1,2-Dibromo-3-chloropropane | ND | | 0.20 | 1 | 06/07/2015 02:22 |
| 1,2-Dibromoethane (EDB) | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| Dibromomethane | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| 1,2-Dichlorobenzene | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| 1,3-Dichlorobenzene | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| 1,4-Dichlorobenzene | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| Dichlorodifluoromethane | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| 1,1-Dichloroethane | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| 1,2-Dichloroethane (1,2-DCA) | 5.1 | | 0.50 | 1 | 06/07/2015 02:22 |
| 1,1-Dichloroethene | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| cis-1,2-Dichloroethene | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| trans-1,2-Dichloroethene | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| 1,2-Dichloropropane | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| 1,3-Dichloropropane | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| 2,2-Dichloropropane | ND | | 0.50 | 1 | 06/07/2015 02:22 |
| 1,1-Dichloropropene | ND | | 0.50 | 1 | 06/07/2015 02:22 |

(Cont.)



Analytical Report

Client: P & D Environmental **WorkOrder:** 1506230
Project: #0398; Auto Depot 4171 Broadway Oakland, CA **Extraction Method:** SW5030B
Date Received: 6/4/15 17:07 **Analytical Method:** SW8260B
Date Prepared: 6/6/15-6/8/15 **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 |
|-------------------------------|---------------|----------------|------------------|----------------------|----------|
| B15-W | 1506230-007B | Water | 06/03/2015 13:00 | GC10 | 105964 |
| Analytes | Result | RL | DF | Date Analyzed | |
| cis-1,3-Dichloropropene | ND | 0.50 | 1 | 06/07/2015 02:22 | |
| trans-1,3-Dichloropropene | ND | 0.50 | 1 | 06/07/2015 02:22 | |
| Diisopropyl ether (DIPE) | ND | 0.50 | 1 | 06/07/2015 02:22 | |
| Ethylbenzene | 1.3 | 0.50 | 1 | 06/07/2015 02:22 | |
| Ethyl tert-butyl ether (ETBE) | ND | 0.50 | 1 | 06/07/2015 02:22 | |
| Freon 113 | ND | 0.50 | 1 | 06/07/2015 02:22 | |
| Hexachlorobutadiene | ND | 0.50 | 1 | 06/07/2015 02:22 | |
| Hexachloroethane | ND | 0.50 | 1 | 06/07/2015 02:22 | |
| 2-Hexanone | ND | 0.50 | 1 | 06/07/2015 02:22 | |
| Isopropylbenzene | ND | 0.50 | 1 | 06/07/2015 02:22 | |
| 4-Isopropyl toluene | ND | 0.50 | 1 | 06/07/2015 02:22 | |
| Methyl-t-butyl ether (MTBE) | ND | 0.50 | 1 | 06/07/2015 02:22 | |
| Methylene chloride | ND | 0.50 | 1 | 06/07/2015 02:22 | |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.50 | 1 | 06/07/2015 02:22 | |
| Naphthalene | ND | 0.50 | 1 | 06/07/2015 02:22 | |
| n-Propyl benzene | 1.3 | 0.50 | 1 | 06/07/2015 02:22 | |
| Styrene | ND | 0.50 | 1 | 06/07/2015 02:22 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | 1 | 06/07/2015 02:22 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | 1 | 06/07/2015 02:22 | |
| Tetrachloroethene | ND | 0.50 | 1 | 06/07/2015 02:22 | |
| Toluene | ND | 0.50 | 1 | 06/07/2015 02:22 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | 1 | 06/07/2015 02:22 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | 1 | 06/07/2015 02:22 | |
| 1,1,1-Trichloroethane | ND | 0.50 | 1 | 06/07/2015 02:22 | |
| 1,1,2-Trichloroethane | ND | 0.50 | 1 | 06/07/2015 02:22 | |
| Trichloroethene | ND | 0.50 | 1 | 06/07/2015 02:22 | |
| Trichlorofluoromethane | ND | 0.50 | 1 | 06/07/2015 02:22 | |
| 1,2,3-Trichloropropane | ND | 0.50 | 1 | 06/07/2015 02:22 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | 1 | 06/07/2015 02:22 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | 1 | 06/07/2015 02:22 | |
| Vinyl Chloride | ND | 0.50 | 1 | 06/07/2015 02:22 | |
| Xylenes, Total | ND | 0.50 | 1 | 06/07/2015 02:22 | |

(Cont.)



Analytical Report

Client: P & D Environmental **WorkOrder:** 1506230
Project: #0398; Auto Depot 4171 Broadway Oakland, CA **Extraction Method:** SW5030B
Date Received: 6/4/15 17:07 **Analytical Method:** SW8260B
Date Prepared: 6/6/15-6/8/15 **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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B15-W | 1506230-007B | Water | 06/03/2015 13:00 | GC10 | 105964 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|---------------|----|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | | |
| Dibromofluoromethane | 84 | 70-130 | | 06/07/2015 02:22 |
| Toluene-d8 | 85 | 70-130 | | 06/07/2015 02:22 |
| 4-BFB | 78 | 70-130 | | 06/07/2015 02:22 |

Analyst(s): AK



Analytical Report

Client: P & D Environmental **WorkOrder:** 1506230
Project: #0398; Auto Depot 4171 Broadway Oakland, CA **Extraction Method:** E625
Date Received: 6/4/15 17:07 **Analytical Method:** SW8270C
Date Prepared: 6/5/15 **Unit:** µg/L

Semi-Volatile Organics by GC/MS (Basic Target List)

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-------------------------------|--------------|----------------|------------------|------------------|----------|
| B4A-W | 1506230-001C | Water | 06/03/2015 07:30 | GC17 | 105893 |
| Analytes | Result | RL | DF | Date Analyzed | |
| Acenaphthene | ND | 24 | 1 | 06/05/2015 16:37 | |
| Acenaphthylene | ND | 24 | 1 | 06/05/2015 16:37 | |
| Acetochlor | ND | 24 | 1 | 06/05/2015 16:37 | |
| Anthracene | ND | 24 | 1 | 06/05/2015 16:37 | |
| Benzidine | ND | 120 | 1 | 06/05/2015 16:37 | |
| Benzo (a) anthracene | ND | 24 | 1 | 06/05/2015 16:37 | |
| Benzo (b) fluoranthene | ND | 24 | 1 | 06/05/2015 16:37 | |
| Benzo (k) fluoranthene | ND | 24 | 1 | 06/05/2015 16:37 | |
| Benzo (g,h,i) perylene | ND | 24 | 1 | 06/05/2015 16:37 | |
| Benzo (a) pyrene | ND | 24 | 1 | 06/05/2015 16:37 | |
| Benzyl Alcohol | ND | 120 | 1 | 06/05/2015 16:37 | |
| 1,1-Biphenyl | ND | 24 | 1 | 06/05/2015 16:37 | |
| Bis (2-chloroethoxy) Methane | ND | 24 | 1 | 06/05/2015 16:37 | |
| Bis (2-chloroethyl) Ether | ND | 24 | 1 | 06/05/2015 16:37 | |
| Bis (2-chloroisopropyl) Ether | ND | 24 | 1 | 06/05/2015 16:37 | |
| Bis (2-ethylhexyl) Adipate | ND | 24 | 1 | 06/05/2015 16:37 | |
| Bis (2-ethylhexyl) Phthalate | ND | 47 | 1 | 06/05/2015 16:37 | |
| 4-Bromophenyl Phenyl Ether | ND | 120 | 1 | 06/05/2015 16:37 | |
| Butylbenzyl Phthalate | ND | 24 | 1 | 06/05/2015 16:37 | |
| 4-Chloroaniline | ND | 47 | 1 | 06/05/2015 16:37 | |
| 4-Chloro-3-methylphenol | ND | 120 | 1 | 06/05/2015 16:37 | |
| 2-Chloronaphthalene | ND | 24 | 1 | 06/05/2015 16:37 | |
| 2-Chlorophenol | ND | 24 | 1 | 06/05/2015 16:37 | |
| 4-Chlorophenyl Phenyl Ether | ND | 24 | 1 | 06/05/2015 16:37 | |
| Chrysene | ND | 24 | 1 | 06/05/2015 16:37 | |
| Dibenzo (a,h) anthracene | ND | 24 | 1 | 06/05/2015 16:37 | |
| Dibenzofuran | ND | 24 | 1 | 06/05/2015 16:37 | |
| Di-n-butyl Phthalate | ND | 24 | 1 | 06/05/2015 16:37 | |
| 1,2-Dichlorobenzene | ND | 24 | 1 | 06/05/2015 16:37 | |
| 1,3-Dichlorobenzene | ND | 24 | 1 | 06/05/2015 16:37 | |
| 1,4-Dichlorobenzene | ND | 24 | 1 | 06/05/2015 16:37 | |
| 3,3-Dichlorobenzidine | ND | 47 | 1 | 06/05/2015 16:37 | |
| 2,4-Dichlorophenol | ND | 24 | 1 | 06/05/2015 16:37 | |
| Diethyl Phthalate | ND | 24 | 1 | 06/05/2015 16:37 | |
| 2,4-Dimethylphenol | ND | 24 | 1 | 06/05/2015 16:37 | |
| Dimethyl Phthalate | ND | 24 | 1 | 06/05/2015 16:37 | |
| 4,6-Dinitro-2-methylphenol | ND | 120 | 1 | 06/05/2015 16:37 | |
| 2,4-Dinitrophenol | ND | 290 | 1 | 06/05/2015 16:37 | |

(Cont.)



Analytical Report

Client: P & D Environmental **WorkOrder:** 1506230
Project: #0398; Auto Depot 4171 Broadway Oakland, CA **Extraction Method:** E625
Date Received: 6/4/15 17:07 **Analytical Method:** SW8270C
Date Prepared: 6/5/15 **Unit:** µg/L

Semi-Volatile Organics by GC/MS (Basic Target List)

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|---------------------------------|--------------|----------------|------------------|------------------|----------|
| B4A-W | 1506230-001C | Water | 06/03/2015 07:30 | GC17 | 105893 |
| Analytes | Result | RL | DF | Date Analyzed | |
| 2,4-Dinitrotoluene | ND | 24 | 1 | 06/05/2015 16:37 | |
| 2,6-Dinitrotoluene | ND | 24 | 1 | 06/05/2015 16:37 | |
| Di-n-octyl Phthalate | ND | 24 | 1 | 06/05/2015 16:37 | |
| 1,2-Diphenylhydrazine | ND | 24 | 1 | 06/05/2015 16:37 | |
| Fluoranthene | ND | 24 | 1 | 06/05/2015 16:37 | |
| Fluorene | ND | 24 | 1 | 06/05/2015 16:37 | |
| Hexachlorobenzene | ND | 24 | 1 | 06/05/2015 16:37 | |
| Hexachlorobutadiene | ND | 24 | 1 | 06/05/2015 16:37 | |
| Hexachlorocyclopentadiene | ND | 120 | 1 | 06/05/2015 16:37 | |
| Hexachloroethane | ND | 24 | 1 | 06/05/2015 16:37 | |
| Indeno (1,2,3-cd) pyrene | ND | 24 | 1 | 06/05/2015 16:37 | |
| Isophorone | ND | 24 | 1 | 06/05/2015 16:37 | |
| 2-Methylnaphthalene | ND | 24 | 1 | 06/05/2015 16:37 | |
| 2-Methylphenol (o-Cresol) | ND | 24 | 1 | 06/05/2015 16:37 | |
| 3 & 4-Methylphenol (m,p-Cresol) | ND | 24 | 1 | 06/05/2015 16:37 | |
| Naphthalene | ND | 24 | 1 | 06/05/2015 16:37 | |
| 2-Nitroaniline | ND | 120 | 1 | 06/05/2015 16:37 | |
| 3-Nitroaniline | ND | 120 | 1 | 06/05/2015 16:37 | |
| 4-Nitroaniline | ND | 120 | 1 | 06/05/2015 16:37 | |
| Nitrobenzene | ND | 24 | 1 | 06/05/2015 16:37 | |
| 2-Nitrophenol | ND | 120 | 1 | 06/05/2015 16:37 | |
| 4-Nitrophenol | ND | 120 | 1 | 06/05/2015 16:37 | |
| N-Nitrosodiphenylamine | ND | 24 | 1 | 06/05/2015 16:37 | |
| N-Nitrosodi-n-propylamine | ND | 24 | 1 | 06/05/2015 16:37 | |
| Pentachlorophenol | ND | 120 | 1 | 06/05/2015 16:37 | |
| Phenanthrene | ND | 24 | 1 | 06/05/2015 16:37 | |
| Phenol | ND | 24 | 1 | 06/05/2015 16:37 | |
| Pyrene | ND | 24 | 1 | 06/05/2015 16:37 | |
| 1,2,4-Trichlorobenzene | ND | 24 | 1 | 06/05/2015 16:37 | |
| 2,4,5-Trichlorophenol | ND | 24 | 1 | 06/05/2015 16:37 | |
| 2,4,6-Trichlorophenol | ND | 24 | 1 | 06/05/2015 16:37 | |

(Cont.)



Analytical Report

Client: P & D Environmental **WorkOrder:** 1506230
Project: #0398; Auto Depot 4171 Broadway Oakland, CA **Extraction Method:** E625
Date Received: 6/4/15 17:07 **Analytical Method:** SW8270C
Date Prepared: 6/5/15 **Unit:** µg/L

Semi-Volatile Organics by GC/MS (Basic Target List)

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B4A-W | 1506230-001C | Water | 06/03/2015 07:30 | GC17 | 105893 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|---------------|----|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Limits</u> | | |
| 2-Fluorophenol | 43 | 8-130 | | 06/05/2015 16:37 |
| Phenol-d5 | 34 | 5-130 | | 06/05/2015 16:37 |
| Nitrobenzene-d5 | 73 | 20-140 | | 06/05/2015 16:37 |
| 2-Fluorobiphenyl | 75 | 40-140 | | 06/05/2015 16:37 |
| 2,4,6-Tribromophenol | 92 | 16-180 | | 06/05/2015 16:37 |
| 4-Terphenyl-d14 | 92 | 40-170 | | 06/05/2015 16:37 |

Analyst(s): HK

Analytical Comments: a7



Analytical Report

| | |
|---|--|
| Client: P & D Environmental | WorkOrder: 1506230 |
| Project: #0398; Auto Depot 4171 Broadway Oakland, CA | Extraction Method: SW5030B |
| Date Received: 6/4/15 17:07 | Analytical Method: SW8021B/8015Bm |
| Date Prepared: 6/5/15-6/9/15 | 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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B4A-W | 1506230-001A | Water | 06/03/2015 07:30 | GC3 | 105986 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------|----------------|---------------|----|------------------|
| TPH(g) | ND | 50 | 1 | 06/05/2015 16:18 |
| MTBE | --- | 5.0 | 1 | 06/05/2015 16:18 |
| Benzene | --- | 0.50 | 1 | 06/05/2015 16:18 |
| Toluene | --- | 0.50 | 1 | 06/05/2015 16:18 |
| Ethylbenzene | --- | 0.50 | 1 | 06/05/2015 16:18 |
| Xylenes | --- | 0.50 | 1 | 06/05/2015 16:18 |
| Surrogates | REC (%) | Limits | | |
| aaa-TFT | 97 | 70-130 | | 06/05/2015 16:18 |

Analyst(s): HD

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B8-W | 1506230-002A | Water | 06/02/2015 08:30 | GC3 | 105986 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------|----------------|---------------|----|------------------|
| TPH(g) | 120 | 50 | 1 | 06/05/2015 16:51 |
| MTBE | --- | 5.0 | 1 | 06/05/2015 16:51 |
| Benzene | --- | 0.50 | 1 | 06/05/2015 16:51 |
| Toluene | --- | 0.50 | 1 | 06/05/2015 16:51 |
| Ethylbenzene | --- | 0.50 | 1 | 06/05/2015 16:51 |
| Xylenes | --- | 0.50 | 1 | 06/05/2015 16:51 |
| Surrogates | REC (%) | Limits | | |
| aaa-TFT | 101 | 70-130 | | 06/05/2015 16:51 |

Analyst(s): HD

Analytical Comments: d2



Analytical Report

| | |
|---|--|
| Client: P & D Environmental | WorkOrder: 1506230 |
| Project: #0398; Auto Depot 4171 Broadway Oakland, CA | Extraction Method: SW5030B |
| Date Received: 6/4/15 17:07 | Analytical Method: SW8021B/8015Bm |
| Date Prepared: 6/5/15-6/9/15 | 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 |
|-----------|--------------|----------------|------------------|------------|----------|
| B9-W | 1506230-003A | Water | 06/02/2015 10:15 | GC3 | 106042 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|------|----|------------------|
| TPH(g) | 89 | 50 | 1 | 06/08/2015 14:02 |
| MTBE | --- | 5.0 | 1 | 06/08/2015 14:02 |
| Benzene | --- | 0.50 | 1 | 06/08/2015 14:02 |
| Toluene | --- | 0.50 | 1 | 06/08/2015 14:02 |
| Ethylbenzene | --- | 0.50 | 1 | 06/08/2015 14:02 |
| Xylenes | --- | 0.50 | 1 | 06/08/2015 14:02 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| aaa-TFT | 101 | 70-130 | 06/08/2015 14:02 |

Analyst(s): HD

Analytical Comments: d2,d9

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B12-W | 1506230-004A | Water | 06/02/2015 11:30 | GC3 | 106118 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|-----|----|------------------|
| TPH(g) | 4000 | 500 | 10 | 06/09/2015 17:02 |
| MTBE | --- | 50 | 10 | 06/09/2015 17:02 |
| Benzene | --- | 5.0 | 10 | 06/09/2015 17:02 |
| Toluene | --- | 5.0 | 10 | 06/09/2015 17:02 |
| Ethylbenzene | --- | 5.0 | 10 | 06/09/2015 17:02 |
| Xylenes | --- | 5.0 | 10 | 06/09/2015 17:02 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| aaa-TFT | 120 | 70-130 | 06/09/2015 17:02 |

Analyst(s): CA

Analytical Comments: d1

(Cont.)



Analytical Report

| | |
|---|--|
| Client: P & D Environmental | WorkOrder: 1506230 |
| Project: #0398; Auto Depot 4171 Broadway Oakland, CA | Extraction Method: SW5030B |
| Date Received: 6/4/15 17:07 | Analytical Method: SW8021B/8015Bm |
| Date Prepared: 6/5/15-6/9/15 | 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 |
|-----------------------|----------------|----------------|--------------------------------|------------|----------------------|
| B-13-W | 1506230-005A | Water | 06/02/2015 13:15 | GC3 | 106118 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| TPH(g) | 1800 | | 500 | 10 | 06/09/2015 17:32 |
| MTBE | --- | | 50 | 10 | 06/09/2015 17:32 |
| Benzene | --- | | 5.0 | 10 | 06/09/2015 17:32 |
| Toluene | --- | | 5.0 | 10 | 06/09/2015 17:32 |
| Ethylbenzene | --- | | 5.0 | 10 | 06/09/2015 17:32 |
| Xylenes | --- | | 5.0 | 10 | 06/09/2015 17:32 |
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | | |
| aaa-TFT | 105 | | 70-130 | | 06/09/2015 17:32 |
| <u>Analyst(s):</u> CA | | | <u>Analytical Comments:</u> d1 | | |

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------------------|----------------|-------------------|-----------------------------------|------------|----------------------|
| B-14-W | 1506230-006A | Water | 06/03/2015 10:00 | GC3 | 106118 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| TPH(g) | 5600 | | 500 | 10 | 06/09/2015 18:34 |
| MTBE | --- | | 50 | 10 | 06/09/2015 18:34 |
| Benzene | --- | | 5.0 | 10 | 06/09/2015 18:34 |
| Toluene | --- | | 5.0 | 10 | 06/09/2015 18:34 |
| Ethylbenzene | --- | | 5.0 | 10 | 06/09/2015 18:34 |
| Xylenes | --- | | 5.0 | 10 | 06/09/2015 18:34 |
| <u>Surrogates</u> | <u>REC (%)</u> | <u>Qualifiers</u> | <u>Limits</u> | | |
| aaa-TFT | 174 | S | 70-130 | | 06/09/2015 18:34 |
| <u>Analyst(s):</u> CA | | | <u>Analytical Comments:</u> d1,c4 | | |

(Cont.)



Analytical Report

| | |
|---|--|
| Client: P & D Environmental | WorkOrder: 1506230 |
| Project: #0398; Auto Depot 4171 Broadway Oakland, CA | Extraction Method: SW5030B |
| Date Received: 6/4/15 17:07 | Analytical Method: SW8021B/8015Bm |
| Date Prepared: 6/5/15-6/9/15 | 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 |
|-----------------------|-----------------------------------|----------------|------------------|------------|----------------------|
| B15-W | 1506230-007A | Water | 06/03/2015 13:00 | GC3 | 106042 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| TPH(g) | 110 | | 50 | 1 | 06/08/2015 19:59 |
| MTBE | --- | | 5.0 | 1 | 06/08/2015 19:59 |
| Benzene | --- | | 0.50 | 1 | 06/08/2015 19:59 |
| Toluene | --- | | 0.50 | 1 | 06/08/2015 19:59 |
| Ethylbenzene | --- | | 0.50 | 1 | 06/08/2015 19:59 |
| Xylenes | --- | | 0.50 | 1 | 06/08/2015 19:59 |
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | | |
| aaa-TFT | 97 | | 70-130 | | 06/08/2015 19:59 |
| Analyst(s): HD | Analytical Comments: d2,d9 | | | | |



Analytical Report

| | |
|---|-----------------------------------|
| Client: P & D Environmental | WorkOrder: 1506230 |
| Project: #0398; Auto Depot 4171 Broadway Oakland, CA | Extraction Method: SW3510C |
| Date Received: 6/4/15 17:07 | Analytical Method: SW8015B |
| Date Prepared: 6/4/15 | Unit: µg/L |

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-------------------------|----------------|----------------|-----------------------------------|------------|----------------------|
| B4A-W | 1506230-001A | Water | 06/03/2015 07:30 | GC9a | 105820 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| TPH-Diesel (C10-C23) | 64 | | 50 | 1 | 06/09/2015 11:51 |
| TPH-Motor Oil (C18-C36) | ND | | 250 | 1 | 06/09/2015 11:51 |
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | | |
| C9 | 113 | | 70-130 | | 06/09/2015 11:51 |
| <u>Analyst(s):</u> TK | | | <u>Analytical Comments:</u> e2,e8 | | |

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-------------------------|----------------|----------------|--------------------------------|------------|----------------------|
| B8-W | 1506230-002A | Water | 06/02/2015 08:30 | GC11B | 105820 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| TPH-Diesel (C10-C23) | 250 | | 50 | 1 | 06/08/2015 22:08 |
| TPH-Motor Oil (C18-C36) | ND | | 250 | 1 | 06/08/2015 22:08 |
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | | |
| C9 | 114 | | 70-130 | | 06/08/2015 22:08 |
| <u>Analyst(s):</u> TK | | | <u>Analytical Comments:</u> e4 | | |

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-------------------------|----------------|----------------|--------------------------------|------------|----------------------|
| B9-W | 1506230-003A | Water | 06/02/2015 10:15 | GC11B | 105820 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| TPH-Diesel (C10-C23) | 72 | | 50 | 1 | 06/08/2015 12:48 |
| TPH-Motor Oil (C18-C36) | ND | | 250 | 1 | 06/08/2015 12:48 |
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | | |
| C9 | 115 | | 70-130 | | 06/08/2015 12:48 |
| <u>Analyst(s):</u> TK | | | <u>Analytical Comments:</u> e4 | | |

(Cont.)



Analytical Report

| | |
|---|-----------------------------------|
| Client: P & D Environmental | WorkOrder: 1506230 |
| Project: #0398; Auto Depot 4171 Broadway Oakland, CA | Extraction Method: SW3510C |
| Date Received: 6/4/15 17:07 | Analytical Method: SW8015B |
| Date Prepared: 6/4/15 | Unit: µg/L |

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B12-W | 1506230-004A | Water | 06/02/2015 11:30 | GC11B | 105820 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | 1700 | 50 | 1 | 06/08/2015 15:58 |
| TPH-Motor Oil (C18-C36) | 380 | 250 | 1 | 06/08/2015 15:58 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 118 | 70-130 | 06/08/2015 15:58 |

Analyst(s): TK Analytical Comments: e4,e7,e2

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B-13-W | 1506230-005A | Water | 06/02/2015 13:15 | GC2B | 105820 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | 910 | 50 | 1 | 06/07/2015 02:22 |
| TPH-Motor Oil (C18-C36) | ND | 250 | 1 | 06/07/2015 02:22 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 97 | 70-130 | 06/07/2015 02:22 |

Analyst(s): TK Analytical Comments: e4

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B-14-W | 1506230-006A | Water | 06/03/2015 10:00 | GC2B | 105820 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | 5200 | 50 | 1 | 06/07/2015 03:37 |
| TPH-Motor Oil (C18-C36) | ND | 250 | 1 | 06/07/2015 03:37 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 102 | 70-130 | 06/07/2015 03:37 |

Analyst(s): TK Analytical Comments: e11/e4

(Cont.)



Analytical Report

Client: P & D Environmental

WorkOrder: 1506230

Project: #0398; Auto Depot 4171 Broadway Oakland, CA

Extraction Method: SW3510C

Date Received: 6/4/15 17:07

Analytical Method: SW8015B

Date Prepared: 6/4/15

Unit: µg/L

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-----------|--------------|----------------|------------------|------------|----------|
| B15-W | 1506230-007A | Water | 06/03/2015 13:00 | GC2B | 105820 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------|--------|-----|----|------------------|
| TPH-Diesel (C10-C23) | 51 | 50 | 1 | 06/07/2015 01:08 |
| TPH-Motor Oil (C18-C36) | ND | 250 | 1 | 06/07/2015 01:08 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 94 | 70-130 | 06/07/2015 01:08 |

Analyst(s): TK

Analytical Comments: e4/e8



Quality Control Report

Client: P & D Environmental

WorkOrder: 1506230

Date Prepared: 6/4/15

BatchID: 105893

Date Analyzed: 6/4/15

Extraction Method: E625

Instrument: GC21

Analytical Method: SW8270C

Matrix: Water

Unit: µg/L

Project: #0398; Auto Depot 4171 Broadway Oakland, CA

Sample ID: MB/LCS-105893

QC Summary Report for SW8270C

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|-----|---------|------------|----------|------------|
| Acenaphthene | ND | 18.2 | 1.0 | 20 | - | 91 | 47-145 |
| Acenaphthylene | ND | - | 1.0 | - | - | - | - |
| Anthracene | ND | - | 1.0 | - | - | - | - |
| Benzidine | ND | - | 5.0 | - | - | - | - |
| Benzo (a) anthracene | ND | - | 1.0 | - | - | - | - |
| Benzo (b) fluoranthene | ND | - | 1.0 | - | - | - | - |
| Benzo (k) fluoranthene | ND | - | 1.0 | - | - | - | - |
| Benzo (g,h,i) perylene | ND | - | 1.0 | - | - | - | - |
| Benzo (a) pyrene | ND | - | 1.0 | - | - | - | - |
| Benzyl Alcohol | ND | - | 5.0 | - | - | - | - |
| Bis (2-chloroethoxy) Methane | ND | - | 1.0 | - | - | - | - |
| Bis (2-chloroethyl) Ether | ND | - | 1.0 | - | - | - | - |
| Bis (2-chloroisopropyl) Ether | ND | - | 1.0 | - | - | - | - |
| Bis (2-ethylhexyl) Adipate | ND | - | 1.0 | - | - | - | - |
| Bis (2-ethylhexyl) Phthalate | ND | - | 1.0 | - | - | - | - |
| 4-Bromophenyl Phenyl Ether | ND | - | 5.0 | - | - | - | - |
| Butylbenzyl Phthalate | ND | - | 1.0 | - | - | - | - |
| 4-Chloroaniline | ND | - | 2.0 | - | - | - | - |
| 4-Chloro-3-methylphenol | ND | 18.8 | 1.0 | 20 | - | 94 | 22-147 |
| 2-Chloronaphthalene | ND | - | 1.0 | - | - | - | - |
| 2-Chlorophenol | ND | 16.7 | 1.0 | 20 | - | 83 | 23-134 |
| 4-Chlorophenyl Phenyl Ether | ND | - | 1.0 | - | - | - | - |
| Chrysene | ND | - | 1.0 | - | - | - | - |
| Dibenzo (a,h) anthracene | ND | - | 1.0 | - | - | - | - |
| Dibenzofuran | ND | - | 1.0 | - | - | - | - |
| Di-n-butyl Phthalate | ND | - | 1.0 | - | - | - | - |
| 1,2-Dichlorobenzene | ND | - | 1.0 | - | - | - | - |
| 1,3-Dichlorobenzene | ND | - | 1.0 | - | - | - | - |
| 1,4-Dichlorobenzene | ND | 14.8 | 1.0 | 20 | - | 74 | 20-124 |
| 3,3-Dichlorobenzidine | ND | - | 2.0 | - | - | - | - |
| 2,4-Dichlorophenol | ND | - | 1.0 | - | - | - | - |
| Diethyl Phthalate | ND | - | 1.0 | - | - | - | - |
| 2,4-Dimethylphenol | ND | - | 1.0 | - | - | - | - |
| Dimethyl Phthalate | ND | - | 1.0 | - | - | - | - |
| 4,6-Dinitro-2-methylphenol | ND | - | 5.0 | - | - | - | - |
| 2,4-Dinitrophenol | ND | - | 5.0 | - | - | - | - |
| 2,4-Dinitrotoluene | ND | 22.1 | 1.0 | 20 | - | 111 | 39-139 |
| 2,6-Dinitrotoluene | ND | - | 1.0 | - | - | - | - |
| Di-n-octyl Phthalate | ND | - | 2.0 | - | - | - | - |
| 1,2-Diphenylhydrazine | ND | - | 1.0 | - | - | - | - |

(Cont.)



Quality Control Report

Client: P & D Environmental

WorkOrder: 1506230

Date Prepared: 6/4/15

BatchID: 105893

Date Analyzed: 6/4/15

Extraction Method: E625

Instrument: GC21

Analytical Method: SW8270C

Matrix: Water

Unit: µg/L

Project: #0398; Auto Depot 4171 Broadway Oakland, CA

Sample ID: MB/LCS-105893

QC Summary Report for SW8270C

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|---------------------------------|-----------|------------|-----|---------|------------|----------|------------|
| Fluoranthene | ND | - | 1.0 | - | - | - | - |
| Fluorene | ND | - | 1.0 | - | - | - | - |
| Hexachlorobenzene | ND | - | 1.0 | - | - | - | - |
| Hexachlorobutadiene | ND | - | 1.0 | - | - | - | - |
| Hexachlorocyclopentadiene | ND | - | 5.0 | - | - | - | - |
| Hexachloroethane | ND | - | 1.0 | - | - | - | - |
| Indeno (1,2,3-cd) pyrene | ND | - | 1.0 | - | - | - | - |
| Isophorone | ND | - | 1.0 | - | - | - | - |
| 2-Methylnaphthalene | ND | - | 1.0 | - | - | - | - |
| 2-Methylphenol (o-cresol) | ND | - | 1.0 | - | - | - | - |
| 3 & 4-Methylphenol (m,p-Cresol) | ND | - | 1.0 | - | - | - | - |
| Naphthalene | ND | - | 1.0 | - | - | - | - |
| 2-Nitroaniline | ND | - | 5.0 | - | - | - | - |
| 3-Nitroaniline | ND | - | 5.0 | - | - | - | - |
| 4-Nitroaniline | ND | - | 5.0 | - | - | - | - |
| Nitrobenzene | ND | - | 1.0 | - | - | - | - |
| 2-Nitrophenol | ND | - | 5.0 | - | - | - | - |
| 4-Nitrophenol | ND | 108 | 5.0 | 100 | - | 108 | 0-132 |
| N-Nitrosodimethylamine | ND | - | 5.0 | - | - | - | - |
| N-Nitrosodiphenylamine | ND | - | 1.0 | - | - | - | - |
| N-Nitrosodi-n-propylamine | ND | 16.3 | 1.0 | 20 | - | 82 | 0-230 |
| Pentachlorophenol | ND | 50.0 | 5.0 | 40 | - | 125 | 14-176 |
| Phenanthrene | ND | - | 1.0 | - | - | - | - |
| Phenol | ND | 16.9 | 1.0 | 20 | - | 85 | 5-112 |
| Pyrene | ND | 18.1 | 1.0 | 20 | - | 91 | 52-115 |
| 1,2,4-Trichlorobenzene | ND | 15.1 | 1.0 | 20 | - | 76 | 44-142 |
| 2,4,5-Trichlorophenol | ND | - | 1.0 | - | - | - | - |
| 2,4,6-Trichlorophenol | ND | - | 1.0 | - | - | - | - |

Surrogate Recovery

| | | | | | | | |
|----------------------|------|------|--|----|-----|-----|--------|
| 2-Fluorophenol | 17.7 | 17.9 | | 20 | 88 | 90 | 8-130 |
| Phenol-d5 | 20.8 | 21.7 | | 20 | 104 | 108 | 5-130 |
| Nitrobenzene-d5 | 19.6 | 21.1 | | 20 | 98 | 106 | 20-140 |
| 2-Fluorobiphenyl | 17.5 | 18.2 | | 20 | 87 | 91 | 40-140 |
| 2,4,6-Tribromophenol | 21.2 | 19.7 | | 20 | 106 | 99 | 30-180 |
| Terphenyl-d14 | 20.2 | 18.9 | | 20 | 101 | 95 | 40-170 |

(Cont.)



Quality Control Report

Client: P & D Environmental
Date Prepared: 6/8/15
Date Analyzed: 6/6/15
Instrument: GC10
Matrix: Water
Project: #0398; Auto Depot 4171 Broadway Oakland, CA

WorkOrder: 1506230
BatchID: 105964
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-105964
 1506231-002AMS/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 | 9.33 | 0.50 | 10 | - | 93 | 54-140 |
| Benzene | ND | 9.40 | 0.50 | 10 | - | 94 | 47-158 |
| 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 | 35.8 | 2.0 | 40 | - | 90 | 42-140 |
| 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 | 8.63 | 0.50 | 10 | - | 86 | 43-157 |
| 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 | 8.78 | 0.50 | 10 | - | 88 | 44-155 |
| 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 | 9.75 | 0.50 | 10 | - | 97 | 66-125 |
| 1,1-Dichloroethene | ND | 9.02 | 0.50 | 10 | - | 90 | 47-149 |
| cis-1,2-Dichloroethene | ND | - | 0.50 | - | - | - | - |
| trans-1,2-Dichloroethene | ND | - | 0.50 | - | - | - | - |
| 1,2-Dichloropropane | ND | - | 0.50 | - | - | - | - |
| 1,3-Dichloropropane | ND | - | 0.50 | - | - | - | - |
| 2,2-Dichloropropane | ND | - | 0.50 | - | - | - | - |
| 1,1-Dichloropropene | ND | - | 0.50 | - | - | - | - |
| cis-1,3-Dichloropropene | ND | - | 0.50 | - | - | - | - |
| trans-1,3-Dichloropropene | ND | - | 0.50 | - | - | - | - |

(Cont.)



Quality Control Report

Client: P & D Environmental
Date Prepared: 6/8/15
Date Analyzed: 6/6/15
Instrument: GC10
Matrix: Water
Project: #0398; Auto Depot 4171 Broadway Oakland, CA

WorkOrder: 1506230
BatchID: 105964
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-105964
 1506231-002AMS/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 | 9.68 | 0.50 | 10 | - | 97 | 57-136 |
| Ethylbenzene | ND | - | 0.50 | - | - | - | - |
| Ethyl tert-butyl ether (ETBE) | ND | 9.88 | 0.50 | 10 | - | 99 | 55-137 |
| 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 | 9.78 | 0.50 | 10 | - | 98 | 53-139 |
| 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 | 8.76 | 0.50 | 10 | - | 88 | 52-137 |
| 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 | 8.77 | 0.50 | 10 | - | 88 | 43-157 |
| 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 | 21.3 | 22.6 | | 25 | 85 | 90 | 70-130 |
| Toluene-d8 | 21.5 | 21.0 | | 25 | 86 | 84 | 70-130 |
| 4-BFB | 1.96 | 2.05 | | 2.5 | 78 | 82 | 70-130 |

(Cont.)



Quality Control Report

Client: P & D Environmental
Date Prepared: 6/8/15
Date Analyzed: 6/6/15
Instrument: GC10
Matrix: Water
Project: #0398; Auto Depot 4171 Broadway Oakland, CA

WorkOrder: 1506230
BatchID: 105964
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-105964
 1506231-002AMS/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) | 9.95 | 9.61 | 10 | ND | 100 | 96 | 69-139 | 3.51 | 20 |
| Benzene | 9.94 | 9.36 | 10 | ND | 99 | 94 | 69-141 | 6.01 | 20 |
| t-Butyl alcohol (TBA) | 34.3 | 31.9 | 40 | ND | 86 | 80 | 41-152 | 7.08 | 20 |
| Chlorobenzene | 9.02 | 8.49 | 10 | ND | 90 | 85 | 77-120 | 6.02 | 20 |
| 1,2-Dibromoethane (EDB) | 9.46 | 9.20 | 10 | ND | 95 | 92 | 76-135 | 2.81 | 20 |
| 1,2-Dichloroethane (1,2-DCA) | 10.1 | 9.84 | 10 | ND | 101 | 98 | 73-139 | 2.93 | 20 |
| 1,1-Dichloroethene | 9.39 | 9.10 | 10 | ND | 94 | 91 | 59-140 | 3.17 | 20 |
| Diisopropyl ether (DIPE) | 10.2 | 9.91 | 10 | ND | 102 | 99 | 72-140 | 2.47 | 20 |
| Ethyl tert-butyl ether (ETBE) | 10.5 | 10.2 | 10 | ND | 105 | 102 | 71-140 | 2.98 | 20 |
| Methyl-t-butyl ether (MTBE) | 10.2 | 9.95 | 10 | ND | 102 | 100 | 73-139 | 2.75 | 20 |
| Toluene | 9.32 | 8.65 | 10 | ND | 92 | 85 | 71-128 | 7.49 | 20 |
| Trichloroethene | 9.25 | 8.69 | 10 | ND | 92 | 87 | 64-132 | 6.27 | 20 |
| Surrogate Recovery | | | | | | | | | |
| Dibromofluoromethane | 22.5 | 22.9 | 25 | | 90 | 91 | 70-130 | 1.44 | 20 |
| Toluene-d8 | 21.3 | 21.1 | 25 | | 85 | 84 | 70-130 | 0.837 | 20 |
| 4-BFB | 2.06 | 1.99 | 2.5 | | 83 | 80 | 70-130 | 3.73 | 20 |



Quality Control Report

| | | | |
|-----------------------|---|---------------------------|-------------------------------------|
| Client: | P & D Environmental | WorkOrder: | 1506230 |
| Date Prepared: | 6/8/15 | BatchID: | 105986 |
| Date Analyzed: | 6/5/15 | Extraction Method: | SW5030B |
| Instrument: | GC3 | Analytical Method: | SW8021B/8015Bm |
| Matrix: | Water | Unit: | µg/L |
| Project: | #0398; Auto Depot 4171 Broadway Oakland, CA | Sample ID: | MB/LCS-105986 1506256-001AMS/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 | 65.4 | 40 | 60 | - | 109 | 70-130 |
| MTBE | ND | 10.7 | 5.0 | 10 | - | 103 | 70-130 |
| Benzene | ND | 9.83 | 0.50 | 10 | - | 98 | 70-130 |
| Toluene | ND | 9.90 | 0.50 | 10 | - | 99 | 70-130 |
| Ethylbenzene | ND | 10.1 | 0.50 | 10 | - | 101 | 70-130 |
| Xylenes | ND | 30.6 | 0.50 | 30 | - | 101 | 70-130 |

Surrogate Recovery

| | | | | | | | |
|---------|------|------|--|----|-----|----|--------|
| aaa-TFT | 10.1 | 9.11 | | 10 | 101 | 91 | 70-130 |
|---------|------|------|--|----|-----|----|--------|

| Analyte | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD Limit |
|--------------|-----------|------------|---------|------------|---------|----------|---------------|-------|-----------|
| TPH(btex) | 66.0 | 65.4 | 60 | ND | 110 | 109 | 70-130 | 0.891 | 20 |
| MTBE | 11.2 | 10.8 | 10 | ND | 112 | 108 | 70-130 | 3.03 | 20 |
| Benzene | 10.8 | 10.7 | 10 | ND | 108 | 107 | 70-130 | 0.790 | 20 |
| Toluene | 10.8 | 10.8 | 10 | ND | 108 | 108 | 70-130 | 0 | 20 |
| Ethylbenzene | 11.0 | 10.9 | 10 | ND | 110 | 109 | 70-130 | 0.676 | 20 |
| Xylenes | 33.4 | 33.2 | 30 | ND | 111 | 111 | 70-130 | 0 | 20 |

Surrogate Recovery

| | | | | | | | | | |
|---------|------|------|----|--|-----|-----|--------|---|----|
| aaa-TFT | 10.4 | 10.4 | 10 | | 104 | 104 | 70-130 | 0 | 20 |
|---------|------|------|----|--|-----|-----|--------|---|----|

(Cont.)



Quality Control Report

| | |
|---|---|
| Client: P & D Environmental | WorkOrder: 1506230 |
| Date Prepared: 6/9/15 | BatchID: 106042 |
| Date Analyzed: 6/8/15 | Extraction Method: SW5030B |
| Instrument: GC3 | Analytical Method: SW8021B/8015Bm |
| Matrix: Water | Unit: µg/L |
| Project: #0398; Auto Depot 4171 Broadway Oakland, CA | Sample ID: MB/LCS-106042 1506339-001AMS/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 | 60.2 | 40 | 60 | - | 100 | 70-130 |
| MTBE | ND | 12.5 | 5.0 | 10 | - | 125 | 70-130 |
| Benzene | ND | 10.5 | 0.50 | 10 | - | 105 | 70-130 |
| Toluene | ND | 10.2 | 0.50 | 10 | - | 102 | 70-130 |
| Ethylbenzene | ND | 10.3 | 0.50 | 10 | - | 103 | 70-130 |
| Xylenes | ND | 31.3 | 0.50 | 30 | - | 104 | 70-130 |
| Surrogate Recovery | | | | | | | |
| aaa-TFT | 10.2 | 9.59 | | 10 | 102 | 96 | 70-130 |

| Analyte | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD Limit |
|---------------------------|-----------|------------|---------|------------|---------|----------|---------------|-------|-----------|
| TPH(btex) | 69.7 | 68.3 | 60 | ND | 116 | 114 | 70-130 | 2.01 | 20 |
| MTBE | 11.8 | 11.8 | 10 | ND | 89 | 89 | 70-130 | 0 | 20 |
| Benzene | 10.1 | 10.1 | 10 | ND | 101 | 101 | 70-130 | 0 | 20 |
| Toluene | 10.5 | 10.5 | 10 | 0.5729 | 100 | 99 | 70-130 | 0.296 | 20 |
| Ethylbenzene | 10.6 | 10.8 | 10 | ND | 105 | 106 | 70-130 | 1.27 | 20 |
| Xylenes | 32.8 | 33.4 | 30 | 1.029 | 106 | 108 | 70-130 | 1.73 | 20 |
| Surrogate Recovery | | | | | | | | | |
| aaa-TFT | 9.52 | 9.63 | 10 | | 95 | 96 | 70-130 | 1.08 | 20 |

(Cont.)



Quality Control Report

| | | | |
|-----------------------|---|---------------------------|-------------------------------------|
| Client: | P & D Environmental | WorkOrder: | 1506230 |
| Date Prepared: | 6/10/15 | BatchID: | 106118 |
| Date Analyzed: | 6/9/15 | Extraction Method: | SW5030B |
| Instrument: | GC3 | Analytical Method: | SW8021B/8015Bm |
| Matrix: | Water | Unit: | µg/L |
| Project: | #0398; Auto Depot 4171 Broadway Oakland, CA | Sample ID: | MB/LCS-106118 1506320-001AMS/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 | 67.1 | 40 | 60 | - | 112 | 70-130 |
| MTBE | ND | 12.4 | 5.0 | 10 | - | 124 | 70-130 |
| Benzene | ND | 11.2 | 0.50 | 10 | - | 112 | 70-130 |
| Toluene | ND | 11.3 | 0.50 | 10 | - | 113 | 70-130 |
| Ethylbenzene | ND | 11.3 | 0.50 | 10 | - | 113 | 70-130 |
| Xylenes | ND | 34.8 | 0.50 | 30 | - | 116 | 70-130 |

Surrogate Recovery

| | | | | | | | |
|---------|------|------|--|----|-----|-----|--------|
| aaa-TFT | 10.5 | 10.0 | | 10 | 105 | 100 | 70-130 |
|---------|------|------|--|----|-----|-----|--------|

| Analyte | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD Limit |
|--------------|-----------|------------|---------|------------|---------|----------|---------------|-------|-----------|
| TPH(btex) | 69.7 | 70.0 | 60 | ND | 116 | 117 | 70-130 | 0.401 | 20 |
| MTBE | 11.9 | 12.3 | 10 | ND | 119 | 123 | 70-130 | 2.80 | 20 |
| Benzene | 10.8 | 11.0 | 10 | ND | 108 | 110 | 70-130 | 1.64 | 20 |
| Toluene | 10.8 | 10.9 | 10 | ND | 108 | 109 | 70-130 | 1.29 | 20 |
| Ethylbenzene | 10.8 | 10.9 | 10 | ND | 108 | 109 | 70-130 | 1.58 | 20 |
| Xylenes | 32.9 | 33.4 | 30 | ND | 110 | 111 | 70-130 | 1.48 | 20 |

Surrogate Recovery

| | | | | | | | | | |
|---------|------|------|----|--|----|----|--------|---|----|
| aaa-TFT | 9.79 | 9.83 | 10 | | 98 | 98 | 70-130 | 0 | 20 |
|---------|------|------|----|--|----|----|--------|---|----|



Quality Control Report

Client: P & D Environmental

WorkOrder: 1506230

Date Prepared: 6/3/15

BatchID: 105820

Date Analyzed: 6/4/15

Extraction Method: SW3510C

Instrument: GC6B, GC9a

Analytical Method: SW8015B

Matrix: Water

Unit: µg/L

Project: #0398; Auto Depot 4171 Broadway Oakland, CA

Sample ID: MB/LCS-105820

QC Report for SW8015B w/out SG Clean-Up

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|---------------------------|-----------|------------|-----|---------|------------|----------|------------|
| TPH-Diesel (C10-C23) | ND | 757 | 50 | 1000 | - | 76 | 61-157 |
| TPH-Motor Oil (C18-C36) | ND | - | 250 | - | - | - | - |
| Surrogate Recovery | | | | | | | |
| C9 | 672 | 690 | | 625 | 107 | 110 | 70-134 |

1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1506230

ClientCode: PDEO

WaterTrax
 WriteOn
 EDF
 Excel
 EQUIS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:
 Michael Deschenes
 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
 Oakland, CA

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

Requested TAT: 5 days

Date Received: 06/04/2015
Date Printed: 06/04/2015

| 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 | |
| 1506230-001 | B4A-W | Water | 6/3/2015 7:30 | <input type="checkbox"/> | B | C | A | A | | | | | | | | | |
| 1506230-002 | B8-W | Water | 6/2/2015 8:30 | <input type="checkbox"/> | B | | A | A | | | | | | | | | |
| 1506230-003 | B9-W | Water | 6/2/2015 10:15 | <input type="checkbox"/> | B | | A | A | | | | | | | | | |
| 1506230-004 | B12-W | Water | 6/2/2015 11:30 | <input type="checkbox"/> | B | | A | A | | | | | | | | | |
| 1506230-005 | B-13-W | Water | 6/2/2015 13:15 | <input type="checkbox"/> | B | | A | A | | | | | | | | | |
| 1506230-006 | B-14-W | Water | 6/3/2015 10:00 | <input type="checkbox"/> | B | | A | A | | | | | | | | | |
| 1506230-007 | B15-W | Water | 6/3/2015 13:00 | <input type="checkbox"/> | B | | A | A | | | | | | | | | |

Test Legend:

| | | | | | | | | | |
|----|---------|----|--------|---|-----------|---|------------|----|--|
| 1 | 8260B_W | 2 | 8270_W | 3 | G-MBTEX_W | 4 | TPH(DMO)_W | 5 | |
| 6 | | 7 | | 8 | | 9 | | 10 | |
| 11 | | 12 | | | | | | | |

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

Prepared by: Agustina 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.



WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL

QC Level: LEVEL 2

Work Order: 1506230

Project: #0398; Auto Depot 4171 Broadway Oakland, CA

Client Contact: Michael Deschenes

Date Received: 6/4/2015

Comments:

Contact's Email: lab@pdenviro.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

| Lab ID | Client ID | Matrix | Test Name | Containers /Composites | Bottle & Preservative | De-chlorinated | Collection Date & Time | TAT | Sediment Content | Hold | SubOut |
|--------------|-----------|--------|-------------------------|------------------------|--------------------------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1506230-001A | B4A-W | Water | Multi-Range TPH(g,d,mo) | 3 | 2 VOAs w/HCL + 2-aVOAs (multi-range) | <input type="checkbox"/> | 6/3/2015 7:30 | 5 days | Present | <input type="checkbox"/> | |
| 1506230-001B | B4A-W | Water | SW8260B (VOCs) | 1 | VOA w/ HCl | <input type="checkbox"/> | 6/3/2015 7:30 | 5 days | Present | <input type="checkbox"/> | |
| 1506230-001C | B4A-W | Water | SW8270C (SVOCs) | 2 | aVOA | <input type="checkbox"/> | 6/3/2015 7:30 | 5 days | Present | <input type="checkbox"/> | |
| 1506230-002A | B8-W | Water | Multi-Range TPH(g,d,mo) | 4 | 2 VOAs w/HCL + 2-aVOAs (multi-range) | <input type="checkbox"/> | 6/2/2015 8:30 | 5 days | Present | <input type="checkbox"/> | |
| 1506230-002B | B8-W | Water | SW8260B (VOCs) | 1 | VOA w/ HCl | <input type="checkbox"/> | 6/2/2015 8:30 | 5 days | Present | <input type="checkbox"/> | |
| 1506230-003A | B9-W | Water | Multi-Range TPH(g,d,mo) | 4 | 2 VOAs w/HCL + 2-aVOAs (multi-range) | <input type="checkbox"/> | 6/2/2015 10:15 | 5 days | Present | <input type="checkbox"/> | |
| 1506230-003B | B9-W | Water | SW8260B (VOCs) | 1 | VOA w/ HCl | <input type="checkbox"/> | 6/2/2015 10:15 | 5 days | Present | <input type="checkbox"/> | |
| 1506230-004A | B12-W | Water | Multi-Range TPH(g,d,mo) | 4 | 2 VOAs w/HCL + 2-aVOAs (multi-range) | <input type="checkbox"/> | 6/2/2015 11:30 | 5 days | Present | <input type="checkbox"/> | |
| 1506230-004B | B12-W | Water | SW8260B (VOCs) | 1 | VOA w/ HCl | <input type="checkbox"/> | 6/2/2015 11:30 | 5 days | Present | <input type="checkbox"/> | |
| 1506230-005A | B-13-W | Water | Multi-Range TPH(g,d,mo) | 4 | 2 VOAs w/HCL + 2-aVOAs (multi-range) | <input type="checkbox"/> | 6/2/2015 13:15 | 5 days | Present | <input type="checkbox"/> | |
| 1506230-005B | B-13-W | Water | SW8260B (VOCs) | 1 | VOA w/ HCl | <input type="checkbox"/> | 6/2/2015 13:15 | 5 days | Present | <input type="checkbox"/> | |
| 1506230-006A | B-14-W | Water | Multi-Range TPH(g,d,mo) | 4 | 2 VOAs w/HCL + 2-aVOAs (multi-range) | <input type="checkbox"/> | 6/3/2015 10:00 | 5 days | Present | <input type="checkbox"/> | |
| 1506230-006B | B-14-W | Water | SW8260B (VOCs) | 1 | VOA w/ HCl | <input type="checkbox"/> | 6/3/2015 10:00 | 5 days | Present | <input type="checkbox"/> | |
| 1506230-007A | B15-W | Water | Multi-Range TPH(g,d,mo) | 4 | 2 VOAs w/HCL + 2-aVOAs (multi-range) | <input type="checkbox"/> | 6/3/2015 13:00 | 5 days | Present | <input type="checkbox"/> | |

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: P & D ENVIRONMENTAL

QC Level: LEVEL 2

Work Order: 1506230

Project: #0398; Auto Depot 4171 Broadway Oakland, CA

Client Contact: Michael Deschenes

Date Received: 6/4/2015

Comments:

Contact's Email: lab@pdenviro.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

| Lab ID | Client ID | Matrix | Test Name | Containers /Composites | Bottle & Preservative | De-chlorinated | Collection Date & Time | TAT | Sediment Content | Hold | SubOut |
|--------------|-----------|--------|----------------|------------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1506230-007B | B15-W | Water | SW8260B (VOCs) | 1 | VOA w/ HCl | <input type="checkbox"/> | 6/3/2015 13:00 | 5 days | Present | <input type="checkbox"/> | |

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

CHAIN OF CUSTODY RECORD

1506230

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

NUMBER OF CONTAINERS

ANALYSIS(ES):
TTH (G.D.M.O)
EPA 8260

VOLATILES AND
LEAD SCAVENGERS:
EPA 8270

PRESERVATIVE

REMARKS

SAMPLED BY: (PRINTED & SIGNATURE)

MICHAEL BASS-DESCHENES

| SAMPLE NUMBER | DATE | TIME | TYPE | SAMPLE LOCATION |
|---|--|--|---------------------------------------|-----------------|
| B4A-W | 6-3-15 | 0730 | H2O | |
| B8-W | 6-2-15 | 0830 | | |
| B9-W | 6-2-15 | 1015 | | |
| B12-W | 6-3-15 | 1130 | | |
| B13-W | 6-2-15 | 1315 | | |
| B14-W | 6-3-15 | 1000 | | |
| B15-W | 6-3-15 | 1300 | ↓ | |

6
5
5
5
5
5
5

X
X
X
X
X
X
X

X
X
X
X
X
X
X

X
X
X
X
X
X
X

X
X
X
X
X
X
X

X
X
X
X
X
X
X

X
X
X
X
X
X
X

X
X
X
X
X
X
X

X
X
X
X
X
X
X

X
X
X
X
X
X
X

X
X
X
X
X
X
X

X
X
X
X
X
X
X

X
X
X
X
X
X
X

X
X
X
X
X
X
X

X
X
X
X
X
X
X

X
X
X
X
X
X
X

X
X
X
X
X
X
X

X
X
X
X
X
X
X

X
X
X
X
X
X
X

X
X
X
X
X
X
X

+
+
+
+
+
+
+

ICE NORMAL TAT

ICE ft. 3.5
 GOOD CONDITION APPROPRIATE
 HEAD SPACE/ABSENT CONTAINERS
 DECHLORINATED IN LAB PRESERVED IN LAB
 PRESERVATION VOAS O&G METALS OTHER

RELINQUISHED BY: (SIGNATURE)

DATE TIME
6-4-15 1400

RECEIVED BY: (SIGNATURE)

Total No. of Samples (This Shipment) 7
 Total No. of Containers (This Shipment) 36

LABORATORY:
McCAMPBELL ANALYTICAL, INC.

RELINQUISHED BY: (SIGNATURE)

DATE TIME
6-4-15 1500

RECEIVED BY: (SIGNATURE)

LABORATORY CONTACT: ANGELA RYDELIUS
 LABORATORY PHONE NUMBER: (877) 252-9262

RELINQUISHED BY: (SIGNATURE)

DATE TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)

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

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

REMARKS: 3 VOAs PRESERVED WITH
 2 VOAs AMBER UNPRESERVED
 ADDITIONAL 1 VOA AMBER UNPRESERVED FOR EPA 8270 AT B4A



Sample Receipt Checklist

Client Name: **P & D Environmental** Date and Time Received: **6/4/2015 5:07:07 PM**
 Project Name: **#0398; Auto Depot 4171 Broadway Oakland, CA** LogIn Reviewed by: **Agustina Venegas**
 WorkOrder No: **1506230** Matrix: Water Carrier: Bernie Cummins (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
 Sample/Temp Blank temperature 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: <2; 522: <4; 218.7: >8)? Yes No NA
 Samples Received on Ice? Yes No

(Ice Type: WET ICE)

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522? Yes No NA
 Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539? Yes No NA

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

 Comments:

7/6/2015
Mr. Paul King
P & D Environmental
55 Santa Clara
Suite 240
Oakland CA 94610

Project Name: Auto Depot 4171 Broadway Oakland, CA
Project #: 0398
Workorder #: 1506420

Dear Mr. Paul King

The following report includes the data for the above referenced project for sample(s) received on 6/22/2015 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kyle Vagadori
Project Manager

WORK ORDER #: 1506420

Work Order Summary

| | | | |
|------------------------|--|------------------|--|
| CLIENT: | Mr. Paul King P & D Environmental 55 Santa Clara Suite 240 Oakland, CA 94610 | BILL TO: | Mr. Paul King P & D Environmental 55 Santa Clara Suite 240 Oakland, CA 94610 |
| PHONE: | 510-658-6916 | P.O. # | |
| FAX: | 510-834-0772 | PROJECT # | 0398 Auto Depot 4171 Broadway |
| DATE RECEIVED: | 06/22/2015 | CONTACT: | Oakland, CA . Kyle Vagadori |
| DATE COMPLETED: | 07/06/2015 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|-------------|-------------|-------------------------------|---------------------------|
| 01A | SG1 | TO-15 | 5.3 "Hg | 14.8 psi |
| 02A | SG1-DUP | TO-15 | 5.3 "Hg | 15 psi |
| 03A | Lab Blank | TO-15 | NA | NA |
| 04A | CCV | TO-15 | NA | NA |
| 05A | LCS | TO-15 | NA | NA |
| 05AA | LCSD | TO-15 | NA | NA |

CERTIFIED BY: 

 Technical Director

DATE: 07/06/15

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
 TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.

Eurofins Air Toxics Inc. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
P & D Environmental
Workorder# 1506420

Two 1 Liter Summa Canister samples were received on June 22, 2015. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The reported CCV for each daily batch may be derived from more than one analytical file due to the client's request for non-standard compounds. Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

A single point calibration for TPH referenced to Gasoline was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

Dilution was performed on samples SG1 and SG1-DUP due to the presence of high level target species.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds EPA METHOD TO-15 GC/MS

Client Sample ID: SG1

Lab ID#: 1506420-01A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Hexane | 1200 | 990000 | 4300 | 3500000 |
| Cyclohexane | 1200 | 560000 | 4200 | 1900000 |
| 2,2,4-Trimethylpentane | 1200 | 1200000 | 5700 | 5700000 |
| Benzene | 1200 | 6100 | 3900 | 19000 |
| Heptane | 1200 | 220000 | 5000 | 890000 |
| Cumene | 1200 | 1600 | 6000 | 8000 |
| Propylbenzene | 1200 | 2700 | 6000 | 13000 |
| 1,1-Difluoroethane | 2400 | 12000 | 6600 | 33000 |
| TPH ref. to Gasoline (MW=100) | 49000 | 35000000 | 200000 | 140000000 |

Client Sample ID: SG1-DUP

Lab ID#: 1506420-02A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-------------------------------|----------------------|------------------|-----------------------|-------------------|
| Hexane | 1200 | 980000 | 4300 | 3500000 |
| Cyclohexane | 1200 | 550000 | 4200 | 1900000 |
| 2,2,4-Trimethylpentane | 1200 | 1200000 | 5700 | 5600000 |
| Benzene | 1200 | 6000 | 3900 | 19000 |
| Heptane | 1200 | 210000 | 5000 | 880000 |
| Cumene | 1200 | 1400 | 6000 | 6700 |
| Propylbenzene | 1200 | 2000 | 6000 | 10000 |
| TPH ref. to Gasoline (MW=100) | 49000 | 36000000 | 200000 | 140000000 |



Air Toxics

Client Sample ID: SG1

Lab ID#: 1506420-01A

EPA METHOD TO-15 GC/MS

| | | | |
|--------------|----------|---------------------|---------------------|
| File Name: | 14062621 | Date of Collection: | 6/22/15 10:42:00 AM |
| Dil. Factor: | 244 | Date of Analysis: | 6/26/15 03:29 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|-------------------|---------------|--------------------|----------------|
| Freon 12 | 1200 | Not Detected | 6000 | Not Detected |
| Freon 114 | 1200 | Not Detected | 8500 | Not Detected |
| Chloromethane | 4900 | Not Detected | 10000 | Not Detected |
| Vinyl Chloride | 1200 | Not Detected | 3100 | Not Detected |
| 1,3-Butadiene | 1200 | Not Detected | 2700 | Not Detected |
| Bromomethane | 1200 | Not Detected | 4700 | Not Detected |
| Chloroethane | 4900 | Not Detected | 13000 | Not Detected |
| Freon 11 | 1200 | Not Detected | 6800 | Not Detected |
| Ethanol | 4900 | Not Detected | 9200 | Not Detected |
| Freon 113 | 1200 | Not Detected | 9400 | Not Detected |
| 1,1-Dichloroethene | 1200 | Not Detected | 4800 | Not Detected |
| Acetone | 4900 | Not Detected | 12000 | Not Detected |
| 2-Propanol | 4900 | Not Detected | 12000 | Not Detected |
| Carbon Disulfide | 1200 | Not Detected | 3800 | Not Detected |
| 3-Chloropropene | 4900 | Not Detected | 15000 | Not Detected |
| Methylene Chloride | 1200 | Not Detected | 4200 | Not Detected |
| Methyl tert-butyl ether | 1200 | Not Detected | 4400 | Not Detected |
| trans-1,2-Dichloroethene | 1200 | Not Detected | 4800 | Not Detected |
| Hexane | 1200 | 990000 | 4300 | 3500000 |
| 1,1-Dichloroethane | 1200 | Not Detected | 4900 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 4900 | Not Detected | 14000 | Not Detected |
| cis-1,2-Dichloroethene | 1200 | Not Detected | 4800 | Not Detected |
| Tetrahydrofuran | 1200 | Not Detected | 3600 | Not Detected |
| Chloroform | 1200 | Not Detected | 6000 | Not Detected |
| 1,1,1-Trichloroethane | 1200 | Not Detected | 6600 | Not Detected |
| Cyclohexane | 1200 | 560000 | 4200 | 1900000 |
| Carbon Tetrachloride | 1200 | Not Detected | 7700 | Not Detected |
| 2,2,4-Trimethylpentane | 1200 | 1200000 | 5700 | 5700000 |
| Benzene | 1200 | 6100 | 3900 | 19000 |
| 1,2-Dichloroethane | 1200 | Not Detected | 4900 | Not Detected |
| Heptane | 1200 | 220000 | 5000 | 890000 |
| Trichloroethene | 1200 | Not Detected | 6600 | Not Detected |
| 1,2-Dichloropropane | 1200 | Not Detected | 5600 | Not Detected |
| 1,4-Dioxane | 4900 | Not Detected | 18000 | Not Detected |
| Bromodichloromethane | 1200 | Not Detected | 8200 | Not Detected |
| cis-1,3-Dichloropropene | 1200 | Not Detected | 5500 | Not Detected |
| 4-Methyl-2-pentanone | 1200 | Not Detected | 5000 | Not Detected |
| Toluene | 1200 | Not Detected | 4600 | Not Detected |
| trans-1,3-Dichloropropene | 1200 | Not Detected | 5500 | Not Detected |
| 1,1,2-Trichloroethane | 1200 | Not Detected | 6600 | Not Detected |
| Tetrachloroethene | 1200 | Not Detected | 8300 | Not Detected |
| 2-Hexanone | 4900 | Not Detected | 20000 | Not Detected |



Client Sample ID: SG1

Lab ID#: 1506420-01A

EPA METHOD TO-15 GC/MS

| | | | |
|--------------|----------|---------------------|---------------------|
| File Name: | 14062621 | Date of Collection: | 6/22/15 10:42:00 AM |
| Dil. Factor: | 244 | Date of Analysis: | 6/26/15 03:29 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-------------------------------|-------------------|---------------|--------------------|----------------|
| Dibromochloromethane | 1200 | Not Detected | 10000 | Not Detected |
| 1,2-Dibromoethane (EDB) | 1200 | Not Detected | 9400 | Not Detected |
| Chlorobenzene | 1200 | Not Detected | 5600 | Not Detected |
| Ethyl Benzene | 1200 | Not Detected | 5300 | Not Detected |
| m,p-Xylene | 1200 | Not Detected | 5300 | Not Detected |
| o-Xylene | 1200 | Not Detected | 5300 | Not Detected |
| Styrene | 1200 | Not Detected | 5200 | Not Detected |
| Bromoform | 1200 | Not Detected | 13000 | Not Detected |
| Cumene | 1200 | 1600 | 6000 | 8000 |
| 1,1,2,2-Tetrachloroethane | 1200 | Not Detected | 8400 | Not Detected |
| Propylbenzene | 1200 | 2700 | 6000 | 13000 |
| 4-Ethyltoluene | 1200 | Not Detected | 6000 | Not Detected |
| 1,3,5-Trimethylbenzene | 1200 | Not Detected | 6000 | Not Detected |
| 1,2,4-Trimethylbenzene | 1200 | Not Detected | 6000 | Not Detected |
| 1,3-Dichlorobenzene | 1200 | Not Detected | 7300 | Not Detected |
| 1,4-Dichlorobenzene | 1200 | Not Detected | 7300 | Not Detected |
| alpha-Chlorotoluene | 1200 | Not Detected | 6300 | Not Detected |
| 1,2-Dichlorobenzene | 1200 | Not Detected | 7300 | Not Detected |
| 1,2,4-Trichlorobenzene | 4900 | Not Detected | 36000 | Not Detected |
| Hexachlorobutadiene | 4900 | Not Detected | 52000 | Not Detected |
| 1,1-Difluoroethane | 2400 | 12000 | 6600 | 33000 |
| TPH ref. to Gasoline (MW=100) | 49000 | 35000000 | 200000 | 140000000 |

Container Type: 1 Liter Summa Canister

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 114 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |



Air Toxics

Client Sample ID: SG1-DUP

Lab ID#: 1506420-02A

EPA METHOD TO-15 GC/MS

| | | | |
|--------------|----------|---------------------|---------------------|
| File Name: | 14062622 | Date of Collection: | 6/22/15 10:42:00 AM |
| Dil. Factor: | 245 | Date of Analysis: | 6/26/15 03:52 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|-------------------|---------------|--------------------|----------------|
| Freon 12 | 1200 | Not Detected | 6000 | Not Detected |
| Freon 114 | 1200 | Not Detected | 8600 | Not Detected |
| Chloromethane | 4900 | Not Detected | 10000 | Not Detected |
| Vinyl Chloride | 1200 | Not Detected | 3100 | Not Detected |
| 1,3-Butadiene | 1200 | Not Detected | 2700 | Not Detected |
| Bromomethane | 1200 | Not Detected | 4800 | Not Detected |
| Chloroethane | 4900 | Not Detected | 13000 | Not Detected |
| Freon 11 | 1200 | Not Detected | 6900 | Not Detected |
| Ethanol | 4900 | Not Detected | 9200 | Not Detected |
| Freon 113 | 1200 | Not Detected | 9400 | Not Detected |
| 1,1-Dichloroethene | 1200 | Not Detected | 4800 | Not Detected |
| Acetone | 4900 | Not Detected | 12000 | Not Detected |
| 2-Propanol | 4900 | Not Detected | 12000 | Not Detected |
| Carbon Disulfide | 1200 | Not Detected | 3800 | Not Detected |
| 3-Chloropropene | 4900 | Not Detected | 15000 | Not Detected |
| Methylene Chloride | 1200 | Not Detected | 4200 | Not Detected |
| Methyl tert-butyl ether | 1200 | Not Detected | 4400 | Not Detected |
| trans-1,2-Dichloroethene | 1200 | Not Detected | 4800 | Not Detected |
| Hexane | 1200 | 980000 | 4300 | 3500000 |
| 1,1-Dichloroethane | 1200 | Not Detected | 5000 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 4900 | Not Detected | 14000 | Not Detected |
| cis-1,2-Dichloroethene | 1200 | Not Detected | 4800 | Not Detected |
| Tetrahydrofuran | 1200 | Not Detected | 3600 | Not Detected |
| Chloroform | 1200 | Not Detected | 6000 | Not Detected |
| 1,1,1-Trichloroethane | 1200 | Not Detected | 6700 | Not Detected |
| Cyclohexane | 1200 | 550000 | 4200 | 1900000 |
| Carbon Tetrachloride | 1200 | Not Detected | 7700 | Not Detected |
| 2,2,4-Trimethylpentane | 1200 | 1200000 | 5700 | 5600000 |
| Benzene | 1200 | 6000 | 3900 | 19000 |
| 1,2-Dichloroethane | 1200 | Not Detected | 5000 | Not Detected |
| Heptane | 1200 | 210000 | 5000 | 880000 |
| Trichloroethene | 1200 | Not Detected | 6600 | Not Detected |
| 1,2-Dichloropropane | 1200 | Not Detected | 5700 | Not Detected |
| 1,4-Dioxane | 4900 | Not Detected | 18000 | Not Detected |
| Bromodichloromethane | 1200 | Not Detected | 8200 | Not Detected |
| cis-1,3-Dichloropropene | 1200 | Not Detected | 5600 | Not Detected |
| 4-Methyl-2-pentanone | 1200 | Not Detected | 5000 | Not Detected |
| Toluene | 1200 | Not Detected | 4600 | Not Detected |
| trans-1,3-Dichloropropene | 1200 | Not Detected | 5600 | Not Detected |
| 1,1,2-Trichloroethane | 1200 | Not Detected | 6700 | Not Detected |
| Tetrachloroethene | 1200 | Not Detected | 8300 | Not Detected |
| 2-Hexanone | 4900 | Not Detected | 20000 | Not Detected |



Client Sample ID: SG1-DUP

Lab ID#: 1506420-02A

EPA METHOD TO-15 GC/MS

| | | | |
|--------------|----------|---------------------|---------------------|
| File Name: | 14062622 | Date of Collection: | 6/22/15 10:42:00 AM |
| Dil. Factor: | 245 | Date of Analysis: | 6/26/15 03:52 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-------------------------------|-------------------|---------------|--------------------|----------------|
| Dibromochloromethane | 1200 | Not Detected | 10000 | Not Detected |
| 1,2-Dibromoethane (EDB) | 1200 | Not Detected | 9400 | Not Detected |
| Chlorobenzene | 1200 | Not Detected | 5600 | Not Detected |
| Ethyl Benzene | 1200 | Not Detected | 5300 | Not Detected |
| m,p-Xylene | 1200 | Not Detected | 5300 | Not Detected |
| o-Xylene | 1200 | Not Detected | 5300 | Not Detected |
| Styrene | 1200 | Not Detected | 5200 | Not Detected |
| Bromoform | 1200 | Not Detected | 13000 | Not Detected |
| Cumene | 1200 | 1400 | 6000 | 6700 |
| 1,1,2,2-Tetrachloroethane | 1200 | Not Detected | 8400 | Not Detected |
| Propylbenzene | 1200 | 2000 | 6000 | 10000 |
| 4-Ethyltoluene | 1200 | Not Detected | 6000 | Not Detected |
| 1,3,5-Trimethylbenzene | 1200 | Not Detected | 6000 | Not Detected |
| 1,2,4-Trimethylbenzene | 1200 | Not Detected | 6000 | Not Detected |
| 1,3-Dichlorobenzene | 1200 | Not Detected | 7400 | Not Detected |
| 1,4-Dichlorobenzene | 1200 | Not Detected | 7400 | Not Detected |
| alpha-Chlorotoluene | 1200 | Not Detected | 6300 | Not Detected |
| 1,2-Dichlorobenzene | 1200 | Not Detected | 7400 | Not Detected |
| 1,2,4-Trichlorobenzene | 4900 | Not Detected | 36000 | Not Detected |
| Hexachlorobutadiene | 4900 | Not Detected | 52000 | Not Detected |
| 1,1-Difluoroethane | 2400 | Not Detected | 6600 | Not Detected |
| TPH ref. to Gasoline (MW=100) | 49000 | 36000000 | 200000 | 140000000 |

Container Type: 1 Liter Summa Canister

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 112 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 100 | 70-130 |



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1506420-03A

EPA METHOD TO-15 GC/MS

| | | | |
|--------------|-----------|---------------------|------------------|
| File Name: | 14062607c | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 6/26/15 09:26 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|-------------------|---------------|--------------------|----------------|
| Freon 12 | 5.0 | Not Detected | 25 | Not Detected |
| Freon 114 | 5.0 | Not Detected | 35 | Not Detected |
| Chloromethane | 20 | Not Detected | 41 | Not Detected |
| Vinyl Chloride | 5.0 | Not Detected | 13 | Not Detected |
| 1,3-Butadiene | 5.0 | Not Detected | 11 | Not Detected |
| Bromomethane | 5.0 | Not Detected | 19 | Not Detected |
| Chloroethane | 20 | Not Detected | 53 | Not Detected |
| Freon 11 | 5.0 | Not Detected | 28 | Not Detected |
| Ethanol | 20 | Not Detected | 38 | Not Detected |
| Freon 113 | 5.0 | Not Detected | 38 | Not Detected |
| 1,1-Dichloroethene | 5.0 | Not Detected | 20 | Not Detected |
| Acetone | 20 | Not Detected | 48 | Not Detected |
| 2-Propanol | 20 | Not Detected | 49 | Not Detected |
| Carbon Disulfide | 5.0 | Not Detected | 16 | Not Detected |
| 3-Chloropropene | 20 | Not Detected | 63 | Not Detected |
| Methylene Chloride | 5.0 | Not Detected | 17 | Not Detected |
| Methyl tert-butyl ether | 5.0 | Not Detected | 18 | Not Detected |
| trans-1,2-Dichloroethene | 5.0 | Not Detected | 20 | Not Detected |
| Hexane | 5.0 | Not Detected | 18 | Not Detected |
| 1,1-Dichloroethane | 5.0 | Not Detected | 20 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 20 | Not Detected | 59 | Not Detected |
| cis-1,2-Dichloroethene | 5.0 | Not Detected | 20 | Not Detected |
| Tetrahydrofuran | 5.0 | Not Detected | 15 | Not Detected |
| Chloroform | 5.0 | Not Detected | 24 | Not Detected |
| 1,1,1-Trichloroethane | 5.0 | Not Detected | 27 | Not Detected |
| Cyclohexane | 5.0 | Not Detected | 17 | Not Detected |
| Carbon Tetrachloride | 5.0 | Not Detected | 31 | Not Detected |
| 2,2,4-Trimethylpentane | 5.0 | Not Detected | 23 | Not Detected |
| Benzene | 5.0 | Not Detected | 16 | Not Detected |
| 1,2-Dichloroethane | 5.0 | Not Detected | 20 | Not Detected |
| Heptane | 5.0 | Not Detected | 20 | Not Detected |
| Trichloroethene | 5.0 | Not Detected | 27 | Not Detected |
| 1,2-Dichloropropane | 5.0 | Not Detected | 23 | Not Detected |
| 1,4-Dioxane | 20 | Not Detected | 72 | Not Detected |
| Bromodichloromethane | 5.0 | Not Detected | 34 | Not Detected |
| cis-1,3-Dichloropropene | 5.0 | Not Detected | 23 | Not Detected |
| 4-Methyl-2-pentanone | 5.0 | Not Detected | 20 | Not Detected |
| Toluene | 5.0 | Not Detected | 19 | Not Detected |
| trans-1,3-Dichloropropene | 5.0 | Not Detected | 23 | Not Detected |
| 1,1,2-Trichloroethane | 5.0 | Not Detected | 27 | Not Detected |
| Tetrachloroethene | 5.0 | Not Detected | 34 | Not Detected |
| 2-Hexanone | 20 | Not Detected | 82 | Not Detected |



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1506420-03A

EPA METHOD TO-15 GC/MS

| | | | |
|--------------|-----------|---------------------|------------------|
| File Name: | 14062607c | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 6/26/15 09:26 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-------------------------------|-------------------|---------------|--------------------|----------------|
| Dibromochloromethane | 5.0 | Not Detected | 42 | Not Detected |
| 1,2-Dibromoethane (EDB) | 5.0 | Not Detected | 38 | Not Detected |
| Chlorobenzene | 5.0 | Not Detected | 23 | Not Detected |
| Ethyl Benzene | 5.0 | Not Detected | 22 | Not Detected |
| m,p-Xylene | 5.0 | Not Detected | 22 | Not Detected |
| o-Xylene | 5.0 | Not Detected | 22 | Not Detected |
| Styrene | 5.0 | Not Detected | 21 | Not Detected |
| Bromoform | 5.0 | Not Detected | 52 | Not Detected |
| Cumene | 5.0 | Not Detected | 24 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 5.0 | Not Detected | 34 | Not Detected |
| Propylbenzene | 5.0 | Not Detected | 24 | Not Detected |
| 4-Ethyltoluene | 5.0 | Not Detected | 24 | Not Detected |
| 1,3,5-Trimethylbenzene | 5.0 | Not Detected | 24 | Not Detected |
| 1,2,4-Trimethylbenzene | 5.0 | Not Detected | 24 | Not Detected |
| 1,3-Dichlorobenzene | 5.0 | Not Detected | 30 | Not Detected |
| 1,4-Dichlorobenzene | 5.0 | Not Detected | 30 | Not Detected |
| alpha-Chlorotoluene | 5.0 | Not Detected | 26 | Not Detected |
| 1,2-Dichlorobenzene | 5.0 | Not Detected | 30 | Not Detected |
| 1,2,4-Trichlorobenzene | 20 | Not Detected | 150 | Not Detected |
| Hexachlorobutadiene | 20 | Not Detected | 210 | Not Detected |
| 1,1-Difluoroethane | 10 | Not Detected | 27 | Not Detected |
| TPH ref. to Gasoline (MW=100) | 200 | Not Detected | 820 | Not Detected |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 98 | 70-130 |



Air Toxics

Client Sample ID: CCV

Lab ID#: 1506420-04A

EPA METHOD TO-15 GC/MS

| | | |
|--------------|----------|------------------------------------|
| File Name: | 14062602 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 6/26/15 06:54 AM |

| Compound | %Recovery |
|----------------------------------|-----------|
| Freon 12 | 106 |
| Freon 114 | 107 |
| Chloromethane | 105 |
| Vinyl Chloride | 102 |
| 1,3-Butadiene | 101 |
| Bromomethane | 101 |
| Chloroethane | 100 |
| Freon 11 | 104 |
| Ethanol | 118 |
| Freon 113 | 109 |
| 1,1-Dichloroethene | 106 |
| Acetone | 108 |
| 2-Propanol | 107 |
| Carbon Disulfide | 108 |
| 3-Chloropropene | 108 |
| Methylene Chloride | 100 |
| Methyl tert-butyl ether | 107 |
| trans-1,2-Dichloroethene | 110 |
| Hexane | 107 |
| 1,1-Dichloroethane | 106 |
| 2-Butanone (Methyl Ethyl Ketone) | 108 |
| cis-1,2-Dichloroethene | 103 |
| Tetrahydrofuran | 109 |
| Chloroform | 105 |
| 1,1,1-Trichloroethane | 105 |
| Cyclohexane | 108 |
| Carbon Tetrachloride | 106 |
| 2,2,4-Trimethylpentane | 107 |
| Benzene | 105 |
| 1,2-Dichloroethane | 102 |
| Heptane | 110 |
| Trichloroethene | 109 |
| 1,2-Dichloropropane | 106 |
| 1,4-Dioxane | 110 |
| Bromodichloromethane | 104 |
| cis-1,3-Dichloropropene | 110 |
| 4-Methyl-2-pentanone | 114 |
| Toluene | 106 |
| trans-1,3-Dichloropropene | 99 |
| 1,1,2-Trichloroethane | 106 |
| Tetrachloroethene | 104 |
| 2-Hexanone | 106 |



Air Toxics

Client Sample ID: CCV

Lab ID#: 1506420-04A

EPA METHOD TO-15 GC/MS

| | | |
|--------------|----------|------------------------------------|
| File Name: | 14062602 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 6/26/15 06:54 AM |

| Compound | %Recovery |
|-------------------------------|-----------|
| Dibromochloromethane | 106 |
| 1,2-Dibromoethane (EDB) | 105 |
| Chlorobenzene | 104 |
| Ethyl Benzene | 106 |
| m,p-Xylene | 107 |
| o-Xylene | 108 |
| Styrene | 111 |
| Bromoform | 104 |
| Cumene | 108 |
| 1,1,2,2-Tetrachloroethane | 94 |
| Propylbenzene | 106 |
| 4-Ethyltoluene | 109 |
| 1,3,5-Trimethylbenzene | 110 |
| 1,2,4-Trimethylbenzene | 108 |
| 1,3-Dichlorobenzene | 101 |
| 1,4-Dichlorobenzene | 100 |
| alpha-Chlorotoluene | 105 |
| 1,2-Dichlorobenzene | 97 |
| 1,2,4-Trichlorobenzene | 77 |
| Hexachlorobutadiene | 81 |
| 1,1-Difluoroethane | 107 |
| TPH ref. to Gasoline (MW=100) | 100 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 96 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 100 | 70-130 |



Air Toxics

Client Sample ID: LCS

Lab ID#: 1506420-05A

EPA METHOD TO-15 GC/MS

| | | |
|--------------|----------|------------------------------------|
| File Name: | 14062603 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 6/26/15 07:21 AM |

| Compound | %Recovery | Method Limits |
|----------------------------------|-----------|---------------|
| Freon 12 | 108 | 70-130 |
| Freon 114 | 110 | 70-130 |
| Chloromethane | 102 | 70-130 |
| Vinyl Chloride | 100 | 70-130 |
| 1,3-Butadiene | 99 | 70-130 |
| Bromomethane | 103 | 70-130 |
| Chloroethane | 109 | 70-130 |
| Freon 11 | 108 | 70-130 |
| Ethanol | 104 | 70-130 |
| Freon 113 | 106 | 70-130 |
| 1,1-Dichloroethene | 106 | 70-130 |
| Acetone | 104 | 70-130 |
| 2-Propanol | 110 | 70-130 |
| Carbon Disulfide | 93 | 70-130 |
| 3-Chloropropene | 99 | 70-130 |
| Methylene Chloride | 99 | 70-130 |
| Methyl tert-butyl ether | 96 | 70-130 |
| trans-1,2-Dichloroethene | 94 | 70-130 |
| Hexane | 106 | 70-130 |
| 1,1-Dichloroethane | 101 | 70-130 |
| 2-Butanone (Methyl Ethyl Ketone) | 106 | 70-130 |
| cis-1,2-Dichloroethene | 110 | 70-130 |
| Tetrahydrofuran | 101 | 70-130 |
| Chloroform | 102 | 70-130 |
| 1,1,1-Trichloroethane | 102 | 70-130 |
| Cyclohexane | 107 | 70-130 |
| Carbon Tetrachloride | 106 | 70-130 |
| 2,2,4-Trimethylpentane | 104 | 70-130 |
| Benzene | 103 | 70-130 |
| 1,2-Dichloroethane | 102 | 70-130 |
| Heptane | 105 | 70-130 |
| Trichloroethene | 106 | 70-130 |
| 1,2-Dichloropropane | 103 | 70-130 |
| 1,4-Dioxane | 113 | 70-130 |
| Bromodichloromethane | 104 | 70-130 |
| cis-1,3-Dichloropropene | 101 | 70-130 |
| 4-Methyl-2-pentanone | 113 | 70-130 |
| Toluene | 104 | 70-130 |
| trans-1,3-Dichloropropene | 97 | 70-130 |
| 1,1,2-Trichloroethane | 103 | 70-130 |
| Tetrachloroethene | 102 | 70-130 |
| 2-Hexanone | 112 | 70-130 |



Client Sample ID: LCS

Lab ID#: 1506420-05A

EPA METHOD TO-15 GC/MS

| | | |
|--------------|----------|------------------------------------|
| File Name: | 14062603 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 6/26/15 07:21 AM |

| Compound | %Recovery | Method Limits |
|-------------------------------|------------|---------------|
| Dibromochloromethane | 106 | 70-130 |
| 1,2-Dibromoethane (EDB) | 103 | 70-130 |
| Chlorobenzene | 101 | 70-130 |
| Ethyl Benzene | 105 | 70-130 |
| m,p-Xylene | 106 | 70-130 |
| o-Xylene | 108 | 70-130 |
| Styrene | 112 | 70-130 |
| Bromoform | 104 | 70-130 |
| Cumene | 108 | 70-130 |
| 1,1,2,2-Tetrachloroethane | 94 | 70-130 |
| Propylbenzene | 107 | 70-130 |
| 4-Ethyltoluene | 109 | 70-130 |
| 1,3,5-Trimethylbenzene | 109 | 70-130 |
| 1,2,4-Trimethylbenzene | 110 | 70-130 |
| 1,3-Dichlorobenzene | 104 | 70-130 |
| 1,4-Dichlorobenzene | 103 | 70-130 |
| alpha-Chlorotoluene | 107 | 70-130 |
| 1,2-Dichlorobenzene | 100 | 70-130 |
| 1,2,4-Trichlorobenzene | 96 | 70-130 |
| Hexachlorobutadiene | 93 | 70-130 |
| 1,1-Difluoroethane | Not Spiked | |
| TPH ref. to Gasoline (MW=100) | Not Spiked | |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 94 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 99 | 70-130 |



Air Toxics

Client Sample ID: LCS D

Lab ID#: 1506420-05AA

EPA METHOD TO-15 GC/MS

| | | | |
|--------------|----------|---------------------|------------------|
| File Name: | 14062604 | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 6/26/15 07:50 AM |

| Compound | %Recovery | Method Limits |
|----------------------------------|-----------|---------------|
| Freon 12 | 108 | 70-130 |
| Freon 114 | 109 | 70-130 |
| Chloromethane | 100 | 70-130 |
| Vinyl Chloride | 102 | 70-130 |
| 1,3-Butadiene | 98 | 70-130 |
| Bromomethane | 107 | 70-130 |
| Chloroethane | 109 | 70-130 |
| Freon 11 | 106 | 70-130 |
| Ethanol | 102 | 70-130 |
| Freon 113 | 108 | 70-130 |
| 1,1-Dichloroethene | 105 | 70-130 |
| Acetone | 105 | 70-130 |
| 2-Propanol | 110 | 70-130 |
| Carbon Disulfide | 94 | 70-130 |
| 3-Chloropropene | 103 | 70-130 |
| Methylene Chloride | 98 | 70-130 |
| Methyl tert-butyl ether | 98 | 70-130 |
| trans-1,2-Dichloroethene | 94 | 70-130 |
| Hexane | 107 | 70-130 |
| 1,1-Dichloroethane | 100 | 70-130 |
| 2-Butanone (Methyl Ethyl Ketone) | 106 | 70-130 |
| cis-1,2-Dichloroethene | 109 | 70-130 |
| Tetrahydrofuran | 102 | 70-130 |
| Chloroform | 101 | 70-130 |
| 1,1,1-Trichloroethane | 103 | 70-130 |
| Cyclohexane | 106 | 70-130 |
| Carbon Tetrachloride | 105 | 70-130 |
| 2,2,4-Trimethylpentane | 105 | 70-130 |
| Benzene | 103 | 70-130 |
| 1,2-Dichloroethane | 100 | 70-130 |
| Heptane | 106 | 70-130 |
| Trichloroethene | 107 | 70-130 |
| 1,2-Dichloropropane | 103 | 70-130 |
| 1,4-Dioxane | 110 | 70-130 |
| Bromodichloromethane | 104 | 70-130 |
| cis-1,3-Dichloropropene | 103 | 70-130 |
| 4-Methyl-2-pentanone | 111 | 70-130 |
| Toluene | 104 | 70-130 |
| trans-1,3-Dichloropropene | 97 | 70-130 |
| 1,1,2-Trichloroethane | 101 | 70-130 |
| Tetrachloroethene | 103 | 70-130 |
| 2-Hexanone | 108 | 70-130 |



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1506420-05AA

EPA METHOD TO-15 GC/MS

| | | |
|--------------|----------|------------------------------------|
| File Name: | 14062604 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 6/26/15 07:50 AM |

| Compound | %Recovery | Method Limits |
|-------------------------------|------------|---------------|
| Dibromochloromethane | 104 | 70-130 |
| 1,2-Dibromoethane (EDB) | 103 | 70-130 |
| Chlorobenzene | 101 | 70-130 |
| Ethyl Benzene | 103 | 70-130 |
| m,p-Xylene | 103 | 70-130 |
| o-Xylene | 110 | 70-130 |
| Styrene | 112 | 70-130 |
| Bromoform | 104 | 70-130 |
| Cumene | 107 | 70-130 |
| 1,1,2,2-Tetrachloroethane | 95 | 70-130 |
| Propylbenzene | 106 | 70-130 |
| 4-Ethyltoluene | 108 | 70-130 |
| 1,3,5-Trimethylbenzene | 110 | 70-130 |
| 1,2,4-Trimethylbenzene | 109 | 70-130 |
| 1,3-Dichlorobenzene | 102 | 70-130 |
| 1,4-Dichlorobenzene | 101 | 70-130 |
| alpha-Chlorotoluene | 108 | 70-130 |
| 1,2-Dichlorobenzene | 100 | 70-130 |
| 1,2,4-Trichlorobenzene | 93 | 70-130 |
| Hexachlorobutadiene | 91 | 70-130 |
| 1,1-Difluoroethane | Not Spiked | |
| TPH ref. to Gasoline (MW=100) | Not Spiked | |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 95 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 100 | 70-130 |

CHAIN OF CUSTODY RECORD

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 Michael Bass-Deschenes

NUMBER OF CONTAINERS

ANALYSIS(ES):
*THG, VAC'S INCLUDING AETEX
DFA (KALBERG) BY TO-15*

PRESERVATIVE

REMARKS

SAMPLE NUMBER

DATE

TIME

TYPE

SAMPLE LOCATION
INITIAL FINAL
VAC VAC PID (PPM)

1 X

1 X

NONE
"

NORMAL TAT
" " "

*OIA
DIA*

*SG1
SG1-DLP*

*6/23/15
"*

*10:42:30
10:43:30
10:44:30*

*21/6AS
"*

*-28.5 -5 222
-29 -5*

Custody Seal Intact?
Y N (None) Temp N/A
END PO

RELINQUISHED BY: (SIGNATURE)

Michael Bass-Deschenes

DATE

TIME

RECEIVED BY: (SIGNATURE)

[Signature]

Total No. of Samples (This Shipment)

3

LABORATORY:

Total No. of Containers (This Shipment)

2

SURETENS/AIR TOXICS LTD.

RELINQUISHED BY: (SIGNATURE)

DATE

TIME

RECEIVED BY: (SIGNATURE)

LABORATORY CONTACT:

LABORATORY PHONE NUMBER:

Kyle Lagadori (800) 985-5955 x1039

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:

1-LITER SUMMA

1506420

7/9/2015

Mr. Paul King

P & D Environmental

55 Santa Clara

Suite 240

Oakland CA 94610

Project Name: Auto Depot 4171 Broadway Oakland, CA

Project #: 0398

Workorder #: 1506395

Dear Mr. Paul King

The following report includes the data for the above referenced project for sample(s) received on 6/22/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-17 VI are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kyle Vagadori

Project Manager

WORK ORDER #: 1506395

Work Order Summary

| | | | |
|------------------------|--|------------------|--|
| CLIENT: | Mr. Paul King P & D Environmental 55 Santa Clara Suite 240 Oakland, CA 94610 | BILL TO: | Mr. Paul King P & D Environmental 55 Santa Clara Suite 240 Oakland, CA 94610 |
| PHONE: | 510-658-6916 | P.O. # | |
| FAX: | 510-834-0772 | PROJECT # | 0398 Auto Depot 4171 Broadway |
| DATE RECEIVED: | 06/22/2015 | CONTACT: | Oakland, CA Kyle Vagadori |
| DATE COMPLETED: | 07/09/2015 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> |
|-------------------|-------------|-------------------|
| 01A | SG1 | Modified TO-17 VI |
| 02A(cancelled) | SG1-REP | Modified TO-17 VI |
| 03A | Lab Blank | Modified TO-17 VI |
| 04A | CCV | Modified TO-17 VI |
| 05A | LCS | Modified TO-17 VI |
| 05AA | LCSD | Modified TO-17 VI |

CERTIFIED BY: 

 Technical Director

DATE: 07/09/15

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
 TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.

Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.
 180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified EPA Method TO-17 (VI Tubes)
P & D Environmental
Workorder# 1506395

Two TO-17 VI Tube samples were received on June 22, 2015. The laboratory performed the analysis via modified EPA Method TO-17 using GC/MS in the full scan mode. TO-17 'VI' sorbent tubes are thermally desorbed onto a secondary trap. The trap is thermally desorbed to elute the components into the GC/MS system for compound separation and detection.

A modification that may be applied to EPA Method TO-17 at the client's discretion is the requirement to transport sorbent tubes at 4 deg C. Laboratory studies demonstrate a high level of stability for VOCs on the TO-17 'VI' tube at room temperature for periods of up to 14 days. Tubes can be shipped to and from the field site at ambient conditions as long as the 14-day sample hold time is upheld. Trip blanks and field surrogate spikes are used as additional control measures to monitor recovery and background contribution during tube transport.

Since the TO-17 VI application significantly extends the scope of target compounds addressed in EPA Method TO-15 and TO-17, the laboratory has implemented several method modifications outlined in the table below. Specific project requirements may over-ride the laboratory modifications.

| <i>Requirement</i> | <i>TO-17</i> | <i>ATL Modifications</i> |
|--------------------------|--|--|
| Initial Calibration | %RSD$\leq 30\%$ with 2 allowed out up to 40% | VOC list: %RSD$\leq 30\%$ with 2 allowed out up to 40% SVOC list: %RSD$\leq 30\%$ with 2 allowed out up to 40% |
| Daily Calibration | %D for each target compound within +/-30%. | Fluorene, Phenanthrene, Anthracene, Fluoranthene, and Pyrene within +/-40%D |
| Audit Accuracy | 70-130% | Second source recovery limits for Fluorene, Phenanthrene, Anthracene, Fluoranthene, and Pyrene = 60-140%. |
| Distributed Volume Pairs | Collection of distributed volume pairs required for monitoring ambient air to insure high quality. | If site is well-characterized or performance previously verified, single tube sampling may be appropriate. Distributed pairs may be impractical for soil gas collection due to configuration and volume constraints. |
| Analytical Precision | $\leq 20\%$ RPD | <math>< 30\%</math> RPD for Fluorene, Phenanthrene, Anthracene, Fluoranthene, and Pyrene. |

Receiving Notes

A Temperature Blank was included with the shipment. Temperature was measured and was not within 4 ± 2 °C. Coolant in the form of blue ice was present. Analysis proceeded.

Analytical Notes

A sampling volume of 0.100 L was used to convert ng to ug/m³ for the associated Lab Blank.

The reported CCV and LCS for each daily batch may be derived from more than one analytical.

Due to extreme matrix interference, 2-Propanol and surrogates 1,2-Dichloroethane-d₄ and Toluene-d₈ in sample SG1 could not be quantitated and were not reported.

Sample SG1 exhibited severe matrix interference impairing the instrument. To prevent further impairment of the instrument, analysis for the duplicate sample SG1-REP was not performed. The client was contacted and SG1-REP was cancelled on 7/9/15.

The TPH pattern in sample SG1 did not resemble that of diesel fuel. The hydrocarbons were distributed in the lighter carbon range of diesel.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in blank (subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds EPA METHOD TO-17

Client Sample ID: SG1

Lab ID#: 1506395-01A

| Compound | Rpt. Limit (ng) | Rpt. Limit (ug/m3) | Amount (ng) | Amount (ug/m3) |
|----------------------------|--------------------|-----------------------|----------------|-------------------|
| TPH (Diesel Range C10-C24) | 1000 | 10000 | 240000 E | 2400000 E |



Air Toxics

Client Sample ID: SG1

Lab ID#: 1506395-01A

EPA METHOD TO-17

| | | | | | |
|--------------|----------|---------------------|----|---------------------|---------------------|
| File Name: | 18070826 | Date of Extraction: | NA | Date of Collection: | 6/22/15 10:51:00 AM |
| Dil. Factor: | 1.00 | | | Date of Analysis: | 7/8/15 12:01 PM |

| Compound | Rpt. Limit (ng) | Rpt. Limit (ug/m3) | Amount (ng) | Amount (ug/m3) |
|----------------------------|-----------------|--------------------|--------------|----------------|
| Naphthalene | 1.0 | 10 | Not Detected | Not Detected |
| TPH (Diesel Range C10-C24) | 1000 | 10000 | 240000 E | 2400000 E |

Air Sample Volume(L): 0.100
E = Exceeds instrument calibration range.

Container Type: TO-17 VI Tube

| Surrogates | %Recovery | Method Limits |
|----------------|-----------|---------------|
| Naphthalene-d8 | 87 | 50-150 |

Client Sample ID: Lab Blank

Lab ID#: 1506395-03A

EPA METHOD TO-17

| | | | |
|---------------------|-----------------|--|-------------------------------|
| File Name: | 18070824 | Date of Extraction: NA | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 7/8/15 10:26 AM | |

| Compound | Rpt. Limit (ng) | Rpt. Limit (ug/m3) | Amount (ng) | Amount (ug/m3) |
|----------------------------|----------------------------|-------------------------------|------------------------|---------------------------|
| 2-Propanol | 49 | 490 | Not Detected | Not Detected |
| Naphthalene | 1.0 | 10 | Not Detected | Not Detected |
| TPH (Diesel Range C10-C24) | 1000 | 10000 | Not Detected | Not Detected |

Air Sample Volume(L): 0.100

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|------------------|--------------------------|
| 1,2-Dichloroethane-d4 | 103 | 50-150 |
| Toluene-d8 | 95 | 50-150 |
| Naphthalene-d8 | 98 | 50-150 |



Air Toxics

Client Sample ID: CCV

Lab ID#: 1506395-04A

EPA METHOD TO-17

| | | | |
|--------------|----------|-----------------------------------|------------------------|
| File Name: | 18070819 | Date of Extraction: NA | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 7/8/15 06:58 AM | |

| Compound | %Recovery |
|----------------------------|-----------|
| 2-Propanol | 139 Q |
| Naphthalene | 94 |
| TPH (Diesel Range C10-C24) | 102 |

Air Sample Volume(L): 1.00

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 109 | 50-150 |
| Toluene-d8 | 96 | 50-150 |
| Naphthalene-d8 | 98 | 50-150 |

Client Sample ID: LCS

Lab ID#: 1506395-05A

EPA METHOD TO-17

| | | | |
|---------------------|-----------------|--|-------------------------------|
| File Name: | 18070820 | Date of Extraction: NA | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 7/8/15 07:40 AM | |

| Compound | %Recovery | Method Limits |
|----------------------------|------------------|----------------------|
| 2-Propanol | 147 Q | 70-130 |
| Naphthalene | 98 | 70-130 |
| TPH (Diesel Range C10-C24) | 104 | 60-140 |

Air Sample Volume(L): 1.00

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|------------------|----------------------|
| 1,2-Dichloroethane-d4 | 82 | 50-150 |
| Toluene-d8 | 95 | 50-150 |
| Naphthalene-d8 | 97 | 50-150 |



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1506395-05AA

EPA METHOD TO-17

| | | | |
|--------------|----------|-----------------------------------|------------------------|
| File Name: | 18070821 | Date of Extraction: NA | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 7/8/15 08:21 AM | |

| Compound | %Recovery | Method Limits |
|----------------------------|------------|---------------|
| 2-Propanol | 142 Q | 70-130 |
| Naphthalene | 97 | 70-130 |
| TPH (Diesel Range C10-C24) | Not Spiked | 60-140 |

Air Sample Volume(L): 1.00

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 107 | 50-150 |
| Toluene-d8 | 95 | 50-150 |
| Naphthalene-d8 | 98 | 50-150 |

7/6/2015
Mr. Paul King
P & D Environmental
55 Santa Clara
Suite 240
Oakland CA 94610

Project Name: Auto Depot 4171 Broadway Oakland, CA
Project #: 0398
Workorder #: 1506394

Dear Mr. Paul King

The following report includes the data for the above referenced project for sample(s) received on 6/22/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 (5&20 ppbv) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kyle Vagadori
Project Manager

WORK ORDER #: 1506394

Work Order Summary

| | | | |
|------------------------|--|------------------|--|
| CLIENT: | Mr. Paul King P & D Environmental 55 Santa Clara Suite 240 Oakland, CA 94610 | BILL TO: | Mr. Paul King P & D Environmental 55 Santa Clara Suite 240 Oakland, CA 94610 |
| PHONE: | 510-658-6916 | P.O. # | |
| FAX: | 510-834-0772 | PROJECT # | 0398 Auto Depot 4171 Broadway |
| DATE RECEIVED: | 06/22/2015 | CONTACT: | Oakland, CA . Kyle Vagadori |
| DATE COMPLETED: | 07/06/2015 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|----------------|---------------------------|-------------------------------|---------------------------|
| 01A | SG1-DFA | Modified TO-15 (5&20 ppbv | Tedlar Bag | Tedlar Bag |
| 02A | SG1-2-PROPANOL | Modified TO-15 (5&20 ppbv | Tedlar Bag | Tedlar Bag |
| 03A | Lab Blank | Modified TO-15 (5&20 ppbv | NA | NA |
| 04A | CCV | Modified TO-15 (5&20 ppbv | NA | NA |
| 05A | LCS | Modified TO-15 (5&20 ppbv | NA | NA |
| 05AA | LCSD | Modified TO-15 (5&20 ppbv | NA | NA |

CERTIFIED BY: 

 Technical Director

DATE: 07/06/15

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
 TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.

Eurofins Air Toxics Inc. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15 Soil Gas
P & D Environmental
Workorder# 1506394

Two Client Tedlar Bag samples were received on June 22, 2015. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 50 mLs of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on samples SG1-DFA and SG1-2-PROPANOL due to the presence of high level target species.

The reported CCV for each daily batch may be derived from more than one analytical file due to the client's request for non-standard compounds. Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

Method TO-15 is validated for samples collected in specially treated canisters. As such, the use of Tedlar bags for sample collection is outside the scope of the method and not recommended for ambient or indoor air samples. It is the responsibility of the data user to determine the usability of TO-15 results generated from Tedlar bags.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

**Summary of Detected Compounds
EPA METHOD TO-15 GC/MS**

Client Sample ID: SG1-DFA

Lab ID#: 1506394-01A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------------------|------------------|-----------------------|-------------------|
| 1,1-Difluoroethane | 500000 | 3300000 | 1400000 | 8900000 |

Client Sample ID: SG1-2-PROPANOL

Lab ID#: 1506394-02A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|------------|----------------------|------------------|-----------------------|-------------------|
| 2-Propanol | 2000 | 330000 | 4900 | 800000 |



Air Toxics

Client Sample ID: SG1-DFA

Lab ID#: 1506394-01A

EPA METHOD TO-15 GC/MS

| | | | | |
|--------------|----------|---------------------|---------------------|--|
| File Name: | 14062439 | Date of Collection: | 6/22/15 10:29:00 AM | |
| Dil. Factor: | 25000 | Date of Analysis: | 6/24/15 08:22 PM | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|-------------------|---------------|--------------------|----------------|
| 1,1-Difluoroethane | 500000 | 3300000 | 1400000 | 8900000 |

Container Type: Client Tedlar Bag

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 96 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 98 | 70-130 |



Air Toxics

Client Sample ID: SG1-2-PROPANOL

Lab ID#: 1506394-02A

EPA METHOD TO-15 GC/MS

| | | | | |
|--------------|----------|---------------------|---------------------|--|
| File Name: | 14062438 | Date of Collection: | 6/22/15 10:47:00 AM | |
| Dil. Factor: | 100 | Date of Analysis: | 6/24/15 08:00 PM | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|------------|-------------------|---------------|--------------------|----------------|
| 2-Propanol | 2000 | 330000 | 4900 | 800000 |

Container Type: Client Tedlar Bag

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 98 | 70-130 |
| 4-Bromofluorobenzene | 97 | 70-130 |



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1506394-03A

EPA METHOD TO-15 GC/MS

| | | | |
|--------------|-----------|---------------------|------------------|
| File Name: | 14062409d | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 6/24/15 07:09 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|-------------------|---------------|--------------------|----------------|
| 2-Propanol | 20 | Not Detected | 49 | Not Detected |
| 1,1-Difluoroethane | 20 | Not Detected | 54 | Not Detected |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 96 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 97 | 70-130 |



Air Toxics

Client Sample ID: CCV

Lab ID#: 1506394-04A

EPA METHOD TO-15 GC/MS

| | | |
|--------------|----------|------------------------------------|
| File Name: | 14062402 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 6/23/15 08:56 PM |

| Compound | %Recovery |
|--------------------|-----------|
| 2-Propanol | 107 |
| 1,1-Difluoroethane | 104 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 94 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 100 | 70-130 |



Air Toxics

Client Sample ID: LCS

Lab ID#: 1506394-05A

EPA METHOD TO-15 GC/MS

| | | |
|--------------|----------|------------------------------------|
| File Name: | 14062403 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 6/23/15 09:17 PM |

| Compound | %Recovery | Method Limits |
|--------------------|------------|---------------|
| 2-Propanol | 114 | 70-130 |
| 1,1-Difluoroethane | Not Spiked | |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 99 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1506394-05AA

EPA METHOD TO-15 GC/MS

| | | |
|--------------|----------|------------------------------------|
| File Name: | 14062404 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 6/23/15 09:43 PM |

| Compound | %Recovery | Method Limits |
|--------------------|------------|---------------|
| 2-Propanol | 111 | 70-130 |
| 1,1-Difluoroethane | Not Spiked | |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |

7/11/2015
Mr. Paul King
P & D Environmental
55 Santa Clara
Suite 240
Oakland CA 94610

Project Name: AUTO DEPOT 4171 Broadway, Oakland
Project #: 0398
Workorder #: 1507084B

Dear Mr. Paul King

The following report includes the data for the above referenced project for sample(s) received on 7/7/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kyle Vagadori
Project Manager

WORK ORDER #: 1507084B

Work Order Summary

CLIENT: Mr. Paul King
P & D Environmental
55 Santa Clara
Suite 240
Oakland, CA 94610

BILL TO: Mr. Paul King
P & D Environmental
55 Santa Clara
Suite 240
Oakland, CA 94610

PHONE: 510-658-6916

P.O. #

FAX: 510-834-0772

PROJECT # 0398 AUTO DEPOT 4171 Broadway,

DATE RECEIVED: 07/07/2015

CONTACT: Oakland
Kyle Vagadori

DATE COMPLETED: 07/11/2015

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|-------------|----------------------|-------------------------------|---------------------------|
| 01A | SG1 | Modified ASTM D-1946 | 6.1 "Hg | 15 psi |
| 02A | Lab Blank | Modified ASTM D-1946 | NA | NA |
| 03A | LCS | Modified ASTM D-1946 | NA | NA |
| 03AA | LCSD | Modified ASTM D-1946 | NA | NA |

CERTIFIED BY:



Technical Director

DATE: 07/11/15

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.

Eurofins Air Toxics Inc. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1946
P & D Environmental
Workorder# 1507084B

One 1 Liter Summa Canister sample was received on July 07, 2015. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

| <i>Requirement</i> | <i>ASTM D-1946</i> | <i>ATL Modifications</i> |
|-------------------------|--|--|
| Calibration | A single point calibration is performed using a reference standard closely matching the composition of the unknown. | A minimum of 5-point calibration curve is performed. Quantitation is based on average Response Factor. |
| Reference Standard | The composition of any reference standard must be known to within 0.01 mol % for any component. | The standards used by ATL are blended to a $\geq 95\%$ accuracy. |
| Sample Injection Volume | Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL. | The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum. |
| Normalization | Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%. | Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix. |
| Precision | Precision requirements established at each concentration level. | Duplicates should agree within 25% RPD for detections $> 5 X$'s the RL. |

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the detection limit.

M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds
MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

Client Sample ID: SG1

Lab ID#: 1507084B-01A

| Compound | Rpt. Limit (%) | Amount (%) |
|-----------------|-----------------------|-------------------|
| Oxygen | 0.25 | 7.9 |
| Methane | 0.00025 | 24 |
| Carbon Dioxide | 0.025 | 8.9 |



Air Toxics

Client Sample ID: SG1

Lab ID#: 1507084B-01A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

| | | | |
|--------------|----------|---------------------|-------------------|
| File Name: | 10070915 | Date of Collection: | 7/7/15 9:08:00 AM |
| Dil. Factor: | 2.54 | Date of Analysis: | 7/9/15 04:28 PM |

| Compound | Rpt. Limit (%) | Amount (%) |
|-----------------|-----------------------|-------------------|
| Oxygen | 0.25 | 7.9 |
| Methane | 0.00025 | 24 |
| Carbon Dioxide | 0.025 | 8.9 |

Container Type: 1 Liter Summa Canister



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1507084B-02A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

| | | |
|--------------|----------|-----------------------------------|
| File Name: | 10070904 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 7/9/15 10:16 AM |

| Compound | Rpt. Limit (%) | Amount (%) |
|-----------------|-----------------------|-------------------|
| Oxygen | 0.10 | Not Detected |
| Methane | 0.00010 | Not Detected |
| Carbon Dioxide | 0.010 | Not Detected |

Container Type: NA - Not Applicable



Air Toxics

Client Sample ID: LCS

Lab ID#: 1507084B-03A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

| | | |
|--------------|----------|-----------------------------------|
| File Name: | 10070902 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 7/9/15 09:20 AM |

| Compound | %Recovery | Method Limits |
|-----------------|------------------|----------------------|
| Oxygen | 98 | 85-115 |
| Methane | 103 | 85-115 |
| Carbon Dioxide | 98 | 85-115 |

Container Type: NA - Not Applicable



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1507084B-03AA

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

| | | | |
|--------------|----------|---------------------|-----------------|
| File Name: | 10070921 | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 7/9/15 09:32 PM |

| Compound | %Recovery | Method Limits |
|-----------------|------------------|----------------------|
| Oxygen | 99 | 85-115 |
| Methane | 102 | 85-115 |
| Carbon Dioxide | 98 | 85-115 |

Container Type: NA - Not Applicable

CHAIN OF CUSTODY RECORD

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 *Michael Bass-Deschenes*

NUMBER OF CONTAINERS

ANALYSIS(ES):
 DFA (TRACER GAS) TO-15
 ASTM D-1946

PRESERVATIVE

REMARKS

SAMPLE NUMBER

DATE

TIME

TYPE

SAMPLE LOCATION

INIT. VAC FINAL VAC DID (PPM)

01A SGI

7/7/15
090300
 090805

Soil
 /EAS

-26 -5 254

1 X X

NONE NORMAL TAT

RELINQUISHED BY: (SIGNATURE)

Michael Bass-Deschenes

DATE TIME
 7-7-15 1158

RECEIVED BY: (SIGNATURE)

[Signature]

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

LABORATORY:

EURYGENS/ANALYTICS, LTD

RELINQUISHED BY: (SIGNATURE)

DATE TIME

RECEIVED BY: (SIGNATURE)

LABORATORY CONTACT:

KYLE VAGADRI

LABORATORY PHONE NUMBER:

(916) 605-3339

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:

1 LITER SLURRY

1507084

7/14/2015
Mr. Paul King
P & D Environmental
55 Santa Clara
Suite 240
Oakland CA 94610

Project Name: AUTO DEPOT 4171 Broadway, Oakland
Project #: 0398
Workorder #: 1507084A

Dear Mr. Paul King

The following report includes the data for the above referenced project for sample(s) received on 7/7/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 (5&20 ppbv) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kyle Vagadori
Project Manager

WORK ORDER #: 1507084A

Work Order Summary

CLIENT: Mr. Paul King
P & D Environmental
55 Santa Clara
Suite 240
Oakland, CA 94610

BILL TO: Mr. Paul King
P & D Environmental
55 Santa Clara
Suite 240
Oakland, CA 94610

PHONE: 510-658-6916

P.O. #

FAX: 510-834-0772

PROJECT # 0398 AUTO DEPOT 4171 Broadway,

DATE RECEIVED: 07/07/2015

CONTACT: Oakland
Kyle Vagadori

DATE COMPLETED: 07/14/2015

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|-------------|---------------------------|-------------------------------|---------------------------|
| 01A | SG1 | Modified TO-15 (5&20 ppbv | 6.1 "Hg | 15 psi |
| 02A | Lab Blank | Modified TO-15 (5&20 ppbv | NA | NA |
| 03A | CCV | Modified TO-15 (5&20 ppbv | NA | NA |

CERTIFIED BY:



Technical Director

DATE: 07/14/15

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.

Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15 Soil Gas
P & D Environmental
Workorder# 1507084A

One 1 Liter Summa Canister sample was received on July 07, 2015. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 50 mLs of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on sample SG1 due to the presence of high level non-target species.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

**Summary of Detected Compounds
EPA METHOD TO-15 GC/MS**

Client Sample ID: SG1

Lab ID#: 1507084A-01A

No Detections Were Found.



Air Toxics

Client Sample ID: SG1

Lab ID#: 1507084A-01A

EPA METHOD TO-15 GC/MS

| | | | |
|--------------|----------|---------------------|-------------------|
| File Name: | 14071407 | Date of Collection: | 7/7/15 9:08:00 AM |
| Dil. Factor: | 254 | Date of Analysis: | 7/14/15 12:57 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|-------------------|---------------|--------------------|----------------|
| 1,1-Difluoroethane | 5100 | Not Detected | 14000 | Not Detected |

Container Type: 1 Liter Summa Canister

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 120 | 70-130 |
| Toluene-d8 | 98 | 70-130 |
| 4-Bromofluorobenzene | 98 | 70-130 |



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1507084A-02A

EPA METHOD TO-15 GC/MS

| | | | |
|--------------|-----------|---------------------|------------------|
| File Name: | 14071406a | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 7/14/15 12:28 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|-------------------|---------------|--------------------|----------------|
| 1,1-Difluoroethane | 20 | Not Detected | 54 | Not Detected |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 98 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 98 | 70-130 |



Air Toxics

Client Sample ID: CCV

Lab ID#: 1507084A-03A

EPA METHOD TO-15 GC/MS

| | | |
|--------------|----------|------------------------------------|
| File Name: | 14071402 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 7/14/15 10:05 AM |

| Compound | %Recovery |
|--------------------|-----------|
| 1,1-Difluoroethane | 102 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 101 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |

CHAIN OF CUSTODY RECORD

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 *Michael Bass-Deschenes*

NUMBER OF CONTAINERS

ANALYSIS(ES):
 DFA (TRACER GAS) TO-15
 ASTM D-1946

PRESERVATIVE

REMARKS

SAMPLE NUMBER

DATE

TIME

TYPE

SAMPLE LOCATION

INIT. VAC. FINAL VAC. DID (PPM)

01A SGI

7/7/15

090300
090805

Soil
Gas

-26 -5 254

1 X X

NONE NORMAL TAT

RELINQUISHED BY: (SIGNATURE)

Michael Bass-Deschenes

DATE

TIME

7-7-15

1158

RECEIVED BY: (SIGNATURE)

[Signature]

Total No. of Samples (This Shipment)

1

Total No. of Containers (This Shipment)

1

LABORATORY:

EURYMIS/AIR TOXICS LTD

RELINQUISHED BY: (SIGNATURE)

RELINQUISHED BY: (SIGNATURE)

DATE

TIME

RECEIVED BY: (SIGNATURE)

RECEIVED FOR LABORATORY BY: (SIGNATURE)

LABORATORY CONTACT:

KYLE VAGARRI

LABORATORY PHONE NUMBER:

(916) 605-3339

SAMPLE ANALYSIS REQUEST SHEET

ATTACHED: () YES (X) NO

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

REMARKS:

1 LITER SUMMA

1507084

7/14/2015
Mr. Paul King
P & D Environmental
55 Santa Clara
Suite 240
Oakland CA 94610

Project Name: AUTO DEPOT 4171 BRIADWAY, OAKLAND, CA
Project #: 0398
Workorder #: 1507077

Dear Mr. Paul King

The following report includes the data for the above referenced project for sample(s) received on 7/7/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 (5&20 ppbv) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kyle Vagadori
Project Manager

WORK ORDER #: 1507077

Work Order Summary

| | | | |
|------------------------|--|------------------|--|
| CLIENT: | Mr. Paul King P & D Environmental 55 Santa Clara Suite 240 Oakland, CA 94610 | BILL TO: | Mr. Paul King P & D Environmental 55 Santa Clara Suite 240 Oakland, CA 94610 |
| PHONE: | 510-658-6916 | P.O. # | |
| FAX: | 510-834-0772 | PROJECT # | 0398 AUTO DEPOT 4171 BRIADWAY, |
| DATE RECEIVED: | 07/07/2015 | CONTACT: | OAKLAND, CA Kyle Vagadori |
| DATE COMPLETED: | 07/14/2015 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|-------------|---------------------------|-------------------------------|---------------------------|
| 01A | SG1-DFA | Modified TO-15 (5&20 ppbv | Tedlar Bag | Tedlar Bag |
| 02A | Lab Blank | Modified TO-15 (5&20 ppbv | NA | NA |
| 03A | CCV | Modified TO-15 (5&20 ppbv | NA | NA |

CERTIFIED BY: 

 Technical Director

DATE: 07/14/15

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
 TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.

Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
P & D Environmental
Workorder# 1507077

One 1 Liter Tedlar Bag sample was received on July 07, 2015. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on sample SG1-DFA due to the presence of high level target species.

Method TO-15 is validated for samples collected in specially treated canisters. As such, the use of Tedlar bags for sample collection is outside the scope of the method and not recommended for ambient or indoor air samples. It is the responsibility of the data user to determine the usability of TO-15 results generated from Tedlar bags.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

**Summary of Detected Compounds
EPA METHOD TO-15 GC/MS**

Client Sample ID: SG1-DFA

Lab ID#: 1507077-01A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|------------------------------|--------------------------|-------------------------------|---------------------------|
| 1,1-Difluoroethane | 200000 | 8300000 | 540000 | 22000000 |



Air Toxics

Client Sample ID: SG1-DFA

Lab ID#: 1507077-01A

EPA METHOD TO-15 GC/MS

| | | | |
|--------------|----------|---------------------|-------------------|
| File Name: | 14070922 | Date of Collection: | 7/7/15 9:04:00 AM |
| Dil. Factor: | 10000 | Date of Analysis: | 7/9/15 06:37 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|-------------------|---------------|--------------------|----------------|
| 1,1-Difluoroethane | 200000 | 8300000 | 540000 | 22000000 |

Container Type: 1 Liter Tedlar Bag

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 98 | 70-130 |



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1507077-02A

EPA METHOD TO-15 GC/MS

| | | | |
|--------------|----------|---------------------|-----------------|
| File Name: | 14070906 | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 7/9/15 11:33 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|-------------------|---------------|--------------------|----------------|
| 1,1-Difluoroethane | 20 | Not Detected | 54 | Not Detected |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 98 | 70-130 |



Air Toxics

Client Sample ID: CCV

Lab ID#: 1507077-03A

EPA METHOD TO-15 GC/MS

| | | |
|--------------|----------|-----------------------------------|
| File Name: | 14070902 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 7/9/15 09:31 AM |

| Compound | %Recovery |
|----------|-----------|
|----------|-----------|

| | |
|--------------------|----|
| 1,1-Difluoroethane | 95 |
|--------------------|----|

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 100 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 99 | 70-130 |

APPENDIX F

DTSC JE Soil Gas Model Risk and Hazard Calculation Work Sheets

USEPA SG-SCREEN
Version 2.0, 04/2003
DTSC Modification
December 2014

Department of Toxic Substances Control Vapor Intrusion Screening Model - Soil Gas

Scenario: Commercial
Chemical: TPH-Gasoline

DATA ENTRY SHEET

Reset to Defaults

| Results Summary | | | | |
|--|----------------------------------|--|-------------|------------------|
| Soil Gas Conc. ($\mu\text{g}/\text{m}^3$) | Attenuation Factor (unitless) | Indoor Air Conc. ($\mu\text{g}/\text{m}^3$) | Cancer Risk | Noncancer Hazard |
| 1.40E+08 | 2.5E-04 | 3.5E+04 | NA | 1.4E+01 |

| Soil Gas Concentration Data | | | | |
|--|--|----|--|--------------|
| ENTER Chemical CAS No. (numbers only, no dashes) | ENTER Soil gas conc., C_g ($\mu\text{g}/\text{m}^3$) | OR | ENTER Soil gas conc., C_g (ppmv) | Chemical |
| 60297 | 1.40E+08 | | | TPH-Gasoline |

MORE
↓

| ENTER Depth below grade to bottom of enclosed space floor, L_f (15 or 200 cm) | ENTER Soil gas sampling depth below grade, L_s (cm) | ENTER Average soil temperature, T_s ($^{\circ}\text{C}$) | ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability) | OR | ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2) |
|--|---|---|--|----|---|
| 15 | 182.88 | 24 | SIC | | |

MORE
↓

| ENTER Vadose zone SCS soil type Lookup Soil Parameters | ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3) | ENTER Vadose zone soil total porosity, n^V (unitless) | ENTER Vadose zone soil water-filled porosity, ρ_w^V (cm^3/cm^3) | ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m) |
|---|---|--|---|--|
| SIC | 1.38 | 0.481 | 0.216 | 5 |

MORE
↓

Lookup Receptor
Parameters

| ENTER Averaging time for carcinogens, AT_C (yrs) | ENTER Averaging time for noncarcinogens, AT_{NC} (yrs) | ENTER Exposure duration, ED (yrs) | ENTER Exposure frequency, EF (days/yr) | ENTER Exposure Time ET (hrs/day) | ENTER Air Exchange Rate ACH (hour^{-1}) |
|---|---|---|--|--|--|
| 70 | 25 | 25 | 250 | 8 (NEW) | 1 (NEW) |

NEW=> Commercial

END

CHEMICAL PROPERTIES SHEET

SG1

TPH-Gasoline

| Diffusivity in air, D_a (cm^2/s) | Diffusivity in water, D_w (cm^2/s) | Henry's law constant at reference temperature, H ($\text{atm}\cdot\text{m}^3/\text{mol}$) | Henry's law constant reference temperature, T_R ($^{\circ}\text{C}$) | Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol) | Normal boiling point, T_B ($^{\circ}\text{K}$) | Critical temperature, T_C ($^{\circ}\text{K}$) | Unit risk factor, URF ($\mu\text{g}/\text{m}^3$) ⁻¹ | Reference conc., RfC (mg/m^3) | Molecular weight, MW (g/mol) |
|---|---|--|---|---|--|---|--|--|---|
| 7.00E-02 | 1.00E-05 | 1.10E+00 | 25 | 7,000 | 369.00 | 508.00 | 0.0E+00 | 5.7E-01 | 108.00 |

END

INTERMEDIATE CALCULATIONS SHEET

SG1

Scenario: Commercial

Chemical: TPH-Gasoline

| Source-building separation, L_T (cm) | Vadose zone soil air-filled porosity, α_a^V (cm^3/cm^3) | Vadose zone effective total fluid saturation, S_{te} (cm^3/cm^3) | Vadose zone soil intrinsic permeability, k_i (cm^2) | Vadose zone soil relative air permeability, k_{rg} (cm^2) | Vadose zone soil effective vapor permeability, k_v (cm^2) | Floor-wall seam perimeter, X_{crack} (cm) | Soil gas conc. ($\mu\text{g}/\text{m}^3$) | Bldg. ventilation rate, $Q_{building}$ (cm^3/s) |
|--|--|--|--|--|--|---|---|---|
| 167.88 | 0.265 | 0.284 | 1.52E-09 | 0.844 | 1.28E-09 | 4,000 | 1.40E+08 | 6.78E+04 |

| Area of enclosed space below grade, A_B (cm^2) | Crack-to-total area ratio, \square (unitless) | Crack depth below grade, Z_{crack} (cm) | Enthalpy of vaporization at ave. soil temperature, $\square H_{v,TS}$ (cal/mol) | Henry's law constant at ave. soil temperature, H_{TS} ($\text{atm}\cdot\text{m}^3/\text{mol}$) | Henry's law constant at ave. soil temperature, H'_{TS} (unitless) | Vapor viscosity at ave. soil temperature, \square_{TS} (g/cm-s) | Vadose zone effective diffusion coefficient, D_v^{eff} (cm^2/s) | Diffusion path length, L_d (cm) |
|---|---|---|---|--|---|---|---|-----------------------------------|
| 1.00E+06 | 5.00E-03 | 15 | 8,304 | 1.05E+00 | 4.30E+01 | 1.80E-04 | 3.63E-03 | 167.88 |

| Convection path length, L_p (cm) | Source vapor conc., C_{source} ($\mu\text{g}/\text{m}^3$) | Crack radius, r_{crack} (cm) | Average vapor flow rate into bldg., Q_{soil} (cm^3/s) | Crack effective diffusion coefficient, D^{crack} (cm^2/s) | Area of crack, A_{crack} (cm^2) | Exponent of equivalent foundation Peclet number, $\exp(Pe^f)$ (unitless) | Infinite source indoor attenuation coefficient, \square (unitless) | Infinite source bldg. conc., $C_{building}$ ($\mu\text{g}/\text{m}^3$) |
|------------------------------------|---|--------------------------------|---|---|--|--|--|--|
| 15 | 1.40E+08 | 1.25 | 8.33E+01 | 3.63E-03 | 5.00E+03 | 8.43E+19 | 2.53E-04 | 3.55E+04 |

| Unit risk factor, URF ($\mu\text{g}/\text{m}^3$) ⁻¹ | Reference conc., RfC (mg/m^3) |
|--|---|
| NA | 5.7E-01 |

NA 5.7E-01

END

LOOKUP TABLES

Soil Properties Lookup Table. Columns: SCS Soil Type, Ks (cm/h), alpha (1/cm), N (unitless), M (unitless), n (cm^3/cm^3), theta (cm^3/cm^3), Mean Grain Diameter (um), Bulk Density (g/cm^3), SCS Soil Name.

NEW -> Receptor Lookup Table (added by HERO). Columns: Receptor, ATc (yrs), ED (yrs), EF (days/yr), ET (hrs/day), ACH (1/hour).

Notes on Toxicity Criteria (see cell comments for individual chemical toxicity values). 1. Chemical name (hex) - Carcinogens with IUR. 2. Values are from USEPA IRIS database except as indicated. 3. Bold = CalEPA Office of Environmental Health Hazard Assessment (OEHHHA) toxicity value. 4. IUR (RfC (mg)) = revised values (March 2014 update of December 2011 values). 5. X denotes route extrapolation from oral toxicity criteria. (Values posted by USEPA or OEHHHA as inhalation criteria, including cancer slope factors, are not derived except as in original USEPA 2002 Draft VI guidance).

Chemical Properties Lookup Table. Columns: CAS No., Chemical, Organic carbon partition coefficient, Diffusivity in air, Diffusivity in water, Pure component water solubility, Henry's law constant, Henry's law constant at reference temperature, Henry's law constant reference temperature, Normal boiling point, Critical temperature, Ethalphy of vaporization at the normal boiling point, Used to Calculate Risk and Hazard Criteria Values, DfC/Recommended Toxicity Criteria Values, USEPA Recommended Toxicity Criteria, ARCHIVE Toxicity Criteria.

USEPA SG-SCREEN
Version 2.0, 04/2003
DTSC Modification
December 2014

Department of Toxic Substances Control Vapor Intrusion Screening Model - Soil Gas

Scenario: Commercial
Chemical: TPH-Diesel

DATA ENTRY SHEET

Reset to Defaults

| Results Summary | | | | |
|--|----------------------------------|--|-------------|------------------|
| Soil Gas Conc. ($\mu\text{g}/\text{m}^3$) | Attenuation Factor (unitless) | Indoor Air Conc. ($\mu\text{g}/\text{m}^3$) | Cancer Risk | Noncancer Hazard |
| 2.40E+06 | 2.5E-04 | 6.1E+02 | NA | 1.1E+00 |

MESSAGE: Risk and/or hazard quotient is based on route-to-route extrapolation.

| Soil Gas Concentration Data | | | | |
|---|---|----|---------------------------------------|------------|
| ENTER | ENTER | OR | ENTER | Chemical |
| Chemical CAS No. (numbers only, no dashes) | Soil gas conc., C_g ($\mu\text{g}/\text{m}^3$) | | Soil gas conc., C_g (ppmv) | |
| 60297 | 2.40E+06 | | | TPH-Diesel |

MORE
↓

| ENTER | ENTER | ENTER | ENTER | OR | ENTER |
|---|--|--|---|----|--|
| Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm) | Soil gas sampling depth below grade, L_s (cm) | Average soil temperature, T_s ($^{\circ}\text{C}$) | Vadose zone SCS soil type (used to estimate soil vapor permeability) | | User-defined vadose zone soil vapor permeability, k_v (cm^2) |
| 15 | 182.88 | 24 | SIC | | |

MORE
↓

| ENTER | ENTER | ENTER | ENTER | ENTER |
|--|--|---|--|---|
| Vadose zone SCS soil type Lookup Soil Parameters | Vadose zone soil dry bulk density, ρ_b^A (g/cm^3) | Vadose zone soil total porosity, n^V (unitless) | Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3) | Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m) |
| SIC | 1.38 | 0.481 | 0.216 | 5 |

MORE
↓

Lookup Receptor
Parameters

| ENTER | ENTER | ENTER | ENTER | ENTER | ENTER |
|--|--|--------------------------------------|---|-------------------------------------|---|
| Averaging time for carcinogens, AT_C (yrs) | Averaging time for noncarcinogens, AT_{NC} (yrs) | Exposure duration, ED (yrs) | Exposure frequency, EF (days/yr) | Exposure Time ET (hrs/day) | Air Exchange Rate ACH (hour^{-1}) |
| 70 | 25 | 25 | 250 | 8 (NEW) | 1 (NEW) |

NEW=> Commercial

END

CHEMICAL PROPERTIES SHEET

SG1

TPH-Diesel

| Diffusivity in air, D_a (cm^2/s) | Diffusivity in water, D_w (cm^2/s) | Henry's law constant at reference temperature, H ($\text{atm}\cdot\text{m}^3/\text{mol}$) | Henry's law constant reference temperature, T_R ($^\circ\text{C}$) | Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol) | Normal boiling point, T_B ($^\circ\text{K}$) | Critical temperature, T_C ($^\circ\text{K}$) | Unit risk factor, URF ($\mu\text{g}/\text{m}^3$) ⁻¹ | Reference conc., RfC (mg/m^3) | Molecular weight, MW (g/mol) |
|---|---|--|---|---|--|---|--|--|---|
| 7.00E-02 | 1.00E-05 | 7.80E-01 | 25 | 7,000 | 473.00 | 568.90 | 0.0E+00 | 1.3E-01 | 170.00 |

END

INTERMEDIATE CALCULATIONS SHEET

Scenario: Commercial

Chemical: TPH-Diesel

| Source-building separation, L_T (cm) | Vadose zone soil air-filled porosity, θ_a^V (cm ³ /cm ³) | Vadose zone effective total fluid saturation, S_{te} (cm ³ /cm ³) | Vadose zone soil intrinsic permeability, k_i (cm ²) | Vadose zone soil relative air permeability, k_{rg} (cm ²) | Vadose zone soil effective vapor permeability, k_v (cm ²) | Floor-wall seam perimeter, X_{crack} (cm) | Soil gas conc. (μg/m ³) | Bldg. ventilation rate, $Q_{building}$ (cm ³ /s) |
|--|--|--|---|---|---|---|-------------------------------------|---|
| 167.88 | 0.265 | 0.284 | 1.52E-09 | 0.844 | 1.28E-09 | 4,000 | 2.40E+06 | 6.78E+04 |

| Area of enclosed space below grade, A_B (cm ²) | Crack-to-total area ratio, η (unitless) | Crack depth below grade, Z_{crack} (cm) | Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol) | Henry's law constant at ave. soil temperature, H_{TS} (atm-m ³ /mol) | Henry's law constant at ave. soil temperature, H'_{TS} (unitless) | Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s) | Vadose zone effective diffusion coefficient, D_v^{eff} (cm ² /s) | Diffusion path length, L_d (cm) |
|--|--|---|--|---|---|---|---|-----------------------------------|
| 1.00E+06 | 5.00E-03 | 15 | 10,729 | 7.34E-01 | 3.01E+01 | 1.80E-04 | 3.63E-03 | 167.88 |

| Convection path length, L_p (cm) | Source vapor conc., C_{source} (μg/m ³) | Crack radius, r_{crack} (cm) | Average vapor flow rate into bldg., Q_{soil} (cm ³ /s) | Crack effective diffusion coefficient, D^{crack} (cm ² /s) | Area of crack, A_{crack} (cm ²) | Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless) | Infinite source indoor attenuation coefficient, α (unitless) | Infinite source bldg. conc., $C_{building}$ (μg/m ³) |
|------------------------------------|---|--------------------------------|---|---|---|---|---|--|
| 15 | 2.40E+06 | 1.25 | 8.33E+01 | 3.63E-03 | 5.00E+03 | 8.43E+19 | 2.53E-04 | 6.08E+02 |

| Unit risk factor, URF (μg/m ³) ⁻¹ | Reference conc., RfC (mg/m ³) |
|--|---|
|--|---|

| | |
|----|---------|
| NA | 1.3E-01 |
|----|---------|

END

Scenario: Commercial
Chemical: TPH-Diesel

INCREMENTAL RISK CALCULATIONS:

| Incremental risk from vapor intrusion to indoor air, carcinogen (unitless) | Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless) |
|--|--|
| NA | 1.1E+00 |

MESSAGE SUMMARY BELOW:

MESSAGE: Risk and/or hazard quotient is based on route-to-route extrapolation.

END

USEPA SG-SCREEN
Version 2.0, 04/2003
DTSC Modification
December 2014

Department of Toxic Substances Control Vapor Intrusion Screening Model - Soil Gas

Scenario: Commercial
Chemical: Benzene

DATA ENTRY SHEET

| Results Summary | | | | |
|--|----------------------------------|--|----------------|---------------------|
| Soil Gas Conc. ($\mu\text{g}/\text{m}^3$) | Attenuation Factor (unitless) | Indoor Air Conc. ($\mu\text{g}/\text{m}^3$) | Cancer Risk | Noncancer Hazard |
| 1.90E+04 | 3.1E-04 | 5.8E+00 | 1.4E-05 | 4.4E-01 |

Reset to
Defaults

| Soil Gas Concentration Data | | | | |
|--|---|----|---|----------|
| ENTER Chemical CAS No. (numbers only, no dashes) | ENTER Soil gas conc., C_g ($\mu\text{g}/\text{m}^3$) | OR | ENTER Soil gas conc., C_g (ppmv) | Chemical |
| 71432 | 1.90E+04 | | | Benzene |

MESSAGE: See VLOOKUP table comments on chemical properties and/or toxicity criteria for this chemical.

MORE
↓

| ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm) | ENTER Soil gas sampling depth below grade, L_s (cm) | ENTER Average soil temperature, T_s ($^{\circ}\text{C}$) | ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability) | OR | ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2) |
|--|---|---|--|----|---|
| 15 | 182.88 | 24 | SIC | | |

MORE
↓

| ENTER Vadose zone SCS soil type Lookup Soil Parameters | ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3) | ENTER Vadose zone soil total porosity, n^V (unitless) | ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3) | ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m) |
|---|---|--|---|--|
| SIC | 1.38 | 0.481 | 0.216 | 5 |

MORE
↓

Lookup Receptor
Parameters

| ENTER Averaging time for carcinogens, AT_C (yrs) | ENTER Averaging time for noncarcinogens, AT_{NC} (yrs) | ENTER Exposure duration, ED (yrs) | ENTER Exposure frequency, EF (days/yr) | ENTER Exposure Time ET (hrs/day) | ENTER Air Exchange Rate ACH (hour^{-1}) |
|---|---|---|--|---|--|
| 70 | 25 | 25 | 250 | 8 (NEW) | 1 (NEW) |

NEW=> Commercial

END

USEPA SG-SCREEN
Version 2.0, 04/2003
DTSC Modification
December 2014

Department of Toxic Substances Control Vapor Intrusion Screening Model - Soil Gas

Scenario: Commercial
Chemical: Hexane

DATA ENTRY SHEET

Reset to Defaults

| Results Summary | | | | |
|--|----------------------------------|--|-------------|------------------|
| Soil Gas Conc. ($\mu\text{g}/\text{m}^3$) | Attenuation Factor (unitless) | Indoor Air Conc. ($\mu\text{g}/\text{m}^3$) | Cancer Risk | Noncancer Hazard |
| 3.50E+06 | 2.6E-04 | 9.2E+02 | NA | 3.0E-01 |

| Soil Gas Concentration Data | | | | |
|--|--|----|--|----------|
| ENTER Chemical CAS No. (numbers only, no dashes) | ENTER Soil gas conc., C_g ($\mu\text{g}/\text{m}^3$) | OR | ENTER Soil gas conc., C_g (ppmv) | Chemical |
| 110543 | 3.50E+06 | | | Hexane |

MORE
↓

| ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm) | ENTER Soil gas sampling depth below grade, L_s (cm) | ENTER Average soil temperature, T_s ($^{\circ}\text{C}$) | ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability) | OR | ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2) |
|--|---|---|--|----|---|
| 15 | 182.88 | 24 | SIC | | |

MORE
↓

| ENTER Vadose zone SCS soil type Lookup Soil Parameters | ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3) | ENTER Vadose zone soil total porosity, n^V (unitless) | ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3) | ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m) |
|---|---|--|---|--|
| SIC | 1.38 | 0.481 | 0.216 | 5 |

MORE
↓

Lookup Receptor
Parameters

| ENTER Averaging time for carcinogens, AT_C (yrs) | ENTER Averaging time for noncarcinogens, AT_{NC} (yrs) | ENTER Exposure duration, ED (yrs) | ENTER Exposure frequency, EF (days/yr) | ENTER Exposure Time ET (hrs/day) | ENTER Air Exchange Rate ACH (hour^{-1}) |
|---|---|---|--|--|--|
| 70 | 25 | 25 | 250 | 8 (NEW) | 1 (NEW) |

NEW=> Commercial

END

USEPA SG-SCREEN
Version 2.0, 04/2003
DTSC Modification
December 2014

Department of Toxic Substances Control Vapor Intrusion Screening Model - Soil Gas

Scenario: Commercial
Chemical: Cyclohexane

DATA ENTRY SHEET

Reset to Defaults

| Results Summary | | | | |
|--|----------------------------------|--|-------------|------------------|
| Soil Gas Conc. ($\mu\text{g}/\text{m}^3$) | Attenuation Factor (unitless) | Indoor Air Conc. ($\mu\text{g}/\text{m}^3$) | Cancer Risk | Noncancer Hazard |
| 1.90E+06 | 2.8E-04 | 5.3E+02 | NA | 2.0E-02 |

| Soil Gas Concentration Data | | | | |
|--|--|----|--|-------------|
| ENTER Chemical CAS No. (numbers only, no dashes) | ENTER Soil gas conc., C_g ($\mu\text{g}/\text{m}^3$) | OR | ENTER Soil gas conc., C_g (ppmv) | Chemical |
| 110827 | 1.90E+06 | | | Cyclohexane |

MORE
↓

| ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm) | ENTER Soil gas sampling depth below grade, L_S (cm) | ENTER Average soil temperature, T_S ($^{\circ}\text{C}$) | ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability) | OR | ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2) |
|--|---|---|--|----|---|
| 15 | 182.88 | 24 | SIC | | |

MORE
↓

| ENTER Vadose zone SCS soil type Lookup Soil Parameters | ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3) | ENTER Vadose zone soil total porosity, n^V (unitless) | ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3) | ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m) |
|---|---|--|---|--|
| SIC | 1.38 | 0.481 | 0.216 | 5 |

MORE
↓

Lookup Receptor
Parameters

| ENTER Averaging time for carcinogens, AT_C (yrs) | ENTER Averaging time for noncarcinogens, AT_{NC} (yrs) | ENTER Exposure duration, ED (yrs) | ENTER Exposure frequency, EF (days/yr) | ENTER Exposure Time ET (hrs/day) | ENTER Air Exchange Rate ACH (hour^{-1}) |
|---|---|---|--|--|--|
| 70 | 25 | 25 | 250 | 8 (NEW) | 1 (NEW) |

NEW=> Commercial

END

USEPA SG-SCREEN
Version 2.0, 04/2003
DTSC Modification
December 2014

Department of Toxic Substances Control Vapor Intrusion Screening Model - Soil Gas

Scenario: Commercial
Chemical: Cumene

DATA ENTRY SHEET

Reset to Defaults

| Results Summary | | | | |
|--|----------------------------------|--|-------------|------------------|
| Soil Gas Conc. ($\mu\text{g}/\text{m}^3$) | Attenuation Factor (unitless) | Indoor Air Conc. ($\mu\text{g}/\text{m}^3$) | Cancer Risk | Noncancer Hazard |
| 8.00E+03 | 2.2E-04 | 1.8E+00 | NA | 1.0E-03 |

| Soil Gas Concentration Data | | | | |
|--|--|----|--|----------|
| ENTER Chemical CAS No. (numbers only, no dashes) | ENTER Soil gas conc., C_g ($\mu\text{g}/\text{m}^3$) | OR | ENTER Soil gas conc., C_g (ppmv) | Chemical |
| 98828 | 8.00E+03 | | | Cumene |

MESSAGE: See VLOOKUP table comments on chemical properties and/or toxicity criteria for this chemical.

MORE
↓

| ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm) | ENTER Soil gas sampling depth below grade, L_s (cm) | ENTER Average soil temperature, T_s ($^{\circ}\text{C}$) | ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability) | OR | ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2) |
|--|---|---|--|----|---|
| 15 | 182.88 | 24 | SIC | | |

MORE
↓

| ENTER Vadose zone SCS soil type Lookup Soil Parameters | ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3) | ENTER Vadose zone soil total porosity, n^V (unitless) | ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3) | ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m) |
|---|---|--|---|--|
| SIC | 1.38 | 0.481 | 0.216 | 5 |

MORE
↓

Lookup Receptor
Parameters

| ENTER Averaging time for carcinogens, AT_C (yrs) | ENTER Averaging time for noncarcinogens, AT_{NC} (yrs) | ENTER Exposure duration, ED (yrs) | ENTER Exposure frequency, EF (days/yr) | ENTER Exposure Time ET (hrs/day) | ENTER Air Exchange Rate ACH (hour^{-1}) |
|---|---|---|--|---|--|
| 70 | 25 | 25 | 250 | 8 (NEW) | 1 (NEW) |

NEW=> Commercial

END

USEPA SG-SCREEN
Version 2.0, 04/2003
DTSC Modification
December 2014

Department of Toxic Substances Control Vapor Intrusion Screening Model - Soil Gas

Scenario: Commercial
Chemical: TPH-Gasoline

DATA ENTRY SHEET

Reset to Defaults

| Results Summary | | | | |
|--|----------------------------------|--|-------------|------------------|
| Soil Gas Conc. ($\mu\text{g}/\text{m}^3$) | Attenuation Factor (unitless) | Indoor Air Conc. ($\mu\text{g}/\text{m}^3$) | Cancer Risk | Noncancer Hazard |
| 1.40E+08 | 2.5E-04 | 3.5E+04 | NA | 1.4E+01 |

| Soil Gas Concentration Data | | | | |
|--|--|----|--|--------------|
| ENTER Chemical CAS No. (numbers only, no dashes) | ENTER Soil gas conc., C_g ($\mu\text{g}/\text{m}^3$) | OR | ENTER Soil gas conc., C_g (ppmv) | Chemical |
| 60297 | 1.40E+08 | | | TPH-Gasoline |

MORE
↓

| ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm) | ENTER Soil gas sampling depth below grade, L_S (cm) | ENTER Average soil temperature, T_S ($^{\circ}\text{C}$) | ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability) | OR | ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2) |
|--|---|---|--|----|---|
| 15 | 182.88 | 24 | SIC | | |

MORE
↓

| ENTER Vadose zone SCS soil type Lookup Soil Parameters | ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3) | ENTER Vadose zone soil total porosity, n^V (unitless) | ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3) | ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m) |
|---|---|--|---|--|
| SIC | 1.38 | 0.481 | 0.216 | 5 |

MORE
↓

Lookup Receptor
Parameters

| ENTER Averaging time for carcinogens, AT_C (yrs) | ENTER Averaging time for noncarcinogens, AT_{NC} (yrs) | ENTER Exposure duration, ED (yrs) | ENTER Exposure frequency, EF (days/yr) | ENTER Exposure Time ET (hrs/day) | ENTER Air Exchange Rate ACH (hour^{-1}) |
|---|---|---|--|--|--|
| 70 | 25 | 25 | 250 | 8 (NEW) | 1 (NEW) |

NEW=> Commercial

END

CHEMICAL PROPERTIES SHEET

SG1-DUP

TPH-Gasoline

| Diffusivity in air, D_a (cm^2/s) | Diffusivity in water, D_w (cm^2/s) | Henry's law constant at reference temperature, H ($\text{atm}\cdot\text{m}^3/\text{mol}$) | Henry's law constant reference temperature, T_R ($^{\circ}\text{C}$) | Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol) | Normal boiling point, T_B ($^{\circ}\text{K}$) | Critical temperature, T_C ($^{\circ}\text{K}$) | Unit risk factor, URF ($\mu\text{g}/\text{m}^3$) ⁻¹ | Reference conc., RfC (mg/m^3) | Molecular weight, MW (g/mol) |
|---|---|--|---|---|--|---|--|--|---|
| 7.00E-02 | 1.00E-05 | 1.10E+00 | 25 | 7,000 | 369.00 | 508.00 | 0.0E+00 | 5.7E-01 | 108.00 |

END

INTERMEDIATE CALCULATIONS SHEET

Scenario: Commercial
 Chemical: TPH-Gasoline

| Source-building separation, L_T (cm) | Vadose zone soil air-filled porosity, θ_a^V (cm ³ /cm ³) | Vadose zone effective total fluid saturation, S_{te} (cm ³ /cm ³) | Vadose zone soil intrinsic permeability, k_i (cm ²) | Vadose zone soil relative air permeability, k_{rg} (cm ²) | Vadose zone soil effective vapor permeability, k_v (cm ²) | Floor-wall seam perimeter, X_{crack} (cm) | Soil gas conc. (µg/m ³) | Bldg. ventilation rate, $Q_{building}$ (cm ³ /s) |
|--|--|--|---|---|---|---|-------------------------------------|---|
| 167.88 | 0.265 | 0.284 | 1.52E-09 | 0.844 | 1.28E-09 | 4,000 | 1.40E+08 | 6.78E+04 |

| Area of enclosed space below grade, A_B (cm ²) | Crack-to-total area ratio, η (unitless) | Crack depth below grade, Z_{crack} (cm) | Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol) | Henry's law constant at ave. soil temperature, H_{TS} (atm-m ³ /mol) | Henry's law constant at ave. soil temperature, H'_{TS} (unitless) | Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s) | Vadose zone effective diffusion coefficient, D_v^{eff} (cm ² /s) | Diffusion path length, L_d (cm) |
|--|--|---|--|---|---|---|---|-----------------------------------|
| 1.00E+06 | 5.00E-03 | 15 | 8,304 | 1.05E+00 | 4.30E+01 | 1.80E-04 | 3.63E-03 | 167.88 |

| Convection path length, L_p (cm) | Source vapor conc., C_{source} (µg/m ³) | Crack radius, r_{crack} (cm) | Average vapor flow rate into bldg., Q_{soil} (cm ³ /s) | Crack effective diffusion coefficient, D^{crack} (cm ² /s) | Area of crack, A_{crack} (cm ²) | Exponent of equivalent foundation Peclet number, $exp(Pe^f)$ (unitless) | Infinite source indoor attenuation coefficient, α (unitless) | Infinite source bldg. conc., $C_{building}$ (µg/m ³) |
|------------------------------------|---|--------------------------------|---|---|---|---|---|--|
| 15 | 1.40E+08 | 1.25 | 8.33E+01 | 3.63E-03 | 5.00E+03 | 8.43E+19 | 2.53E-04 | 3.55E+04 |

| Unit risk factor, URF (µg/m ³) ⁻¹ | Reference conc., RfC (mg/m ³) |
|--|---|
|--|---|

| | |
|----|---------|
| NA | 5.7E-01 |
|----|---------|

END

LOOKUP TABLES

| SCS Soil Type | Soil Properties Lookup Table | | | | | | Mean Grain Diameter (cm) | Bulk Density (g/cm ³) | SCS Soil Name | |
|---------------|------------------------------|-----------------------|--------------|--------------|---------------------------------------|--|--------------------------|-----------------------------------|---------------|-----------------|
| | K _s (cm/h) | α _s (1/cm) | N (unitless) | M (unitless) | n (cm ³ /cm ³) | θ _s (cm ³ /cm ³) | | | | |
| C | 0.61 | 0.01498 | 1.253 | 0.2019 | 0.459 | 0.098 | 0.0092 | 1.43 | 0.215 | Clay |
| CL | 0.01581 | 1.418 | 0.2938 | 0.442 | 0.079 | 0.018 | 0.148 | 0.168 | 0.148 | Clay Loam |
| L | 0.0112 | 1.472 | 0.3207 | 0.399 | 0.061 | 0.020 | 0.148 | 0.148 | 0.148 | Loam |
| LS | 0.03475 | 1.746 | 0.4273 | 0.390 | 0.049 | 0.040 | 1.62 | 0.076 | 1.62 | Loamy Sand |
| S | 26.78 | 0.03524 | 3.177 | 0.6852 | 0.375 | 0.053 | 1.66 | 0.054 | 1.66 | Sand |
| SC | 0.47 | 0.03942 | 1.208 | 0.2122 | 0.386 | 0.025 | 1.83 | 0.107 | 1.83 | Sandy Clay |
| SCL | 0.02109 | 1.330 | 0.2481 | 0.384 | 0.083 | 0.029 | 1.63 | 0.146 | 1.63 | Sandy Clay Loam |
| SI | 1.82 | 0.00658 | 1.679 | 0.4044 | 0.489 | 0.050 | 1.35 | 0.167 | 1.35 | Silt |
| SIC | 0.40 | 0.01920 | 1.321 | 0.2430 | 0.481 | 0.111 | 1.38 | 0.039 | 1.38 | Silty Clay |
| SICL | 0.46 | 0.00839 | 1.521 | 0.3425 | 0.482 | 0.090 | 0.056 | 1.37 | 0.198 | Silty Clay Loam |
| SIL | 0.76 | 0.00506 | 1.683 | 0.3987 | 0.439 | 0.069 | 0.011 | 1.49 | 0.180 | Silt Loam |
| SL | 1.60 | 0.02967 | 1.449 | 0.3099 | 0.387 | 0.030 | 0.030 | 1.62 | 0.103 | Sandy Loam |

NEW => Receptor Lookup Table (added by HERO)

| Receptor | AT _{10c} (yrs) | ED (yrs) | EF (days/yr) | ET (hrs/day) | ACh (1/hour) |
|-------------|-------------------------|----------|--------------|--------------|--------------|
| Residential | 70 | 26 | 350 | 24 | 0.5 |
| Commercial | 70 | 25 | 250 | 8 | 1 |
| Use Defined | | | | | |

Notes on Toxicity Criteria (see cell comments for individual chemical toxicity values)

- Chemical name (hex) = Carcinogens with IUR
- Values are from USEPA IRIS database except as indicated.
- bold = California Office of Environmental Health Hazard Assessment (OEHHA) toxicity value
- IUR (RfC (mg)) = revised values (March 2014 update of December 2011 values)
- X denotes route extrapolation from oral toxicity criteria.

(Values posted by USEPA or OEHHA as inhalation criteria, including cancer slope factors, are not denoted except as in original USEPA 2002 Draft VI guidance.)

| CAS No. | Chemical | Chemical Properties Lookup Table (K _s , D _s , U _s , S _w , H _w values updated per USEPA November 2013 RSL Table) | | | | | | | | | | DfSO - Recommended Toxicity Criteria Values (RfC (no value available)) | | | | | USEPA Recommended Toxicity Criteria (November 2013 RSL Table) | | | | | ARCHIVE Original USEPA Toxicity Criteria (USEPA 2002 Draft Vapor Intrusion Guidance) | | | | |
|---------|---|--|---|---|--|---|---|---|---|---|---|--|--------------------------------------|------------------------------|--------------------------------|--------------------------------|---|--------------------------------------|--------------------------------|--------------------------------|--------------------------------------|--|--------------------------------|---|--|--|
| | | Organic carbon partition coefficient, K _{oc} (cm ³ /g) | Diffusivity in air, D _s (cm ² /s) | Diffusivity in water, D _w (cm ² /s) | Pure component water solubility, S _w (mg/L) | Henry's law constant, H _w (unitless) | Henry's law constant at reference temperature, H _w (atm-m ³ /mol) | Henry's law constant reference temperature, T _r (°C) | Normal boiling point, T _b (°K) | Critical temperature, T _c (°K) | Enthalpy of vaporization at the normal boiling point, ΔH _v (cal/mol) | Inhalation Unit Risk (IUR) (μg/m ³) ⁻¹ | Reference conc. (mg/m ³) | Molecular weight, MW (g/mol) | Extrapolated from oral IUR (X) | Extrapolated from oral IUR (X) | Inhalation Unit Risk (IUR) (μg/m ³) ⁻¹ | Reference conc. (mg/m ³) | Extrapolated from oral IUR (X) | Extrapolated from oral IUR (X) | Reference conc. (mg/m ³) | Extrapolated from oral IUR (X) | Extrapolated from oral IUR (X) | | | |
| 56235 | Carbon tetrachloride | 4.39E+01 | 5.71E-02 | 8.79E-06 | 7.93E-02 | 1.13E+00 | 2.78E-02 | 25 | 349.9 | 556.8 | 7.127 | 4.2E-06 | 4.0E-02 | 1.54E+02 | | | 6.0E-06 | 1.0E-01 | | 1.5E-05 | 0.0E+00 | | | | | |
| 57749 | Chlordane | 3.38E+04 | 3.44E-02 | 4.02E-06 | 5.60E-02 | 1.99E-03 | 4.85E-05 | 25 | 624.2 | 885.7 | 14.000 | 3.4E-04 | 7.0E-04 | 4.10E+02 | | | 1.0E-04 | 7.0E-04 | | 1.0E-04 | 7.0E-04 | | | | | |
| 58899 | gamma-HCH Lindane | 2.81E+03 | 4.33E-02 | 5.06E-06 | 7.30E+00 | 2.10E-04 | 5.14E-06 | 25 | 596.6 | 839.4 | 15.000 | 3.1E-04 | 1.1E-03 | 2.91E+02 | X | | 3.1E-04 | 1.1E-03 | | 3.7E-04 | 1.1E-03 | X | X | | | |
| 60297 | TPH Gasoline | 6.00E+03 | 7.00E-02 | 1.00E-05 | 2.00E-02 | 1.00E-01 | 1.00E-02 | 25 | 240.0 | 416.3 | 5.115 | 2.0E-05 | 5.7E-01 | 1.08E+02 | | | | | | | | | | | | |
| 60571 | Dieldrin | 2.01E+04 | 2.33E-02 | 6.01E-06 | 1.95E-01 | 4.09E-04 | 1.00E-05 | 25 | 613.3 | 842.3 | 17.000 | 4.6E-03 | 1.8E-04 | 3.81E+02 | | | 4.6E-03 | 1.8E-04 | | 4.0E-06 | 3.5E-01 | | X | | | |
| 67841 | Acetone | 2.36E+00 | 1.06E-01 | 1.15E-05 | 1.00E+06 | 1.43E-03 | 3.50E-05 | 25 | 329.2 | 508.1 | 6.955 | 0.0E+00 | 3.1E+01 | 5.81E+01 | | | | | | | | | | | | |
| 67863 | Chloroform | 3.18E+03 | 7.85E-02 | 9.80E-06 | 1.29E-03 | 7.27E-01 | 1.72E-02 | 25 | 347.2 | 545.0 | 7.136 | 0.0E+00 | 1.6E-06 | 1.19E+02 | | | 2.3E-05 | 9.8E-02 | | 2.3E-05 | 9.8E-02 | | X | | | |
| 67721 | Hexachloroethane | 1.97E+02 | 3.21E-02 | 8.89E-06 | 6.00E+01 | 1.59E-01 | 3.89E-03 | 25 | 458.0 | 695.0 | 9.510 | 1.1E-05 | 3.0E-02 | 2.37E+02 | | | 1.1E-05 | 3.0E-02 | | 4.0E-06 | 3.5E-03 | | X | | | |
| 71432 | Benzene | 1.46E+02 | 8.95E-02 | 1.03E-05 | 1.79E+03 | 2.27E-01 | 5.55E-03 | 25 | 353.2 | 562.2 | 7.342 | 2.9E-05 | 3.0E-03 | 7.81E+01 | | | 7.8E-06 | 3.0E-02 | | 7.8E-06 | 3.0E-02 | | X | | | |
| 71559 | 1,1,1-Trichloroethane | 4.39E+01 | 6.49E-02 | 9.80E-06 | 1.29E-03 | 7.27E-01 | 1.72E-02 | 25 | 347.2 | 545.0 | 7.136 | 0.0E+00 | 1.6E-06 | 1.19E+02 | | | 3.0E+00 | 5.0E+00 | | 0.0E+00 | 2.2E+00 | | X | | | |
| 72438 | Methoxychlor | 2.69E+04 | 2.21E-02 | 2.69E-06 | 1.09E-01 | 3.00E-02 | 6.87E-05 | 25 | 651.0 | 848.5 | 16.000 | 0.0E+00 | 1.8E-02 | 3.46E+02 | X | | | | | | | | | | | |
| 72559 | DDE | 1.18E+05 | 4.08E-02 | 4.78E-06 | 4.00E-02 | 1.70E-03 | 2.03E-07 | 25 | 638.4 | 860.4 | 15.000 | 9.7E-05 | 0.0E+00 | 3.18E+02 | X | | 9.7E-05 | | X | 9.7E-05 | 0.0E+00 | X | X | | | |
| 74839 | Methyl bromide (bromomethane) | 1.32E+01 | 1.00E-01 | 1.35E-05 | 1.52E+04 | 3.00E-01 | 7.34E-03 | 25 | 276.7 | 467.0 | 5.714 | 0.0E+00 | 8.0E-03 | 9.49E+01 | | | | | | 5.0E-03 | 0.0E+00 | | X | | | |
| 74973 | Methyl chloride (chloromethane) | 1.32E+01 | 1.00E-01 | 1.45E-05 | 2.29E+04 | 4.87E-03 | 2.85E-03 | 25 | 249.0 | 416.3 | 5.115 | 0.0E+00 | 9.0E-02 | 3.05E+01 | | | | | | 1.0E-06 | 9.0E-02 | | X | | | |
| 74908 | Hydrogen cyanide | 3.80E+00 | 1.68E-01 | 1.68E-05 | 1.00E+06 | 5.44E-03 | 1.33E-04 | 25 | 299.0 | 458.7 | 6.676 | 0.0E+00 | 8.0E-04 | 2.70E+01 | | | | | | 8.0E-04 | 0.0E+00 | 3.0E-03 | X | | | |
| 74953 | Methylene bromide (dibromomethane) | 2.17E+01 | 5.51E-02 | 1.19E-05 | 1.19E+04 | 3.39E-02 | 8.22E-04 | 25 | 370.0 | 583.0 | 7.688 | 0.0E+00 | 4.0E-03 | 1.74E+02 | | | | | | 4.0E+00 | 3.5E-02 | | X | | | |
| 75033 | Chloroethane (ethyl chloride) | 1.05E+01 | 1.05E-01 | 1.16E-05 | 8.74E-03 | 4.54E-01 | 1.11E-02 | 25 | 285.3 | 460.4 | 5.678 | 0.0E+00 | 1.0E+01 | 1.1E+01 | X | | | | | 8.3E-07 | 1.0E-01 | | X | | | |
| 75014 | Vinyl chloride (chloroethene) | 2.17E+01 | 1.07E-01 | 1.20E-05 | 8.80E-03 | 1.14E+00 | 2.78E-02 | 25 | 259.3 | 420.1 | 5.250 | 0.0E+00 | 1.0E-01 | 6.25E+01 | | | | | | 8.8E-06 | 1.0E-01 | | X | | | |
| 75058 | Acetonitrile | 4.87E+00 | 1.34E-01 | 1.41E-05 | 1.00E+06 | 1.41E-03 | 3.45E-05 | 25 | 354.6 | 545.0 | 7.110 | 0.0E+00 | 6.0E-02 | 4.13E+01 | | | | | | 6.0E+00 | 6.0E-02 | | X | | | |
| 75070 | Acetaldehyde | 1.05E+00 | 1.28E-01 | 1.35E-05 | 1.00E+06 | 2.79E-03 | 6.87E-05 | 25 | 293.1 | 486.0 | 6.187 | 0.0E+00 | 2.7E-06 | 1.91E+02 | | | 2.2E-06 | | | 2.2E-06 | 9.0E-03 | | X | | | |
| 75092 | Methylene chloride (dichloromethane) | 2.17E+01 | 9.70E-02 | 1.25E-05 | 1.30E+04 | 1.33E-01 | 3.25E-03 | 25 | 313.0 | 510.0 | 6.706 | 0.0E+00 | 1.0E-06 | 4.0E-01 | 8.49E+01 | | | 1.0E+00 | 6.0E-01 | | 4.7E-07 | 3.0E+00 | | X | | |
| 75150 | Carbon disulfide | 2.17E+01 | 1.06E-01 | 1.30E-05 | 2.16E+03 | 5.89E-01 | 1.44E-02 | 25 | 319.0 | 552.0 | 6.391 | 0.0E+00 | 7.0E-01 | 7.61E+01 | | | | | | 7.0E-01 | 0.0E+00 | | X | | | |
| 75218 | Ethylene oxide | 3.24E+01 | 1.34E-01 | 1.45E-05 | 1.00E+06 | 6.05E-03 | 1.69E-02 | 25 | 340.0 | 499.0 | 6.104 | 8.8E-06 | 1.1E-02 | 1.48E+02 | | | | | | 8.8E-05 | 3.0E-02 | | X | | | |
| 75252 | Bromoforn | 3.18E+01 | 3.57E-02 | 1.04E-05 | 3.10E+03 | 2.19E-02 | 5.35E-04 | 25 | 422.4 | 686.0 | 9.479 | 1.1E-02 | 7.0E-02 | 2.53E+02 | | | 1.1E-02 | | | 1.1E-02 | 7.0E-02 | | X | | | |
| 75274 | Bromodichloromethane | 3.18E+01 | 5.63E-02 | 1.07E-05 | 3.03E+03 | 8.67E-02 | 2.12E-03 | 25 | 363.2 | 595.9 | 7.400 | 3.7E-06 | 7.0E-02 | 1.64E+02 | X | | 3.7E-05 | | X | 1.8E-05 | 7.0E-02 | X | X | | | |
| 75298 | Chloropropane | 3.18E+01 | 8.86E-02 | 1.01E-05 | 3.72E+03 | 1.45E-01 | 3.98E-07 | 25 | 338.7 | 528.1 | 6.388 | 0.0E+00 | 1.0E+01 | 1.0E+01 | | | | | | 0.0E+00 | 3.0E-01 | | X | | | |
| 75343 | 1,1-Dichloroethane | 3.18E+01 | 8.36E-02 | 1.06E-05 | 3.04E+03 | 2.30E-01 | 5.62E-03 | 25 | 330.6 | 523.0 | 6.695 | 1.6E-06 | 7.0E-01 | 9.90E+01 | X | | 1.6E-06 | | | 0.0E+00 | 5.0E-01 | | X | | | |
| 75354 | 1,1,2,2-Tetrachloroethane | 3.18E+01 | 8.83E-02 | 1.10E-05 | 2.42E+03 | 1.07E+00 | 2.61E-02 | 25 | 304.8 | 576.1 | 6.247 | 0.0E+00 | 7.0E-02 | 6.99E+01 | | | | | | 2.0E-01 | 0.0E+00 | | X | | | |
| 75458 | Dibromodichloromethane | 3.18E+01 | 1.03E-02 | 1.03E-05 | 1.03E+04 | 4.00E-04 | 2.32E-02 | 25 | 339.4 | 528.1 | 6.356 | 0.0E+00 | 1.0E+01 | 1.0E+01 | | | | | | 0.0E+00 | 1.1E+00 | | X | | | |
| 75694 | Trichlorofluoromethane | 4.39E+01 | 6.54E-02 | 1.00E-05 | 1.10E+03 | 3.97E+00 | 9.70E-02 | 25 | 296.7 | 471.0 | 5.999 | 0.0E+00 | 7.0E-01 | 1.37E+02 | | | | | | 7.0E-01 | 0.0E+00 | | X | | | |
| 75718 | Dichlorodifluoromethane | 4.39E+01 | 7.60E-02 | 1.08E-05 | 2.80E+02 | 1.40E+01 | 3.43E-01 | 25 | 243.2 | 385.0 | 8.421 | 0.0E+00 | 1.0E-01 | 1.23E+02 | | | | | | 1.0E-01 | 0.0E+00 | | X | | | |
| 75731 | 1,1,2-Trichloro-1,2,2,2-tetrafluoroethane | 4.39E+01 | 3.10E-02 | 8.99E-06 | 1.70E+02 | 2.15E+01 | 5.28E-07 | 25 | 326.7 | 467.0 | 5.683 | 0.0E+00 | 3.0E+01 | 3.0E+01 | | | | | | 3.0E+01 | 3.0E+01 | | X | | | |
| 76448 | Heptachlor | 4.13E+04 | 2.23E-02 | 7.00E-06 | 1.80E-01 | 1.20E-02 | 3.94E-04 | 25 | 603.7 | 846.3 | 13.000 | 1.2E-03 | 1.8E-03 | 3.97E+02 | X | | 1.3E-03 | | | 1.3E-03 | 1.8E-03 | X | X | | | |
| 77474 | Hexachlorocyclopentadiene | 1.40E+03 | 2.72E-02 | 7.22E-06 | 1.80E+00 | 1.10E+00 | 2.70E-02 | 25 | 512.2 | 748.0 | 10.931 | 0.0E+00 | 2.0E-04 | 2.73E+02 | | | | | | 2.0E+00 | 2.0E-04 | | X | | | |
| 78531 | Dibutyltin | 2.32E+02 | 8.97E-02 | 1.00E-05 | 8.50E-04 | 4.50E-04 | 8.78E-06 | 25 | 341.3 | 547.8 | 10.508 | 0.0E+00 | 1.0E+01 | 1.14E+01 | | | | | | 1.0E+00 | 1.1E+00 | | X | | | |
| 78878 | 1,2-Dichloropropane | 6.07E+01 | 7.33E-02 | 9.73E-06 | 2.80E-03 | 1.15E-01 | 2.83E-03 | 25 | 369.5 | 572.0 | 7.590 | 1.0E-05 | 4.0E-03 | 3.33E+01 | X | | 1.0E-05 | | | 1.0E-05 | 4.0E-03 | X | X | | | |
| 78933 | Methyl ethyl ketone (2-butanone) | 4.51E+00 | 9.14E-02 | 1.02E-05 | 2.23E+05 | 2.33E-03 | 5.69E-05 | 25 | 352.5 | 538.8 | 7.481 | 0.0E+00 | 5.0E+00 | 7.41E+01 | | | | | | 5.0E+00 | 1.0E+00 | | X | | | |
| 79005 | 1,2-Trichloroethane | 6.07E+01 | 8.69E-02 | 1.00E-05 | 4.59E+03 | 3.37E-02 | 8.24E-04 | 25 | 386.2 | 622.0 | 8.322 | 1.6E-05 | 2.0E-04 | 1.33E+02 | | | 1.6E-05 | | | 1.6E-05 | 1.4E-02 | | X | | | |
| 79018 | Trichloroethylene | 6.07E+01 | 8.87E-02 | 1.02E-05 | 3.19E+04 | 4.87E-03 | 1.99E-04 | 25 | 401.1 | 748.4 | 10.373 | 3.4E-06 | 3.0E-03 | 2.28E+02 | | | | | | 3.4E-06 | 2.0E-03 | | X | | | |
| 79209 | Methyl acetate | 3.06E+00 | 9.58E-02 | 1.10E-05 | 2.43E+05 | 4.70E-03 | 1.15E-04 | 25 | 329.8 | 507 | | | | | | | | | | | | | | | | |

USEPA SG-SCREEN
Version 2.0, 04/2003
DTSC Modification
December 2014

Department of Toxic Substances Control Vapor Intrusion Screening Model - Soil Gas

Scenario: Commercial
Chemical: Benzene

DATA ENTRY SHEET

Reset to Defaults

| Results Summary | | | | |
|--|----------------------------------|--|-------------|------------------|
| Soil Gas Conc. ($\mu\text{g}/\text{m}^3$) | Attenuation Factor (unitless) | Indoor Air Conc. ($\mu\text{g}/\text{m}^3$) | Cancer Risk | Noncancer Hazard |
| 1.90E+04 | 3.1E-04 | 5.8E+00 | 1.4E-05 | 4.4E-01 |

| Soil Gas Concentration Data | | | | |
|--|--|----|--|----------|
| ENTER Chemical CAS No. (numbers only, no dashes) | ENTER Soil gas conc., C_g ($\mu\text{g}/\text{m}^3$) | OR | ENTER Soil gas conc., C_g (ppmv) | Chemical |
| 71432 | 1.90E+04 | | | Benzene |

MESSAGE: See VLOOKUP table comments on chemical properties and/or toxicity criteria for this chemical.

MORE
↓

| ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm) | ENTER Soil gas sampling depth below grade, L_s (cm) | ENTER Average soil temperature, T_s ($^{\circ}\text{C}$) | ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability) | OR | ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2) |
|--|---|---|--|----|---|
| 15 | 182.88 | 24 | SIC | | |

MORE
↓

| ENTER Vadose zone SCS soil type Lookup Soil Parameters | ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3) | ENTER Vadose zone soil total porosity, n^V (unitless) | ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3) | ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m) |
|---|---|--|---|--|
| SIC | 1.38 | 0.481 | 0.216 | 5 |

MORE
↓

Lookup Receptor
Parameters

| ENTER Averaging time for carcinogens, AT_C (yrs) | ENTER Averaging time for noncarcinogens, AT_{NC} (yrs) | ENTER Exposure duration, ED (yrs) | ENTER Exposure frequency, EF (days/yr) | ENTER Exposure Time ET (hrs/day) | ENTER Air Exchange Rate ACH (hour^{-1}) |
|---|---|---|--|---|--|
| 70 | 25 | 25 | 250 | 8 (NEW) | 1 (NEW) |

NEW=> Commercial

END

USEPA SG-SCREEN
Version 2.0, 04/2003
DTSC Modification
December 2014

Department of Toxic Substances Control Vapor Intrusion Screening Model - Soil Gas

Scenario: Commercial
Chemical: Hexane

DATA ENTRY SHEET

Reset to Defaults

| Results Summary | | | | |
|--|----------------------------------|--|-------------|------------------|
| Soil Gas Conc. ($\mu\text{g}/\text{m}^3$) | Attenuation Factor (unitless) | Indoor Air Conc. ($\mu\text{g}/\text{m}^3$) | Cancer Risk | Noncancer Hazard |
| 3.50E+06 | 2.6E-04 | 9.2E+02 | NA | 3.0E-01 |

| Soil Gas Concentration Data | | | | |
|--|--|----|--|----------|
| ENTER Chemical CAS No. (numbers only, no dashes) | ENTER Soil gas conc., C_g ($\mu\text{g}/\text{m}^3$) | OR | ENTER Soil gas conc., C_g (ppmv) | Chemical |
| 110543 | 3.50E+06 | | | Hexane |

MORE
↓

| ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm) | ENTER Soil gas sampling depth below grade, L_s (cm) | ENTER Average soil temperature, T_s ($^{\circ}\text{C}$) | ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability) | OR | ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2) |
|--|---|---|--|----|---|
| 15 | 182.88 | 24 | SIC | | |

MORE
↓

| ENTER Vadose zone SCS soil type Lookup Soil Parameters | ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3) | ENTER Vadose zone soil total porosity, n^V (unitless) | ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3) | ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m) |
|---|---|--|---|--|
| SIC | 1.38 | 0.481 | 0.216 | 5 |

MORE
↓

Lookup Receptor
Parameters

| ENTER Averaging time for carcinogens, AT_C (yrs) | ENTER Averaging time for noncarcinogens, AT_{NC} (yrs) | ENTER Exposure duration, ED (yrs) | ENTER Exposure frequency, EF (days/yr) | ENTER Exposure Time ET (hrs/day) | ENTER Air Exchange Rate ACH (hour^{-1}) |
|---|---|---|--|--|--|
| 70 | 25 | 25 | 250 | 8 (NEW) | 1 (NEW) |

NEW=> Commercial

END

USEPA SG-SCREEN
Version 2.0, 04/2003
DTSC Modification
December 2014

Department of Toxic Substances Control Vapor Intrusion Screening Model - Soil Gas

Scenario: Commercial
Chemical: Cyclohexane

DATA ENTRY SHEET

Reset to Defaults

| Results Summary | | | | |
|--|----------------------------------|--|-------------|------------------|
| Soil Gas Conc. ($\mu\text{g}/\text{m}^3$) | Attenuation Factor (unitless) | Indoor Air Conc. ($\mu\text{g}/\text{m}^3$) | Cancer Risk | Noncancer Hazard |
| 1.90E+06 | 2.8E-04 | 5.3E+02 | NA | 2.0E-02 |

| Soil Gas Concentration Data | | | | |
|--|--|----|--|-------------|
| ENTER Chemical CAS No. (numbers only, no dashes) | ENTER Soil gas conc., C_g ($\mu\text{g}/\text{m}^3$) | OR | ENTER Soil gas conc., C_g (ppmv) | Chemical |
| 110827 | 1.90E+06 | | | Cyclohexane |

MORE
↓

| ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm) | ENTER Soil gas sampling depth below grade, L_s (cm) | ENTER Average soil temperature, T_s ($^{\circ}\text{C}$) | ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability) | OR | ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2) |
|--|---|---|--|----|---|
| 15 | 182.88 | 24 | SIC | | |

MORE
↓

| ENTER Vadose zone SCS soil type Lookup Soil Parameters | ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3) | ENTER Vadose zone soil total porosity, n^V (unitless) | ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3) | ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m) |
|---|---|--|---|--|
| SIC | 1.38 | 0.481 | 0.216 | 5 |

MORE
↓

Lookup Receptor
Parameters

| ENTER Averaging time for carcinogens, AT_C (yrs) | ENTER Averaging time for noncarcinogens, AT_{NC} (yrs) | ENTER Exposure duration, ED (yrs) | ENTER Exposure frequency, EF (days/yr) | ENTER Exposure Time ET (hrs/day) | ENTER Air Exchange Rate ACH (hour^{-1}) |
|---|---|---|--|--|--|
| 70 | 25 | 25 | 250 | 8 (NEW) | 1 (NEW) |

NEW=> Commercial

END

USEPA SG-SCREEN
Version 2.0, 04/2003
DTSC Modification
December 2014

Department of Toxic Substances Control Vapor Intrusion Screening Model - Soil Gas

Scenario: Commercial
Chemical: Cumene

DATA ENTRY SHEET

Reset to Defaults

| Results Summary | | | | |
|--|----------------------------------|--|-------------|------------------|
| Soil Gas Conc. ($\mu\text{g}/\text{m}^3$) | Attenuation Factor (unitless) | Indoor Air Conc. ($\mu\text{g}/\text{m}^3$) | Cancer Risk | Noncancer Hazard |
| 6.70E+03 | 2.2E-04 | 1.5E+00 | NA | 8.6E-04 |

| Soil Gas Concentration Data | | | | |
|--|--|----|--|----------|
| ENTER Chemical CAS No. (numbers only, no dashes) | ENTER Soil gas conc., C_g ($\mu\text{g}/\text{m}^3$) | OR | ENTER Soil gas conc., C_g (ppmv) | Chemical |
| 98828 | 6.70E+03 | | | Cumene |

MESSAGE: See VLOOKUP table comments on chemical properties and/or toxicity criteria for this chemical.

MORE
↓

| ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm) | ENTER Soil gas sampling depth below grade, L_s (cm) | ENTER Average soil temperature, T_s ($^{\circ}\text{C}$) | ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability) | OR | ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2) |
|--|---|---|--|----|---|
| 15 | 182.88 | 24 | SIC | | |

MORE
↓

| ENTER Vadose zone SCS soil type Lookup Soil Parameters | ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3) | ENTER Vadose zone soil total porosity, n^V (unitless) | ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3) | ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m) |
|---|---|--|---|--|
| SIC | 1.38 | 0.481 | 0.216 | 5 |

MORE
↓

Lookup Receptor
Parameters

| ENTER Averaging time for carcinogens, AT_C (yrs) | ENTER Averaging time for noncarcinogens, AT_{NC} (yrs) | ENTER Exposure duration, ED (yrs) | ENTER Exposure frequency, EF (days/yr) | ENTER Exposure Time ET (hrs/day) | ENTER Air Exchange Rate ACH (hour^{-1}) |
|---|---|---|--|---|--|
| 70 | 25 | 25 | 250 | 8 (NEW) | 1 (NEW) |

NEW=> Commercial

END

APPENDIX G

DTSC JE Soil Gas Model Sensitivity Analysis Risk and Hazard Calculation Work Sheets

USEPA SG-SCREEN
Version 2.0, 04/2003
DTSC Modification
March 2014

Department of Toxic Substances Control
Vapor Intrusion Screening Model - Soil Gas

Scenario: Commercial
Chemical: Benzene

DATA ENTRY SHEET

Reset to Defaults

| Results Summary | | | | |
|--|----------------------------------|--|-------------|------------------|
| Soil Gas Conc. ($\mu\text{g}/\text{m}^3$) | Attenuation Factor (unitless) | Indoor Air Conc. ($\mu\text{g}/\text{m}^3$) | Cancer Risk | Noncancer Hazard |
| 2.20E+05 | 3.5E-04 | 7.8E+01 | 1.8E-04 | 5.9E+00 |

| Soil Gas Concentration Data | | | | |
|--|---|----|---|----------|
| ENTER Chemical CAS No. (numbers only, no dashes) | ENTER Soil gas conc., C_g ($\mu\text{g}/\text{m}^3$) | OR | ENTER Soil gas conc., C_g (ppmv) | Chemical |
| 71432 | 2.20E+05 | | | Benzene |

MESSAGE: See VLOOKUP table comments on chemical properties and/or toxicity criteria for this chemical.

MORE
↓

| ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm) | ENTER Soil gas sampling depth below grade, L_S (cm) | ENTER Average soil temperature, T_S ($^{\circ}\text{C}$) | OR | ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability) | ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2) |
|--|---|---|----|--|---|
| 15 | 152.4 | 24 | | SIC | |

MORE
↓

| ENTER Vadose zone SCS soil type Lookup Soil Parameters | ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3) | ENTER Vadose zone soil total porosity, n^V (unitless) | ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3) | ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m) |
|---|---|--|---|--|
| SIC | 1.38 | 0.481 | 0.216 | 5 |

MORE
↓

Lookup Receptor
Parameters

| ENTER Averaging time for carcinogens, AT_C (yrs) | ENTER Averaging time for noncarcinogens, AT_{NC} (yrs) | ENTER Exposure duration, ED (yrs) | ENTER Exposure frequency, EF (days/yr) | ENTER Exposure Time ET (hrs/day) | ENTER Air Exchange Rate ACH (hour^{-1}) |
|---|---|---|--|--|--|
| 70 | 25 | 25 | 250 | 8 (NEW) | 1 (NEW) |

NEW=> Commercial

END

USEPA SG-SCREEN
Version 2.0, 04/2003
DTSC Modification
March 2014

Department of Toxic Substances Control Vapor Intrusion Screening Model - Soil Gas

Scenario: Commercial
Chemical: Benzene

DATA ENTRY SHEET

Reset to Defaults

| Results Summary | | | | |
|--|----------------------------------|--|-------------|------------------|
| Soil Gas Conc. ($\mu\text{g}/\text{m}^3$) | Attenuation Factor (unitless) | Indoor Air Conc. ($\mu\text{g}/\text{m}^3$) | Cancer Risk | Noncancer Hazard |
| 2.20E+05 | 3.6E-04 | 7.8E+01 | 1.8E-04 | 5.9E+00 |

| Soil Gas Concentration Data | | | | |
|--|--|----|--|----------|
| ENTER Chemical CAS No. (numbers only, no dashes) | ENTER Soil gas conc., C_g ($\mu\text{g}/\text{m}^3$) | OR | ENTER Soil gas conc., C_g (ppmv) | Chemical |
| 71432 | 2.20E+05 | | | Benzene |

MESSAGE: See VLOOKUP table comments on chemical properties and/or toxicity criteria for this chemical.

MORE
↓

| ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm) | ENTER Soil gas sampling depth below grade, L_S (cm) | ENTER Average soil temperature, T_S ($^{\circ}\text{C}$) | ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability) | OR | ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2) |
|--|---|---|--|----|---|
| 15 | 152.4 | 15 | SIC | | |

MORE
↓

| ENTER Vadose zone SCS soil type bulk density, ρ_b^A (g/cm^3) <small>Lookup Soil Parameters</small> | ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3) | ENTER Vadose zone soil total porosity, n^V (unitless) | ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3) | ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m) |
|--|---|--|---|--|
| SIC | 1.38 | 0.481 | 0.216 | 5 |

MORE
↓

Lookup Receptor Parameters

| ENTER Averaging time for carcinogens, AT_C (yrs) | ENTER Averaging time for noncarcinogens, AT_{NC} (yrs) | ENTER Exposure duration, ED (yrs) | ENTER Exposure frequency, EF (days/yr) | ENTER Exposure Time ET (hrs/day) | ENTER Air Exchange Rate ACH (hour^{-1}) |
|---|---|---|--|--|--|
| 70 | 25 | 25 | 250 | 8 (NEW) | 1 (NEW) |

END

USEPA SG-SCREEN
Version 2.0, 04/2003
DTSC Modification
March 2014

Department of Toxic Substances Control Vapor Intrusion Screening Model - Soil Gas

Scenario: Commercial
Chemical: Benzene

DATA ENTRY SHEET

Reset to Defaults

| Results Summary | | | | |
|--|----------------------------------|--|-------------|------------------|
| Soil Gas Conc. ($\mu\text{g}/\text{m}^3$) | Attenuation Factor (unitless) | Indoor Air Conc. ($\mu\text{g}/\text{m}^3$) | Cancer Risk | Noncancer Hazard |
| 2.20E+05 | 4.3E-04 | 9.5E+01 | 2.2E-04 | 7.2E+00 |

| Soil Gas Concentration Data | | | | |
|--|--|----|--|----------|
| ENTER Chemical CAS No. (numbers only, no dashes) | ENTER Soil gas conc., C_g ($\mu\text{g}/\text{m}^3$) | OR | ENTER Soil gas conc., C_g (ppmv) | Chemical |
| 71432 | 2.20E+05 | | | Benzene |

MESSAGE: See VLOOKUP table comments on chemical properties and/or toxicity criteria for this chemical.

MORE
↓

| ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm) | ENTER Soil gas sampling depth below grade, L_S (cm) | ENTER Average soil temperature, T_S ($^{\circ}\text{C}$) | ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability) | OR | ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2) |
|--|---|---|--|----|---|
| 15 | 152.4 | 24 | CL | | |

MORE
↓

| ENTER Vadose zone SCS soil type Lookup Soil Parameters | ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3) | ENTER Vadose zone soil total porosity, n^V (unitless) | ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3) | ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m) |
|---|---|--|---|--|
| CL | 1.48 | 0.442 | 0.168 | 5 |

MORE
↓

Lookup Receptor
Parameters

| ENTER Averaging time for carcinogens, AT_C (yrs) | ENTER Averaging time for noncarcinogens, AT_{NC} (yrs) | ENTER Exposure duration, ED (yrs) | ENTER Exposure frequency, EF (days/yr) | ENTER Exposure Time ET (hrs/day) | ENTER Air Exchange Rate ACH (hour^{-1}) |
|---|---|---|--|---|--|
| 70 | 25 | 25 | 250 | 8 (NEW) | 1 (NEW) |

END

NEW=> Commercial

USEPA SG-SCREEN
Version 2.0, 04/2003
DTSC Modification
March 2014

Department of Toxic Substances Control Vapor Intrusion Screening Model - Soil Gas

Scenario: Commercial
Chemical: Benzene

DATA ENTRY SHEET

Reset to Defaults

| Results Summary | | | | |
|--|----------------------------------|--|-------------|------------------|
| Soil Gas Conc. ($\mu\text{g}/\text{m}^3$) | Attenuation Factor (unitless) | Indoor Air Conc. ($\mu\text{g}/\text{m}^3$) | Cancer Risk | Noncancer Hazard |
| 2.20E+05 | 6.9E-04 | 1.5E+02 | 3.6E-04 | 1.1E+01 |

| Soil Gas Concentration Data | | | | |
|--|--|----|--|----------|
| ENTER Chemical CAS No. (numbers only, no dashes) | ENTER Soil gas conc., C_g ($\mu\text{g}/\text{m}^3$) | OR | ENTER Soil gas conc., C_g (ppmv) | Chemical |
| 71432 | 2.20E+05 | | | Benzene |

MESSAGE: See VLOOKUP table comments on chemical properties and/or toxicity criteria for this chemical.

MORE
↓

| ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm) | ENTER Soil gas sampling depth below grade, L_S (cm) | ENTER Average soil temperature, T_S ($^{\circ}\text{C}$) | ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability) | OR | ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2) |
|--|---|---|--|----|---|
| 15 | 152.4 | 24 | S | | |

MORE
↓

| ENTER Vadose zone SCS soil type Lookup Soil Parameters | ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3) | ENTER Vadose zone soil total porosity, n^V (unitless) | ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3) | ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m) |
|---|---|--|---|--|
| S | 1.66 | 0.375 | 0.054 | 5 |

MORE
↓

Lookup Receptor
Parameters

| ENTER Averaging time for carcinogens, AT_C (yrs) | ENTER Averaging time for noncarcinogens, AT_{NC} (yrs) | ENTER Exposure duration, ED (yrs) | ENTER Exposure frequency, EF (days/yr) | ENTER Exposure Time ET (hrs/day) | ENTER Air Exchange Rate ACH (hour^{-1}) |
|---|---|---|--|---|--|
| 70 | 25 | 25 | 250 | 8 (NEW) | 1 (NEW) |

NEW=> Commercial

END

USEPA SG-SCREEN
Version 2.0, 04/2003
DTSC Modification
March 2014

Department of Toxic Substances Control Vapor Intrusion Screening Model - Soil Gas

Scenario: Commercial
Chemical: Benzene

DATA ENTRY SHEET

Reset to Defaults

| Results Summary | | | | |
|--|----------------------------------|--|-------------|------------------|
| Soil Gas Conc. ($\mu\text{g}/\text{m}^3$) | Attenuation Factor (unitless) | Indoor Air Conc. ($\mu\text{g}/\text{m}^3$) | Cancer Risk | Noncancer Hazard |
| 2.20E+05 | 5.9E-04 | 1.3E+02 | 3.0E-04 | 9.8E+00 |

| Soil Gas Concentration Data | | | | |
|--|--|----|--|----------|
| ENTER Chemical CAS No. (numbers only, no dashes) | ENTER Soil gas conc., C_g ($\mu\text{g}/\text{m}^3$) | OR | ENTER Soil gas conc., C_g (ppmv) | Chemical |
| 71432 | 2.20E+05 | | | Benzene |

MESSAGE: See VLOOKUP table comments on chemical properties and/or toxicity criteria for this chemical.

MORE
↓

| ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm) | ENTER Soil gas sampling depth below grade, L_S (cm) | ENTER Average soil temperature, T_S ($^{\circ}\text{C}$) | ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability) | OR | ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2) |
|--|---|---|--|----|---|
| 15 | 76.2 | 24 | SIC | | |

MORE
↓

| ENTER Vadose zone SCS soil type bulk density, ρ_b^A (g/cm^3) | ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3) | ENTER Vadose zone soil total porosity, n^V (unitless) | ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3) | ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m) |
|---|---|--|---|--|
| SIC | 1.38 | 0.481 | 0.216 | 5 |

MORE
↓

Lookup Receptor Parameters

| ENTER Averaging time for carcinogens, AT_C (yrs) | ENTER Averaging time for noncarcinogens, AT_{NC} (yrs) | ENTER Exposure duration, ED (yrs) | ENTER Exposure frequency, EF (days/yr) | ENTER Exposure Time ET (hrs/day) | ENTER Air Exchange Rate ACH (hour^{-1}) |
|---|---|---|--|---|--|
| 70 | 25 | 25 | 250 | 8 (NEW) | 1 (NEW) |

END

NEW=> Commercial

USEPA SG-SCREEN
Version 2.0, 04/2003
DTSC Modification
March 2014

Department of Toxic Substances Control Vapor Intrusion Screening Model - Soil Gas

Scenario: Commercial
Chemical: Benzene

DATA ENTRY SHEET

Reset to Defaults

| Results Summary | | | | |
|--|----------------------------------|--|-------------|------------------|
| Soil Gas Conc. ($\mu\text{g}/\text{m}^3$) | Attenuation Factor (unitless) | Indoor Air Conc. ($\mu\text{g}/\text{m}^3$) | Cancer Risk | Noncancer Hazard |
| 2.20E+05 | 2.0E-04 | 4.4E+01 | 1.0E-04 | 3.3E+00 |

| Soil Gas Concentration Data | | | | |
|--|--|----|--|----------|
| ENTER Chemical CAS No. (numbers only, no dashes) | ENTER Soil gas conc., C_g ($\mu\text{g}/\text{m}^3$) | OR | ENTER Soil gas conc., C_g (ppmv) | Chemical |
| 71432 | 2.20E+05 | | | Benzene |

MESSAGE: See VLOOKUP table comments on chemical properties and/or toxicity criteria for this chemical.

MORE
↓

| ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm) | ENTER Soil gas sampling depth below grade, L_S (cm) | ENTER Average soil temperature, T_S ($^{\circ}\text{C}$) | ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability) | OR | ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2) |
|--|---|---|--|----|---|
| 15 | 304.8 | 24 | SIC | | |

MORE
↓

| ENTER Vadose zone SCS soil type bulk density, ρ_b^A (g/cm^3) | ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3) | ENTER Vadose zone soil total porosity, n^V (unitless) | ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3) | ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m) |
|---|---|--|---|--|
| SIC | 1.38 | 0.481 | 0.216 | 5 |

MORE
↓

Lookup Receptor Parameters

| ENTER Averaging time for carcinogens, AT_C (yrs) | ENTER Averaging time for noncarcinogens, AT_{NC} (yrs) | ENTER Exposure duration, ED (yrs) | ENTER Exposure frequency, EF (days/yr) | ENTER Exposure Time ET (hrs/day) | ENTER Air Exchange Rate ACH (hour^{-1}) |
|---|---|---|--|---|--|
| 70 | 25 | 25 | 250 | 8 (NEW) | 1 (NEW) |

END

NEW=> Commercial

USEPA SG-SCREEN
Version 2.0, 04/2003
DTSC Modification
March 2014

Department of Toxic Substances Control Vapor Intrusion Screening Model - Soil Gas

Scenario: Commercial
Chemical: Benzene

DATA ENTRY SHEET

Reset to Defaults

| Results Summary | | | | |
|--|----------------------------------|--|-------------|------------------|
| Soil Gas Conc. ($\mu\text{g}/\text{m}^3$) | Attenuation Factor (unitless) | Indoor Air Conc. ($\mu\text{g}/\text{m}^3$) | Cancer Risk | Noncancer Hazard |
| 2.20E+03 | 3.5E-04 | 7.8E-01 | 1.8E-06 | 5.9E-02 |

| Soil Gas Concentration Data | | | | |
|--|--|----|--|----------|
| ENTER Chemical CAS No. (numbers only, no dashes) | ENTER Soil gas conc., C_g ($\mu\text{g}/\text{m}^3$) | OR | ENTER Soil gas conc., C_g (ppmv) | Chemical |
| 71432 | 2.20E+03 | | | Benzene |

MESSAGE: See VLOOKUP table comments on chemical properties and/or toxicity criteria for this chemical.

MORE
↓

| ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm) | ENTER Soil gas sampling depth below grade, L_S (cm) | ENTER Average soil temperature, T_S ($^{\circ}\text{C}$) | ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability) | OR | ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2) |
|--|---|---|--|----|---|
| 15 | 152.4 | 24 | SIC | | |

MORE
↓

| ENTER Vadose zone SCS soil type bulk density, ρ_b^A (g/cm^3) | ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3) | ENTER Vadose zone soil total porosity, n^V (unitless) | ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3) | ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m) |
|---|---|--|---|--|
| SIC | 1.38 | 0.481 | 0.216 | 5 |

MORE
↓

Lookup Receptor Parameters

| ENTER Averaging time for carcinogens, AT_C (yrs) | ENTER Averaging time for noncarcinogens, AT_{NC} (yrs) | ENTER Exposure duration, ED (yrs) | ENTER Exposure frequency, EF (days/yr) | ENTER Exposure Time ET (hrs/day) | ENTER Air Exchange Rate ACH (hour^{-1}) |
|---|---|---|--|---|--|
| 70 | 25 | 25 | 250 | 8 (NEW) | 1 (NEW) |

END

NEW=> Commercial

USEPA SG-SCREEN
Version 2.0, 04/2003
DTSC Modification
March 2014

Department of Toxic Substances Control Vapor Intrusion Screening Model - Soil Gas

Scenario: Commercial
Chemical: Benzene

DATA ENTRY SHEET

Reset to Defaults

| Results Summary | | | | |
|--|----------------------------------|--|-------------|------------------|
| Soil Gas Conc. ($\mu\text{g}/\text{m}^3$) | Attenuation Factor (unitless) | Indoor Air Conc. ($\mu\text{g}/\text{m}^3$) | Cancer Risk | Noncancer Hazard |
| 2.20E+06 | 3.5E-04 | 7.8E+02 | 1.8E-03 | 5.9E+01 |

| Soil Gas Concentration Data | | | | |
|--|--|----|--|----------|
| ENTER Chemical CAS No. (numbers only, no dashes) | ENTER Soil gas conc., C_g ($\mu\text{g}/\text{m}^3$) | OR | ENTER Soil gas conc., C_g (ppmv) | Chemical |
| 71432 | 2.20E+06 | | | Benzene |

MESSAGE: See VLOOKUP table comments on chemical properties and/or toxicity criteria for this chemical.

MORE
↓

| ENTER Depth below grade to bottom of enclosed space floor, L_F (15 or 200 cm) | ENTER Soil gas sampling depth below grade, L_S (cm) | ENTER Average soil temperature, T_S ($^{\circ}\text{C}$) | ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability) | OR | ENTER User-defined vadose zone soil vapor permeability, k_v (cm^2) |
|--|---|---|--|----|---|
| 15 | 152.4 | 24 | SIC | | |

MORE
↓

| ENTER Vadose zone SCS soil type bulk density, ρ_b^A (g/cm^3) | ENTER Vadose zone soil dry bulk density, ρ_b^A (g/cm^3) | ENTER Vadose zone soil total porosity, n^V (unitless) | ENTER Vadose zone soil water-filled porosity, θ_w^V (cm^3/cm^3) | ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q_{soil} (L/m) |
|---|---|--|---|--|
| SIC | 1.38 | 0.481 | 0.216 | 5 |

MORE
↓

Lookup Receptor Parameters

| ENTER Averaging time for carcinogens, AT_C (yrs) | ENTER Averaging time for noncarcinogens, AT_{NC} (yrs) | ENTER Exposure duration, ED (yrs) | ENTER Exposure frequency, EF (days/yr) | ENTER Exposure Time ET (hrs/day) | ENTER Air Exchange Rate ACH (hour^{-1}) |
|---|---|---|--|---|--|
| 70 | 25 | 25 | 250 | 8 (NEW) | 1 (NEW) |

END

NEW=> Commercial