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**RE:** Soil and Ground-Water Investigation Report, Properties at 760 22<sup>nd</sup> Street and 2201 Brush Street, Oakland, California 94612

Dear Alameda County Environmental Health:

Please find attached for your review the following document:

Soil and Ground-Water Investigation Report, 760 22<sup>nd</sup> Street and 2201 Brush Street, Oakland, California 94612. (ACEH Document No. RO3153\_SWI\_R\_2015-11-06)

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Please call me at (510) 287-5353 ext. 336 if you have any questions.

Sincerely,

Carlos Castellanos

Director, Real Estate Development Department

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# SOIL AND GROUND-WATER INVESTIGATION REPORT

PROPERTIES AT 760 22<sup>ND</sup> STREET AND 2201 BRUSH STREET OAKLAND, CALIFORNIA 94612

#### Prepared for:

Mr. Everett Cleveland Senior Project Manager East Bay Asian Local Development Corporation 1825 San Pablo Avenue, Suite 200 Oakland, California 94612

#### Prepared by:

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November 6, 2015



#### SOIL AND GROUND-WATER INVESTIGATION REPORT **PROPERTIES**

### $\mathbf{AT}$

760 22<sup>ND</sup> STREET AND 2201 BRUSH STREET **OAKLAND, CALIFORNIA 94612** 

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### SOIL AND GROUND-WATER INVESTIGATION REPORT PROPERTIES

#### 760 22<sup>ND</sup> STREET AND 2201 BRUSH STREET OAKLAND, CALIFORNIA 94612

#### 1.0 INTRODUCTION

East Bay Asian Local Development Corporation (EBALDC) has requested that Essel Environmental Consulting (Essel) perform additional soil and ground-water environmental investigation on two adjacent properties located at 760 22<sup>nd</sup> Street and 2201 Brush Street in Oakland, California. This work was performed according to a Work Plan and an Addendum to Work Plan prepared by Essel in April (Essel, 2015a) and July (Essel, 2015b) 2015 and conditionally approved by Alameda County Environmental Health (ACEH) via electronic mail to EBALDC on September 4, 2015.

East Bay Asian Local Development Corporation submitted a request for case closure for the site on October 17, 2014. This request was related to former diesel and gasoline underground storage tanks (USTs) that were located on and adjacent to the 760 22<sup>nd</sup> Street property. The ACEH previously closed the UST case (associated with another address) on December 8, 1997, based on a continued commercial use of the property; however, EBALDC requested closure for the case with the intent of redeveloping the property for residential use. The ACEH asked that EBALDC perform the additional investigation to further assess the extent of petroleum hydrocarbons in soil, soil vapor, and ground water beneath the properties and enable ACEH to better evaluate EBALDC's request for closure under the State Water Resources Control Board's Low Threat Underground Storage Tank Case Closure Policy.

This report presents findings of the additional soil and ground-water investigation. Soil vapor sampling and analysis were also performed as part of the investigation. Section 1.0 of this report presents information on location, description, and background information about the properties; Section 2.0 describes the field and laboratory work performed for this investigation; and Section 3.0 presents the results of the field and laboratory work. Section 4.0 presents a discussion of the environmental data collected at the site in relation to criteria of the Low Threat Underground Storage Tank Case Closure Policy and Section 5.0 presents conclusions and recommendation with regard to a future course of action.

#### 1.1 Site Location, Description, and Proposed Development

The two properties are located at the addresses of 760 22<sup>nd</sup> Street and 2201 Brush Street in Oakland, California and are located a short distance to the southwest of the intersection of West Grand Avenue, San Pablo Avenue, and an elevated Interstate Highway 980. The adjacent and

abutting properties are located on the west side of Brush Street between West Grand Avenue on the north and  $22^{nd}$  Street on the south. Plate 1 shows the locations of the properties and the features of the regional and local vicinities and Plate 2 shows the configuration of the two properties.

At present, a wood frame/metal siding shop building and two mobile office trailers occupy the northernmost property at 760 22nd Street. The shop contains a belowground concrete trench that was used for maintenance of large vehicles. At the time field work for this investigation was performed, this trench was covered with a wooden structure. The remaining portion of the property is paved with concrete and is used to park buses for an active business. The adjacent and abutting southern property at 2201 Brush Street is unpaved and also used to park buses.

East Bay Asian Local Development Corporation plans to redevelop the 760 22<sup>nd</sup> Street/2201 Brush Street properties with a multistory residential structure containing 59 residential living units. Available architectural plans show that the building will cover the entire property and will have four ground floor stairwells and three elevators. The development will include a podium garage with parking at ground level and two 3-high puzzle-lift parking structures, which will be constructed near the center of the property for below ground parking (total of 45 parking spaces). The puzzle-lift structures will extend to an approximate depth of 8 feet below the ground surface. The plans do not show any belowground portions of the stairwells or elevator shafts or any other belowground structures. Plate 2 shows the proposed building footprint and the locations of stairwells, elevators, and puzzle-lift parking structures relative to current site features.

#### 1.2 Previous Work

Previous environmental work has included underground storage tank (UST) removal, Phase I Environmental Site Assessments (ESAs), and subsurface investigations related to the UST removal. These activities took place between 1986 and 2012, are described in more detail in previous documents (Essel, 2014), and described briefly below.

#### 1.2.1 Underground Storage Tank Removal

Four USTs, associated with a Bekins Van & Storage (Bekins) warehouse located at 2227 San Pablo Avenue, were removed from the 760 22<sup>nd</sup> Street location and vicinity in 1986 (PES Environmental, Inc. [PES], 1997). Two of the tanks included a 7,000-gallon diesel UST that was located on the 760 22<sup>nd</sup> Street property and a 2,000-gallon gasoline UST that was located beneath the adjacent sidewalk. After tank removal, soil samples were collected beneath both ends of the diesel and gasoline USTs at depths of 12 to 13 feet below the ground surface and submitted for laboratory analysis. Concentrations of 80 to 250 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as diesel (TPHd) were present in soil beneath the 7,000-gallon diesel UST and 1.8 and 70 mg/kg total petroleum hydrocarbons as gasoline (TPHg) were present in soil beneath the adjacent gasoline UST. Plate 2 shows the locations of the former gasoline and diesel USTs and Table 1 presents the results of the laboratory analyses of the soil samples.

#### 1.2.2 Phase I Environmental Site Assessments

#### 2005, 2007, and 2011

PES Environmental, Inc. (PES, 2005a, 2007, 2011a) performed Phase I ESAs of the subject properties in 2005, 2007, and 2011. In the reports of the assessments, PES variously describes the presence and removal of USTs, closure of the UST contamination case at the 760 22<sup>nd</sup> Street property, observing oil staining in the concrete trench of the shop building, and the presence of petroleum hydrocarbons in the soil and ground water at concentrations greater than residential cleanup goals. According to PES, these issues represented recognized environmental conditions in connection with the 760 22<sup>nd</sup> Street property.

#### 1.2.3 Subsurface Investigations

PES (2005b) performed a subsurface soil and ground-water quality investigation at the 760 22<sup>nd</sup> Street property in September 2005 and additional subsurface soil investigation at the property in October 2011 (PES, 2011b). In 2005, borings B-1 through B-6 were advanced to depths of 12 to 16 feet below grade at locations near the former USTs and fuel dispenser, inside the shop building, and at the southern and northern ends of the property. Soil samples were collected from borings B-2, B-3, B-4, and B-5 at depths between 5 and 12 feet below the ground surface. Concentrations of 190 mg/kg TPHg and 230 mg/kg TPHd were detected in soil at 8 feet below the ground surface in boring B-4, located near the former fuel dispenser. Concentrations of TPHg and TPHd were less than 25 mg/kg or were not detected in the other soil samples. No benzene, toluene, ethylbenzene, total xylenes (BTEX) or methyl tertiary butyl ether (MTBE) was detected in the soil samples. Ground water was reportedly encountered at depths of 12 to 13 feet below the ground surface and grab ground-water samples were collected from borings B-1, B-2, B-5, and B-6. Total petroleum hydrocarbons as diesel were detected in the four borings at concentrations of 170 to 3,200 micrograms per liter (µg/L) and TPH as motor oil (TPHmo) was found at concentrations of 190 to 490 µg/L in three of the four borings. No BTEX or MTBE was detected in ground-water samples, except for trace 0.61-µg/L MTBE in boring B-1.

In 2011, borings SB1 through SB6 were advanced to depths of 10 to 11 feet below grade at locations from 10 to 15 feet west and south of borings B-2, B-3, and B-4, which were located near the former USTs and dispenser island. PES collected soil samples from the borings at various depths from 2 to 10 feet below the ground surface. No TPHg or BTEX was found in any soil sample and low levels of TPHd (1.2 to 12 mg/kg) were detected in 10 of the 17 soil samples analyzed. Plate 2 shows the locations of borings advanced by PES during the two subsurface investigations. Table 1 presents the results of laboratory analyses of the soil samples and Table 2 presents the results of laboratory analyses of the ground-water samples.

#### 1.2.4 Geophysical Surveys

PES (2011b, 2012) conducted two geophysical surveys of the northeastern portion of the 760 22<sup>nd</sup> Street property in October 2011 and April 2012 to evaluate the presence of subsurface features related to the former fuel facilities. The results of these surveys detected various underground utility pipes, but did not find indications of additional USTs. A shallow triangular-shaped metallic anomaly was identified approximately 10 feet west of the former dispenser island.

#### 1.3 Findings of Previous Work

The findings of the field and laboratory work performed during UST removal and the 2005 and 2011 subsurface investigations are described as follows.

#### 1.3.1 Geology and Ground Water

PES Environmental, Inc. (PES, 2005; 2011) describes the sediments encountered in borings drilled at the Site as:

- 0 to 8 feet below the ground surface black to dark greenish gray clay, sandy clay, silt;
- 8 to 12 feet below the ground surface dark greenish gray to brown sand, clayey sand;
- 12 to 16 feet below the ground surface dark greenish-gray to brown clay.

Ground water was encountered at depths of 12 to 13 feet below the ground surface.

#### 1.3.2 Distribution of Petroleum Hydrocarbons

Soil and ground-water samples collected during previous subsurface investigations at the 760  $22^{nd}$  Street property were variously analyzed for TPHg, TPHd, and TPHmo; BTEX; and MTBE. Laboratory analytical results showed that contaminants of concern appear to be only the gasoline-and diesel-range hydrocarbons (TPHg and TPHd) in soil and diesel- and motor-oil-range hydrocarbons (TPHd and TPHmo) in ground water. No BTEX was found in any soil or ground-water sample, no MTBE was detected in any soil sample, and MTBE was detected at a trace (less than 1  $\mu$ g/L) concentration in one ground-water sample. The previous investigations were restricted to potential impact to soil above the ground-water surface and primarily to ground water away from the UST and dispenser island locations.

#### <u>Soil</u>

In soil, TPHg was found in samples collected at either end of the former gasoline UST located beneath the sidewalk next to the 760 22<sup>nd</sup> Street property and in two borings advanced near the former fuel dispenser located at the eastern edge of the property. Detected concentrations ranged from 1.6 to 190 mg/kg. Soil containing TPHg at a concentration greater than the applicable environmental screening level (ESL) for TPHg of 100 mg/kg was found to be vertically restricted to the depth interval between 4 and 10 feet below the ground surface in the vicinity of the fuel dispenser.

Concentrations of TPHd were found in a greater number of soil samples; however, most concentrations were significantly less than the most stringent ESL for TPHd, which is also 100 mg/kg. Higher concentrations of 250 and 220 mg/kg TPHd were found in 1986 at the northern end of the on-site 7,000-gallon diesel UST at respective depths of 12 and 13 feet below the ground surface and a concentration of 230 mg/kg TPHd, associated with the higher TPHg, was detected at the 8-foot depth next to the former fuel dispenser.

At the northern end of the former diesel UST, TPHd-impacted soil appears to be vertically restricted to a depth of 12 feet (the bottom of the former UST) and greater. The maximum depth of elevated impact is not known. The lateral extent above the ground-water surface is inferred to be relatively localized (within 10 to 15 feet of the former UST). At the location of the fuel dispenser, the vertical and lateral extent of TPHd above the ground water is likely approximately the same as for TPHg; that is, constrained within a vertical interval between 4 and 10 feet below the ground surface in the immediate vicinity of the fuel dispenser.

#### **Ground Water**

PES (2005b) collected ground-water samples from borings B-1, B-2, B-5, and B-6 during the 2005 subsurface investigation. Boring B-2 was advanced at the location of the former diesel UST and borings B-1, B-5, and B-6 were advanced at locations in the central and western portions of the site. The concentrations of TPHd detected in the four water samples and of TPHmo in three of the four water samples were greater than the applicable ground-water ESL of 100  $\mu$ g/L. The highest concentration of TPHd (3,200  $\mu$ g/L) was found at the former 7,000-gallon diesel UST location. The detected concentrations suggested that TPHd and TPHmo concentrations greater than the applicable ESLs might be present beneath the entire 760 22<sup>nd</sup> Street property, may extend southward to the abutting 2201 Brush Street property, and may extend a short distance to the west beneath the adjacent commercial and residential properties.

#### 2.0 FIELD AND LABORATORY WORK

The results of previous subsurface investigations appeared to have largely defined the extent of petroleum hydrocarbons in the soil above the ground water surface related to releases from the former USTs and fuel dispenser. The extent of petroleum hydrocarbon impact to soil at and below the ground-water surface has not been evaluated, the extent of petroleum hydrocarbons in the ground water has not been fully delineated, and the presence of volatile contaminants in soil vapor has not been assessed. In addition, the presence of potential secondary source material (i.e., free-phase petroleum product or significantly contaminated soil) and other petroleum-related contaminants of concern, such as naphthalene, the fuel oxygenates (e.g., methyl tertiary butyl ether), and polynuclear aromatic hydrocarbons (PAHs) have not been evaluated. To adequately assess site closure, the ACEH requested that these areas of concern be addressed during the additional subsurface investigation.

In the work plan and addendum to work plan, Essel proposed to advance twelve on-site and two off-site borings into the ground water and variously analyze the samples for the range of petroleum and chlorinated hydrocarbon compounds. Essel also proposed to install two permanent soil vapor wells to assess subsurface vapor concentrations near the former UST and fuel dispenser locations. The following sections briefly describe the field and laboratory work performed. Detailed field procedures are included in Appendix A.

#### 2.1 Pre-Field Activities

Pre-field activities included obtaining drilling and encroachment permits, surveying proposed boring locations for the presence of subsurface utilities, and preparing a health and safety plan (see Appendix A). Copies of a Water Resources Well Permit, two encroachment permits, and an obstruction permit are included in Appendix B.

Essel subcontracted with a utility locator to clear the proposed boring locations with respect to underground utilities. The utility locator used electromagnetic and ground-penetrating radar equipment to survey the boring locations on September 22, 2015. The GPR survey identified an anomaly at the proposed location of boring ECB-10 near the west-central edge of the site and this boring location was moved a short distance to the north. The anomaly was noted to start at a depth of 3 to 5 feet below the ground surface and was inferred by the GPR operator to be related to either a significant change in soil density or a void. During this survey, Essel also observed a nearby standpipe that appeared similar to a vent pipe associated with an underground storage tank.

#### 2.2 Locations of Boring

Eleven on-site borings and two off-site borings were advanced around the perimeter of the two properties and along West Grand Avenue and  $22^{nd}$  Street generally to the west of the two properties. One on-site boring was advanced at a location inside the shop building and near the center of the site. The locations for borings ECB-1 through ECB-14 were selected as described below and depicted on Plate 2.

- Boring ECB-1 was advanced at a location inferred to be less than 10 feet to the north of
  the former northern end of the 7,000-gallon diesel UST to assess the extent of soil and
  ground-water impact to the north of the former UST. Three soil and one ground-water
  sample were collected for laboratory analysis.
- Boring ECB-2 was advanced in the northern portion of the former 7,000-gallon diesel UST excavation where the relatively elevated concentrations of diesel petroleum hydrocarbons were detected at 12 to 13 feet below the ground surface during the 1986 UST removal. This boring was advanced to assess potential secondary source material in the former tank pit and delineate the vertical extent of petroleum hydrocarbons in soil. Four soil and one ground-water sample were collected for laboratory analysis.
- Borings ECB-3 and ECB-4 were advanced at locations inferred to be within or very near
  the former gasoline UST excavation. The two borings were advanced to assess potential
  secondary source material in the former tank pit and delineate the vertical extent of
  petroleum hydrocarbons in soil. Four soil and one ground-water sample were collected
  from each boring for laboratory analysis.
- Boring ECB-5 was advanced adjacent to the former fuel dispenser and borings B-4 and SB1 that were advanced by PES. This boring was advanced to assess potential secondary source material beneath the dispenser and delineate the vertical extent of petroleum hydrocarbons in soil. Four soil and one ground-water sample were collected for laboratory analysis.
- Boring ECB-6 was advanced at the southeastern corner of the site to assess potential impact at the 2201 Brush Street property and the lateral extent of petroleum hydrocarbons in the ground water. One soil and one ground-water sample were collected for laboratory analysis.
- Boring ECB-7 was advanced at an angle of 30 degrees from the vertical inside the shop building to assess impact from former vehicle maintenance activities. The boring was advanced beneath a belowground vehicle maintenance trench reported to be in the shop.

This trench was covered by a shed; however, the location was marked by painted stripes used as guides to drive vehicles over the trench. Two soil and one ground-water sample were collected from this boring for laboratory analysis.

- Borings ECB-8 through ECB-12 were advanced at relatively evenly spaced locations along the western side of the 760 22<sup>nd</sup> Street property primarily to assess the downgradient extent of petroleum hydrocarbons in the ground water. Boring ECB-10 was advanced adjacent to the anomaly identified by the GPR survey. One soil and one ground-water sample were collected from borings ECB-8, ECB-9, ECB-11, and ECB-12 for laboratory analysis and two soil and one ground-water sample were collected from ECB-10 for laboratory analysis.
- Boring ECB-13 was advanced in the parking lane along the southwestern side of West Grand Avenue approximately 75 feet to the northwest of the site to assess the off-site downgradient extent of petroleum hydrocarbons in the ground water. One soil and one ground-water sample were collected from this boring for laboratory analysis.
- Boring ECB-14 was advanced along the northeastern side of 22<sup>nd</sup> Street, approximately 145 feet to the west-northwest of the site to also assess the off-site downgradient extent of petroleum hydrocarbons in the ground water. Two soil and one ground-water sample were collected from this boring for laboratory analysis.

In addition, two borings were advanced at locations next to boring ECB-2 in the former diesel UST excavation and next to boring ECB-5 at the former fuel dispenser. Permanent soil-vapor wells SV-1 and SV-2 were constructed in the borings to sample and analyze soil vapor at locations near the two primary source areas.

#### 2.3 Drilling Borings and Sampling Soil and Ground Water

Field work to advance borings, collect soil and ground-water samples, and install vapor wells took place on September 24 and 25, 2015. PeneCore Drilling of Woodland, California (C-57 license number 906899) used a Geoprobe 7822DT, track-mounted, direct-push drill rig to advance borings ECB-1 through ECB-10, ECB-12 through ECB-14, and soil-vapor borings SV-1 and SV-2. A Geoprobe 420M limited access drill rig was used to advance boring ECB-11, which was placed behind the mobile trailer located in the southwestern portion of the site. Twelve vertical borings were advanced to a total depth of 20 feet below the ground surface and one vertical boring (ECB-11) was advanced to 17 feet below grade. Boring ECB-7 was advanced a distance of 24 feet at an angle of 30 degrees from vertical to reach a total vertical depth of 20.8 feet below grade. The borings for soil vapor wells SV-1 and SV-2 were each advanced to a depth of 10 feet below the ground surface.

Continuous soil cores were collected from the borings for description of sediments, screening for evidence of contaminants (photoionization detector readings, discoloration, odors), and selection of samples for laboratory analysis. As described above, from one to four soil samples were collected from each boring for laboratory analyses.

Ground-water samples were collected through temporary wells that were placed in the boreholes. Samples were collected from on-site borings ECB-3 and ECB-4 (advanced in or next to the former gasoline UST location) and off-site borings ECB-13 and ECB-14 on September 24, 2015 and from the remaining borings on September 25, 2015. Temporary wells placed in the boreholes for ECB-1, ECB-2, and ECB-5 set overnight to allow the ground-water surface to reach static

water level and for any free-phase product that might be present in the areas of the USTs and fuel dispenser to accumulate in the wells. Before sampling, the depth to any free-phase petroleum product and the depth to ground water were measured through the temporary casings using an electronic oil-water interface probe.

#### 2.4 Installing Soil Vapor Wells and Sampling Soil Vapor

Permanent soil vapor wells SV-1 and SV-2 were installed to a depth of 10 feet below the ground surface on September 25, 2015 (see Appendix A). Soil cores collected from the two vapor-well boreholes showed that clay underlay the two locations from near the ground surface to approximately 9 feet below grade. Units of silt, silty sand, and clayey sand were found at 9 to 10 feet below grade and wells SV-1 and SV-2, consisting of stainless-steel filter screens connected to ¼-inch-diameter Teflon tubing, were placed at 9½ and 9¼ feet below the ground surface, respectively. The top of each tubing was capped with a valve to prevent atmospheric air from entering the probe hole and a 6-inch-diameter, steel well box was placed around each probe tubing and secured in place with concrete.

Subsurface conditions were allowed to equilibrate for a period of 2 weeks before wells SV-1 and SV-2 were purged and sampled on October 8, 2015. The soil-vapor probe purging and sampling system consisted of a 6-liter purging Summa canister; a 1-liter sampling Summa canister; and a manifold containing vacuum gauges, a flow controller, and moisture filter. Sampling procedures, described in Appendix A, were consistent with the final vapor intrusion guidance developed by the California Department of Toxic Substances Control (DTSC, 2011). At the completion of sampling, the Teflon tubing of each vapor probe was recapped and the wells boxes were closed. Future vapor sampling may be performed if necessary.

#### 2.5 Laboratory Analyses

Thirty-one soil samples and 14 water samples were delivered to McCampbell Analytical, Inc. (McCampbell [Laboratory Certificate No. 1644]) in Pittsburg, California for analysis. McCampbell analyzed all soil and water samples for total petroleum hydrocarbons as gasoline (TPHg) using United States Environmental Protection Agency (USEPA) Method 8015Bm; total petroleum hydrocarbons as diesel (TPHd) and total petroleum hydrocarbons as motor oil (TPHmo) using USEPA Method 8015B; and VOCs using USEPA Method 8260B. Select soil and water samples were also analyzed for polynuclear aromatic hydrocarbons (PAHs) using USEPA Method 8270C-Selective Ion Monitoring (SIM).

The two soil-vapor samples were delivered to Eurofins-Air Toxics, Inc. laboratory (Certificate CA016) in Folsom, California for analysis for total petroleum hydrocarbons-gasoline range using USEPA Modified Method TO-3; for VOCs using USEPA Method TO-15; and for methane and the fixed gases oxygen, nitrogen, and carbon dioxide using American Society for Testing & Materials Method D-1946.

#### 3.0 RESULTS OF INVESTIGATION

#### 3.1 Geology and Ground Water

Unconsolidated sediments encountered in the borings include fill underlain by alternating and interbedded units of clay, silt, and sand. Fill, consisting of brownish-black to dusky yellowish-brown clay, silt or silty fine-grained sand, was observed from the base of the concrete to depths of approximately 2½ to 6 feet below the ground surface. This material is underlain by a relatively thick silty clay unit, which was observed from the base of the fill generally to depths of 9 to 12 feet below grade. Units of silt, clayey sand, silty sand, and sand (some units containing gravel), with subordinate interbeds of clay, are present beneath the silty clay to depths of 17½ to 19 feet below grade and silty clay was generally encountered in borings beneath the sand/silt zone to the maximum depth explored of 20.8 feet below the ground surface.

The sediments were observed to be various shades of yellowish-brown (pale to dark) with varying degrees of reddish-brown and yellowish-orange oxidation staining. A zone of medium bluish-gray discolored sediments (with associated petroleum odor) was observed in several borings. In the vicinity of the former USTs and fuel dispenser (borings ECB-1 through ECB-5), this discolored zone was observed between depths of 5 and 17 feet below the ground surface. Bluish-gray discolored soil was observed in western borings ECB-9 and ECB-10 in the depth interval between approximately 13 and 16 feet below the ground surface, which is across the ground-water surface. Gray, discolored appearing soil was observed in off-site western boring ECB-14 (22<sup>nd</sup> Street) at depths of 17½ to 18½ feet below grade (below the ground-water surface).

Depth to ground water was measured in the temporary wells installed in the 14 borings and varied from 20.19 feet below the ground surface in slant boring ECB-7, located in the central portion of the site, to 12.41 feet below the ground surface in off-site western boring ECB-14. Depth to water in most temporary wells averaged approximately 14½ feet below grade. In general, the ground water was at greater depth in northern wells and at a shallower depth in the southern wells. No free-phase petroleum product was measured in any well using an oil-water interface probe.

Table 3 presents the ground-water data for borings ECB-1 through ECB-14. Appendix C (Figures C-1 through C-29) contains a Unified Soil Classification System key and logs of borings for ECB-1 through ECB-14, which include descriptions of sediments encountered, photoionization detector readings, depths at which soil samples were collected, and approximate depths to ground water in the borings.

#### 3.2 Results of Laboratory Analyses

#### 3.2.1 Soil

Borings ECB-1 through ECB-5 were advanced in the areas of the former gasoline and diesel USTs and the former fuel dispenser. Three to four soil samples were selected for laboratory analysis from each borings to assess the potential for secondary source contaminated soil to be present in the former tank excavations and to assess the vertical extent of contaminants through the zone of ground-water fluctuation (i.e., smear zone). The zone of bluish-gray discolored soil was most evident in these borings and samples of the discolored soil and soil beneath the discolored zone were collected for analysis to evaluate the vertical extent of contaminants.

Borings ECB-6 and ECB-8 through ECB-14 were advanced at perimeter locations to the south and west of the former USTs and dispenser and off-site along West Grand Avenue and 22<sup>nd</sup> Street. These borings were advanced primarily to assess the lateral extent of petroleum hydrocarbons in the ground water and one soil sample was collected at a depth just above the ground-water surface (13 feet below the ground surface) for laboratory analysis. Field evidence of petroleum-hydrocarbon impact was found at the ground-water surface in west-central boring ECB-10 (located near the geophysical anomaly) and in off-site western boring ECB-14, advanced along 22<sup>nd</sup> Street. A second soil sample was collected from these two borings to evaluate contaminant impact. Slant boring ECB-7 was advanced at the location of the vehicle maintenance trench in the shop building, where oil staining was observed in 2005, and two shallower soil samples were collected from this boring to assess impact from potential releases of petroleum contaminants, in particular, those related to motor oil or waste oil. The results of laboratory analyses are presented below.

#### **Total Petroleum Hydrocarbons**

Elevated concentrations (210 to 1,600 mg/kg) of TPHg, TPHd, and TPHmo were detected in three soil samples. Two of the soil samples were collected at and below the ground-water surface (13 to 16-foot-depth interval) in the former gasoline UST pit (borings ECB-3 and ECB-4) and one soil sample was collected at the ground-water surface (14½ feet below grade) in boring ECB-10, located near the geophysical anomaly at the west-central edge of the site. Moderately high concentrations of 130 and 95 mg/kg TPHg were detected at the 8- and 14½-foot depths, respectively, in boring ECB-5, located next to the former fuel dispenser. The laboratory results show notably higher concentrations of the diesel-range hydrocarbons at the former gasoline UST location; relatively higher concentrations of gasoline-range hydrocarbons at the former fuel dispenser; and a notably higher concentration of motor-oil-range petroleum hydrocarbons at western boring ECB-10.

Soil samples collected at depths above and below the above-described impacts either did not contain detectable concentrations or contained very low concentrations (1.1 to 5.4 mg/kg) of the three ranges of petroleum hydrocarbons. These included samples collected at depths of 4 and 4½ feet below grade in borings ECB-5 and ECB-2, respectively, and a sample collected at the 13-foot depth in off-site boring ECB-14. Several samples of discolored soil, collected from borings ECB-1 through ECB-4 and ECB-14 did not contain detectable concentrations in the three petroleum hydrocarbon ranges.

#### Volatile Organic Compounds and Polynuclear Aromatic Hydrocarbons

None of the 31 soil samples analyzed contained a detectable concentration of BTEX, MTBE, naphthalene, or any other petroleum- or solvent-related volatile organic compound. Soil samples collected within the depth intervals of 0 to 5 feet and 5 to 10 feet below the ground surface from borings ECB-2, ECB-3, ECB-5, and ECB-7 were analyzed for polynuclear aromatic hydrocarbons and none of the PAHs was detected in the eight samples analyzed.

#### **Environmental Screening Levels**

The San Francisco Bay Regional Water Quality Control Board (SFBRWQCB, 2013) has developed soil-screening levels (Environmental Screening Levels or ESLs) for potential health and environmental risks associated with a number of chemical contaminants. These screening

levels were developed for two land-use (residential and commercial/industrial) and two soil-depth (less than 10 feet and greater than 10 feet) categories, with further distinction as to whether or not the underlying ground water is a potential source of drinking water. The default final ESLs for individual chemicals are selected based on the most sensitive receptor, which in many cases is the protection of ground water or non-human receptors. The SFBRWQCB also includes ESLs that are based on human health risk.

Concentrations of TPHg, TPHd, and TPHmo detected in soil were compared to the available default ESLs. The most stringent ESLs are developed for a residential property for the two soil-depth categories and with ground water considered to be of existing or potential beneficial use. Three of the 31 soil samples analyzed contained TPHg, TPHd, or TPHmo at levels greater than the applicable residential ESL. These include TPHd at the ground-water surface in the former gasoline UST location; TPHg in the 8-foot-depth sample at the former fuel dispenser location; and TPHd and TPHmo at the ground water surface in boring ECB-10. Table 1 presents the laboratory analytical results for the soil samples along with the applicable ESLs. Plate 3 presents the distribution of organic compounds in soil at the site and Appendix D contains copies of the Chain-of-Custody forms and laboratory analytical report for the soil samples.

#### 3.2.2 Ground Water

The 14 ground-water samples collected during this investigation were analyzed for TPHg, TPHd, TPHmo, and VOCs. Samples collected from borings ECB-2, ECB-3, ECB-5, ECB-7, ECB-8, ECB-10 and ECB-12 were also analyzed for PAHs.

#### **Total Petroleum Hydrocarbons**

Relatively high concentrations of TPHg, TPHd, and TPHmo were detected in water samples from borings ECB-2 through ECB-5, which were advanced in the former diesel and gasoline UST pits, next to the former fuel dispenser, and from west-central boring ECB-10. In the UST area, TPHg ranged from 330 to 1,200  $\mu$ g/L, TPHd ranged from 3,100 to 24,000  $\mu$ g/L, and TPHmo ranged from 780 to 7,300  $\mu$ g/L. Lower concentrations of 430  $\mu$ g/L TPHg and 100  $\mu$ g/L TPHd were detected at the fuel dispenser location. At boring ECB-10, TPHg was detected at 98  $\mu$ g/L, TPHd was detected at 3,100  $\mu$ g/L, and TPHmo was found at a concentration of 17,000  $\mu$ g/L.

A low concentration of  $56 \mu g/L$  TPHd was found in off-site boring ECB-14 ( $22^{nd}$  Street) and gasoline and motor oil petroleum hydrocarbons were not detected at this boring. No TPHg, TPHd, or TPHmo was detected in water samples from borings ECB-1, ECB-6, ECB-7, ECB-8, ECB-9, ECB-11, ECB-12, or ECB-13.

#### **Volatile Organic Compounds**

Few volatile petroleum hydrocarbon compounds were detected in the water samples. Benzene, toluene, and ethylbenzene were not detected in any sample and toluene was found at a trace 0.56- $\mu$ g/L in the water sample from boring ECB-5. One fuel oxygenate, tert-butyl alcohol, was detected at 3.9  $\mu$ g/L in the water sample from boring ECB-1, advanced to the north of the former diesel UST location. No MTBE, other fuel oxygenates, or naphthalene was detected in the 14 water samples. Other fuel constituents detected at trace (less than 1.0  $\mu$ g/L) to low concentrations included n-butyl benzene, sec-butyl benzene, tert-butyl benzene, isopropylbenzene, n-propyl benzene, and 1,2,4-trimethylbenzene.

Non-chlorinated hydrocarbon solvents acetone, methyl ethyl ketone (MEK), 2-hexanone, methyl isobutyl ketone (MIBK), and 4-isopropyl toluene; the chlorinated hydrocarbons cis-1,2-dichloroethene and vinyl chloride; and the insecticide bromomethane were also detected in water samples. Acetone was detected at the highest concentrations (11 to 92  $\mu$ g/L) in nine of the 14 water samples and MEK was detected most frequently (10 water samples) at concentrations of 2.2 to 11  $\mu$ g/L.

#### Polynuclear Aromatic Hydrocarbons

Three PAH compounds were detected at trace to low levels in two water samples. Acenapthene and phenanthrene were detected at 1.9 and 3.3  $\mu$ g/L, respectively, in the water sample from boring ECB-3 (former gasoline UST pit) and a trace concentration of 0.57- $\mu$ g/L 1-methylnaphthalene was found in the water sample from west-central boring ECB-10. Naphthalene was not detected in the 14 water samples.

#### **Environmental Screening Levels**

The SFBRWQCB has also developed ESLs for direct exposure to ground water (i.e., consumption) and to evaluate the potential risk for vapor intrusion from volatile compounds in the ground water. The concentrations of compounds detected in the ground water were compared to ESLs and to the California maximum contaminant levels (MCLs) for drinking water, where available.

The elevated concentrations of TPHg, TPHd, and TPHmo detected in borings ECB-2 through ECB-4 in the former UST area, ECB-5 at the former fuel dispenser, and ECB-10 at the west central edge of the site are substantially greater than the corresponding ESL of  $100~\mu g/L$  for each of the three ranges of petroleum hydrocarbons. The 98  $\mu g/L$  TPHg found at boring ECB-10 is slightly less than the ESL for TPHg. None of the detected concentrations of the VOCs or PAHs was at a concentration greater than a corresponding ESL or MCL, except for the trace concentration (0.67- $\mu g/L$ ) of vinyl chloride, which is slightly higher than the 0.5- $\mu g/L$  MCL for this compound.

Total petroleum hydrocarbons as gasoline and TPHd are sufficiently volatile to present a potential vapor intrusion risk; however, no corresponding ESL has been developed for the ground water to indoor air risk pathway. The SFBRWQCB has developed ESLs for TPHg and TPHd in soil gas. Corresponding ESLs for the ground-water to indoor air pathway have been developed for acetone, MEK, MIBK, *cis*-1,2-dichloroethene, vinyl chloride, and naphthalene. Naphthalene was not detected in ground water beneath the site and none of the detected concentrations of the other compounds was greater than the applicable vapor intrusion ESL. The results of laboratory analyses of the water samples and available direct exposure and vapor intrusion screening levels are presented in Table 2. Plate 4 presents the distribution of the organic compounds in ground water and Appendix D contains copies of the Chain-of-Custody forms and laboratory analytical report for the 14 water samples.

#### 3.2.3 Soil Vapor

Soil vapor samples collected at depths of 9½ and 9¼ feet below the ground surface at vapor wells SV-1 and SV-2, respectively, were analyzed for TPHg, VOCs, methane and the fixed gases oxygen, nitrogen, methane, and carbon dioxide. Laboratory analytical results show that total petroleum hydrocarbons-gasoline range; the aromatic gasoline constituents benzene,

ethylbenzene, and total xylenes; the fuel oxygenate MTBE; and other petroleum-related volatile compounds are present in soil vapor at SV-1 in the vicinity of the former USTs. Total petroleum hydrocarbons-gasoline range was found at a concentration of 64,000 micrograms per cubic meter ( $\mu$ g/m³). Benzene, ethylbenzene, total xylenes, and MTBE were detected at 28, 39, 198, and 110  $\mu$ g/m³, respectively. Other detected VOCs that appear to be constituents of gasoline, include, hexane, heptane, cumene (isopropylbenzene), cyclohexane, 4-ethyltoluene, propylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and 2,2,4-trimethylpentane. These compounds were detected at concentrations ranging from 22 to 1,400  $\mu$ g/m³. Chlorinated solvents detected in the sample from SV-1 included *cis*-1,2-dichloroethene and vinyl chloride at concentrations of 110 and 31  $\mu$ g/m³, respectively. Naphthalene and the leak-test tracer gas isopropyl alcohol were not detected in this sample.

A significantly lower concentration (450  $\mu g/m^3$ ) of total petroleum hydrocarbons-gasoline range was detected in the soil vapor sample from SV-2, located next to the former fuel dispenser, and none of the above-listed or other petroleum constituents was detected. The chlorinated solvent tetrachloroethene was detected at 150  $\mu g/m^3$  and carbon disulfide and chloroform were detected at 15 and 34  $\mu g/m^3$ , respectively. Benzene, naphthalene, and the tracer isopropyl alcohol were not detected.

Analytical results show relatively low oxygen content (1.6 percent) in soil vapor at the location of SV-1 and a notably higher oxygen content of 14 percent in soil vapor at the location of SV-2. Nitrogen, methane, and carbon dioxide were at higher levels in SV-1 (92. 0.013, and 6.1 percent, respectively) than in SV-2 (81, not detected, and 5.2 percent, respectively). The data would appear to suggest that subsurface conditions include both aerobic and anaerobic degradation of the hydrocarbons.

#### **Environmental Screening Levels**

The concentrations of the detected compounds were compared to available SFBRWQCB ESLs and soil gas screening numbers developed by the Office of Environmental Health Hazard Assessment (OEHHA, 2010) for evaluation of vapor intrusion risk. Except for vinyl chloride, none of the detected compounds was at a concentration greater than the corresponding ESL or soil gas screening number. The 31  $\mu$ g/m³ vinyl chloride was slightly greater than the applicable ESL of 16  $\mu$ g/m³ and soil gas screening number of 28  $\mu$ g/m³. Table 4 presents the results of analyses of the two soil gas samples and Appendix D contains a copy of the Chain-of-Custody form and the laboratory report.

#### 4.0 LOW-THREAT UNDERGROUND STORAGE TANK CLOSURE POLICY

In letters dated March 2, and July 1, 2015, ACEH indicated that available data was not sufficient to meet the general and media specific criteria of the State Water Resources Control Board's Low Threat Underground Storage Tank Closure Policy and that additional information was required to adequately evaluate the UST case at the 760 22<sup>nd</sup> Street/2201 Brush Street site with respect to this policy. The following sections discuss the data generated during previous and the current soil and ground-water investigation as the data relate to the policy. Conceptual Site Model and Data Gap Tables presenting the below-described information are included in Appendix E.

#### 4.1 General Criteria

Seven general criteria are discussed as follows.

## 4.1.1. The Unauthorized Release is Located Within the Service Area of a Public Water System.

East Bay Municipal Utility District provides the public water supply to businesses and residences in the site vicinity. Essel accessed the State Water Resources Control Board's GeoTracker Groundwater Ambient Monitoring and Assessment (GAMA) Program website, which provides the locations of ground-water-monitoring and ground-water-supply wells. The GAMA website shows that no ground-water-supply wells are located within ¼-mile (1,320 feet) of the Site. Three groups of environmental monitoring wells, related to leaking underground storage tank properties, are located at distances of 600 feet south-southwest, 900 feet west-northwest, and 1,350 feet south of the Site. Essel also submitted a request to the California Department of Water Resources (DWR) for records of water-supply wells located within 2,000 feet of the site. The DWR responded (via October 16, 2015 electronic mail) stating that the timeline for processing the records request would be at least one year (October 2016).

#### 4.1.2 The Unauthorized Release Consists only of Petroleum

Soil, ground water, and soil vapor samples were analyzed for the full range of total petroleum hydrocarbons and VOCs. Selected samples collected from borings advanced in the UST, fuel dispenser, and vehicle maintenance trench areas were also analyzed for PAHs, which are constituents of diesel and motor oil. The results of laboratory analyses show that the contaminants present in soil, ground water, and soil vapor comprise primarily total petroleum hydrocarbons in the gasoline, diesel, and motor oil ranges and secondarily individual petroleum fuel constituents. Incidental concentrations of petroleum solvents, chlorinated solvents, and insecticide were detected in ground water and soil vapor.

#### 4.1.3 The Unauthorized Release has been Stopped

Available historical records show that the 7,000-gallon on-site diesel UST and the 2,000-gallon off-site gasoline UST were removed in October 1986. The fuel dispenser and fuel piping were presumably removed at the same time.

#### 4.1.4 Free Product Has Been Removed to the Maximum Extent Practicable

Essel used an electronic oil-water interface probe to check borings ECB-1 through ECB-14 for free-phase petroleum product on the ground water. No petroleum product was detected in any of the borings (see Table 1).

#### 4.1.5 A Conceptual Site Model Has Been Developed

The Conceptual Site Model is presented in Table 5 in Appendix E.

#### 4.1.6 Secondary Source Removal Has Been Addressed

A indicated above, free phase petroleum product was not found in any of the 14 borings and dissolved gasoline, diesel, and motor oil concentrations are not sufficiently elevated to suggest free product is present on the ground water. Moderately abundant to pervasive bluish-gray discolored soil (and associated petroleum odor) was observed between depths of approximately 5 and 17½ feet below the ground surface in borings ECB-1 through ECB-5 located at the former UST and fuel dispenser locations. The discoloration was particularly visible in the clay and silt. Except for the soil sample from the 8-foot depth in boring ECB-5, discolored soil samples collected from the depth interval of 4 to 10 feet below the ground surface in these five borings did not contain elevated levels of petroleum hydrocarbons. Although discolored, the shallower soil in the areas of the former USTs and fuel dispenser would not appear to be secondary source material.

The discolored soil was observed to extend below the ground-water surface (maximum depth of 17½ feet below grade) in borings ECB-1 through ECB-5 and elevated concentrations of TPHg, TPHd, and TPHmo were detected in soil samples collected at depths of 13 to 16 feet below grade. Secondary source petroleum-contaminated soil appears to be restricted to the 13- to 16-foot depths (just above and just below the ground-water surface) in the vicinity of the former USTs, and near the former fuel dispenser. This secondary source material has impacted ground water; however, the horizontal extent of ground-water impact appears to be local and not extend to the western edge of the site. Except for soil at the 8-foot depth in boring ECB-5, direct exposure to this secondary source soil is not likely. In addition, no volatile petroleum hydrocarbon compounds are present in the soil or ground water that would result in a vapor intrusion hazard or an outdoor air health risk.

Discolored soil (and petroleum odor) was observed in the depth interval of 14½ to 16½ feet below grade at the location of west-central boring ECB-10, near the geophysical anomaly noted during the utility locator survey. Elevated concentrations of TPHg, TPHd, and particularly TPHmo were detected in the soil sample collected at the 14½-foot depth and also in the ground-water sample from this boring. The extent of impact in the area of boring ECB-10 in both soil and ground water has not been delineated. The absence of BTEX, MTBE, and naphthalene in soil and ground-water samples from boring ECB-10 suggest no indoor or outdoor air impacts are likely.

# 4.1.7 Soil and Groundwater Have Been Tested for MTBE and Results Reported in Accordance with Health and Safety Code Section 25296.15.

During the current investigation, the 31 soil samples, 14 ground-water samples, and two soil vapor samples were analyzed for MTBE using USEPA 8260B. Methyl tertiary butyl ether was not detected in soil or ground water, but was detected at a concentration of 110  $\mu$ g/m³ in the soil vapor sample from SV-1. This concentration is less than the applicable screening level for vapor intrusion risk. A trace concentration of MTBE was detected in a water sample from boring B-1, advanced at the northern edge of the site in 2005.

#### 4.2 Media-Specific Criteria

#### 4.2.1 Ground Water

To satisfy the media-specific criteria for ground water, a petroleum-contaminant plume must be stable or decreasing in areal extent and meet the stated characteristics of one of the five classes of petroleum-release sites described in the low-threat underground storage tank closure policy. Ground-water data at the site most closely satisfies the first listed class of site described in the policy document; that is:

- The contaminant plume is less than 100 feet in length;
- There is no free product; and
- The nearest existing water supply well and/or surface water body is greater than 250 feet from the defined plume boundary.

Laboratory analysis of ground-water samples collected by PES Environmental, Inc. in 2005 showed a concentration of 3,200  $\mu$ g/L TPHd at the former diesel UST and concentrations of 170 to 530  $\mu$ g/L TPHg, TPHd, and TPHmo at presumably downgradient boring locations (B-1, B-5, and B-6) in the north-central and south-central portions of the site. Laboratory analytical data from the current investigation show notably higher concentrations of TPHg, TPHd, and TPHmo at the locations of the former USTs, but no detectable concentrations of the three ranges of petroleum hydrocarbons beneath the shop building or along the southern and western (except ECB-10) edges of the site. The data indicate ground-water impacts at the UST and dispenser source areas have not migrated off the site. Furthermore, none of the more mobile petroleum hydrocarbon constituents (BTEX, MTBE, etc.) is present in the ground water.

Elevated concentrations of TPHmo and TPHd in ground water at ECB-10 indicate a separate source than detected at the UST and fuel dispenser locations. The lateral extent of this ground-water impact is defined by borings ECB-9 (north) and ECB-11 (south), which do not contain detectable petroleum hydrocarbons. The western extent of this impact is inferred to be relatively restricted, based on the predominant oil-range hydrocarbons detected, the restricted extent of the UST and fuel dispenser plumes, and the absence of more mobile petroleum hydrocarbon constituents.

Records available on the GeoTracker GAMA website do not show any water-supply wells within 250 feet of the Site. The closest surface water to the site is Lake Merritt, which is approximately 3,900 feet to the east.

#### 4.2.2 Petroleum Vapor Intrusion to Indoor Air

Site-specific conditions at a petroleum release site must satisfy all characteristics and screening criteria of one of four scenarios (as applicable) presented in the low-threat UST closure policy document. The scenarios include: 1) unweathered non-aqueous phase liquid (LNAPL) in ground water; 2) unweathered LNAPL in soil; 3) dissolved phase benzene concentrations only in ground water; or 4) direct measurement of soil gas concentrations.

Soil, ground water, and soil vapor data obtained during the current investigation show the site satisfies both Scenarios 3 and 4. Under Scenario 3, assuming no bioattenuation zone (oxygen content less than 4 percent) is present, dissolved phase benzene concentrations in ground water that are less than 100  $\mu$ g/L must be separated from the foundation of an existing or a future building a minimum of 5 vertical feet. Under Scenario 4, with no bioattenuation zone, soil gas concentrations of benzene and naphthalene must be less than the residential screening levels of 85 and 93  $\mu$ g/m³, respectively. In both scenarios, the total concentration of TPHg and TPHd must be less than 100 mg/kg within the 5-foot bioattenuation zone. Site data show that no benzene is present in ground water, which is approximately 14 feet below the ground surface and that benzene (28  $\mu$ g/m³) and naphthalene (not detected) are less than the applicable residential screening levels. None of the soil samples collected at depths less than 5 feet below grade during PES Environmental, Inc.'s 2011 investigation or the current investigation contained a combined TPHg+TPHd concentration greater than 100 mg/kg.

#### **4.2.3** Direct Contact and Outdoor Air Exposure

Criteria for direct contact and outdoor air exposure meet low-threat policy requirements if concentrations of benzene, naphthalene, and PAHs in soil are less than or equal to the following respective concentrations.

- 2.3, 13, and 0.038 mg/kg in soil from 0 to 5 feet below the ground surface.
- 100, 1,500, and 7.5 mg/kg in soil from 5 to 10 feet below the ground surface.

Laboratory analytical results for samples collected in the UST, fuel dispenser, and vehicle maintenance trench areas show no detectable concentrations of benzene, naphthalene, or any PAH analyte. The site satisfies the low-threat UST closure criteria for direct contact and outdoor air exposure.

#### 5.0 FINDINGS AND CONCLUSIONS

#### 5.1 Findings

Following is a summary of the findings of the additional subsurface environmental investigation.

- Unconsolidated sediments encountered in borings include fill (clay, silt, and silty sand) from the ground surface to 2½ to 6 feet below the ground surface; a relatively thick unit of clay from the base of the fill to depths of 9 to 12 feet below the ground surface; units of silt, clayey to silty sand, and sand generally from 10 feet to depths of 17½ to 19 feet below grade; and clay from the base of the silt and sand zone to the maximum depth explored of 20.8 feet below the ground surface.
- A zone of medium bluish-gray discolored sediments (with associated petroleum odor) is present between 5 and 17 feet below the ground surface at the locations of the former USTs and fuel dispenser and is present between approximately 13 and 16 feet below grade at the locations of west central borings ECB-9 and ECB-10. Gray, discolored appearing soil was encountered in off-site boring ECB-14 at 17½ to 18½ feet below grade.

- Ground water was measured in the borings at depths of 12.41 to 20.19 feet below the ground surface, with generally a greater depth to ground water measured in the northern borings.
- Free phase petroleum product was not encountered on the ground water in the 14 on-site and off-site borings.
- In soil, relatively high concentrations of TPHg, TPHd, and TPHmo were found within a relatively narrow zone at and below the ground-water surface in borings ECB-3 and ECB-4, advanced at and near the former gasoline UST pit; at a depth of 8 feet below grade and at the ground-water surface in boring ECB-5, advanced at the former fuel dispenser; and at the ground-water surface in boring ECB-10, advanced near the west-central edge of the site. Boring ECB-10 was advanced near the location of a geophysical anomaly, inferred to represent a significant change in soil density or an underground void and an aboveground standpipe suggestive of a vent pipe for an underground storage tank. Four of 31 soil samples submitted for laboratory analysis contained TPHg, TPHd, or TPHmo at concentrations greater than the corresponding ESLs. No VOC or PAH compound was detected in the soil samples.
- In ground water, high concentrations of TPHg, TPHd, and TPHmo were found in the areas of high soil impact, namely the former UST area, the former fuel dispenser area, and at ECB-10. Concentrations of the three ranges of petroleum hydrocarbons were substantially greater than the applicable direct exposure ESL. Other than trace to low concentrations of xylenes and tert-butyl alcohol in two water samples, BTEX, MTBE and other fuel oxygenates, and naphthalene were not detected in water samples collected from the 14 borings. The non-chlorinated solvents acetone and MEK were detected in most water samples; however, were at concentrations well below applicable ESLs. For other VOCs, low concentrations of petroleum-related compounds and other non-chlorinated solvents were sporadically detected and the chlorinated solvents cis-1,2-dichloroethene and vinyl chloride were detected at trace levels in one water sample. The PAH compounds acenapthene, phenanthrene, and 1-methylnaphthalene were detected at trace to low concentrations in two of the 14 water samples.
- The site appears to meet most of the general criteria of the low-threat UST closure policy in that the site and surrounding area are served by a municipal water supplier and water wells are not nearby the site, the unauthorized release consists of petroleum and has been stopped; no free-phase petroleum product is present on the ground water, and all media samples have been tested for MTBE and will be reported on submittal of this report.
  - Secondary source soil is present within a narrow vertical zone at the ground-water surface at the locations of the former USTs and fuel dispenser. The lateral extent of impacted soil in this northeastern portion of the site appears to be restricted to the areas of these former facilities and impacted ground water has not migrated off the site. The depth of the source material (13 to 16 feet below the ground surface) and the absence of health-risk indicator petroleum constituents in either soil or ground water indicate little potential for risks to human health or the environment.
  - o Secondary source soil is also present in the vicinity of west-central boring ECB-10. The extent of soil and ground-water impact has not been defined in this area,

although both are considered to be localized based on the predominant oil-range hydrocarbons detected in both soil and ground water.

• The site appears to meet the media-specific criteria of the low-threat UST closure policy in that the petroleum hydrocarbon plume is less than 100 feet in length, contains no free-phase product, and is not near water-supply wells or surface water; soil vapor data indicate no vapor intrusion health risk is present; and soil data indicate no direct contact or outdoor air health risks are present.

#### 5.2 Conclusions

Based on the findings of this limited subsurface investigation, Essel concludes the following.

- The notable concentrations of TPHg, TPHd, and TPHmo detected in soil and ground water beneath the site appear to be relatively localized in lateral and vertical extent to the areas of the former UST excavations, the former fuel dispenser, and the west-central edge of the site. Focused remedial actions may be warranted in one or more of these areas to reduce petroleum-hydrocarbon concentrations in the soil and ground water.
- Soil and ground water beneath the site and off-site to the west and west-northwest appear to be minimally impacted by petroleum-related VOCs and PAHs and non-petroleum VOCs, including in the areas of elevated levels of total petroleum hydrocarbons.
- The geophysical anomaly, standpipe, and notably higher concentrations of TPHmo
  relative to TPHg and TPHd at and near boring ECB-10 suggest the former presence or
  existing presence of an underground storage tank and this UST may have been used to
  store waste oil. Further investigation for the presence of a UST and the extent of
  contaminant impact this area is warranted.

Limitations to this investigation are included in Appendix F.

#### 6.0 REFERENCES CITED

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TABLE 1 Concentrations of Organic Compounds in Soil Samples Properties at 760 22nd Street and 2201 Brush Street, Oakland, California

	Date	Sample	Sample Depth	Total Petr	oleum Hyc	lrocarbons					
Location	Sampled	Designation	(feet)	Gasoline	Diesel	Motor Oil	BTEX	MTBE	Naphthalene	VOCs	PAHs
	1 50		1.4.11 (61.1	.,							
Underground Storage Tank I	Kemoval - 760	22nd Street an	d Adjacent Side	walk							
2K Gasoline UST-north end	Oct-86	S-1	12	70							
2K Gasoline UST-south end	Oct-86	S-3	12	1.8							
7K Diesel UST-north end	Oct-86	S-5	12		250						
7K Diesel UST-north end	Oct-86	S-8	13		220						
7K Diesel UST-south end	Oct-86	S-2	12		80						
2005 Subsurface Investigation	n (PES Envir	onmental, Inc.)									
B-2	9/8/05	B-2-7.5	71/2	<1.0	<1.0	<10	< 0.005	< 0.005			
D-Z	9/8/05	B-2-12	12	<1.0	1.5	<10	<0.005	< 0.005			
B-3	9/8/05	B-3-5.0	5	<1.0	<1.0	<10	<0.005	<0.005			
D-0	9/8/05	B-3-11.5	11½	1.6	23	<10	< 0.005	< 0.005			
B-4	9/8/05	B-4-8.0	8	190	230	<10	<0.005	<0.025			
D- <del>1</del>	9/8/05	B-4-12	12	6.6	23	<10	< 0.025	< 0.025			
B-5	9/8/05	B-5-5.0	5	<1.0	<1.0	<10	<0.005	<0.005			
D-3	9/8/05	B-5-11.5	11½	<1.0	<1.0	<10	<0.005	< 0.005			
	37 67 66	D 0 11.0	11/2	-1.0	-1.0	-10	-0.005	-0.000			
2011 Subsurface Investigation	n (PES Envir	onmental, Inc.)									
SB1	10/20/11	SB1-4.0	4	<1.0	<1.0		< 0.0050				
	10/20/11	SB1-10.0	10	<1.0	<1.0		< 0.0050				
SB2	10/20/11	SB2-2.0	2	<1.0	1.7		< 0.0050				
	10/20/11	SB2-4.0	4	<1.0	4.3		< 0.0050				
	10/20/11	SB2-8.0	8	<1.0	<1.0		< 0.0050				
SB3	10/20/11	SB3-2.0	2	<1.0	3.1		< 0.0050				
	10/20/11	SB3-4.0	4	<1.0	<1.0		< 0.0050				
	10/20/11	SB3-8.0	8	<1.0	<1.0		< 0.0050				
SB4	10/20/11	SB4-2.0	2	<1.0	2.1		< 0.0050				
	10/20/11	SB4-4.0	4	<1.0	1.2		< 0.0050				
	10/20/11	SB4-8.0	8	<1.0	5.0		< 0.0050				
SB5	10/20/11	SB5-2.0	2	<1.0	1.9		<0.0050				
000	10/20/11	SB5-4.0	4	<1.0	<1.0		< 0.0050				
		SB5-8.0	8	<1.0	<1.0		< 0.0050				
SB6	10/20/11 10/20/11	SB5-8.0 SB6-2.0	2	<1.0	12		<0.0050				
סטכ		SB6-4.0	4	<1.0	2.2		<0.0050				
	10/20/11		8								
	10/20/11	SB6-8.0	8	<1.0	9.3		<0.0050				
SFBRWQCB Environ		•	,					_			_
			(10 feet) in depth	100	100	100	Var.	0.023	1.2	Var.	Var.
	Soil great	er than 3 meters	(10 feet) in depth	500	110	500	Var.	0.023	1.2	Var.	Var.

TABLE 1
Concentrations of Organic Compounds in Soil Samples
Properties at 760 22nd Street and 2201 Brush Street, Oakland, California

	Date	Sample	Sample Depth	Total Petr	oleum Hyc	lrocarbons					
Location	Sampled	Designation	(feet)	Gasoline	Diesel	Motor Oil	BTEX	MTBE	Naphthalene	VOCs	PAHs
2015 Subsurface Investig	ation (Essel Envi	ronmental Con	sulting, Inc.)								
ECB-1	9/24/15	S-12½-ECB1	12½	<1.0	<1.0	<5.0	< 0.0050	< 0.0050	< 0.0050	ND	
	9/24/15	S-15-ECB1	15	<1.0	<1.0	<5.0	< 0.0050	< 0.0050	< 0.0050	ND	
	9/24/15	S-191/2-ECB1	19½	<1.0	<1.0	<5.0	< 0.0050	< 0.0050	< 0.0050	ND	
ECB-2	9/24/15	S-4½-ECB2	4½	<1.0	<1.0	5.4	< 0.0050	< 0.0050	< 0.0050	ND	< 0.010
	9/24/15	S-9-ECB2	9	<1.0	<1.0	<5.0	< 0.0050	< 0.0050	< 0.0050	ND	< 0.010
	9/24/15	S-17-ECB2	17	<1.0	<1.0	<5.0	< 0.0050	< 0.0050	< 0.0050	ND	
	9/24/15	S-191/2-ECB2	19½	<1.0	<1.0	<5.0	< 0.0050	< 0.0050	< 0.0050	ND	
ECB-3	9/24/15	S-4½-ECB3	4½	<1.0	1.1	<5.0	< 0.0050	< 0.0050	< 0.0050	ND	< 0.010
	9/24/15	S-9½-ECB3	91/2	<1.0	<1.0	<5.0	< 0.0050	< 0.0050	< 0.0050	ND	< 0.010
	9/24/15	S-15½-ECB3	15½	200	930	310	< 0.20	< 0.20	< 0.20	ND	
	9/24/15	S-181/2-ECB3	181/2	<1.0	<1.0	<5.0	< 0.0050	< 0.0050	< 0.0050	ND	
ECB-4	9/24/15	S-4½-ECB4	4½	<1.0	<1.0	<5.0	< 0.0050	< 0.0050	< 0.0050	ND	
	9/24/15	S-9-ECB4	9	<1.0	<1.0	< 5.0	< 0.0050	< 0.0050	< 0.0050	ND	
	9/24/15	S-13-ECB4	13	400	940	310	< 0.50	< 0.50	< 0.50	ND	
	9/24/15	S-171/2-ECB4	17½	<1.0	1.3	<5.0	< 0.0050	< 0.0050	< 0.0050	ND	
ECB-5	9/24/15	S-4-ECB5	4	2.1	1.7	<5.0	< 0.0050	< 0.0050	< 0.0050	ND	< 0.010
	9/24/15	S-8-ECB5	8	130	12	<5.0	< 0.10	< 0.10	< 0.10	ND	< 0.010
	9/24/15	S-14½-ECB5	$14\frac{1}{2}$	95	3.9	<5.0	< 0.10	< 0.10	< 0.10	ND	
	9/24/15	S-18-ECB5	18	<1.0	<1.0	<5.0	< 0.0050	< 0.0050	< 0.0050	ND	
ECB-6	9/24/15	S-13-ECB6	13	<1.0	<1.0	<5.0	< 0.0050	< 0.0050	< 0.0050	ND	
ECB-7	9/25/15	S-4½-ECB7	4½	<1.0	<1.0	<5.0	< 0.0050	< 0.0050	< 0.0050	ND	< 0.010
	9/25/15	S-9½-ECB7	91/2	<1.0	<1.0	< 5.0	< 0.0050	< 0.0050	< 0.0050	ND	< 0.010
ECB-8	9/25/15	S-13-ECB8	13	<1.0	<1.0	<5.0	< 0.0050	< 0.0050	< 0.0050	ND	
ECB-9	9/25/15	S-13-ECB9	13	<1.0	<1.0	<5.0	< 0.0050	< 0.0050	< 0.0050	ND	
ECB-10	9/25/15	S-13-ECB10	13	<1.0	<1.0	<5.0	< 0.0050	< 0.0050	< 0.0050	ND	
	9/25/15	S-14½-ECB10	$14\frac{1}{2}$	360	210	1,600	<1.0	<1.0	<1.0	ND	
ECB-11	9/24/15	S-13-ECB11	13	<1.0	<1.0	<5.0	< 0.0050	< 0.0050	< 0.0050	ND	
ECB-12	9/25/15	S-13-ECB12	13	<1.0	<1.0	<5.0	< 0.0050	< 0.0050	< 0.0050	ND	
ECB-13	9/24/15	S-13-ECB13	13	<1.0	<1.0	<5.0	< 0.0050	< 0.0050	< 0.0050	ND	
ECB-14	9/24/15	S-13-ECB14	13	<1.0	2.5	<5.0	< 0.0050	< 0.0050	< 0.0050	ND	
	9/24/15	S-18½-ECB14	18½	<1.0	<1.0	<5.0	<0.0050	<0.0050	< 0.0050	ND	
SFBRWQCB Env	rironmental Screen	ning Level (Resid	lential)								
	Soil less than 3 meters (10 feet) in depth						Var.	0.023	1.2	Var.	Var.
			(10 feet) in depth	500	110	500	Var.	0.023	1.2	Var.	Var.
Results are in milligrams pe	r kilogram = parte	nor million									

Results are in milligrams per kilogram = parts per million.

Detectable concentrations are shaded gray. Detectable concentrations that are greater than the applicable and most stringent soil screening levels are shaded yellow.

ND = not detected at the laboratory reporting limits, varying from 0.0040 to 0.10 mg/Kg with no dilution to 0.80 to 20 mg/Kg for a dilution factor of 200.

BTEX = benzene, toluene, ethylbenzene, total xylenes

MTBE = methyl tertiary butyl ether

VOCs = volatile organic compounds

PAHs = polynuclear aromatic hydrocarbons

Var. = Varies by individual compound

SFBRWQCB = San Francisco Bay Regional Water Quality Control Board

Environmental screening levels for residential land use taken from SFBRWQCB Environmental Screening Levels, December 2013.

<sup>-- =</sup> not analyzed

<sup>&</sup>lt; = less than

TABLE 2
Concentrations of Organic Compounds in Ground-Water Samples
Properties at 760 22nd Street and 2201 Brush Street, Oakland, California

	PI	ES Environ	mental, In	ıc.	Essel Environmental Consulting																
Boring	B-1	B-2	B-5	B-6	ECB-1	ECB-2	ECB-3	ECB-4	ECB-5	ECB-6	ECB-7	ECB-8	ECB-9	ECB-10	ECB-11	ECB-12	ECB-13	ECB-14	MCL	ESL	ESL VI
Sample Number	B-1	B-2	B-5	B-6	W-ECB1	W-ECB2	W-ECB3	W-ECB4	W-ECB5	W-ECB6	W-ECB7	W-ECB8	W-ECB9	W-ECB10	W-ECB11	W-ECB12	W-ECB13	W-ECB14	WICL	EJL	ESE VI
Date Sampled	9/8/05	9/8/05	9/8/05	9/8/05	9/25/15	9/25/15	9/24/15	9/24/15	9/25/15	9/25/15	9/25/15	9/25/15	9/25/15	9/25/15	9/25/15	9/25/15	9/24/15	9/24/15			
Analyte																					
D. C. L. W. L. L. L.																					
Petroleum Hydrocarbons TPH-gas	<50	<50	<50	<50	<50	330	710	1,200	430	<50	<50	<50	<50	00	<50	<50	<50	<50	NA	100	No Value
TPH-diesel	360	3,200	530	170	<50 <50	4,900	24.000	3,100	100		<50 <50	<50 <50	<50 <50	98	<50 <50	<50 <50	<50		NA NA	100	No Value No Value
		<100		230	<250	1,700	7,300	780	<250	<50 <250		<250	<250	3,100 17,000	<250	<250		56 <250			
TPH-motor oil	190	<100	490	230	<250	1,/00	7,300	780	<250	<250	<250	<250	<250	17,000	<250	<250	<250	<250	NA	100	No Value
VOCs																					
Benzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.0	1.0	27
Toluene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	150	40	95,000
Ethylbenzene	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	300	30	310
Xylenes	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.56	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1,750	20	37,000
Methyl tertiary butyl ether	0.61	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	13	5.0	9,900
tert-Butyl alcohol					3.9	<2.0	<2.0	<2.0	<2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 2.0	<2.0	NA	12	No Value
Naphthalene					< 0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA	6.1	160
Acetone					92	42	18	<10	12	<10	14	25	27	19	<10	<10	11	<10	NA	1,500	130,000,000
Bromomethane		_			<0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	0.59	<0.50	<0.50	<0.50	0.67	<0.50	<0.50	<0.50	NA.	7.1	NA
2-Butanone (MEK)					11	6.6	<2.0	<2.0	3.6	<2.0	3.8	4.7	4.9	4.8	2.6	2.2	2.8	<2.0	NA NA	4,900	23,000,000
n-Butyl benzene		_	_		<0.50	<0.50	0.91	1.4	0.92	<0.50	<0.50	< 0.50	<0.50	<0.50	< 0.50	<0.50	<0.50	<0.50	NA	NA	NA
sec-Butyl benzene		_			<0.50	< 0.50	1.4	2.0	1.4	<0.50	<0.50	<0.50	<0.50	0.67	<0.50	<0.50	<0.50	<0.50	NA	NA	NA
tert-Butyl benzene		_	_		<0.50	< 0.50	<0.50	0.71	<0.50	<0.50	<0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	< 0.50	<0.50	NA	NA.	NA.
2-Hexanone					2.0	<0.50	<0.50	<0.50	<0.50	< 0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	NA	NA.	NA.
Isopropylbenzene					< 0.50	<0.50	<0.50	2.0	1.1	<0.50	<0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA
4-Isopropyl toluene					<0.50	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.99	<0.50	<0.50	NA	NA	NA
4-Methyl-2-pentanone (MIBK)					<0.50	0.78	<0.50	<0.50	<0.50	<0.50	<0.50	< 0.50	<0.50	0.99	<0.50	<0.50	<0.50	<0.50	NA	120	11,000,000
n-Propyl benzene					<0.50	<0.50	0.67	1.8	1.3	<0.50	<0.50	< 0.50	< 0.50	<0.50	<0.50	<0.50	< 0.50	<0.50	NA	NA	NA
1,2,4-Trimethylbenzene					<0.50	< 0.50	<0.50	<0.50	0.62	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	NA	NA	NA
cis -1,2-Dichloroethene					-0.50	10.50	-0.50	4.0	10.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	-0.50	:0.50			2.100
, , , , , , , , , , , , , , , , , , , ,					<0.50	<0.50	<0.50	1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	< 0.50	<0.50	6.0	6.0	3,100
Vinyl chloride					<0.50	<0.50	<0.50	0.67	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.5	0.5	1.8
PAHs																					
Acenapthene						< 0.50	1.9		< 0.50		< 0.50	< 0.50		< 0.50		< 0.50			NA	20	No Value
1-Methylnaphthalene						< 0.50	<0.50		< 0.50		< 0.50	< 0.50		0.57		< 0.50			NA	NA	NA
Naphthalene						< 0.50	< 0.50		< 0.50		< 0.50	< 0.50		<0.50		< 0.50			NA	6.1	160
						< 0.50	3.3		< 0.50		< 0.50	< 0.50		< 0.50		< 0.50					No Value

Results and health-risk levels are in micrograms per liter = parts per billion.

Detectable concentrations are shaded gray.

Detectable concentrations that are greater than an applicable health-risk standard are shaded yellow.

TPH = total petroleum hydrocarbons

VOCs = volatile organic compounds

PAHs - polynuclear aromatic hydrocarbons

MCL = California Maximum Contaminant Level taken from California Department of Public Health website, updated September 23, 2015

ESL = Environmental Screening Level

ESL VI = Environmental Screening Level for evaluation of the potential for vapor intrusion at residential properties underlain by mixed fine- and coarse-grained sediment.

-- = not analyzed

< = less than

NA = not available

Environmental screening levels for drinking water and vapor intrusion risk are taken from San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels, December 2013.

TABLE 3 Ground-Water Data Properties at 760 22nd Street and 2201 Brush Street, Oakland, California

Boring	Date	Depth of Boring (feet below ground surface)	Depth to Water (feet below ground surface)	Free Phase Product (feet)		
ECB-1	9/25/15	20	16.2	0.0		
ECB-2	9/25/15	20	14.24	0.0		
ECB-3	9/24/15	20	14.34	0.0		
ECB-4	9/24/15	20	14.3	0.0		
ECB-5	9/25/15	20	14.61	0.0		
ECB-6	9/25/15	20	14.1	0.0		
ECB-7	9/25/15	20.8	20.19	0.0		
ECB-8	9/25/15	20	17.26	0.0		
ECB-9	9/25/15	20	17.95	0.0		
ECB-10	9/25/15	20	14.4	0.0		
ECB-11	9/25/15	17	14.29	0.0		
ECB-12	9/25/15	20	13.69	0.0		
ECB-13	9/24/15	20	19.85	0.0		
ECB-14	9/24/15	20	12.41	0.0		

TABLE 4 Concentrations of Volatile Organic Compounds in Soil-Vapor Samples Properties at 760 22nd Street and 2201 Brush Street, Oakland, California

Soil Probe	SV-1	SV-2	05550005	
Date	10/08/15	10/08/15	SFBRWQCB	OEHHA
Sample Number	SV-1	SV-2	Screening Levels	Soil Gas Numbers
Depth of Sample (feet)	9.50	9.25	Residential	Residential
Analyte				
Benzene	28	<3.7	42	85
Ethylbenzene	39	<5.0	490	1,100
Toluene	<8.7	<4.3	160,000	320,000
m,p-xylene	130	<5.0	52,000	740,000
o-xylene	68	<5.0	52,000	740,000
Methyl tertiary butyl ether	110	<4.1	4,700	8,600
Naphthalene	<24	<12	36	93
Heptane	260	<4.7		
Hexane	460	<4.0		
Cumene (isopropylbenzene)	22	<5.6		
Cyclohexane	240	<4.0		
4-ethyltoluene	240	<5.6		
Propylbenzene	83	<5.6		
1,2,4-trimethylbenzene	280	<5.6		
1,3,5-trimethylbenzene	79	<5.6		
2,2,4-trimethylpentane	1,400	<5.4		
2,2,4 timethylperitane	1,400	, , , , , , , , , , , , , , , , , , ,		
cis -1,2-dichloroethene	110	<4.6	3,700	41,000
Tetrachloroethene	<16	150	210	470
Trichloroethene	<12	<6.2	300	1,300
Vinyl chloride	31	<2.9	16	28
Villyi chionae	31	\Z.3	10	20
2-propanol (isopropyl alcohol)	<23	<11	<del></del>	
Carbon disulfide	<29	15		
Chloroform	<11	34	230	
ornor or o	311	01	200	
TPH as gasoline	64,000	450	300,000	
as gassiiis	0 1,000	100	333,333	
Oxygen (percent)	1.6	14		
Nitrogen (percent)	92	81	<u></u>	
Methane (percent)	0.013	<0.00023	<del></del>	
Carbon Dioxide (percent)	6.1	5.2	<del></del>	
Sales Sionas (porsoni)	V. I	U.L	I	ı

Results for volatile organic compounds and screening levels and numbers are in micrograms per cubic meter.

Results for TPH as gasoline are in micrograms per cubic meter.

Soil gas numbers for volatile chemicals below buildings constructed with engineered fill below sub-slab gravel.

Detectable concentrations are shaded gray. Concentrations greater than applicable screening levels are shaded yellow.

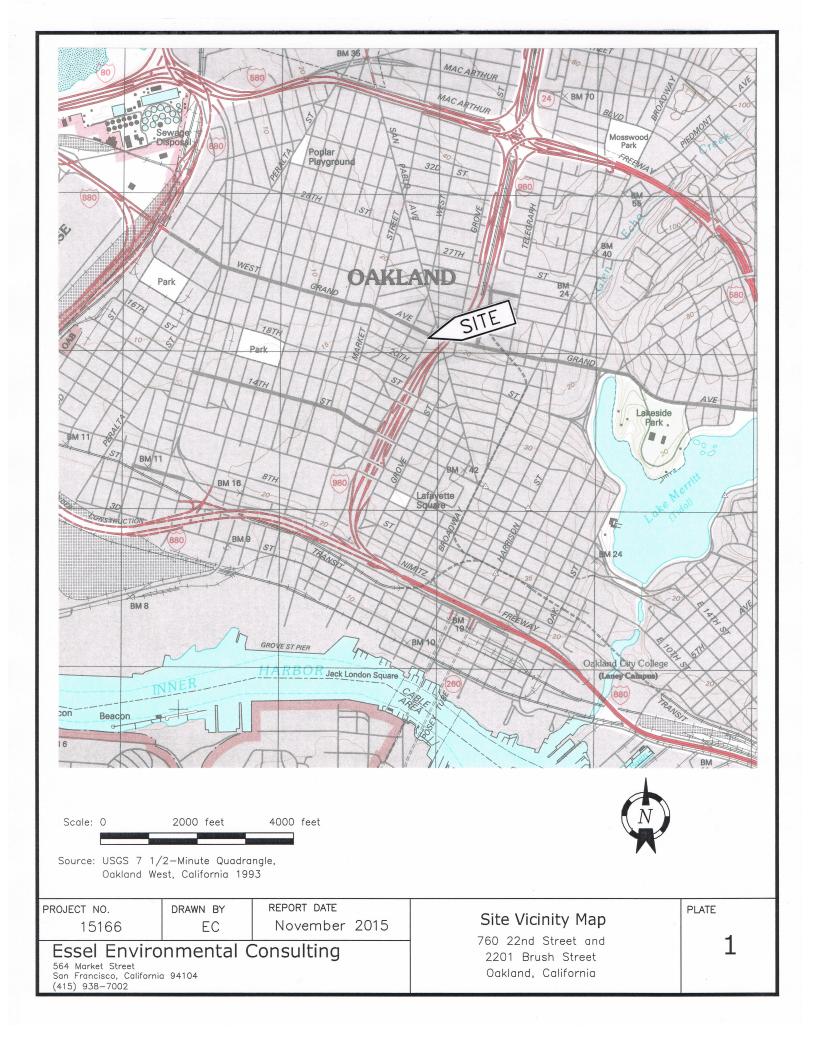
TPH = total petroleum hydrocarbons

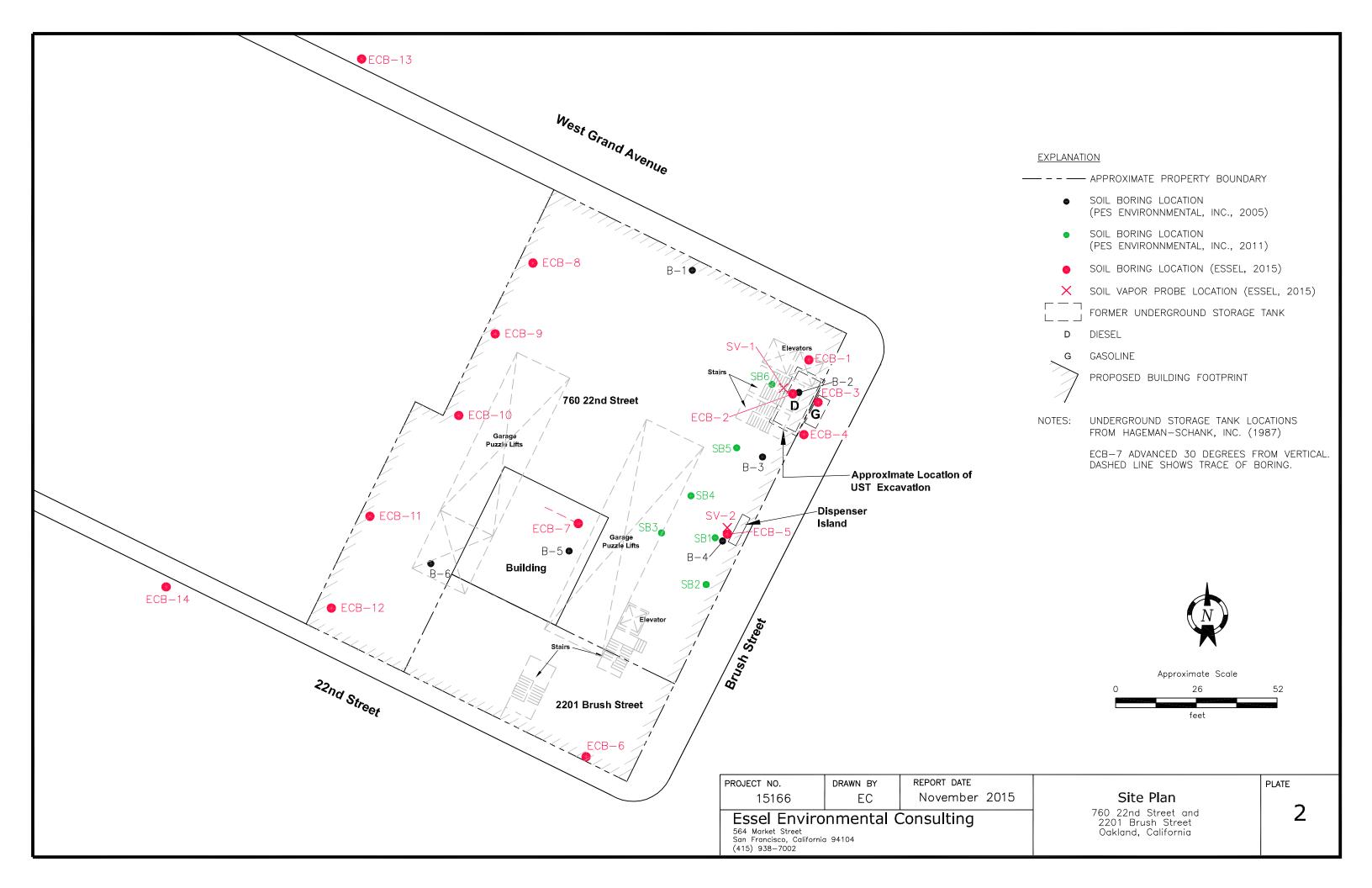
SFBRWQCB = San Francisco Bay Regional Water Quality Control Board

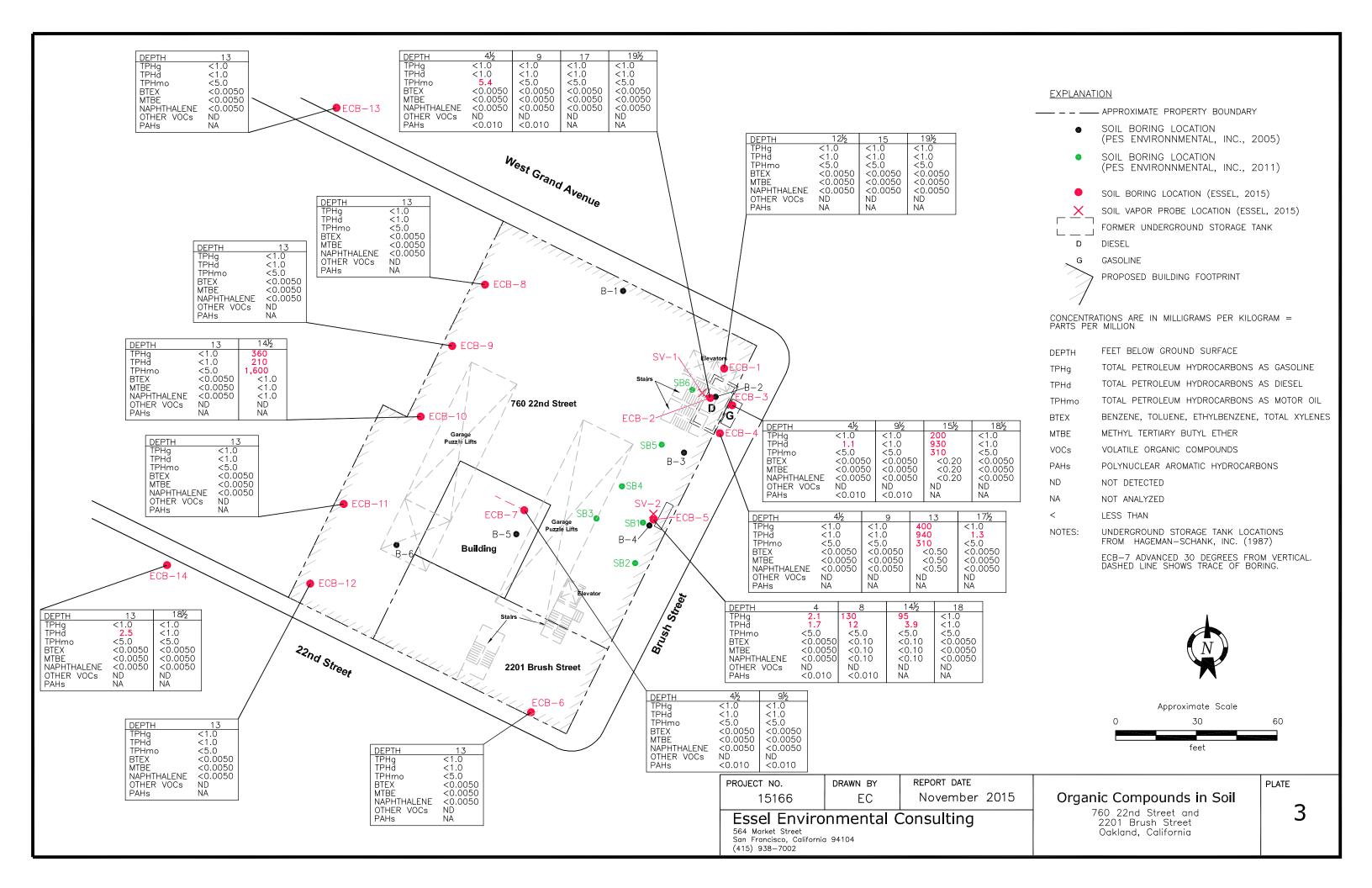
OEHHA = Office of Environmental Health Hazard Assessment

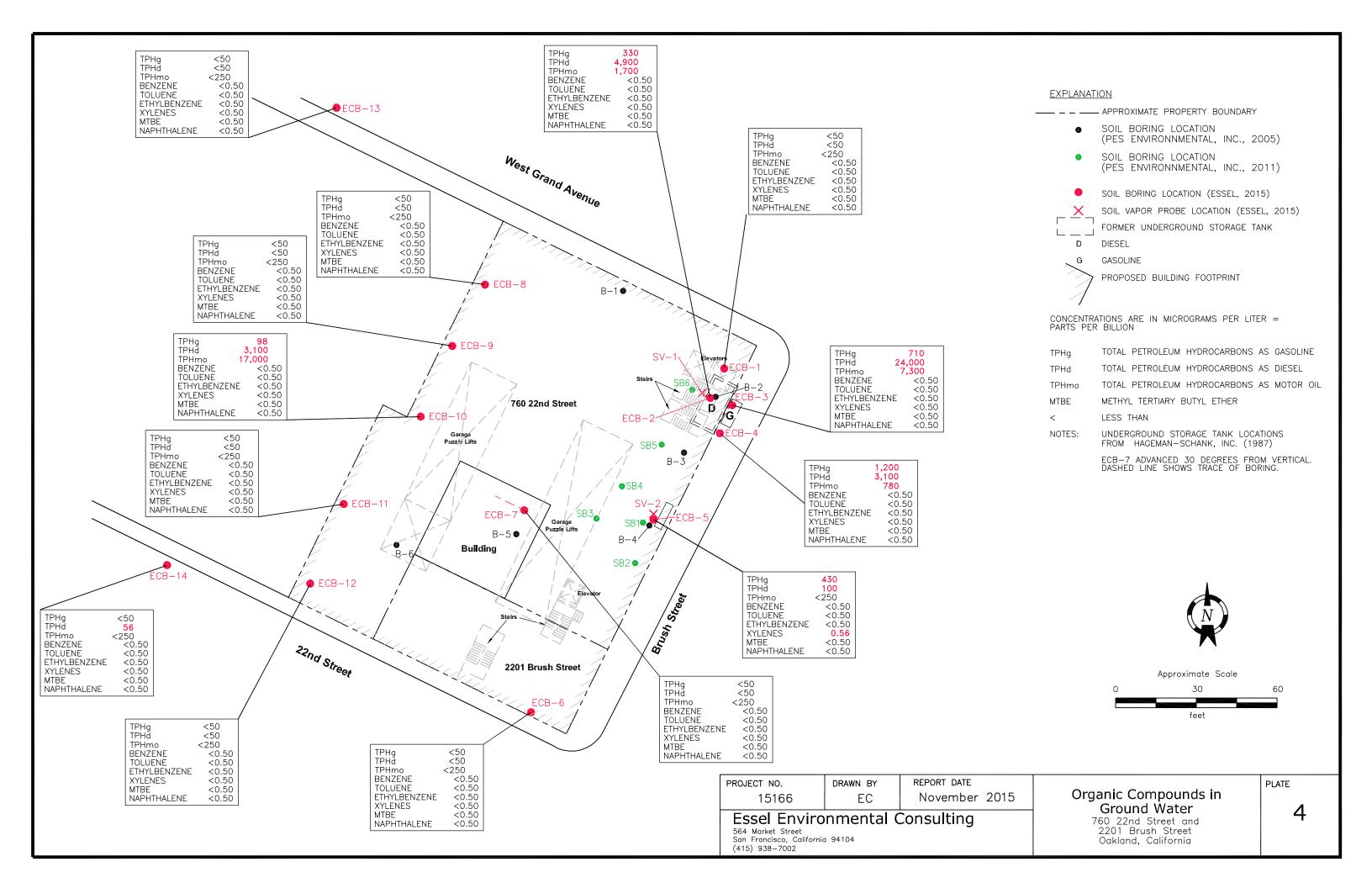
<sup>&</sup>lt; = less than the laboratory method detection limit shown.

<sup>-- =</sup> no value available.









# **APPENDIX A**

FIELD PROCEDURES

#### FIELD PROCEDURES

#### **Permits and Utility Clearance**

Essel submitted an application to advance the fourteen borings to the Alameda County Public Works Agency (ACPWA) and the ACPWA issued Water Resources Well Permit Number W2015-0868 on September 21, 2015. Essel also submitted two encroachment permit applications to the City of Oakland Planning and Building Department (City) to advance the two off-site borings. The City issued permit Number X1502122 for one boring on West Grand Avenue and Permit Number X1502123 for one boring on 22<sup>nd</sup> Street. In addition, the City issued obstruction permit OB1500946 to allow one parking space on West Grand Avenue and 22<sup>nd</sup> Street to be blocked for each boring. Copies of the approved drilling and encroachment permits are included in Appendix B.

Essel marked the proposed boring locations and notified Underground Services Alert of Northern California and Nevada on September 22, 2015 of the planned drilling activities. This notification occurred more than 48 hours before drilling began. Essel also subcontracted with West Coast Locators, Inc. (West Coast) of San Francisco, California to clear boring locations with respect to subsurface utilities. On September 22, 2015, West Coast used electromagnetic and ground-penetrating radar (GPR) equipment to identify potential subsurface utilities or other obstructions at the proposed boring locations. Some boring locations were adjusted as a result of the utility clearance work. The GPR survey identified an anomaly at the proposed location of boring ECB-10 near the west-central edge of the site and this boring location was moved. The anomaly was noted to start at a depth of 3 to 5 feet below the ground surface and was inferred by the GPR operator to be related to either a significant change in soil density or a void. During the survey, Essel also observed a nearby standpipe that appeared similar to a vent pipe associated with an underground storage tank.

Essel prepared a site-specific Health and Safety Plan (Plan) before conducting fieldwork and this Plan was available at the site during field activities. Essel and subcontractor personnel were apprised of potential on-site hazards during a field orientation meeting that was conducted before field work began.

#### **Drilling Borings and Sampling Soil**

Field work to advance borings, collect soil and ground-water samples, and install vapor wells took place on September 24 and 25, 2015. PeneCore Drilling of Woodland, California (C-57 license number 906899) used a Geoprobe 7822DT, track-mounted, direct-push drill rig to advance borings ECB-1 through ECB-10, ECB-12 through ECB-14, and soil-vapor borings SV-1 and SV-2. A Geoprobe 420M limited access drill rig was used to advance boring ECB-11, which was placed behind the mobile trailer located in the southwestern portion of the site. Thirteen vertical borings were advanced to a total depth of 20 feet below the ground surface. Boring ECB-7 was advanced a distance of 24 feet at an angle of 30 feet from vertical to reach a total vertical depth of 20.8 feet below grade. The borings for soil vapor wells SV-1 and SV-2 were each advanced to a depth of 10 feet below the ground surface. Drilling equipment was decontaminated (i.e., steam cleaned) between boring locations to avoid potential cross-contamination of samples.

Continuous soil cores were collected from the borings using a 2½-inch-outside-diameter, hollow steel rod fitted with a 1½-inch-outside-diameter by 4-foot-long, clear plastic sleeve. The plastic sleeve was removed from the core barrel after each sampling interval and replaced with a clean plastic sleeve for the next lower sampling interval. Soil cores contained in the plastic sleeves were

cut into 1- to 2-foot lengths for field screening for contaminants, identifying and describing sediments, and selecting samples for laboratory analysis. Samples retrieved from the borings were screened for potential contaminants using a photoionization detector, through visual observation of the soil for discoloration, and noting any odors in the soil.

As described above, Essel retained from one to four soil samples from each boring for laboratory analysis. A minimum 6-inch-long section of the plastic sleeve was cut at the selected sample depth and the ends of each sleeve were covered with Teflon sheets, sealed with plastic caps, and wrapped with duct tape. Each sample was then labeled and placed on ice in a cooler pending delivery to the laboratory. Essel prepared Chain-of-Custody forms for the soil samples and these forms accompanied the samples to the laboratory. Copies of the Chain-of-Custody forms are included in Appendix D.

#### **Sampling Ground Water**

Water samples were collected through ¾-inch-diameter polyvinyl chloride (PVC) casings that were placed in the boreholes. Before sampling, the depth to any free-phase petroleum product and the depth to ground water were measured through the temporary casings using an electronic oil-water interface probe. Water samples were collected through ¼-inch-diameter polyethylene tubing, which was inserted into the PVC casings and attached to a peristaltic pump. The water samples were placed into 40-milliliter clear glass vials containing hydrochloric acid as a preservative, 40-milliliter amber glass vials that contained no preserving solution, and 1-liter amber glass bottles that also contained no preserving solution. The sample containers were filled completely to eliminate air bubbles and were sealed with Teflon-lined caps, labeled, and placed on ice in a closed cooler. Essel completed Chain-of-Custody forms for the water samples and these forms accompanied the samples to the laboratory. Copies of the Chain-of-Custody forms are contained in Appendix D.

After drilling and sampling, each borehole was backfilled with neat cement slurry from the total depth to the ground surface. A representative of the ACPWA was present to observe backfilling of one borehole to confirm the procedure conformed to the requirements of the drilling permit. Essel provided the ACPWA with photographs of the remaining backfilled borings.

#### **Installing Soil Vapor Wells and Sampling Soil Vapor**

Permanent soil vapor wells SV-1 and SV-2 were installed on September 25, 2015. The two boreholes for SV-1 and SV-2 were advanced to a depth of 10 feet below grade. The vapor wells consist of a stainless-steel filter screen inserted into ¼-inch-diameter Teflon tubing. The filter screen was suspended at a depth of 9½ and 9¼ feet below grade in probe holes SV-1 and SV-2, respectively. These depths coincide with silt, silty sand, and clayey sand units that underlay the shallow clay observed in the soil cores from the two borings. The probes were completed by placing 6 inches of #3 Monterey sand below and from 3 to 6 inches of sand above the filter screen, placing 1 foot of dry granular bentonite above the sand, and placing granular bentonite in lifts to the ground surface. Each lift of bentonite was hydrated with clean water to provide an airtight seal above the sand and filter screens and around the tubing to a few inches below the ground surface. The top end of each tubing was capped with a valve to prevent atmospheric air from entering the probe hole. A 6-inch-diameter, steel well box was placed around each probe tubing and secured in place with concrete.

Subsurface conditions were allowed to equilibrate for a period of 2 weeks before soil vapor wells SV-1 and SV-2 were purged and sampled on October 8, 2015. The soil-vapor probe purging and sampling system consisted of a 6-liter purging Summa canister; a 1-liter sampling Summa canister; and a manifold containing vacuum gauges, a flow controller, and moisture filter. The laboratory evacuated each Summa canister to a negative pressure (i.e. vacuum) of approximately 30 inches of mercury. Before purging the soil vapor wells, Essel performed a shut-in test of each purging and sampling canister and connecting manifold assembly to check for potential leaks in the system. The shut-in test was performed for a period slightly longer than 1 minute and no loss in vacuum was observed. The 6-liter purge and 1-liter sampling Summa canisters along with the manifold assembly were then connected to the soil vapor probe tubing using additional Teflon tubing. Each soil vapor probe was purged one volume (tubing and void space around the sand grains) using the 6-liter Summa canister. A total of 400 milliliters of air was purged from each vapor probe.

After purging, the valve on the purging canister was closed and a box (i.e., shroud) was placed over all of the sampling assembly, except the sampling canister. A small open cup of isopropyl alcohol was placed inside the shroud to provide a tracer gas during sampling. The tracer was allowed to volatilize for a few minutes before the valve on the 1-liter sampling Summa canister was opened to collect each vapor sample. Soil-vapor samples were collected at a maximum controlled flow rate between 100 and 200 milliliters per minute. Sampling was completed when the vacuum gauges indicated that the negative pressure in the canisters was at 5 inches of mercury. At the completion of sampling, the valves on the sampling canisters were closed, the manifold assemblies were disconnected, and the canisters were packaged in boxes. Essel prepared a Chain-of-Custody form for the vapor samples and this form accompanied the samples to the laboratory.

At the completion of sampling, the Teflon tubing of each vapor probe was recapped and the wells boxes were closed. Future vapor sampling may be performed if necessary.

# **APPENDIX B**

**DRILLING AND ENCROACHMENT PERMITS** 

#### Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street Hayward, CA 94544-1395 Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 09/21/2015 By jamesy

Permit Numbers: W2015-0868 Permits Valid from 09/24/2015 to 09/25/2015

Phone: 510-287-5353

City of Project Site: Alameda Application Id: 1442515184199

760 22nd Street (APN 3-25-10) and 2201 Brush Street (APN 3-25-11) Single property. Consisting Site Location:

of two parcels.

Property currently used for buses parking.

**Project Start Date:** Completion Date: 09/25/2015 09/24/2015 Contact Balance Hydrologics, Inc at (510) 473-5663 or acwells@balancehydro.com **Assigned Inspector:** 

**Applicant:** Essel Environmental Consulting - Hugo Phone: 415-960-9528

Mendoza

351 California Street, Suite 615, San Francisco, CA 94104

**Property Owner:** E.B. A.L.D.C.

1825 San Pablo Avenue, Suite 200, Oakland, CA 94612

\*\* same as Property Owner \* Client:

Contact: Hugo Mendoza Phone: --Cell: 415-960-9528

**Total Due:** 

\$265.00 Receipt Number: WR2015-0462 \$265.00 **Total Amount Paid:** 

**PAID IN FULL** Payer Name : Sagnik Lahiri Paid By: VISA

#### **Works Requesting Permits:**

Borehole(s) for Geo Probes-Sampling 24 to 72 hours only - 14 Boreholes

Driller: Penecore Drilling Inc. - Lic #: 906899 - Method: DP Work Total: \$265.00

#### **Specifications**

Permit	Issued Dt	Expire Dt	#	Hole Diam	Max Depth
Number			Boreholes		
W2015-	09/21/2015	12/23/2015	14	2.50 in.	15.00 ft
0060					

#### **Specific Work Permit Conditions**

- Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
- 2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
- 3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
- 4. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
- 5. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters

#### Alameda County Public Works Agency - Water Resources Well Permit

generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

#### 7. NOTE:

Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.

- 8. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.
- 9. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.



# CITY OF OAKLAND



250 FRANK H. OGAWA PLAZA . 2ND FLOOR . OAKLAND, CA 94612

Planning and Building Department	
www.oaklandnet.com	

PH: 510-238-3891 FAX: 510-238-2263

TDD: 510-238-3254

Permit No:

X1502122

OPW - Excavation

Filed Date: 9/16/2015

Job Site:

760 22ND ST

Schedule Inspection by calling: 518-238

Parcel No: District:

003 002501000

For SL; X; and CGS permits see SPECIAL NOTE below

Project Description:

Soil boring on West Grand Ave near Brush Street; see site plan.

If working within 25' feet of a monument you must comply with State Law 8771, contact the

Inspector prior to starting excavation: minimum \$5,800.00 fine for non-compliance.

No impact on traffic lane (vehicular or pedestrian) allowed without approved Traffic Control

Plan.

Contact: Hugo Mendoza, Essel Enviro, 415 960-9528.

Permit valid 90 days.

Separate Obstruction permit required to reserve/block parking lane. Call PWA INSPECTION prior to start: 510-238-3651. 4th FLOOR.

**Related Permits:** 

X1502123

<u>Name</u>	<u>Applicant</u>	Address	<u>Phone</u>	License #
WEST GRAND & BRUSH LLC		1825 SAN PABLO AVE OAKLAND, CA		-3.1(1)3015
T S A DRILLING INC	X	220 NORTH EAST ST WOODLAND, CA	(530) 661-3600	906899

Contractor-Employee:

Owner:

PERMIT DETAILS: Building/Public Infrastructure/Excavation/NA

General Information

Excavation Type: Private Party Date Street Last Resurfaced:

Worker's Compensation Policy #:

Special Paving Detail Required:

Tree Removal Involved:

Holiday Restriction (Nov 1 - Jan 1):

Worker's Compensation Company Name: Limited Operation Area (7AM-9AM) And (4PM-6PM):

**Key Dates** 

Approximate Start Date: Approximate End Date:

TOTAL FEES TO BE PAID AT FILING: \$434.91

\$70.00 \$309.00 \$36.01 Application Fee Excavation - Private Party Type Records Management Fee Technology Enhancement Fee \$19.90

Plans Checked By	Date	Permit Issued By	Date	9.16

Finalized By	Date

#### SPECIAL NOTE

- For SL; X; and CGS permits Call PWA INSPECTION prior to start: 510-238-3651 or visit 4th FLOOR.
  - SL and X permits valid 90 days; CGS permits valid 30 days



Permit No: X1502122

Parcel No: 003 002501000

Page 2 of 2

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#### LICENSED CONTRACTOR'S DECLARATION

I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

# CONSTRUCTION LENDING AGENCY DECLARATION I hereby affirm under penalty of perjury that there is a

which this pe				il Code).	of the	work	tor
Lender's Nam	ne				*		4
Branch Desig	nation						
Lender's Add	ress						
	WORKER			ION DECLAR			
WARNING:	FAILURE	TO	SECURE	WORKERS'	COMI	PENSAT	TON

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

I hereby affirm under penalty of perjury one of the following declarations:

	1 1	have	and	will	ma	intair	n a	CE	ertific	ate	of	conse	ent	to	self-in	sure
for	W	orkers	s' co	ompen	sati	on,	issu	led	by	th	е	Direct	or	of	Indus	trial
Rela	tion	is as		provid	led	for	by	Sec	ction	370	00 o	f the	La	bor	Code,	for
the	nerf	orma	nce of	the w	ork	for w	hich	thi	s per	mit	is is	sued.				

	have	and v	vill main	tain	worke	rs' coi	mpen	sation	insurance,	a
require	d by	Section	3700 of	the	Labor	Code,	for	the	performance	0
the wor	k for v	vhich this	permit is	issue	d.					

☐ I certify that, in	the performa	nce of the	work for	which this
permit is issued, I sh	all not emplo	y any perso	n in any	manner so
as to become subje	ct to the	workers' co	mpensation	laws of
California, and agree	that, if I	should beco	ome subje	ct to the
workers' compensation	provisions	of Section	3700 of	the Labor
Code, I shall forthwith com	ply with those p	orovisions.		

#### RRP ACKNOWLEDGMENT

EPA's Lead Renovation, Repair and Painting Rule (RRP Rule) requires that firms performing renovation, repair, and painting projects that disturb lead-based paint in homes, child care facilities and pre-schools built before 1978 have their firm certified by EPA or use certified renovators who are trained by EPA-approved training providers and follow lead-safe work practices. As the contractor preparing to do work on a Pre-1978

building, I have read the explanation of the RRP Rule and will ensure that any paint disturbing work will be done by or supervised by an RRP certified individual(s). Failure to follow this rule may result in enforcement action by the EPA. For additional information on complying with lead safety requirements, contact the Alameda County Healthy Homes Department at (510) 567-8280 or 1-800-253-2372 or visit http://www.achhd.org.

Job Site: 760 22ND ST

#### HAZARDOUS MATERIALS DECLARATION

I hereby affirm that the intended occupancy  $\square$  WILL  $\square$  WILL NOT use, handle or store any hazardous, or acutely hazardous, materials. (Checking "WILL" acknowledges that Sections 25505, 25533, and 25534 of the Health and Safety Code, as well as filing instructions were made available to you).

I HEREBY CERTIFY THE FOLLOWING: That I have read this document; that the above information is correct; and that I have truthfully affirmed all applicable declarations contained in this document. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this city to enter upon the above-mentioned property for inspection purposes.

I hereby agree to save, defend, indemnify and keep harmless the City of Oakland and its officials, officers, employees, representatives, agents, and volunteers from all actions, claims, demands, litigation, or proceedings, including those for attorneys' fees, against the City in consequence of the granting of this permit or from the use or occupancy of the public right-of-way, public easement, or any sidewalk, street or sub-sidewalk or otherwise by virtue thereof, and will in all things strictly comply with the conditions under which this permit is granted I further certify that I am the owner of the property involved in this permit or that I am fully authorized by the owner to access the property and perform the work authorized by this permit.

☐ Contractor, or ☐ Contractor's Agent	A PARTY OF	Date
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		144 944
lame		and the state.

NOTICE: No activities related to the approved work, including storage/use of materials, is allowed within the public right-of-way without an encroachment permit. Dust control measures shall be used throughout all phases of construction.



# CITY OF OAKLAND



### 250 FRANK H. OGAWA PLAZA - 2ND FLOOR - OAKLAND, CA 94612

Planning and Building Department			
www.oaklandnet.com			

PH: 510-238-3891 FAX: 510-238-2263

TDD: 510-238-3254

Permit No:

X1502123

**OPW** - Excavation

Filed Date: 9/16/2015

Job Site:

2201 BRUSH ST

Schedule Inspection by calling 54

Parcel No:

003 002501100

For SL; X; and CGS permits see SPECIAL NOTE below

District:

**Project Description:** 

Soil boring on 22nd St near Brush Street; see site plan.

If working within 25' feet of a monument you must comply with State Law 8771, contact the

Inspector prior to starting excavation: minimum \$5,800.00 fine for non-compliance.

No impact on traffic lane (vehicular or pedestrian) allowed without approved Traffic Control

Plan.

Contact: Hugo Mendoza, Essel Enviro, 415 960-9528.

Permit valid 90 days.

Separate Obstruction permit required to reserve/block parking lane.

Call PWA INSPECTION prior to start: 510-238-3651. 4th FLOOR.

**Related Permits:** 

X1502122

	<u>Name</u>	<u>Applicant</u>	Address	<u>Phone</u>	License #
ner:	WEST GRAND & BRUSH LLC		1825 SAN PABLO AVE OAKLAND, CA		2002/ 1/2015
tractor-	T S A DRILLING INC	X	220 NORTH EAST ST WOODLAND, CA	(530) 661-3600	906899
1					

Employee:

Own Conti

PERMIT DETAILS: Building/Public Infrastructure/Excavation/NA

General Information

Excavation Type: Private Party

Special Paving Detail Required:

Tree Removal Involved:

Date Street Last Resurfaced:

Holiday Restriction (Nov 1 - Jan 1):

Worker's Compensation Company Name:

Worker's Compensation Policy #:

Limited Operation Area (7AM-9AM) And (4PM-6PM):

Key Dates

Approximate Start Date:

Approximate End Date:

TOTAL	FFFC TO	DEDAID	AT FILING:	CADAO
IOIAI	FFF5 IL	J BE PAID	AI FILING:	3434.9

Application Fee \$70.00 Excavation - Private Party Type \$309.00 Records Management Fee \$36.01 Technology Enhancement Fee \$19.90

Plans Checked By	Date	Permit Issued By	9	Date 9:16
SE SEE TOURS			The Later Control	13/ 3/19/3/
		Finalized By		Date

#### SPECIAL NOTE

- For SL; X; and CGS permits Call PWA INSPECTION prior to start: 510-238-3651 or visit 4th FLOOR.
  - SL and X permits valid 90 days; CGS permits valid 30 days



**Permit No:** X1502123

D2123 Parcel No: 003 002501100

Job Site: 2201 BRUSH ST

Page 2 of 2

#### LICENSED CONTRACTOR'S DECLARATION

I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

# CONSTRUCTION LENDING AGENCY DECLARATION I hereby affirm under penalty of perjury that there is a

construction lending agency for the performance of the work for	
which this permit is issued (Section 8172, Civil Code).	I hereby affirm that the
	use, handle or store
Lender's Name	materials. (Checking "V
Branch Designation	25533, and 25534 of the
	instructions were made availab
Lender's Address	
	I HEREBY CERTIFY THE FOL
WORKERS' COMPENSATION DECLARATION	that the above information affirmed all applicable of

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF

THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for workers' compensation, issued by the Director of Industrial Relations as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

□ I certify that, in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that, if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

#### RRP ACKNOWLEDGMENT

EPA's Lead Renovation, Repair and Painting Rule (RRP Rule) requires that firms performing renovation, repair, and painting projects that disturb lead-based paint in homes, child care facilities and pre-schools built before 1978 have their firm certified by EPA or use certified renovators who are trained by EPA-approved training providers and follow lead-safe work practices. As the contractor preparing to do work on a Pre-1978

building, I have read the explanation of the RRP Rule and will ensure that any paint disturbing work will be done by or supervised by an RRP certified individual(s). Failure to follow this rule may result in enforcement action by the EPA. For additional information on complying with lead safety requirements, contact the Alameda County Healthy Homes Department at (510) 567-8280 or 1-800-253-2372 or visit http://www.achhd.org.

#### HAZARDOUS MATERIALS DECLARATION

I hereby affirm that the intended occupancy  $\square$  WILL  $\square$  WILL NOT use, handle or store any hazardous, or acutely hazardous, materials. (Checking "WILL" acknowledges that Sections 25505, 25533, and 25534 of the Health and Safety Code, as well as filing instructions were made available to you).

I HEREBY CERTIFY THE FOLLOWING: That I have read this document; that the above information is correct; and that I have truthfully affirmed all applicable declarations contained in this document. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this city to enter upon the above-mentioned property for inspection purposes.

I hereby agree to save, defend, indemnify and keep harmless the City of Oakland and its officials, officers, employees, representatives, agents, and volunteers from all actions, claims, demands, litigation, or proceedings, including those for attorneys' fees, against the City in consequence of the granting of this permit or from the use or occupancy of the public right-of-way, public easement, or any sidewalk, street or sub-sidewalk or otherwise by virtue thereof, and will in all things strictly comply with the conditions under which this permit is granted I further certify that I am the owner of the property involved in this permit or that I am fully authorized by the owner to access the property and perform the work authorized by this permit.

Name	- 34		
Signature			
☐ Contractor, or ☐ Contractor's Agent	7	Date	

NOTICE: No activities related to the approved work, including storage/use of materials, is allowed within the public right-of-way without an encroachment permit. Dust control measures shall be used throughout all phases of construction.



## CITY OF OAKLAND

# 250 FRANK H. OGAWA PLAZA - 2ND FLOOR - OAKLAND, CA 94612

Planning and Building Department www.oaklandnet.com

PH: 510-238-3891

FAX: 510-238-2263

TDD: 510-238-3254

Permit No:

OB1500946

Obstruction

Filed Date: 9/16/2015

Job Site:

2201 BRUSH ST

Schedule Inspection by calling: 510-238-3444

Parcel No:

003 002501100

District:

**Project Description:** 

Block one non-metered space at each of these locations: 777 W Grand Ave & 768 22nd St

adjacent to project re: Soil boring on 22nd St near Brush Street; see site plan.

Note: NO FEE per X1502122 & -2123.

If working within 25' feet of a monument you must comply with State Law 8771, contact the

Inspector prior to starting excavation: minimum \$5,800.00 fine for non-compliance.

No impact on traffic lane (vehicular or pedestrian) allowed without approved Traffic Control

Plan.

Contact: Hugo Mendoza, Essel Enviro, 415 960-9528.

Call PWA INSPECTION prior to start: 510-238-3651. 4th FLOOR.

**Related Permits:** 

X1502123

	Name	<u>Applicant</u>	Address	<u>Phone</u>	<u>License #</u>
Owner:	WEST GRAND & BRUSH LLC		1825 SAN PABLO AVE OAKLAND, CA		
Contractor- Employee:	T S A DRILLING INC	X	220 NORTH EAST ST WOODLAND, CA	(530) 661-3600	906899

PERMIT DETAILS: Building/Public Use/Activity/Obstructions

Work Information

Start Date: 09/24/2015

Obstruction Permit Type:

Short Term (Max 14 Days)

End Date: 09/24/2015

Number of Meters (Metered Area):

Length Of Obstruction (Unmetered Area):

TOTAL FEES TO BE PAID AT FILING: :	\$0.00
------------------------------------	--------

Plans Checked By	Date	Permit Issued By	9	Date 9, 16
		Finalized By	#	Date

# **APPENDIX C**

**LOGS OF BORINGS** 

### UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS		LTR	DESCRIPTION	MAJOR [	DIVISIONS	LTR	DESCRIPTION	
Gravel and gravelly soils Coarse – grained		GW Well-graded gravels or gravel-sand mixtures, little or no fines				ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands	
		GP	Poorly—graded gravels or gravel—sand mixtures, little or no fines		Silts		or clayey silts with slight plasticity	
	GM	Silty gravels, gravel—sand—silt mixtures		and clays LL<50	CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays		
		GC	Clayey gravels, gravel—sand—clay mixtures	Fine— grained soils	ained	OL	Organic silts and organic silt—clays of low plasticity	
soils		sw	Well—graded sand or gravelly sands, little or no fines			мн	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils. Elastic silts	
	Sand and sandy soils	SP	Poorly—graded sands or gravelly sands, little or no fines		Silts and clays	and	СН	Inorganic clays of high plasticity, fat clays
		SM	Silty sands, sand—silt mixtures			ОН	Organic clays of medium to high plasticity, organic silts	
	SC Clayey sands, sand-clay mixtures		Clayey sands, sand-clay mixtures		organic oils	PT	Peat and other highly organic soils	

I	Depth through which sampler is driven		Sand pack
	Relatively undisturbed sample retained for analysis		Bentonite
Ţ	No sample recovered		Neat cement
<u>_</u>	Static water level		Caved or backfilled native soil
<u>=</u>	observed in well		Blank PVC
$\frac{\nabla}{\overline{}}$	Initial water level observed in boring		Machine-slotted PVC
PID	Photoionization Detector (readings in ppm)	4 . A	Concrete
FALLING 30 OF AN 18- LESS THAN DASHED LIN BOUNDARIES REPRESENT	PRESENT THE NUMBER OF BLOWS OF A 140—POUND HAMMER INCHES TO DRIVE THE SAMPLER THROUGH EACH 6 INCHES INCHES PROBLEM OF A 140—POUND HAMMER OF INCHES WAS PENETRATED WITH THE MAXIMUM 50 BLOWS.  NES SEPARATING UNITS ON THE LOG REPRESENT APPROXIMATE SONLY. ACTUAL BOUNDARIES MAY BE GRADUAL. LOGS SUBSURFACE CONDITIONS AT THE BORING LOCATION AT THE RILLING ONLY.		PERCENT BY WEIGHT DESIGNATION  TRACE 0-5 PERCENT SOME 5-15 PERCENT WITH 15-30 PERCENT -Y (EX., SANDY) 30-45 PERCENT AND 45-50 PERCENT

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NAMES AND NUMERICAL DESIGNATIONS OF COLORS ARE FROM THE ROCK-COLOR CHART (GEOLOGICAL SOCIETY OF AMERICA, 1984)

UNIFIED SOIL **CLASSIFICATION SYSTEM** AND SYMBOL KEY

> 760 22nd Street and 2201 Brush Street Oakland, California

**FIGURE** 

Total depth of boring:	20 feet
Diameter of boring:	2 1/2 inches
Date drilled:	09/24/15
Drilling Company:	PeneCore Drilling
Driller:	Juan
Drilling method:	Direct push
Sample diameter:	1 1/4 inches
Field Geologist:	Rodger Witham

Casing diameter:		NA		
Casing material:		NA		
Slot size:		NA		
Sand size:		NA		
Blank casing from	NA	to	NA	
Perforated casing from	NA	to	NA	
Annular seal from	NA	to	NA	
Bentonite plug from	NA	to	NA	
Sand pack from	NA	to	NA	

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
				Concrete	7
_ 1 _		_	СН	Silty clay (FILL), trace fine—grained sand, brownish—black (5YR 2/1), damp, high plasticity.	
_ 2 _					7
- 3 -		-	СН	Silty clay, trace fine— to coarse—grained sand, trace gravel, dusky yellowish—brown (10YR 2/2), pervasive medium bluish—gray (5B 5/1) discoloration, damp, high plasticity, petroleum odor.	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
- 4 -		0.5		Abundant white weathered sand and gravel at $4\%$ to 5 feet, no discoloration	7
- 5 -		1.1		or petroleum odor.  Moderate yellowish-brown (10YR 5/4) at 5 feet, moderately abundant medium bluish-gray (5B 5/1) discoloration, petroleum odor.	7
6 -		0.0			7
7 -		0.0			7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
- 8 -		0.3	ML	Silt, moderate yellowish—brown (10YR 5/4), some medium bluish—gray (5B 5/1) discoloration, moist, low plasticity, petroleum odor.	7
9 -		0.6	SM	Silty fine— to medium—grained sand, trace coarse—grained sand, trace gravel, moderate yellowish—brown (10YR 5/4), some dark yellowish—orange (10YR 6/6) and moderate reddish—brown (10R 4/6) staining, moist, no	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
			SW	petroleum odor. Fine— to coarse—grained sand, dark yellowish—brown (10YR 4/2), with dark yellowish—orange (10YR 6/6) and moderate reddish—brown (10R 4/6) staining, moist.	$\begin{array}{ c c c c }\hline & \nabla & \nabla & \nabla \\ \hline & 7 & \nabla & \nabla \\ \hline & \nabla & \nabla & \nabla \\ \hline & 7 & \nabla & \nabla & \nabla \\ \hline \end{array}$
10		0.3			$\begin{array}{c cccc} \nabla & \nabla & \nabla \\ \hline \hline$
		0.0			

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LOG OF BORING ECB-1 760 22nd Street and 2201 Brush Street Oakland, California FIGURE

Depth	Sample No.	;	PID in PPM	USCS Code	Description	Well Const.
				ML	Silt, trace coarse—grained sand, trace gravel, moderate yellowish—brown (10YR 5/4), some irregular medium bluish—gray (5B 5/1) discoloration, moist, low plasticity, petroleum odor.	7
12		H	0.0			
	S-12½- ECB1			CL	Fine—grained sandy clay, moderate yellowish—brown (10YR 5/4), moist, medium plasticity.	
13 —	ECDI		0.9	CH	Silty clay, trace fine— and coarse—grained sand, pervasive medium bluish—gray (5B 5/1) discoloration, some dark yellowish—orange (10YR 6/6) staining in irregular patches, very moist, high plasticity.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
-14 -			1.5			
<b>—</b> 15 <b>—</b>	S-15- ECB1		0.6	SC	Clayey fine— to coarse—grained sand, some gravel, light olive gray (5Y 5/2), some medium bluish—gray (5B 5/1) discoloration, wet, faint petroleum odor.	
16			0.3	▼ SW	Gravelly fine— to coarse—grained sand, some clay, dark yellowish—brown (10YR 4/2), wet.	7
<b>—</b> 17 <b>—</b>			0.0	SC	Clayey fine—grained sand, trace coarse—grained sand, dark yellowish—brown (10YR 4/2), some dark yellowish—orange (10YR 6/6) and dusky yellowish—brown (10YR 2/2) staining, wet, medium plasticity.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
<del>-</del> 18 <del>-</del>			0.0	CL	Fine— to coarse—grained sandy clay, some gravel, dark yellowish—brown (10YR 4/2), some dark reddish—brown (10R 3/4) and (10YR 2/2) staining, wet, medium plasticity.  Light olive gray (5Y 5/2) at 17 feet 9 inches.	
<del>-</del> 19 <del>-</del>			0.3	SC	Clayey fine— to coarse—grained sand, with gravel, dark yellowish—brown (10YR 4/2), some moderate reddish—brown (10R 4/6) and dark yellowish—orange (10YR 6/6) staining, wet.	
20	S-19½- ECB1		0.4			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
					Total depth = 20 feet. Ground water encountered at 16.2 feet.	
21-						
- 22 -						
- 23 -						
- 24 -						

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LOG OF BORING ECB-1 760 22nd Street and 2201 Brush Street

Oakland, California

FIGURE

Total depth of boring:	20 feet	
Diameter of boring:	2 1/2 inches	
Date drilled:	09/24/15	
Drilling Company:	PeneCore Drilling	
Driller:	Juan	
Drilling method:	Direct push	
Sample diameter:	1 1/4 inches	
Field Geologist:	Rodger Witham	

Casing diameter:	NA			
Casing material:		NA		
Slot size:		NA		
Sand size:		NA		
Blank casing from	NA	to	NA	
Perforated casing from	NA	to	NA	
Annular seal from	NA	to	NA	
Bentonite plug from	NA	to	NA	
Sand pack from	NA	to	NA	

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
				Concrete	
		-	ML	Silt (FILL), trace fine— to coarse—grained sand, trace gravel, brownish—black (5YR 2/1), some moderate reddish—brown (10R 4/6) staining as irregular stringers, damp, low plasticity.	$\begin{array}{ c c c c c c }\hline & & & & & & & \\\hline & & & & & & & \\\hline & & & &$
$\Gamma$		0.0			
_ 2 _		0.0	CH	Silty clay, trace fine— to coarse—grained sand, trace gravel, dark yellowish—brown (10YR 4/2), some dark yellowish—orange (10YR 6/6), dusky yellowish—brown (10YR 2/2), and moderate reddish—brown (10R 4/6) staining, damp, high plasticity.  Moderate yellowish—brown (10YR 5/4) at 2 feet.	
_ 3 _				Dark yellowish—brown (10YR 4/2) at 3 feet.	7
		0.0		Moderately abundant white weathered sand and gravel at 3 to 4½ feet.	7
- 4 -	S-4½- ECB2	0.0			
- 5 -	ECBZ	0.0		Pervasive medium bluish—gray (5B 5/1) discoloration at 5 feet 1 inch, petroleum odor.	\times \t
6 -		0.4			7
7 -		0.4			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
8 -		0.3	CL	Silty clay, dark yellowish—brown (10YR 4/2), pervasive medium bluish—gray (5B 5/1) discoloration, moist, medium plasticity, petroleum odor.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
9 -	S-9-	0.3	ML	Silt, trace fine— to medium—grained sand, trace gravel, dark yellowish—brown (10YR 4/2), pervasive medium bluish—gray (5B 5/1) discoloration, moist, low plasticity, petroleum odor.	7
10	ECB2	0.0	SW	Fine— to coarse—grained sand, some gravel, trace silt, dark yellowish—brown (10YR 4/2), moist.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
		1.0	SP	Fine—grained sand, some medium— to coarse—grained sand, gravel, and silt, dark yellowish—brown (10YR 4/2), moist.	7

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PROJECT NO.

LOG OF BORING ECB-2

760 22nd Street and 2201 Brush Street Oakland, California FIGURE

Depth	th Sample No.		PID in PPM	USCS Code	Description	Well Const.
				SP	Fine—grained sand, some medium— to coarse—grained sand, gravel, and silt, dark yellowish—brown (10YR 4/2), moist.	7
12			0.8	SM	Silty fine—grained sand, some medium— to coarse—grained sand, some gravel, dark yellowish—brown (10YR 4/2), pervasive medium bluish—gray (5B 5/1) discoloration, very moist, petroleum odor.	
_ 13 _			0.6	СН	Silty clay, trace fine—grained sand, trace gravel, medium bluish—gray	7
-14 -			1.0	<u></u>	(5B 5/1) discolored, moist, high plasticity, petroleum odor.	$\begin{array}{ c c c c c c }\hline & & & & & & & \\ \hline & & & & & & & \\ \hline & & & &$
<b>—</b> 15 <b>—</b>			27	_		7
<b>—</b> 16 —			11	SC	Clayey fine— to coarse—grained sand, some gravel, dark yellowish—brown (10YR 4/2), abundant medium bluish—gray (5B 5/1) discoloration, wet, petroleum odor.	7
				SW	Fine— to coarse—grained sand, with gravel, some silt, dark yellowish—brown (10YR 4/2), no discoloration, wet, no petroleum odor.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
<del>- 17 -</del>	S-17- ECB2		0.0	SP	Fine-grained sand, moderate yellowish-brown (10YR 5/4), abundant moderate reddish-brown (10R 4/6) staining, wet.	
- 18 -			1.2	CH	Silty clay, trace fine— to medium—grained sand, trace gravel, dark yellowish—brown (10YR 4/2), some dark yellowish—orange (10YR 6/6) staining in patches, wet, high plasticity, no petroleum odor.	7
19			1.0	SC	Increase sand and gravel content at 19 feet 3 inches.  Clayey fine— to coarse—grained sand, some gravel, dark yellowish—brown	
- 20 -	S-19½- ECB2	$\left  \cdot \right $	1.0 0.8		(10YR 4/2), wet.  Total depth = 20 feet. Ground water encountered at 14.24 feet.	7 7 7
- 21 -						
- 22 -						
- 23 -						
- 24 -						

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San Francisco, California 94104
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LOG OF BORING ECB-2

760 22nd Street and 2201 Brush Street Oakland, California FIGURE

Total depth of boring:	20 feet	
Diameter of boring:	2 1/2 inches	
Date drilled:	09/24/15	
Drilling Company:	PeneCore Drilling	
Driller:	Juan	
Drilling method:	Direct push	
Sample diameter:	1 1/4 inches	
Field Geologist:	Rodger Witham	

Casing diameter:	NA			
Casing material:		NA		
Slot size:		NA		
Sand size:		NA		
Blank casing from	NA	to	NA	
Perforated casing from	NA	to	NA	
Annular seal from	NA	to	NA	
Bentonite plug from	NA	to	NA	
Sand pack from	NA	to	NA	

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
				Concrete	V V V
		_	СН	Silty clay (FILL), trace fine— to medium—grained sand, trace gravel, dusky yellowish—brown (10YR 2/2), damp, high plasticity.	
1 -		1.0			
_ 2 _		1.4		Dark yellowish-brown (10YR 4/2) and dusky yellowish-brown (10YR 2/2) mottled at 1½ feet, some moderate reddish-brown (10R 4/6) and trace dark yellowish-orange (10YR 6/6) staining.	
		_		Moderately abundant white weathered sand and gravel at 2 feet 9 inches to 3 feet 9 inches.	7
- 3 - - 4 -		1.0			
	S-4½- ECB3	1.0		Medium bluish—gray (5B 5/1) discoloration at 4½ feet.	7 7 7 7 7 7 7 7 7 7 7 7
5 -		0.4		Thin weathered sand and gravel seams at 5 feet 3 inches and 5 feet 11 inches to 6 feet 1 inch.	7
6 -		1.5	СН	Silty clay, trace fine— to coarse—grained sand, trace gravel, medium bluish—gray (5B 5/1) discoloration, damp, high plasticity, petroleum odor.	
7 -		1.4			
8 -		0.8			$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
	H	-	ML	Silt, trace fine—grained sand, moderate yellowish—brown (10YR 5/4), pervasive medium bluish—gray (5B 5/1) discoloration, moist, low plasticity, petroleum odor.	$\begin{array}{c c} \triangle & \triangle & \triangle \\ \hline \triangle & \triangle & \triangle \\ \hline \end{array}$
9 -		0.9	-\ SM SP	Silty fine—grained sand, trace medium— to coarse—grained sand, trace gravel, moderate yellowish—brown (10YR 5/4), abundant medium bluish—gray (5B 5/1) discoloration, moist, petroleum odor.  Fine—grained sand, some medium— to coarse—grained sand, trace gravel,	T ' ' '
10	S-9½- ECB3	0.6		trace silt, dark yellowish—brown (10YR 4/2), moist.	$\begin{array}{ c c c c c }\hline \nabla & \nabla & \nabla & \nabla \\\hline \hline \nabla & \nabla & \nabla & \nabla \\\hline \hline \end{array}$
		1.0	CL	Fine—grained sandy clay, trace medium— to coarse—grained sand, moderate yellowish—brown (10YR 5/4), pervasive medium bluish—gray (5B 5/1) discoloration, moist, medium plasticity, petroleum odor.	7

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PROJECT NO.

LOG OF BORING ECB-3

760 22nd Street and 2201 Brush Street Oakland, California FIGURE

Depth	epth Sample No.																PID in PPM	USCS Code	Description	Well Const.
10				CL	Fine—grained sandy clay, trace medium— to coarse—grained sand, moderate yellowish—brown (10YR 5/4), pervasive medium bluish—gray (5B 5/1) discoloration, moist, medium plasticity, petroleum odor.	7														
12			2.3	СН	Silty clay, trace fine— to coarse—grained sand, trace gravel, moderate yellowish—brown (10YR 5/4), pervasive medium bluish—gray (5B 5/1) discoloration, moist, high plasticity, petroleum odor.															
<u> </u>			11.7																	
-14 -			10.7	<b>▼</b>		7 7 7 7 7 7 7 7														
<del>-</del> 15	0.451/		1.9			7														
<del>-</del> 16 <del>-</del>	S-15½- ECB3		91	SW	Gravelly fine— to coarse—grained sand, dark yellowish—brown (10YR 4/2), pervasive dusky blue (5PB 3/2) discoloration, wet, petroleum odor.	7														
<del>-</del> 17 -			3.3	SC	Clayey fine—grained sand, trace medium—grained sand, trace gravel, moderate yellowish—brown (10YR 5/4), with dusky yellowish—brown (10YR 2/2) and dark yellowish—orange (10YR 6/6) staining, no discoloration, no petroleum odor.															
<del>-</del> 18 -			0.3	CH	Silty clay, trace fine— to coarse—grained sand, trace gravel, dark yellowish—brown (10YR 4/2), very moist, high plasticity.	7 7 7 7 7 7 7 7														
<del></del> 19	S-18½- ECB3		0.1	CG	Clayey fine— to coarse—grained sandy gravel, dark yellowish—brown (10YR 4/2), moderately abundant dark yellowish—orange (10YR 6/6) and dark reddish—brown (10R 3/4) staining, wet.  Decrease clay content to trace at 19 feet to 19 feet 9 inches; increase clay content at 19 feet 9 inches to 20 feet.	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7														
20 —			0.0		Total depth = 20 feet. Ground water encountered at 14.34 feet.	7 7 7 7														
- 21 -																				
- 22 -																				
- 23 -																				
- 24 -																				
		<u></u>																		

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LOG OF BORING ECB-3

760 22nd Street and 2201 Brush Street Oakland, California FIGURE

Total depth of boring:	20 feet
Diameter of boring:	2 1/2 inches
Date drilled:	09/24/15
Drilling Company:	PeneCore Drilling
Driller:	Juan
Drilling method:	Direct push
Sample diameter:	1 1/4 inches
Field Geologist:	Rodger Witham

Casing diameter:		NA	
Casing material:	NA		
Slot size:		NA	
Sand size:		NA	
Blank casing from	NA	to	NA
Perforated casing from	NA	to	NA
Annular seal from	NA	to	NA
Bentonite plug from	NA	to	NA
Sand pack from	NA	to	NA

Depth	Depth Sample PID in PPN		USCS Code	Description	Well Const.
				Concrete	
_ 1 _		0.0	CL/CH	Silty clay (FILL), trace fine— to coarse—grained sand, trace gravel, dusky yellowish—brown (10YR 2/2), dark yellowish—orange (10YR 6/6) and moderate reddish—brown (10R 4/6) staining at weathered sand grains and gravel clasts, damp, medium to high plasticity.	
_ 2 _		0.0		Brownish black (5YR 2/1) at 2 feet 3 inches.	
- 3 -		0.0		Grayish black at 3 feet, trace dark yellowish—orange and moderate reddish—brown weathered grains and clasts.	7
- 4 -		0.0	СН	Silty clay, trace fine— to coarse—grained sand, trace gravel, pale	7 7 7 7 7 7 7
- 5 -	S-4½- ECB4	0.0	CIT	yellowish-brown (10YR 6/2), abundant medium bluish-gray (5B 5/1) discoloration, damp, high plasticity, petroleum odor.	7
- 6 -		0.8			7
7 -		0.4			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
- 8 -		0.5			
9 -	S-9- ECB4	0.4			7
-10-		0.5	SM CL/CH	Silty fine— to medium—grained sand, trace gravel, moderate brown (5YR 4/4), moist.  Silty clay, moderate yellowish—brown (10YR 5/4), abundant medium bluish—gray (5B 5/1) discoloration, moist, medium to high plasticity, petroleum odor.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
		0.0	ML	Silt, trace fine—grained sand, moderate yellowish—brown (10YR 5/4), abundant medium bluish—gray (5B 5/1) discoloration, moist, petroleum odor.	7

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November 2015

PROJECT NO.

760 22nd Street and 2201 Brush Street Oakland, California

LOG OF BORING ECB-4

~ ~

FIGURE

Depth	Sample No.		PID in PPM	USCS Code	Description	Well Const.
				ML	Silty fine—grained sand at 11 feet 5 inches to 11 feet 8 inches.	7
_ 12 _			0.2	SM	Silty fine—grained sand, light olive—gray (5Y 5/2), moderately abundant medium bluish—gray (5B 5/1) discoloration, very moist to wet, petroleum	
_ 13 _	S-13-		8.6		odor.  Grades to silt at 12 feet 10 inches.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	ECB4			CL/CH	Silty clay, trace fine— to coarse—grained sand, trace gravel, pale yellowish—brown (10YR 6/2), abundant medium bluish—gray (5B 5/1) discoloration, wet, medium to high plasticity, petroleum odor.	7
-14 -			120	<u>=</u>	Sandy clay at 14 feet to 14 feet 3 inches.  Minor medium bluish—gray discoloration at 14½ feet.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
<b>—</b> 15 <b>—</b>			2.6		Abundant medium bluish—gray discoloration at 15 feet, petroleum odor.	$\begin{array}{c cccc} \nabla & \nabla & \nabla \\ \hline 7 & \nabla & \nabla & \nabla \\ \hline \nabla & \nabla & \nabla & \end{array}$
					Gravelly clay at 15 feet 7 inches to 15 feet 9 inches.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
16			1.2		Sandy and gravelly at 16 feet to 16 feet 8 inches.	$\begin{array}{c c} & & & & & & \\ & & & & & & \\ \hline \\ & & & &$
17 -			0.8	SW	Gravelly fine— to coarse—grained sand, dark greenish—gray (5G 4/1), wet, petroleum odor.  Moderate yellowish—brown (10YR 5/4) at 17 feet 2 inches, no petroleum odor.	7
	S-17½-			ML	Silt, dark yellowish—brown (10YR 4/2), some moderate reddish—brown (10R 4/6) staining, low plasticity, wet.	7 0 0 0
<del>-</del> 18 <del>-</del>	ECB4		0.7	CH	Silty clay, some fine— to coarse—grained sand, trace gravel, dark yellowish—brown (10YR 4/2), trace dark yellowish—orange (10YR 6/6) and moderate reddish—brown (10R 4/6) staining at weathered grains and clasts, very moist, high plasticity.	$\begin{array}{c cccc} -7 & \nabla & \nabla & \nabla \\ \hline \nabla & \nabla & \nabla \\ \hline \nabla & \nabla & \nabla \\ \hline \end{array}$
19			0.3		With sand and gravel at 19 feet.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
-20			0.0			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
20					Total depth = 20 feet. Ground water encountered at 14.3 feet.	
21						
- 22 -						
- 23 -						
- 24 -						
O IFOT N		Т	DDAWAL DV		EDODI DATE	

LOG OF BORING ECB-4 760 22nd Street and 2201 Brush Street Oakland, California FIGURE

Total depth of boring:	20 feet		
Diameter of boring:	2 1/2 inches		
Date drilled:	09/24/15		
Drilling Company:	PeneCore Drilling		
Driller:	Juan		
Drilling method:	Direct push		
Sample diameter:	1 1/4 inches		
Field Coologist:	Podger Witham		

Casing diameter:	NA			
Casing material:	NA	NA		
Slot size:		NA		
Sand size:		NA		
Blank casing from	NA	_ to	NA	
Perforated casing from	NA	_ to	NA	
Annular seal from	NA	_ to	NA	
Bentonite plug from	NA	to	NA	
Sand pack from	NA	to	NA	

Depth	Sample No.		PID PPM	USCS Code	Description	Well Const.
		+			Concrete	
			-	SM	Silty fine—grained sand (FILL), trace medium— to coarse—grained sand, trace gravel, dusky yellowish—brown (10YR 2/2), damp.	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
<u> </u>						$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
_ 2 _			-	011		
				СН	Silty clay, trace fine—grained sand, trace gravel, brownish—black (5YR 2/1), trace moderate reddish—brown (10R 4/6) staining, damp, high plasticity, trace rootholes.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
- 3 -						
- 4 -	S-4-				Dark yellowish—brown (10YR 4/2) at 4 feet, trace dark yellowish—orange (10YR 6/6) staining.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	ECB5				(TOTAL O/ O/ Stairing.	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
5 -			1.3		Pervasive medium bluish—gray (5B 5/1) discoloration at 5 feet 1 inch, petroleum odor.	$\begin{array}{c cccc} \nabla & \nabla & \nabla \\ \hline 7 & \nabla & \nabla \\ \hline \nabla & \nabla & \nabla \\ \hline \end{array}$
6 -			15.6			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
			4.8		Moderate yellowish—brown (10YR 5/4) at 6½ feet, abundant medium bluish—gray (5B 5/1) discoloration, petroleum odor.	7
			+.0			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
8 -	S-8- ECB5		19.5			$\begin{array}{c cccc} \nabla & \nabla & \nabla \\ \hline 7 & \nabla & \nabla & \nabla \\ \hline \nabla & \nabla & \nabla & \end{array}$
<b>-</b> 9 <b>-</b>			2.1			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
					Moderately abundant medium bluish—gray (5B 5/1) discoloration as irregular stringers at 9½ feet, moist, petroleum odor.	7
10			0.2			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
			23			$ \left[ \begin{array}{cccc} \triangle & \triangle & \triangle \\ \hline \triangle & \triangle & \triangle \\ \end{array} \right] $

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760 22nd Street and 2201 Brush Street Oakland, California

LOG OF BORING ECB-5

C-10

FIGURE

15166

PROJECT NO.

Depth	Sample No.		PID in PPM	USCS Code	Description	Well Const.
			-	СН	Silty clay, moderate yellowish—brown (10YR 5/4), pervasive medium bluish—gray (5B 5/1) discoloration at 11 feet, moist, petroleum odor.	7
_12_			0.4		Moderately abundant medium bluish—gray (5B 5/1) discoloration as irregular stringers at 12 feet.	
_ 13 _			4.0		Pervasive medium bluish—gray (5B 5/1) discoloration at 13 feet.	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
-14 -			8.8	_		7
<b>—</b> 15 <b>—</b>	S-14½- ECB5		2.0	<u>=</u>	Clayey fine—grained sand lens at 15 feet to 15 feet 2 inches.	7
-16-			0.3		Silty fine-grained sand lens at 16 feet 2 inches to 16 feet 6 inches, light olive gray (5Y 5/2), wet.	
-17-			0.0	SC	Clayey fine— to coarse—grained sand, dark yellowish—brown (10YR 4/2), minor medium bluish—gray (5B 5/1) discoloration.	7
- 18 -	S-18- ECB5		0.0		Fine— to coarse—grained sand, some gravel, trace clay, dark yellowish—brown (10YR 4/2), wet, no discoloration, no petroleum odor.  Fine—grained sand, pale yellowish—brown (10YR 6/2), with dark	7
19			0.0	CH	yellowish—orange (10YR 6/6) and moderate reddish—brown (10R 4/6) staining, wet, no petroleum odor.  Silty clay, trace fine— to coarse—grained sand, trace gravel, moderate	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
-20			0.0		yellowish—brown (10YR 5/4), with moderate reddish—brown (10R 4/6) irregular bands, wet, high plasticity, trace partly decomposed roots.	7 7 7 7 7 7 7 7
					Total depth = 20 feet. Ground water encountered at 14.61 feet.	
- 21 -						
- 22 -						
-23-						
- 24 -						
OJECT NO	D.	<u> </u>  -	DRAWN BY	R	REPORT DATE  LOG OF BORING FCB-5	RE

LOG OF BORING ECB-5 760 22nd Street and

2201 Brush Street Oakland, California

C-11

Total depth of boring:	20 feet
Diameter of boring:	2 1/2 inches
Date drilled:	09/24/15
Drilling Company:	PeneCore Drilling
Driller:	Juan
Drilling method:	Direct push
Sample diameter:	1 1/4 inches
Field Geologist:	Rodger Witham

Casing diameter:		NA	
Casing material:	NA		
Slot size:		NA	
Sand size:		NA	
Blank casing from	NA	to	NA
Perforated casing from	NA	to	NA
Annular seal from	NA	to	NA
Bentonite plug from	NA	to	NA
Sand pack from	NA	to	NA

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
				Concrete	
_ 1 _		-	ML	Silt (FILL), some fine— to medium—grained sand, dusky yellowish—brown (10YR 2/2), damp, no plasticity, trace red brick fragments.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
_ 2 _		_			
_ 3 _		-	СН	Silty clay, trace fine—grained sand, trace gravel, dusky yellowish—brown (10YR 2/2), trace moderate reddish—brown (10R 4/6) and dark yellowish—orange (10YR 6/6) staining, damp, high plasticity, trace partly decomposed plant material.	
- 4 -		-			
- 5 -		0.0		Dark yellowish—brown (10YR 4/2) at 5 feet 3 inches. Abundant white deposits (weathered sand grains and gravel clasts) at 5½ to 6½ feet.	
- 6 -		0.0		Decrease white deposits to trace at 6½ to 7 feet.	∇ ∇ ∇ 7 ∇ ∇ ∇ 7 ∇ ∇ ∇
7 -		0.4		Trace to some dusky yellowish—brown (10YR 2/2) small patches and specks of partly decomposed organic material at 7 feet.	$ \begin{array}{c cccc} \nabla & \nabla & \nabla \\ \hline \hline$
- 8 -		0.4			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
<b>-</b> 9 <b>-</b>		0.4		Increase silt content and trace partly decomposed organic material at 9 feet.	$\begin{array}{ c c c c c }\hline \nabla & \nabla & \nabla \\\hline \hline V & \nabla & \nabla \\\hline \hline V & \nabla & \nabla \\\hline \hline V & \nabla & \nabla \\\hline \end{array}$
-10-		0.0	SM/SC	Silty fine— to coarse—grained sand, trace gravel, moderate yellowish—brown (10YR 5/4), moist. Clayey at 10 feet to 10 feet 4 inches. Silt, some fine—grained sand, moderate yellowish—brown (10YR 5/4), very	7
		0.1		moist.	$\begin{array}{c c} \triangle & \triangle & \triangle \\ \hline A & \triangle & \triangle \\ \hline \end{array}$

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760 22nd Street and 2201 Brush Street Oakland, California

LOG OF BORING ECB-6

C-12

FIGURE

564 Market Street San Francisco, California 94104 (415) 938-7002

PROJECT NO.

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
			ML	Silt, some fine—grained sand, moderate yellowish—brown (10YR 5/4), very moist. Grades to:	7
_12_		0.3			
<b>—</b> 13 <b>—</b>		0.5	CL/CH	Silty clay, trace fine—grained sand, trace gravel, moderate yellowish—brown (10YR 5/4), some dark yellowish—orange (10YR 6/6) staining, very moist, low plasticity grades to high plasticity.	
	S-13- ECB6				
-14 -		0.4	<u>=</u>		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
— 15 —			SP	Fine—grained sand, some gravel, trace medium— and coarse—grained sand, trace silt, moderate yellowish—brown (10YR 5/4), wet.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
		0.0	ML	Silt, moderate yellowish—brown (10YR 5/4), low plasticity, wet, abundant dark yellowish—orange staining at 15 feet 3 inches to 15 feet 6 inches.	
<del>-</del> 16 -		0.7	CH	Silty clay, trace fine—grained sand, dark yellowish—brown (10YR 4/2) with dark yellowish—orange (10YR 6/6) staining, trace black decomposed organic material, wet, high plasticity.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
			SM	Silty fine—grained sand, trace medium— to coarse—grained sand, dark yellowish—brown (10YR 4/2), wet.	
<u> </u>		0.7			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
— 18 —		0.6			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
<del>-</del> 19 -		0.6			7 7 7 7 7 7 7 7
		0.6		Some gravel, medium dark gray (N4) at 19½ feet.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
- 20 -			СН	Silty clay, some gravel, dark yellowish—brown (10YR 4/2), wet, high plasticity.  Total depth = 20 feet. Ground water encountered at 14.1 feet.	7 7 7 7
— 21 —					
- 22 -					
-23-					
- 24 -					

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PROJECT NO.

REPORT DATE

LOG OF BORING ECB-6 760 22nd Street and 2201 Brush Street Oakland, California FIGURE

Total depth of boring:	20.8 feet
Diameter of boring:	2 1/2 inches
Date drilled:	09/25/15
Drilling Company:	PeneCore Drilling
Driller:	Juan
Drilling method:	Direct push
Sample diameter:	1 1/4 inches
Field Geologist:	Rodger Witham

Casing diameter:	NA			
Casing material:	NA	NA		
Slot size:	NA	NA		
Sand size:		NA		
Blank casing from	NA	to	NA	
Perforated casing from	NA	to	NA	
Annular seal from	NA	to	NA	
Bentonite plug from	NA	to	NA	
Sand pack from	NA	to	NA	

NOTE: Boring advanced at an angle of 30 degrees from vertical

Boring Vertical Length Depth		PID	USCS Code	Description	Well Const.
				Concrete.	$\triangle$ $\triangle$ $\triangle$
			SM	Silty fine—grained sand (FILL), dusky yellowish—brown (10YR 2/2), some dark yellowish—orange (10YR 6/6) staining in patches, damp.	$\nabla \nabla \nabla \nabla$
- 1 -	1		ML	Silt, trace clay, dusky yellowish-brown (10YR 2/2), trace dark yellowish-orange (10YR 6/6) and moderate reddish-brown (10R 4/6) staining as small patches and stringers, damp, low plasticity.	$\begin{array}{c c} A & A & A & A \\ \hline A & A & A \\ \hline A & A &$
2 -				staining as small pateries and stringers, admp, ion prastienty.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
3 -					$\begin{array}{c c} & & & & & & \\ & & & & & \\ & & & & & \\ \hline & & & &$
4 - 3 -	-		CH/CL	Silty clay, trace fine— to coarse—grained sand, trace gravel, dark yellowish—brown (10YR 4/2) with a medium dark gray (N4) cast, trace dark yellowish—orange (10YR 6/6) weathered sand grains and gravel clasts, damp, medium to high plasticity, some partly decomposed plant material.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
- 4 - 5 -		0.0		Dark yellowish—brown (10YR 4/2), variable abundance (trace to moderately abundant) of dark yellowish—orange (10YR 6/6), moderate reddish—brown (10R 4/6), and dusky yellowish—brown (10YR 2/2) staining.	$\begin{array}{ c c c c c c }\hline & & & & & & & \\ \hline & & & & & & & \\ \hline & & & &$
- 5 -	S-4½- ECB7	0.0		Moderate yellowish-brown (10YR 5/4)	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
6 -		0.0			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
7 - 6 -		0.0			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
8 - 7 -		0.0			\( \times  \delta  \delta  \delta  \delta   \qua
9 - 8 -		0.0			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
10 - 9 -		0.0		Medium plasticity Silt lens at 9 feet 1 inch to 9 feet 6 inches	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
<u></u>	S-9½-	0.0			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
- 10 -	ECB7	0.0		Silt lens at 10 feet 5 inches to 10 feet 8 inches	
- 11 -		0.0			

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LOG OF BORING ECB-7 760 22nd Street and

C-14

FIGURE

2201 Brush Street Oakland, California

PROJECT NO.

Boring Length	Vertical Depth	Sample No.	PID	USCS Code	Description	Well Const.
<del>-</del> 14-			0.0	CH/CL	Silt lens, light gray (N7) at 12 feet 4 inches to 12 feet 9 inches	$\begin{array}{c c} & & & & & \\ & & & & & \\ \hline \\ & & & & \\ \hline \\ & & & \\ \hline \\ & & \\ \end{array}$
<b>-</b> 15-	<b>—</b> 13 <b>—</b>		0.0			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
<b>—</b> 16 <b>—</b>			0.0	ML	Silt, medium light gray (N6), abundant dark yellowish—orange (10YR 6/6) staining, wet, low plasticity.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	<b>—</b> 14 <b>—</b>		- 0.0	SM	Silty fine—grained sand, trace medium— to coarse—grained sand, trace gravel, dark yellowish—brown (10YR 4/2)	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
<del>-</del> 17-	_ 15 <del>_</del>		0.1	CH	Silty clay, trace fine— to coarse—grained sand, dark yellowish—brown (10YR 4/2) and moderate yellowish—brown (10YR 5/4) mottled, some medium bluish—gray (5B 5/1) discoloration, trace dark yellowish—orange (10YR 6/6) staining, wet, high plasticity.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
<b>—</b> 18 <b>—</b>	<b>—</b> 16 <b>—</b>		0.0	ML	Silt to fine—grained sandy silt, trace clay, pale yellowish—brown (10YR 6/2), moderately abundant dark yellowish—orange (10YR 6/6) staining, wet.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
19-			0.0	SM	Silty fine—grained sand, trace coarse—grained sand, trace gravel, trace clay, moderate yellowish—brown (10YR 5/4), some dark yellowish—orange (10YR 6/6) stainina, wet.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
-20-	— 17 —		-		Clayey at 16 feet 8 inches to 16 feet 10 inches.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
-21-	<b>—</b> 18 <b>—</b>		-			$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
-22-	<b>—</b> 19 <b>—</b>		-			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
-23-	<del>-</del> 20 <b>-</b>		-	CH	Silty clay, some fine— to coarse—grained sand and gravel, dark yellowish—brown (10YR 4/2), trace dark yellowish—orange (10YR 6/6) staining, wet, high plasticity.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
-24-	<b>–</b> 21 <b>–</b>		-	_	Total length = 24 feet. Total vertical depth = 20.8 feet.	$\begin{array}{c c} & & & \\ & & & \\ \hline \end{array}$
-25-					Ground water encountered at 20.19 feet (vertical).	
-26-						
-27-						
<b>-</b> 28 <b>-</b>						
-29-						
-30-						
-31-						

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LOG OF BORING ECB-7
760 22nd Street and

760 22nd Street and 2201 Brush Street Oakland, California FIGURE

Total depth of boring:	20 feet
Diameter of boring:	2 1/2 inches
Date drilled:	09/25/15
Drilling Company:	PeneCore Drilling
Driller:	Juan
Drilling method:	Direct push
Sample diameter:	1 1/4 inches
Field Geologist:	Rodger Witham

Casing diameter:	NA			
Casing material:	NA	NA		
Slot size:	NA	NA		
Sand size:	NA			
Blank casing from	NA	to	NA	
Perforated casing from	NA	to	NA	
Annular seal from	NA	to	NA	
Bentonite plug from	NA	to	NA	
Sand pack from	NA	to	NA	

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
				Concrete	
	Ш	]	ML	Silt (FILL), trace fine— to coarse—grained sand, trace gravel, black (N1), low	<b>1</b> ~~~\
				plasticity, damp, rusted nail at 10 inches.	
<u></u> 1	Щ	0.0			
		0.0			$\triangle \triangle \triangle$
	$\vdash$	-			
<u> </u>	H	0.1			
					$     \begin{bmatrix}                                $
	H	1			
			СН	Silty clay (FILL), trace coarse—grained sand, light olive gray (5Y 5/2), some	7_7_7
<u></u> 3 →	H	0.1		medium bluish-gray (5B 5/1) mottling, irregular patches and stringers of	$     \begin{bmatrix}                                $
				moderate reddish—brown (10R 4/6) staining, damp, high plasticity.	
	H	1			<b>₽</b> △ △ ┥
			CH	Silty clay, trace fine— to coarse—grained sand, trace gravel, light olive gray	
Γ * ¬	П	0.2	OH	(5Ý 5/2), trace dark yellowish-orange (10YR 6/6) staining, damp, high	
				plasticity.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
<b>⊢</b> ₅ <b>⊢</b>	Ш	] , ,			
		0.2			1,
	Н				
<b>⊢</b> 6 <b>⊣</b>	$\mathbb{H}$	0.1			$     \begin{bmatrix}                                $
	H	-			
<b>├</b> ७ <b>┤</b>	H	0.2			
				Dark yellowish—brown (10YR 4/2) with moderately abundant moderate	
	H	1		reddish—brown (10R 4/6) staining and trace dusky yellowish—brown (10YR	$\nabla \nabla \nabla$
				2/2) and dark yellowish—orange (10YR 6/6) staining at 7 feet 4 inches.	$\triangle \triangle \triangle$
<b>⊢</b> 8 <b>⊣</b>	H	0.1			
		]			
	П	]		Some gravel at 8 feet 9 inches	$\triangle \triangle \triangle \triangle$
L 9 -		] , ,	_	Some gravel at 8 feet 9 inches.	7,^^,4
"		0.3	SP	Fine—grained sand with gravel, some medium— to coarse—grained sand, some clay, dark yellowish—brown (10YR 4/2), moist.	$\nabla \nabla \nabla$
	Ц	.		Total Typicalist Stoff (1911 1/2), molecu	
10	$\sqcup$	0.1	ML	Silt moderate vallewish brown (10VP 5/4) maist law plasticity	
			WL	Silt, moderate yellowish—brown (10YR 5/4), moist, low plasticity.	
	$\vdash$				
		0.1	61.1	Silty fine—grained sand, trace medium—grained sand, light olive gray (5Y 5/2),	
		0.1	SM	moist.	<del></del>

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PROJECT NO.

760 22nd Street and 2201 Brush Street Oakland, California

LOG OF BORING ECB-8

FIGURE

Depth	Sample No.	:	PID in PPM	USCS Code	Description	Well Const.
		H		SM	Silty fine—grained sand, trace medium—grained sand, light olive gray (5Y 5/2), moist.	7
_12_			0.1			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
13	S-13-		0.2	SW	Fine— to coarse—grained sand, some gravel, dark yellowish—brown (10YR 4/2), very moist.	\( \times \q
	ECB8			SM	Silty fine-grained sand, trace medium— to coarse-grained sand, trace gravel, light olive gray (5Y 5/2), very moist.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
-14 -			0.1			$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
<b>—</b> 15 <b>—</b>				SC	Clayey fine— to coarse—grained sand, some gravel, dark yellowish—brown (10YR 4/2), very moist.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
			0.1			
16			0.1	CL	Silty clay, trace fine— to coarse—grained sand, trace gravel, moderate yellowish—brown (10YR 5/4), moderately abundant dark yellowish—orange (10YR 6/6) and moderate reddish—brown (10R 4/6) staining, moist, medium plasticity.	7
17			0.1	▼ SC	Clayey fine— to coarse—grained sand, with gravel, dark yellowish—brown (10YR 4/2), wet.	
- 18 -			0.1	SM	Silty clay lens at 17 feet 7 inches to 17 feet 9 inches.  Silty fine—grained sand, some medium— to coarse—grained sand and gravel, dark yellowish—brown (10YR 4/2), wet.	
					With medium— to coarse—grained sand and gravel at 18 feet.	
19			0.1	CL	Silty clay, trace fine— to coarse—grained sand, moderate yellowish—brown (10YR 5/4), wet, medium plasticity.	
20			0.2	_/ SM	Silty fine— to coarse—grained sand, with gravel, dark yellowish—brown (10YR 4/2), wet.  Total depth = 20 feet. Ground water encountered at 17.26 feet.	
<del>-</del> 21 <del>-</del>						
- 22 -						
- 23 -						
- 24 -						

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15166

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November 2015

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564 Market Street
San Francisco, California 94104
(415) 938-7002

LOG OF BORING ECB-8 760 22nd Street and 2201 Brush Street Oakland, California FIGURE

Total depth of boring:	20 feet
Diameter of boring:	2 1/2 inches
Date drilled:	09/25/15
Drilling Company:	PeneCore Drilling
Driller:	Juan
Drilling method:	Direct push
Sample diameter:	1 1/4 inches
Field Ceologist:	Rodger Witham

Casing diameter:	NA	NA			
Casing material:	NA	NA			
Slot size:	NA	NA			
Sand size:		NA			
Blank casing from	NA	to	NA		
Perforated casing from_	NA	to	NA		
Annular seal from	NA	to	NA		
Bentonite plug from	NA	to	NA		
Sand pack from	NA	to	NA		

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
				Concrete	
		_	ML	Silt (FILL), trace fine— to coarse—grained sand, dusky yellowish—brown (10YR 2/2), some dark yellowish—orange (10YR 6/6) staining, damp, low plasticity.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
<u></u> 1 →					$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
		_			
2 -		2.1			$\nabla$ $\nabla$ $\nabla$
_ 3 _		2.1			$\begin{array}{ c c c c c c }\hline & & & & & & \\ \hline & & & & & & \\ \hline & & & &$
		-	СН	Silty clay (FILL), some fine— to medium—grained sand, dusky yellowish—brown (10YR 2/2), light olive gray (5Y 5/2), and medium bluish—gray (5B 5/1) mottled, damp, high plasticity.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
- 4 -		2.1	СН	Silty clay, trace gravel, light olive gray (5Y 5/2), some dark yellowish—orange (10YR 6/6) and dusky yellowish—brown (10YR 2/2) staining, damp, high	$\begin{array}{c c} & & & & & \\ \hline & & & & & \\ \hline & & & & & \\ \hline \end{array}$
		-		(10YR 6/6) and dusky yellowish—brown (10YR 2/2) staining, damp, high plasticity.	$\begin{array}{c c} & & & & & \\ & & & & & \\ \hline \end{array}$
5 -		1.8			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
		-			$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
6		2.0			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
7 -		1.8			$\begin{array}{ c c c c c c }\hline \nabla & \nabla & \nabla & \hline \\ \hline \nabla & \nabla & \nabla & \hline \\ \hline \end{array}$
		_			$\begin{array}{c c} & & & & & & \\ & & & & & \\ & & & & & \\ \end{array}$
8 -		2.3		Pale yellowish—brown (10YR 6/2) at 8 feet.	$ \begin{array}{c cccc}                                 $
		-			$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
9 -		2.2	SW	Fine— to coarse—grained sand, with gravel, trace silt, dark yellowish—brown (10YR 4/2), some dark yellowish—orange (10YR 6/6) and moderate reddish—brown (10R 4/6) staining, moist.	$\begin{array}{c c} 7 & 0 & 0 \\ \hline 7 & 0 & 0 \\ \hline 7 & 0 & 0 \\ \hline \end{array}$
10		3.0		Abundant dark yellowish—orange (10YR 6/6) and moderate reddish—brown (10R 4/6) staining at 9½ feet.  Some dark yellowish—orange (10YR 6/6) and moderate reddish—brown (10R	$\begin{array}{ c c c c c }\hline \nabla & \nabla & \nabla \\\hline \hline V & \nabla & \nabla \\\hline \end{array}$
		3.0		4/6) staining at 10 feet.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
		0.2			

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PROJECT NO.

760 22nd Street and 2201 Brush Street Oakland, California

LOG OF BORING ECB-9

FIGURE

Depth	Sample No.								PID in PPM	USCS Code	Description	Well Const.
				SW		7						
_ 12 _			1.0		Gravelly at 12 feet.	7						
_ 13 _	S-13- ECB9		1.6		Clayey at 12 feet 9 inches.  Silt, trace fine— to coarse—grained sand, moderate yellowish—brown	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						
-14 -			2.1		(10YR 5/4), moderately abundant dark yellowish—orange (10YR 6/6) staining and irregular medium bluish—gray (5B 5/1) discoloration, moist, low plasticity.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						
<b>—</b> 15 <b>—</b>			0.7			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						
			0.7	СН	Silty clay, trace fine— to coarse—grained sand, trace gravel, moderate yellowish—brown (10YR 5/4), some dark yellowish—orange (10YR 6/6) staining, very moist to wet, high plasticity.							
16			0.6		Fine—grained sandy at 16 feet 4 inches, grades to:	7 7 7 7 7 7 7 7						
- 17 -			0.7	SM	Silty fine—grained sand, trace medium— to coarse—grained sand, trace gravel, moderate yellowish—brown (10YR 5/4), wet, grades to:	\[ \times  \q						
— 18 —			1.5	<u>_</u>		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						
10-				СН	Silty clay, trace fine— to coarse—grained sand, trace gravel, dark yellowish—brown (10YR 4/2), some dark yellowish—orange (10YR 6/6) and moderate reddish—brown (10R 4/6) staining, wet, high plasticity.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						
<del>-</del> 19 <del>-</del>			0.4	SC	Clayey fine— to coarse—grained sand, some gravel, dark yellowish—brown (10YR 4/2), wet.							
20			1.0		Gravelly at 19 feet 8 inches.  Total depth = 20 feet. Ground water encountered at 17.95 feet.	7 7 7 7						
- 21 -												
- 22 -												
- 23 -												
- 24 -												

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PROJECT NO.

REPORT DATE

LOG OF BORING ECB-9 760 22nd Street and

760 22nd Street and 2201 Brush Street Oakland, California FIGURE

Total depth of boring:	20 feet
Diameter of boring:	2 1/2 inches
Date drilled:	09/25/15
Drilling Company:	PeneCore Drilling
Driller:	Juan
Drilling method:	Direct push
Sample diameter:	1 1/4 inches
Field Coologist:	Podger Witham

Casing diameter:	NA			
Casing material:	NA			
Slot size:		NA		
Sand size:		NA		
Blank casing from	NA	to	NA	
Perforated casing from	NA	to	NA	
Annular seal from	NA	to	NA	
Bentonite plug from	NA	to	NA	
Sand pack from	NA	to	NA	

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
		-	СН	Concrete  Silty clay, trace fine— to coarse—grained sand, trace gravel, light olive gray (5Y 5/2), trace dark yellowish—orange (10YR 6/6) and moderate reddish—	7
1 -		0.2		brown (10YR 4/6) staining, damp, high plasticity.	7 7 7 7 7 7 7 7
_ 2 _		0.1			7 7 7 7 7 7 7
- 3 -		0.1			
- 4 -		0.1			7
- 5 -		0.1		Dark yellowish—brown (10YR 4/2) with medium dark gray (N4) mottling at 5 to 6 feet.	
6 -		0.2			7
7 -		0.4			7 7 7 7 7 7 7 7 7 7 7 7
8 -		0.6	SC	Clayey fine— to coarse—grained sand, with gravel, light olive gray	7
				(5Y 5/2), some dark yellowish—orange (10YR 6/6) and moderate reddish—brown (10R 4/6) staining, moist.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
9 -		1.1	CH	Silty clay, trace fine— to coarse—grained sand, moderate yellowish—brown (10YR 5/4), some irregular medium bluish—gray (5B 5/1) discoloration, moist, high plasticity.	
10		0.4	CL	Fine—grained sandy clay, light olive—gray (5Y 5/2), moist, medium plasticity.	
		0.1			

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LOG OF BORING ECB-10 760 22nd Street and 2201 Brush Street Oakland, California FIGURE

Depth	Sample No.								PID in PPM	USCS Code	Description	Well Const.
				CL	Fine—grained sandy clay, light olive—gray (5Y 5/2), moist, medium plasticity.	7						
12			0.2	SM	Silty fine—grained sand, trace clay, trace medium— to coarse—grained sand, trace gravel, light olive gray (5Y 5/2), very moist.							
_ 13 _	S-13- ECB10		0.2			$\begin{array}{c cccc} \nabla & \nabla & \nabla \\ \hline 7 & \nabla & \nabla \\ \hline 7 & \nabla & \nabla \\ \hline 7 & \nabla & \nabla \\ \hline \hline Q & \nabla & \nabla \\ \hline \end{array}$						
-14 -			13.5	<b>V</b>								
— 15 <b>—</b>	S-14½- ECB10		36	<del>=</del> SP	Fine—grained sand, trace coarse—grained sand, trace gravel, moderate yellowish—brown (10YR 5/4), moderately abundant dark yellowish—orange (10YR 6/6) and moderate reddish—brown (10R 4/6) staining, wet, petroleum odor.  Medium bluish—gray (5B 5/1) discoloration at 14½ feet, petroleum odor.	7						
<del>-</del> 16 <del>-</del>			0.2			$\begin{array}{c cccc} 7 & \nabla & \nabla & \nabla \\ \hline \nabla & \nabla & \nabla \\ \hline \end{array}$						
<del>-</del> 17 -			0.3		Base of medium bluish—gray discoloration at 16½ feet, abundant moderate reddish—brown (10R 4/6) staining at 16½ feet to 16 feet 11 inches. Dusky yellowish—brown (10YR 2/2) at 16 feet 11 inches.							
<del>-</del> 18 -			0.2	SM	Silty fine—grained sand, light olive gray (5Y 5/2), wet. Grades to silt at 18 feet 4 inches.							
<del>-</del> 19 <del>-</del>			0.3	СН	Silty clay, trace fine— to coarse—grained sand, trace gravel, light olive gray (5Y 5/2), moderately abundant dark yellowish—orange (10YR 6/6) and dusky yellowish—brown (10YR 2/2) staining, wet, high plasticity.							
- 20 -			0.2		Some medium— to coarse—grained sand and gravel at 19 feet 8 inches.  Total depth = 20 feet. Ground water encountered at 14.4 feet.	7						
— 21 <del>—</del>												
- 22 -												
- 23 -												
— 24 <del>—</del>												

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REPORT DATE

LOG OF BORING ECB-10 760 22nd Street and 2201 Brush Street Oakland, California FIGURE

Total depth of boring:	17 feet
Diameter of boring:	2 1/2 inches
Date drilled:	09/24/15
Drilling Company:	PeneCore Drilling
Driller:	Juan
Drilling method:	Direct push
Sample diameter:	1 1/4 inches
Field Geologist:	Rodger Witham

Casing diameter:		NA		
Casing material:	NA	NA		
Slot size:		NA		
Sand size:		NA		
Blank casing from	NA	to	NA	
Perforated casing from	NA	to	NA	
Annular seal from	NA	to	NA	
Bentonite plug from	NA	to	NA	
Sand pack from	NA	to	NA	

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
				Concrete	
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<u></u> 3 →	Ι/				
	1/\				□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
	1/ \				
	1/ \				
,					
4					
					h,
	1				
<b>├</b> 5 <b>├</b>	'-	l'	ML	Silt, trace fine—grained sand, moderate yellowish—brown (10YR 4/2) damp, low plasticity.	
				plasticity.	
	H		СН	Silty clay, trace fine— to medium—grained sand, dark yellowish—brown	
				(10YR 4/2), some dusky yellowish—brown (10YR 2/2) decomposed organic material, trace dark yellowish—orange (10YR 6/6) staining, damp, high	
<b>⊢</b> 6 <b>⊣</b>	H	0.0		material, trace dark yellowish—orange (10YR 6/6) staining, damp, high plasticity.	L
		0.0		productly.	
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<u></u>		0.9			P \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	H				
<b>⊢</b> 9 <b>⊣</b>	$\vdash$	1.3			
	[]				
	$\vdash$				
	[]				L,
10	$\sqcup$	0.0		Pale yellowish—brown (10YR 6/2) at 10 feet.	
'		0.0		,	
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	[]				
		0.7			

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REPORT DATE

LOG OF BORING ECB-11 760 22nd Street and 2201 Brush Street Oakland, California FIGURE

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
			СН	Silty clay, trace fine— to medium—grained sand, dark yellowish—brown (10YR 4/2), some dark yellowish—orange (10YR 6/6) staining at 11 to 12½ feet, moist, high plasticity.	7
_ 12 _					$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
<u> </u>	S-13- ECB11	0.7	SC/SM	Clayey fine—grained sand grades to silty fine—grained sand at 12 feet 10 inches, trace medium— to coarse—grained sand, dark yellowish—brown (10YR 4/2), very moist to wet.	
				Abundant dark reddish—brown (10R 3/4) staining at 13 feet 9 inches.	abla  abl
-14 -			¥ CH	Silty clay, trace fine—grained sand, trace gravel, light olive gray (5Y 5/2), some patches of moderate reddish—brown (10R 4/6) and dark yellowish—orange (10YR 6/6) staining, very moist, high plasticity.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
<u> </u>		0.6	SP/SC	Fine-grained sand, some medium— to coarse-grained sand, trace gravel, moderate yellowish-brown (10YR 5/4), wet.  Some clay at 15 feet.	
<del>-</del> 16 <del>-</del>		0.4			$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
		_		Clayey fine—grained sand at 16 feet 4 inches.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
17 —		0.7		Abundant moderate reddish—brown (10R 4/6) staining at 16 feet 9 inches.  Total depth = 17 feet. Ground water encountered at 14.29 feet.	$\nabla \nabla \nabla$
18 —					
19 —					
- 20 -					
20					
21 —					
- 22 -					
-23-					
— 24 —					

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REPORT DATE

LOG OF BORING ECB-11 760 22nd Street and 2201 Brush Street Oakland, California FIGURE

Total depth of boring:	20 feet
Diameter of boring:	2 1/2 inches
Date drilled:	09/25/15
Drilling Company:	PeneCore Drilling
Driller:	Juan
Drilling method:	Direct push
Sample diameter:	1 1/4 inches
Field Geologist:	Rodger Witham

Casing diameter:	NA			
Casing material:	NA			
Slot size:		NA		
Sand size:		NA		
Blank casing from	NA	_ to	NA	
Perforated casing from	NA	_ to	NA	
Annular seal from	NA	_ to	NA	
Bentonite plug from	NA	to	NA	
Sand pack from	NA	to	NA	

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
				Concrete	
	\l				$ \begin{bmatrix}                                   $
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<del> </del> 3 <del> </del>	1/\				
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<b>├</b> 4 <b>┤</b>	1				
	1				
	//				h, A, A, 4
<b>├</b> 5 <b>┤</b>	'├┬	'	СН	Silty clay, trace fine— to coarse—grained sand, pale yellowish—brown (10YR 6/2),_some_dusky_yellowish—brown (10YR 2/2) and dark_yellowish—	
				orange (10YR 6/6) staining, damp, high plasticity.	
	H	-			
<u></u> 6 →	H	0.0		Madagata vallaviah hyawa (10VD E/A) at 6 feet 2 inches	
				Moderate yellowish—brown (10YR 5/4) at 6 feet 2 inches.	$\nabla \nabla \nabla$
	H	-			
<b>├</b> ७ <b>┤</b>		0.0			
					<b>1</b>
	H	1			
8		0.0			h, a, a, d
		1			
9		0.0			
		]			
10	П	0.2	ML	Clayey silt, moderate yellowish—brown (10YR 5/4), some dark yellowish—orange	<del> </del>
			IVI∟	(10YR 6/6) staining, trace dusky yellowish—brown (10YR 2/2) decomposed plant material, moist, low plasticity.	
	П			plant material, moišt, low plasticitý.	
		0.3			$\nabla \nabla \nabla$

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REPORT DATE

LOG OF BORING ECB-12 760 22nd Street and 2201 Brush Street Oakland, California FIGURE

Depth	Sample No.	;	PID in PPM	USCS Code	Description	Well Const.
10				ML	Clayey silt, moderate yellowish-brown (10YR 5/4), some dark yellowish-orange (10YR 6/6) staining, trace dusky yellowish-brown (10YR 2/2) decomposed plant material, moist, low plasticity.	7
_12_			0.3	СН	Silty clay, trace coarse—grained sand, pale yellowish—brown (10YR 6/2), moderately abundant dark yellowish—orange (10YR 6/6) staining, moist, high plasticity.	7
_13_	S-13- ECB12		0.2	ML =	Clayey silt, pale yellowish—brown (10YR 6/2), abundant dark yellowish—orange (10YR 6/6) staining, some dusky yellowish—brown (10YR 2/2) decomposed organic material, very moist, low plasticity.	
-14 -			0.1	CL	Fine—grained sandy clay, light olive gray (5Y 5/2), very moist to wet, medium plasticity.	\times \t
<del>-</del> 15 <del>-</del>			0.4	SM	Silty fine-grained sand, trace coarse-grained sand, trace gravel, trace clay, dark yellowish-brown (10YR 4/2), wet.	
<del>-</del> 16 <del>-</del>			0.2	SP	Grades to:  Fine—grained sand, trace silt, dark yellowish—brown (10YR 4/2), some dark yellowish—orange (10YR 6/6) staining, wet.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
- 17 -			0.2		Moderate reddish-brown (10R 4/6) staining at 17 feet 5 inches to 18 feet.	\times \t
- 18 -			0.2	SM	Silty fine—grained sand, pale yellowish—brown (10 YR 6/2), moderately abundant dark yellowish—orange (10YR 6/6) and moderate reddish—brown (10R 4/6) staining, wet.	
<del>-</del> 19 <del>-</del>			0.2	CH	Silty clay, trace fine— to coarse—grained sand, trace gravel, pale yellowish—brown (10YR 6/2), trace dark yellowish—orange (10YR 6/6) and moderate reddish—brown (10R 4/6) staining, wet, high plasticity.  Abundant dark yellowish—orange (10YR 6/6) and moderate reddish—brown	
20			0.2		(10R 4/6) staining at 19½ feet to 19 feet 10 inches.  Some medium— to coarse—grained sand and gravel at 19 feet 10 inches.  Total depth = 20 feet. Ground water encountered at 13.69 feet.	
- 21 -						
- 22 -						
- 23 -						
<del>-</del> 24 <del>-</del>						

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564 Market Street
San Francisco, California 94104
(415) 938–7002

LOG OF BORING ECB-12 760 22nd Street and 2201 Brush Street Oakland, California FIGURE

Total depth of boring:	20 feet	Casing
Diameter of boring:	2 1/2 inches	Casing
Date drilled:	09/24/15	Slot si
Drilling Company:	PeneCore Drilling	Sand s
Driller:	Juan	Blank
Drilling method:	Direct push	Perford
Sample diameter:	1 1/4 inches	Annula
Field Geologist:	Rodger Witham	Renton

Casing diameter:	NA				
Casing material:		NA	NA		
Slot size:		NA	NA		
Sand size:		NA			
Blank casing from	NA	to	NA		
Perforated casing from	NA	to	NA		
Annular seal from	NA	to	NA		
Bentonite plug from	NA	to	NA		
Sand pack from	NA	to	NA		

Hand augered from 0 to 5 feet.

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
				Concrete	7
1 -			SW	Gravelly fine— to coarse—grained sand (FILL), light gray—brown, damp, loose.	$\begin{array}{ c c c c c }\hline \nabla & \nabla & \nabla \\\hline \hline 7 & \nabla & \nabla & \nabla \\\hline \nabla & \nabla & \nabla & \nabla \\\hline \end{array}$
_ 2 _			SP	Fine—grained sand (FILL), some coarse—grained sand, some gravel, dark yellowish—brown (10YR 4/2), damp. Concrete at 2 feet to 2 feet 4 inches	
- 3 -			ML	Silt (FILL) with clay, dusky yellowish—brown (10YR 2/2) with dark yellowish—brown (10YR 4/2) mottling, damp, brick fragment at 4 feet.	
- 4 -				Moderate yellowish—brown (10YR 5/4) at 4 feet 2 inches.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
- 5 -			ML	Clayey silt, some fine—grained sand, pale yellowish—brown (10YR 6/2), damp, low plasticity.	
- 6 -		0.1	СН	Silty clay, trace fine— to coarse—grained sand, trace gravel, pale yellowish—brown (10YR 6/2), trace small patches and specks of dark yellowish—orange (10YR 6/6) and dusky yellowish—brown (10YR 2/2) staining, damp, high plasticity.	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
7 -		0.5			7
8 -		0.0		Some dark yellowish—orange (10YR 6/6) and dusky yellowish—brown (10YR 2/2; decomposed organic material) staining at 7 to 9 feet.	7
9 -		0.0			7
-10-		0.4		Slight increase in sand content, light olive gray (5Y 6/1), moderately abundant dark yellowish—orange (10YR 6/6) staining, no dusky yellowish—brown staining at 9 to 10 feet. Fine—grained sandy clay at 10 feet to 11 feet 4 inches, moist.	$ \begin{array}{ c c c c } \hline \nabla & \nabla & \nabla \\ \hline 7 & \nabla & \nabla \\ \hline \nabla & \nabla & \nabla \\ \hline \end{array} $
		0.0			$\begin{array}{c c} \triangle & \triangle & \triangle \\ \hline A & \triangle & \triangle \\ \hline \end{array}$

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LOG OF BORING ECB-13
760 22nd Street and
2201 Brush Street
Oakland, California

FIGURE

Depth	Sample No.														PID in PPM	USCS Code	Description	Well Const.
12			0.3	СН	Light olive gray (5Y 6/1) and dark yellowish—orange (10YR 6/6) mottled.	7 V V V V V V V V V V V V V V V V V V V												
	S-13- ECB13		0.3	 SM	Silty fine—grained sand, some medium— to coarse—grained sand and gravel, pale yellowish—brown (10YR 6/2), abundant dark yellowish—orange (10YR 6/6) staining, moist.													
-14 -			0.2	CL	Silty clay, trace fine— to coarse—grained sand, trace gravel, pale yellowish—brown (10YR 6/2), some dark yellowish—orange (10YR 6/6) staining, moist, medium plasticity.	7												
<del>-</del> 15 <del>-</del>			0.0	SM	Silty fine—grained sand, some medium— to coarse—grained sand and gravel, moderate yellowish—brown (10YR 5/4), moderately abundant dark reddish—brown (10R 3/4) staining, moist. Clayey at 15½ to 15¾ feet.	7												
<del>-</del> 16 <del>-</del>			0.0	SC	Clayey fine— to coarse—grained sand, some gravel, moderate yellowish—brown (10YR 5/4), moderately abundant dark yellowish—orange (10YR 6/6) and moderate reddish—brown (10R 4/6) staining, moist.	-												
- 17 -			0.0		Fine— to coarse—grained sand lens at 17 feet 1 inch to 17 feet 7 inches, trace clay, wet.	$ \begin{array}{c cccc} & \nabla & \nabla & \nabla \\ \hline \hline$												
— 18 —			0.0	SW	Pale yellowish—brown (10YR 6/2) at 17 feet 11 inches.  Gravelly fine— to coarse—grained sand, some silt and clay, dark yellowish—brown (10YR 4/2), wet.	7												
- 19 -			0.0	СН	Silty clay, trace fine— to coarse—grained sand, trace gravel, moderate yellowish—brown (10YR 5/4), very moist, high plasticity.	7												
20			0.0	<u></u>	Total depth = 20 feet. Ground water encountered at 19.85 feet.													
- 21 -																		
- 22 -																		
- 23 -																		
— 24 —																		

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LOG OF BORING ECB-13 760 22nd Street and 2201 Brush Street Oakland, California FIGURE

Total depth of boring:	20 feet	Casi
Total acptil of borning.		
Diameter of boring:	2 1/2 inches	Casi
Date drilled:	09/24/15	Slot
Drilling Company:	PeneCore Drilling	Sand
Driller:	Juan	Blan
Drilling method:	Direct push	Perf
Sample diameter:	1 1/4 inches	Annı
Field Coologist:	Podger Witham	 Ront

Casing diameter:	NA				
Casing material:		NA	NA		
Slot size:		NA	NA		
Sand size:		NA			
Blank casing from	NA	to	NA		
Perforated casing from	NA	to	NA		
Annular seal from	NA	to	NA		
Bentonite plug from	NA	to	NA		
Sand pack from	NA	to	NA		

Hand augered from 0 to 5 feet.

Depth	Sample No.	PID in PPM	USCS Code	Description	Well Const.
				Asphalt	
					$7 \vee 7 \vee 7$
$\lfloor 1 \rfloor$					$\nabla \nabla \nabla$
L 2 -					<u></u>
			СН	Silty clay, moderate yellowish-brown (10YR 5/4) with a grayish cast, dusky yellowish-brown (10YR 2/2) staining in small patches, damp, high plasticity.	
				yellowish—brown (101R 2/2) staining in small patches, damp, high plasticity.	$     \begin{array}{c c}                                    $
<b>⊢</b> 3 <b>⊢</b>	$\perp$			Dark yellowish—brown (10YR 4/2) at 3 feet, some medium bluish—gray	
				(5B 5/1) discoloration at 3 to 5 feet.	
	H				
<b>⊢</b> 4 <b>⊣</b>	<u> </u>				
	H				$\triangle \triangle \triangle$
<b>├</b> 5 <b>┤</b>	H			Silty clay, trace fine— to coarse—grained sand, trace gravel, dark   yellowish—brown (10YR 4/2) trace to some dark yellowish—orange (10YR 6/6)	
				staining, trace white (N9) deposits (weathered grains and clasts), trace to	
	H			some dusky yellowish—brown (10YR 2/2) small patches and specks of decomposed plant material, damp, high plasticity.	
				decomposed plant material, damp, mgn plasticity.	
<del> </del> 6 <del> </del> −	H	0.0			
	H				
_					
フ		0.5			$\nabla \nabla \nabla$
8		0.3			
<b></b>	Ц				
"		0.2			
	Ц				
L <sub>10</sub>		0.0	SM/SC	Silty fine—grained sand, trace medium—grained sand, trace clay, moderate	<b>∀</b> ∀`∀`∀`
		0.0	JIVI/ JC	vellowish-brown (10YR 5/4), moist, grades to:	
	$\vdash$			Clayey fine—grained sand, trace medium— to coarse—grained sand, trace gravel, dark yellowish—brown (10YR 4/2), trace dark yellowish—orange	
				(10YR 6/6) and dusky yellowish—brown (10YR 2/2) staining, moist.	
		0.0			L*_*_*_

PROJECT NO. 15166	DRAWN BY EC	REPORT DATE November	2015
Essel Enviro 564 Market Street San Francisco, California (415) 938-7002	Consulting		

LOG OF BORING ECB-14 760 22nd Street and

2201 Brush Street Oakland, California

FIGURE

Depth	Sample No.		PID in PPM	USCS Code	Description	Well Const.
				SM/SC	Silty clay lens at 11 feet 5 inches to 11 feet 9 inches.	7 7 7 7
_ 12 _			0.0	<u></u>		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
_ 13 _	S-13- ECB14		0.1		Silty sand at 13 feet 3 inches, pale yellowish—brown (10YR 6/2), wet.	$\begin{array}{c cccc} \nabla & \nabla & \nabla \\ \hline 7 & \nabla & \nabla & \nabla \\ \hline 7 & \nabla & \nabla & \nabla \\ \hline 7 & \nabla & \nabla & \nabla \\ \hline \nabla & \nabla & \nabla & \nabla \\ \hline \end{array}$
-14 -			0.0		Clayey sand at 13 feet 9 inches, moderate yellowish-brown (10YR 5/4) and dusky yellowish-brown (10YR 2/2) variegated, trace dark yellowish-orange (10YR 6/6) and moderate reddish-brown (10R 4/6) staining, wet. Abundant moderate reddish-brown (10R 4/6) staining at 14 feet 4 inches. Silty sand at 14 feet 4 inches, moderate yellowish-brown, some dark yellowish-orange (10YR 6/6) staining, wet.	
<b>—</b> 15 <b>—</b>			0.0		Pale yellowish—brown (10YR 6/2) at 14 feet 8 inches.	\times \t
- 16 -			0.0			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
- 17 -			0.0		Abundant moderate reddish-brown (10R 4/6) staining at 16 feet 8 inches to 17 feet 4 inches. Clayey fine-grained sand at 17 feet	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
- 18 -			0.0	СН	Silty clay with fine— to coarse—grained sand and gravel, medium dark gray (N4) discolored, wet, high plasticity.	7
<del>-</del> 19 <del>-</del>	S-18½- ECB14		0.0	SC	Clayey fine— to coarse—grained sand, with gravel, dark yellowish—brown (10YR 4/2), some dark yellowish—orange (10YR 6/6) staining, wet.	
20			0.0		Total depth = 20 feet. Ground water encountered at 12.41 feet.	
- 21 -						
- 22 -						
- 23 -						
<u> </u>						
DDO IFOT N			DOMAN DV		PEDORT DATE	

PROJECT NO.
15166

DRAWN BY
EC
November 2015

Essel Environmental Consulting
564 Market Street
San Francisco, California 94104
(415) 938-7002

LOG OF BORING ECB-14 760 22nd Street and 2201 Brush Street Oakland, California FIGURE

## **APPENDIX D**

# CHAIN-OF-CUSTODY FORMS AND LABORATORY ANALYTICAL REPORTS



# McCampbell Analytical, Inc.

"When Quality Counts"

## **Analytical Report**

WorkOrder: 1509A61

Report Created for: Essel Environmental Consulting

564 Market Street

San Francisco, CA 94104

**Project Contact:** Nik Lahiri

**Project P.O.:** 

**Project Name:** 15166; EBALDC

**Project Received:** 09/25/2015

Analytical Report reviewed & approved for release on 10/02/2015 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:** Essel Environmental Consulting

**Project:** 15166; EBALDC

WorkOrder: 1509A61

#### **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:** Essel Environmental Consulting

**Project:** 15166; EBALDC

WorkOrder: 1509A61

#### **Analytical Qualifiers**

S	spike recovery outside accepted recovery limits
a2	sample diluted due to cluttered chromatogram
a3	sample diluted due to high organic content.
c2	surrogate recovery outside of the control limits due to matrix interference.
c7	Surrogate value diluted out of range
d7	strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
d9	no recognizable pattern
e1	unmodified or weakly modified diesel is significant
e2	diesel range compounds are significant; no recognizable pattern
e3	aged diesel is significant
e7	oil range compounds are significant
e8	kerosene/kerosene range/jet fuel range
e11/e8	stoddard solvent/mineral spirit (?); and/or kerosene/kerosene range/jet fuel range
e11	stoddard solvent/mineral spirit (?)



**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**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	Date Col	lected Instrument	Batch ID
S-121/2-ECB1	1509A61-001A	Soil	09/24/2015	5 08:45 GC18	110781
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Acetone	ND		0.10	1	09/29/2015 16:49
tert-Amyl methyl ether (TAME)	ND		0.0050	1	09/29/2015 16:49
Benzene	ND		0.0050	1	09/29/2015 16:49
Bromobenzene	ND		0.0050	1	09/29/2015 16:49
Bromochloromethane	ND		0.0050	1	09/29/2015 16:49
Bromodichloromethane	ND		0.0050	1	09/29/2015 16:49
Bromoform	ND		0.0050	1	09/29/2015 16:49
Bromomethane	ND		0.0050	1	09/29/2015 16:49
2-Butanone (MEK)	ND		0.020	1	09/29/2015 16:49
t-Butyl alcohol (TBA)	ND		0.050	1	09/29/2015 16:49
n-Butyl benzene	ND		0.0050	1	09/29/2015 16:49
sec-Butyl benzene	ND		0.0050	1	09/29/2015 16:49
tert-Butyl benzene	ND		0.0050	1	09/29/2015 16:49
Carbon Disulfide	ND		0.0050	1	09/29/2015 16:49
Carbon Tetrachloride	ND		0.0050	1	09/29/2015 16:49
Chlorobenzene	ND		0.0050	1	09/29/2015 16:49
Chloroethane	ND		0.0050	1	09/29/2015 16:49
Chloroform	ND		0.0050	1	09/29/2015 16:49
Chloromethane	ND		0.0050	1	09/29/2015 16:49
2-Chlorotoluene	ND		0.0050	1	09/29/2015 16:49
4-Chlorotoluene	ND		0.0050	1	09/29/2015 16:49
Dibromochloromethane	ND		0.0050	1	09/29/2015 16:49
1,2-Dibromo-3-chloropropane	ND		0.0040	1	09/29/2015 16:49
1,2-Dibromoethane (EDB)	ND		0.0040	1	09/29/2015 16:49
Dibromomethane	ND		0.0050	1	09/29/2015 16:49
1,2-Dichlorobenzene	ND		0.0050	1	09/29/2015 16:49
1,3-Dichlorobenzene	ND		0.0050	1	09/29/2015 16:49
1,4-Dichlorobenzene	ND		0.0050	1	09/29/2015 16:49
Dichlorodifluoromethane	ND		0.0050	1	09/29/2015 16:49
1,1-Dichloroethane	ND		0.0050	1	09/29/2015 16:49
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	09/29/2015 16:49
1,1-Dichloroethene	ND		0.0050	1	09/29/2015 16:49
cis-1,2-Dichloroethene	ND		0.0050	1	09/29/2015 16:49
trans-1,2-Dichloroethene	ND		0.0050	1	09/29/2015 16:49
1,2-Dichloropropane	ND		0.0050	1	09/29/2015 16:49
1,3-Dichloropropane	ND		0.0050	1	09/29/2015 16:49
2,2-Dichloropropane	ND		0.0050	1	09/29/2015 16:49

(Cont.)

## **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID	Matrix	Date Co	llected	Instrument	Batch ID
S-121/2-ECB1	1509A61-001A	Soil	09/24/201	5 08:45	GC18	110781
Analytes	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
1,1-Dichloropropene	ND		0.0050	1		09/29/2015 16:49
cis-1,3-Dichloropropene	ND		0.0050	1		09/29/2015 16:49
trans-1,3-Dichloropropene	ND		0.0050	1		09/29/2015 16:49
Diisopropyl ether (DIPE)	ND		0.0050	1		09/29/2015 16:49
Ethylbenzene	ND		0.0050	1		09/29/2015 16:49
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1		09/29/2015 16:49
Freon 113	ND		0.0050	1		09/29/2015 16:49
Hexachlorobutadiene	ND		0.0050	1		09/29/2015 16:49
Hexachloroethane	ND		0.0050	1		09/29/2015 16:49
2-Hexanone	ND		0.0050	1		09/29/2015 16:49
Isopropylbenzene	ND		0.0050	1		09/29/2015 16:49
4-Isopropyl toluene	ND		0.0050	1		09/29/2015 16:49
Methyl-t-butyl ether (MTBE)	ND		0.0050	1		09/29/2015 16:49
Methylene chloride	ND		0.0050	1		09/29/2015 16:49
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1		09/29/2015 16:49
Naphthalene	ND		0.0050	1		09/29/2015 16:49
n-Propyl benzene	ND		0.0050	1		09/29/2015 16:49
Styrene	ND		0.0050	1		09/29/2015 16:49
1,1,1,2-Tetrachloroethane	ND		0.0050	1		09/29/2015 16:49
1,1,2,2-Tetrachloroethane	ND		0.0050	1		09/29/2015 16:49
Tetrachloroethene	ND		0.0050	1		09/29/2015 16:49
Toluene	ND		0.0050	1		09/29/2015 16:49
1,2,3-Trichlorobenzene	ND		0.0050	1		09/29/2015 16:49
1,2,4-Trichlorobenzene	ND		0.0050	1		09/29/2015 16:49
1,1,1-Trichloroethane	ND		0.0050	1		09/29/2015 16:49
1,1,2-Trichloroethane	ND		0.0050	1		09/29/2015 16:49
Trichloroethene	ND		0.0050	1		09/29/2015 16:49
Trichlorofluoromethane	ND		0.0050	1		09/29/2015 16:49
1,2,3-Trichloropropane	ND		0.0050	1		09/29/2015 16:49
1,2,4-Trimethylbenzene	ND		0.0050	1		09/29/2015 16:49
1,3,5-Trimethylbenzene	ND		0.0050	1		09/29/2015 16:49
Vinyl Chloride	ND		0.0050	1		09/29/2015 16:49
Xylenes, Total	ND		0.0050	1		09/29/2015 16:49

## **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

**WorkOrder:** 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID
S-121/2-ECB1	1509A61-001A Soil	09/24/2015 08:45 GC18	110781
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
<u>Surrogates</u>	REC (%)	<u>Limits</u>	
Dibromofluoromethane	103	70-130	09/29/2015 16:49
Toluene-d8	84	70-130	09/29/2015 16:49
4-BFB	90	70-130	09/29/2015 16:49
Benzene-d6	126	60-140	09/29/2015 16:49
Ethylbenzene-d10	126	60-140	09/29/2015 16:49
1,2-DCB-d4	111	60-140	09/29/2015 16:49



**Client: Essel Environmental Consulting** 

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC WorkOrder: 1509A61

**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	Date Collec	cted Instrument	Batch ID
S-191/2-ECB1	1509A61-002A	Soil	09/24/2015 0	8:59 GC18	110781
<u>Analytes</u>	Result		<u>RL</u> D	<u>)F</u>	Date Analyzed
Acetone	ND		0.10	1	09/29/2015 12:55
tert-Amyl methyl ether (TAME)	ND		0.0050	1	09/29/2015 12:55
Benzene	ND		0.0050	1	09/29/2015 12:55
Bromobenzene	ND		0.0050	1	09/29/2015 12:55
Bromochloromethane	ND		0.0050	1	09/29/2015 12:55
Bromodichloromethane	ND		0.0050	1	09/29/2015 12:55
Bromoform	ND		0.0050	1	09/29/2015 12:55
Bromomethane	ND		0.0050	1	09/29/2015 12:55
2-Butanone (MEK)	ND		0.020	1	09/29/2015 12:55
t-Butyl alcohol (TBA)	ND		0.050	1	09/29/2015 12:55
n-Butyl benzene	ND		0.0050	1	09/29/2015 12:55
sec-Butyl benzene	ND		0.0050	1	09/29/2015 12:55
tert-Butyl benzene	ND		0.0050	1	09/29/2015 12:55
Carbon Disulfide	ND		0.0050	1	09/29/2015 12:55
Carbon Tetrachloride	ND		0.0050	1	09/29/2015 12:55
Chlorobenzene	ND		0.0050	1	09/29/2015 12:55
Chloroethane	ND		0.0050	1	09/29/2015 12:55
Chloroform	ND		0.0050	1	09/29/2015 12:55
Chloromethane	ND		0.0050	1	09/29/2015 12:55
2-Chlorotoluene	ND		0.0050	1	09/29/2015 12:55
4-Chlorotoluene	ND		0.0050	1	09/29/2015 12:55
Dibromochloromethane	ND		0.0050	1	09/29/2015 12:55
1,2-Dibromo-3-chloropropane	ND		0.0040	1	09/29/2015 12:55
1,2-Dibromoethane (EDB)	ND		0.0040	1	09/29/2015 12:55
Dibromomethane	ND		0.0050	1	09/29/2015 12:55
1,2-Dichlorobenzene	ND		0.0050	1	09/29/2015 12:55
1,3-Dichlorobenzene	ND		0.0050	1	09/29/2015 12:55
1,4-Dichlorobenzene	ND		0.0050	1	09/29/2015 12:55
Dichlorodifluoromethane	ND		0.0050	1	09/29/2015 12:55
1,1-Dichloroethane	ND		0.0050	1	09/29/2015 12:55
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	09/29/2015 12:55
1,1-Dichloroethene	ND		0.0050	1	09/29/2015 12:55
cis-1,2-Dichloroethene	ND		0.0050	1	09/29/2015 12:55
trans-1,2-Dichloroethene	ND		0.0050	1	09/29/2015 12:55
1,2-Dichloropropane	ND		0.0050	1	09/29/2015 12:55
1,3-Dichloropropane	ND		0.0050	1	09/29/2015 12:55
2,2-Dichloropropane	ND		0.0050	1	09/29/2015 12:55

(Cont.)

## **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B **Unit:** mg/kg

Client ID	Lab ID	Matrix	Date Co	llected Instrument	Batch ID
S-191/2-ECB1	1509A61-002A	Soil	09/24/201	5 08:59 GC18	110781
Analytes	<u>Result</u>		<u>RL</u>	<u>DF</u>	Date Analyzed
1,1-Dichloropropene	ND		0.0050	1	09/29/2015 12:55
cis-1,3-Dichloropropene	ND		0.0050	1	09/29/2015 12:55
trans-1,3-Dichloropropene	ND		0.0050	1	09/29/2015 12:55
Diisopropyl ether (DIPE)	ND		0.0050	1	09/29/2015 12:55
Ethylbenzene	ND		0.0050	1	09/29/2015 12:55
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	09/29/2015 12:55
Freon 113	ND		0.0050	1	09/29/2015 12:55
Hexachlorobutadiene	ND		0.0050	1	09/29/2015 12:55
Hexachloroethane	ND		0.0050	1	09/29/2015 12:55
2-Hexanone	ND		0.0050	1	09/29/2015 12:55
Isopropylbenzene	ND		0.0050	1	09/29/2015 12:55
4-Isopropyl toluene	ND		0.0050	1	09/29/2015 12:55
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	09/29/2015 12:55
Methylene chloride	ND		0.0050	1	09/29/2015 12:55
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	09/29/2015 12:55
Naphthalene	ND		0.0050	1	09/29/2015 12:55
n-Propyl benzene	ND		0.0050	1	09/29/2015 12:55
Styrene	ND		0.0050	1	09/29/2015 12:55
1,1,1,2-Tetrachloroethane	ND		0.0050	1	09/29/2015 12:55
1,1,2,2-Tetrachloroethane	ND		0.0050	1	09/29/2015 12:55
Tetrachloroethene	ND		0.0050	1	09/29/2015 12:55
Toluene	ND		0.0050	1	09/29/2015 12:55
1,2,3-Trichlorobenzene	ND		0.0050	1	09/29/2015 12:55
1,2,4-Trichlorobenzene	ND		0.0050	1	09/29/2015 12:55
1,1,1-Trichloroethane	ND		0.0050	1	09/29/2015 12:55
1,1,2-Trichloroethane	ND		0.0050	1	09/29/2015 12:55
Trichloroethene	ND		0.0050	1	09/29/2015 12:55
Trichlorofluoromethane	ND		0.0050	1	09/29/2015 12:55
1,2,3-Trichloropropane	ND		0.0050	1	09/29/2015 12:55
1,2,4-Trimethylbenzene	ND		0.0050	1	09/29/2015 12:55
1,3,5-Trimethylbenzene	ND		0.0050	1	09/29/2015 12:55
Vinyl Chloride	ND		0.0050	1	09/29/2015 12:55
Xylenes, Total	ND		0.0050	1	09/29/2015 12:55

## **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID
S-19½-ECB1	1509A61-002A Soil	09/24/2015 08:59 GC18	110781
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	Limits	
Dibromofluoromethane	104	70-130	09/29/2015 12:55
Toluene-d8	86	70-130	09/29/2015 12:55
4-BFB	95	70-130	09/29/2015 12:55
Benzene-d6	126	60-140	09/29/2015 12:55
Ethylbenzene-d10	124	60-140	09/29/2015 12:55
1,2-DCB-d4	104	60-140	09/29/2015 12:55



**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**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	Date Colle	ected Instrument	Batch ID
S-15-ECB1	1509A61-003A	Soil	09/24/2015	08:55 GC18	110781
<u>Analytes</u>	Result		<u>RL</u> !	<u>DF</u>	Date Analyzed
Acetone	ND		0.10	1	09/29/2015 13:33
tert-Amyl methyl ether (TAME)	ND		0.0050	1	09/29/2015 13:33
Benzene	ND		0.0050	1	09/29/2015 13:33
Bromobenzene	ND		0.0050	1	09/29/2015 13:33
Bromochloromethane	ND		0.0050	1	09/29/2015 13:33
Bromodichloromethane	ND		0.0050	1	09/29/2015 13:33
Bromoform	ND		0.0050	1	09/29/2015 13:33
Bromomethane	ND		0.0050	1	09/29/2015 13:33
2-Butanone (MEK)	ND		0.020	1	09/29/2015 13:33
t-Butyl alcohol (TBA)	ND		0.050	1	09/29/2015 13:33
n-Butyl benzene	ND		0.0050	1	09/29/2015 13:33
sec-Butyl benzene	ND		0.0050	1	09/29/2015 13:33
tert-Butyl benzene	ND		0.0050	1	09/29/2015 13:33
Carbon Disulfide	ND		0.0050	1	09/29/2015 13:33
Carbon Tetrachloride	ND		0.0050	1	09/29/2015 13:33
Chlorobenzene	ND		0.0050	1	09/29/2015 13:33
Chloroethane	ND		0.0050	1	09/29/2015 13:33
Chloroform	ND		0.0050	1	09/29/2015 13:33
Chloromethane	ND		0.0050	1	09/29/2015 13:33
2-Chlorotoluene	ND		0.0050	1	09/29/2015 13:33
4-Chlorotoluene	ND		0.0050	1	09/29/2015 13:33
Dibromochloromethane	ND		0.0050	1	09/29/2015 13:33
1,2-Dibromo-3-chloropropane	ND		0.0040	1	09/29/2015 13:33
1,2-Dibromoethane (EDB)	ND		0.0040	1	09/29/2015 13:33
Dibromomethane	ND		0.0050	1	09/29/2015 13:33
1,2-Dichlorobenzene	ND		0.0050	1	09/29/2015 13:33
1,3-Dichlorobenzene	ND		0.0050	1	09/29/2015 13:33
1,4-Dichlorobenzene	ND		0.0050	1	09/29/2015 13:33
Dichlorodifluoromethane	ND		0.0050	1	09/29/2015 13:33
1,1-Dichloroethane	ND		0.0050	1	09/29/2015 13:33
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	09/29/2015 13:33
1,1-Dichloroethene	ND		0.0050	1	09/29/2015 13:33
cis-1,2-Dichloroethene	ND		0.0050	1	09/29/2015 13:33
trans-1,2-Dichloroethene	ND		0.0050	1	09/29/2015 13:33
1,2-Dichloropropane	ND		0.0050	1	09/29/2015 13:33
1,3-Dichloropropane	ND		0.0050	1	09/29/2015 13:33
2,2-Dichloropropane	ND		0.0050	1	09/29/2015 13:33

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## **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

**WorkOrder:** 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B **Unit:** mg/kg

Client ID	Lab ID	Matrix	Date Col	llected Instrument	Batch ID
S-15-ECB1	1509A61-003A	Soil	09/24/201	5 08:55 GC18	110781
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
1,1-Dichloropropene	ND		0.0050	1	09/29/2015 13:33
cis-1,3-Dichloropropene	ND		0.0050	1	09/29/2015 13:33
trans-1,3-Dichloropropene	ND		0.0050	1	09/29/2015 13:33
Diisopropyl ether (DIPE)	ND		0.0050	1	09/29/2015 13:33
Ethylbenzene	ND		0.0050	1	09/29/2015 13:33
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	09/29/2015 13:33
Freon 113	ND		0.0050	1	09/29/2015 13:33
Hexachlorobutadiene	ND		0.0050	1	09/29/2015 13:33
Hexachloroethane	ND		0.0050	1	09/29/2015 13:33
2-Hexanone	ND		0.0050	1	09/29/2015 13:33
Isopropylbenzene	ND		0.0050	1	09/29/2015 13:33
4-Isopropyl toluene	ND		0.0050	1	09/29/2015 13:33
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	09/29/2015 13:33
Methylene chloride	ND		0.0050	1	09/29/2015 13:33
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	09/29/2015 13:33
Naphthalene	ND		0.0050	1	09/29/2015 13:33
n-Propyl benzene	ND		0.0050	1	09/29/2015 13:33
Styrene	ND		0.0050	1	09/29/2015 13:33
1,1,1,2-Tetrachloroethane	ND		0.0050	1	09/29/2015 13:33
1,1,2,2-Tetrachloroethane	ND		0.0050	1	09/29/2015 13:33
Tetrachloroethene	ND		0.0050	1	09/29/2015 13:33
Toluene	ND		0.0050	1	09/29/2015 13:33
1,2,3-Trichlorobenzene	ND		0.0050	1	09/29/2015 13:33
1,2,4-Trichlorobenzene	ND		0.0050	1	09/29/2015 13:33
1,1,1-Trichloroethane	ND		0.0050	1	09/29/2015 13:33
1,1,2-Trichloroethane	ND		0.0050	1	09/29/2015 13:33
Trichloroethene	ND		0.0050	1	09/29/2015 13:33
Trichlorofluoromethane	ND		0.0050	1	09/29/2015 13:33
1,2,3-Trichloropropane	ND		0.0050	1	09/29/2015 13:33
1,2,4-Trimethylbenzene	ND		0.0050	1	09/29/2015 13:33
1,3,5-Trimethylbenzene	ND		0.0050	1	09/29/2015 13:33
Vinyl Chloride	ND		0.0050	1	09/29/2015 13:33
Xylenes, Total	ND		0.0050	1	09/29/2015 13:33

## **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

**WorkOrder:** 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch II
S-15-ECB1	1509A61-003A Soil	09/24/2015 08:55 GC18	110781
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
<u>Surrogates</u>	REC (%)	<u>Limits</u>	
Dibromofluoromethane	104	70-130	09/29/2015 13:33
Toluene-d8	87	70-130	09/29/2015 13:33
4-BFB	95	70-130	09/29/2015 13:33
Benzene-d6	130	60-140	09/29/2015 13:33
Ethylbenzene-d10	128	60-140	09/29/2015 13:33
1,2-DCB-d4	107	60-140	09/29/2015 13:33



**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

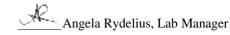
**Extraction Method:** SW5030B **Analytical Method:** SW8260B

**Unit:** mg/kg

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

Client ID	Lab ID	Matrix	Date Coll	ected	Instrument	Batch ID
S-4½-ECB2	1509A61-004A	Soil	09/24/2015	09:27	GC18	110781
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
Acetone	ND		0.10	1		09/29/2015 14:12
tert-Amyl methyl ether (TAME)	ND		0.0050	1		09/29/2015 14:12
Benzene	ND		0.0050	1		09/29/2015 14:12
Bromobenzene	ND		0.0050	1		09/29/2015 14:12
Bromochloromethane	ND		0.0050	1		09/29/2015 14:12
Bromodichloromethane	ND		0.0050	1		09/29/2015 14:12
Bromoform	ND		0.0050	1		09/29/2015 14:12
Bromomethane	ND		0.0050	1		09/29/2015 14:12
2-Butanone (MEK)	ND		0.020	1		09/29/2015 14:12
t-Butyl alcohol (TBA)	ND		0.050	1		09/29/2015 14:12
n-Butyl benzene	ND		0.0050	1		09/29/2015 14:12
sec-Butyl benzene	ND		0.0050	1		09/29/2015 14:12
tert-Butyl benzene	ND		0.0050	1		09/29/2015 14:12
Carbon Disulfide	ND		0.0050	1		09/29/2015 14:12
Carbon Tetrachloride	ND		0.0050	1		09/29/2015 14:12
Chlorobenzene	ND		0.0050	1		09/29/2015 14:12
Chloroethane	ND		0.0050	1		09/29/2015 14:12
Chloroform	ND		0.0050	1		09/29/2015 14:12
Chloromethane	ND		0.0050	1		09/29/2015 14:12
2-Chlorotoluene	ND		0.0050	1		09/29/2015 14:12
4-Chlorotoluene	ND		0.0050	1		09/29/2015 14:12
Dibromochloromethane	ND		0.0050	1		09/29/2015 14:12
1,2-Dibromo-3-chloropropane	ND		0.0040	1		09/29/2015 14:12
1,2-Dibromoethane (EDB)	ND		0.0040	1		09/29/2015 14:12
Dibromomethane	ND		0.0050	1		09/29/2015 14:12
1,2-Dichlorobenzene	ND		0.0050	1		09/29/2015 14:12
1,3-Dichlorobenzene	ND		0.0050	1		09/29/2015 14:12
1,4-Dichlorobenzene	ND		0.0050	1		09/29/2015 14:12
Dichlorodifluoromethane	ND		0.0050	1		09/29/2015 14:12
1,1-Dichloroethane	ND		0.0050	1		09/29/2015 14:12
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1		09/29/2015 14:12
1,1-Dichloroethene	ND		0.0050	1		09/29/2015 14:12
cis-1,2-Dichloroethene	ND		0.0050	1		09/29/2015 14:12
trans-1,2-Dichloroethene	ND		0.0050	1		09/29/2015 14:12
1,2-Dichloropropane	ND		0.0050	1		09/29/2015 14:12
1,3-Dichloropropane	ND		0.0050	1		09/29/2015 14:12
2,2-Dichloropropane	ND		0.0050	1		09/29/2015 14:12

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## **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

**WorkOrder:** 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B **Unit:** mg/kg

Client ID	Lab ID	Matrix	Date Col	llected Instrument	Batch ID
S-4½-ECB2	1509A61-004A	Soil	09/24/201	5 09:27 GC18	110781
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
1,1-Dichloropropene	ND		0.0050	1	09/29/2015 14:12
cis-1,3-Dichloropropene	ND		0.0050	1	09/29/2015 14:12
trans-1,3-Dichloropropene	ND		0.0050	1	09/29/2015 14:12
Diisopropyl ether (DIPE)	ND		0.0050	1	09/29/2015 14:12
Ethylbenzene	ND		0.0050	1	09/29/2015 14:12
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	09/29/2015 14:12
Freon 113	ND		0.0050	1	09/29/2015 14:12
Hexachlorobutadiene	ND		0.0050	1	09/29/2015 14:12
Hexachloroethane	ND		0.0050	1	09/29/2015 14:12
2-Hexanone	ND		0.0050	1	09/29/2015 14:12
Isopropylbenzene	ND		0.0050	1	09/29/2015 14:12
4-Isopropyl toluene	ND		0.0050	1	09/29/2015 14:12
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	09/29/2015 14:12
Methylene chloride	ND		0.0050	1	09/29/2015 14:12
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	09/29/2015 14:12
Naphthalene	ND		0.0050	1	09/29/2015 14:12
n-Propyl benzene	ND		0.0050	1	09/29/2015 14:12
Styrene	ND		0.0050	1	09/29/2015 14:12
1,1,1,2-Tetrachloroethane	ND		0.0050	1	09/29/2015 14:12
1,1,2,2-Tetrachloroethane	ND		0.0050	1	09/29/2015 14:12
Tetrachloroethene	ND		0.0050	1	09/29/2015 14:12
Toluene	ND		0.0050	1	09/29/2015 14:12
1,2,3-Trichlorobenzene	ND		0.0050	1	09/29/2015 14:12
1,2,4-Trichlorobenzene	ND		0.0050	1	09/29/2015 14:12
1,1,1-Trichloroethane	ND		0.0050	1	09/29/2015 14:12
1,1,2-Trichloroethane	ND		0.0050	1	09/29/2015 14:12
Trichloroethene	ND		0.0050	1	09/29/2015 14:12
Trichlorofluoromethane	ND		0.0050	1	09/29/2015 14:12
1,2,3-Trichloropropane	ND		0.0050	1	09/29/2015 14:12
1,2,4-Trimethylbenzene	ND		0.0050	1	09/29/2015 14:12
1,3,5-Trimethylbenzene	ND		0.0050	1	09/29/2015 14:12
Vinyl Chloride	ND		0.0050	1	09/29/2015 14:12
Xylenes, Total	ND		0.0050	1	09/29/2015 14:12

## **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID	
S-41/2-ECB2	1509A61-004A Soil	09/24/2015 09:27 GC18	110781	
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed	
<u>Surrogates</u>	REC (%)	<u>Limits</u>		
Dibromofluoromethane	105	70-130	09/29/2015 14:12	
Toluene-d8	86	70-130	09/29/2015 14:12	
4-BFB	96	70-130	09/29/2015 14:12	
Benzene-d6	134	60-140	09/29/2015 14:12	
Ethylbenzene-d10	129	60-140	09/29/2015 14:12	
1,2-DCB-d4	111	60-140	09/29/2015 14:12	



**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**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	Date Co	ollected Instrument	Batch ID
S-9-ECB2	1509A61-005A	Soil	09/24/201	15 09:48 GC18	110781
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	Date Analyzed
Acetone	ND		0.10	1	09/29/2015 14:51
tert-Amyl methyl ether (TAME)	ND		0.0050	1	09/29/2015 14:51
Benzene	ND		0.0050	1	09/29/2015 14:51
Bromobenzene	ND		0.0050	1	09/29/2015 14:51
Bromochloromethane	ND		0.0050	1	09/29/2015 14:51
Bromodichloromethane	ND		0.0050	1	09/29/2015 14:51
Bromoform	ND		0.0050	1	09/29/2015 14:51
Bromomethane	ND		0.0050	1	09/29/2015 14:51
2-Butanone (MEK)	ND		0.020	1	09/29/2015 14:51
t-Butyl alcohol (TBA)	ND		0.050	1	09/29/2015 14:51
n-Butyl benzene	ND		0.0050	1	09/29/2015 14:51
sec-Butyl benzene	ND		0.0050	1	09/29/2015 14:51
tert-Butyl benzene	ND		0.0050	1	09/29/2015 14:51
Carbon Disulfide	ND		0.0050	1	09/29/2015 14:51
Carbon Tetrachloride	ND		0.0050	1	09/29/2015 14:51
Chlorobenzene	ND		0.0050	1	09/29/2015 14:51
Chloroethane	ND		0.0050	1	09/29/2015 14:51
Chloroform	ND		0.0050	1	09/29/2015 14:51
Chloromethane	ND		0.0050	1	09/29/2015 14:51
2-Chlorotoluene	ND		0.0050	1	09/29/2015 14:51
4-Chlorotoluene	ND		0.0050	1	09/29/2015 14:51
Dibromochloromethane	ND		0.0050	1	09/29/2015 14:51
1,2-Dibromo-3-chloropropane	ND		0.0040	1	09/29/2015 14:51
1,2-Dibromoethane (EDB)	ND		0.0040	1	09/29/2015 14:51
Dibromomethane	ND		0.0050	1	09/29/2015 14:51
1,2-Dichlorobenzene	ND		0.0050	1	09/29/2015 14:51
1,3-Dichlorobenzene	ND		0.0050	1	09/29/2015 14:51
1,4-Dichlorobenzene	ND		0.0050	1	09/29/2015 14:51
Dichlorodifluoromethane	ND		0.0050	1	09/29/2015 14:51
1,1-Dichloroethane	ND		0.0050	1	09/29/2015 14:51
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	09/29/2015 14:51
1,1-Dichloroethene	ND		0.0050	1	09/29/2015 14:51
cis-1,2-Dichloroethene	ND		0.0050	1	09/29/2015 14:51
trans-1,2-Dichloroethene	ND		0.0050	1	09/29/2015 14:51
1,2-Dichloropropane	ND		0.0050	1	09/29/2015 14:51
1,3-Dichloropropane	ND		0.0050	1	09/29/2015 14:51
2,2-Dichloropropane	ND		0.0050	1	09/29/2015 14:51

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**Client: Essel Environmental Consulting** 

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC WorkOrder: 1509A61

**Extraction Method: SW5030B** 

**Analytical Method: SW8260B** Unit: mg/kg

Client ID	Lab ID	Matrix	Date Col	llected Instrume	nt Batch ID
S-9-ECB2	1509A61-005A	Soil	09/24/201	5 09:48 GC18	110781
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
1,1-Dichloropropene	ND		0.0050	1	09/29/2015 14:51
cis-1,3-Dichloropropene	ND		0.0050	1	09/29/2015 14:51
trans-1,3-Dichloropropene	ND		0.0050	1	09/29/2015 14:51
Diisopropyl ether (DIPE)	ND		0.0050	1	09/29/2015 14:51
Ethylbenzene	ND		0.0050	1	09/29/2015 14:51
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	09/29/2015 14:51
Freon 113	ND		0.0050	1	09/29/2015 14:51
Hexachlorobutadiene	ND		0.0050	1	09/29/2015 14:51
Hexachloroethane	ND		0.0050	1	09/29/2015 14:51
2-Hexanone	ND		0.0050	1	09/29/2015 14:51
Isopropylbenzene	ND		0.0050	1	09/29/2015 14:51
4-Isopropyl toluene	ND		0.0050	1	09/29/2015 14:51
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	09/29/2015 14:51
Methylene chloride	ND		0.0050	1	09/29/2015 14:51
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	09/29/2015 14:51
Naphthalene	ND		0.0050	1	09/29/2015 14:51
n-Propyl benzene	ND		0.0050	1	09/29/2015 14:51
Styrene	ND		0.0050	1	09/29/2015 14:51
1,1,1,2-Tetrachloroethane	ND		0.0050	1	09/29/2015 14:51
1,1,2,2-Tetrachloroethane	ND		0.0050	1	09/29/2015 14:51
Tetrachloroethene	ND		0.0050	1	09/29/2015 14:51
Toluene	ND		0.0050	1	09/29/2015 14:51
1,2,3-Trichlorobenzene	ND		0.0050	1	09/29/2015 14:51
1,2,4-Trichlorobenzene	ND		0.0050	1	09/29/2015 14:51
1,1,1-Trichloroethane	ND		0.0050	1	09/29/2015 14:51
1,1,2-Trichloroethane	ND		0.0050	1	09/29/2015 14:51
Trichloroethene	ND		0.0050	1	09/29/2015 14:51
Trichlorofluoromethane	ND		0.0050	1	09/29/2015 14:51
1,2,3-Trichloropropane	ND		0.0050	1	09/29/2015 14:51
1,2,4-Trimethylbenzene	ND		0.0050	1	09/29/2015 14:51
1,3,5-Trimethylbenzene	ND		0.0050	1	09/29/2015 14:51
Vinyl Chloride	ND		0.0050	1	09/29/2015 14:51
Xylenes, Total	ND		0.0050	1	09/29/2015 14:51

## **Analytical Report**

**Client: Essel Environmental Consulting** 

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

**Date Received:** 9/25/15 19:30

WorkOrder: 1509A61

**Extraction Method: SW5030B** 

**Analytical Method: SW8260B** 

Unit: mg/kg

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID
S-9-ECB2	1509A61-005A Soil	09/24/2015 09:48 GC18	110781
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
Surrogates	REC (%)	<u>Limits</u>	
Dibromofluoromethane	105	70-130	09/29/2015 14:51
Toluene-d8	86	70-130	09/29/2015 14:51
4-BFB	93	70-130	09/29/2015 14:51
Benzene-d6	132	60-140	09/29/2015 14:51
Ethylbenzene-d10	129	60-140	09/29/2015 14:51
1,2-DCB-d4	109	60-140	09/29/2015 14:51



**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

**WorkOrder:** 1509A61

**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	Date Coll	lected	Instrument	Batch ID
S-17-ECB2	1509A61-006A	Soil	09/24/2015	10:05	GC18	110781
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
Acetone	ND		0.10	1		09/29/2015 16:10
tert-Amyl methyl ether (TAME)	ND		0.0050	1		09/29/2015 16:10
Benzene	ND		0.0050	1		09/29/2015 16:10
Bromobenzene	ND		0.0050	1		09/29/2015 16:10
Bromochloromethane	ND		0.0050	1		09/29/2015 16:10
Bromodichloromethane	ND		0.0050	1		09/29/2015 16:10
Bromoform	ND		0.0050	1		09/29/2015 16:10
Bromomethane	ND		0.0050	1		09/29/2015 16:10
2-Butanone (MEK)	ND		0.020	1		09/29/2015 16:10
t-Butyl alcohol (TBA)	ND		0.050	1		09/29/2015 16:10
n-Butyl benzene	ND		0.0050	1		09/29/2015 16:10
sec-Butyl benzene	ND		0.0050	1		09/29/2015 16:10
tert-Butyl benzene	ND		0.0050	1		09/29/2015 16:10
Carbon Disulfide	ND		0.0050	1		09/29/2015 16:10
Carbon Tetrachloride	ND		0.0050	1		09/29/2015 16:10
Chlorobenzene	ND		0.0050	1		09/29/2015 16:10
Chloroethane	ND		0.0050	1		09/29/2015 16:10
Chloroform	ND		0.0050	1		09/29/2015 16:10
Chloromethane	ND		0.0050	1		09/29/2015 16:10
2-Chlorotoluene	ND		0.0050	1		09/29/2015 16:10
4-Chlorotoluene	ND		0.0050	1		09/29/2015 16:10
Dibromochloromethane	ND		0.0050	1		09/29/2015 16:10
1,2-Dibromo-3-chloropropane	ND		0.0040	1		09/29/2015 16:10
1,2-Dibromoethane (EDB)	ND		0.0040	1		09/29/2015 16:10
Dibromomethane	ND		0.0050	1		09/29/2015 16:10
1,2-Dichlorobenzene	ND		0.0050	1		09/29/2015 16:10
1,3-Dichlorobenzene	ND		0.0050	1		09/29/2015 16:10
1,4-Dichlorobenzene	ND		0.0050	1		09/29/2015 16:10
Dichlorodifluoromethane	ND		0.0050	1		09/29/2015 16:10
1,1-Dichloroethane	ND		0.0050	1		09/29/2015 16:10
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1		09/29/2015 16:10
1,1-Dichloroethene	ND		0.0050	1		09/29/2015 16:10
cis-1,2-Dichloroethene	ND		0.0050	1		09/29/2015 16:10
trans-1,2-Dichloroethene	ND		0.0050	1		09/29/2015 16:10
1,2-Dichloropropane	ND		0.0050	1		09/29/2015 16:10
1,3-Dichloropropane	ND		0.0050	1		09/29/2015 16:10
2,2-Dichloropropane	ND		0.0050	1		09/29/2015 16:10
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**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

**WorkOrder:** 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID	Matrix	Date Co	llected Instrument	Batch ID
S-17-ECB2	1509A61-006A	Soil	09/24/201	5 10:05 GC18	110781
<u>Analytes</u>	Result		<u>RL</u>	DF	Date Analyzed
1,1-Dichloropropene	ND		0.0050	1	09/29/2015 16:10
cis-1,3-Dichloropropene	ND		0.0050	1	09/29/2015 16:10
trans-1,3-Dichloropropene	ND		0.0050	1	09/29/2015 16:10
Diisopropyl ether (DIPE)	ND		0.0050	1	09/29/2015 16:10
Ethylbenzene	ND		0.0050	1	09/29/2015 16:10
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	09/29/2015 16:10
Freon 113	ND		0.0050	1	09/29/2015 16:10
Hexachlorobutadiene	ND		0.0050	1	09/29/2015 16:10
Hexachloroethane	ND		0.0050	1	09/29/2015 16:10
2-Hexanone	ND		0.0050	1	09/29/2015 16:10
Isopropylbenzene	ND		0.0050	1	09/29/2015 16:10
4-Isopropyl toluene	ND		0.0050	1	09/29/2015 16:10
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	09/29/2015 16:10
Methylene chloride	ND		0.0050	1	09/29/2015 16:10
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	09/29/2015 16:10
Naphthalene	ND		0.0050	1	09/29/2015 16:10
n-Propyl benzene	ND		0.0050	1	09/29/2015 16:10
Styrene	ND		0.0050	1	09/29/2015 16:10
1,1,1,2-Tetrachloroethane	ND		0.0050	1	09/29/2015 16:10
1,1,2,2-Tetrachloroethane	ND		0.0050	1	09/29/2015 16:10
Tetrachloroethene	ND		0.0050	1	09/29/2015 16:10
Toluene	ND		0.0050	1	09/29/2015 16:10
1,2,3-Trichlorobenzene	ND		0.0050	1	09/29/2015 16:10
1,2,4-Trichlorobenzene	ND		0.0050	1	09/29/2015 16:10
1,1,1-Trichloroethane	ND		0.0050	1	09/29/2015 16:10
1,1,2-Trichloroethane	ND		0.0050	1	09/29/2015 16:10
Trichloroethene	ND		0.0050	1	09/29/2015 16:10
Trichlorofluoromethane	ND		0.0050	1	09/29/2015 16:10
1,2,3-Trichloropropane	ND		0.0050	1	09/29/2015 16:10
1,2,4-Trimethylbenzene	ND		0.0050	1	09/29/2015 16:10
1,3,5-Trimethylbenzene	ND		0.0050	1	09/29/2015 16:10
Vinyl Chloride	ND		0.0050	1	09/29/2015 16:10
Xylenes, Total	ND		0.0050	1	09/29/2015 16:10

## **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID
S-17-ECB2	1509A61-006A Soil	09/24/2015 10:05 GC18	110781
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
<u>Surrogates</u>	REC (%)	Limits	
Dibromofluoromethane	111	70-130	09/29/2015 16:10
Toluene-d8	87	70-130	09/29/2015 16:10
4-BFB	90	70-130	09/29/2015 16:10
Benzene-d6	126	60-140	09/29/2015 16:10
Ethylbenzene-d10	124	60-140	09/29/2015 16:10
1,2-DCB-d4	111	60-140	09/29/2015 16:10



**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**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	Date Coll	lected In	strument	Batch ID
S-19½-ECB2	1509A61-007A	Soil	09/24/2015	10:07 G	C18	110781
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
Acetone	ND		0.10	1		09/29/2015 20:47
tert-Amyl methyl ether (TAME)	ND		0.0050	1		09/29/2015 20:47
Benzene	ND		0.0050	1		09/29/2015 20:47
Bromobenzene	ND		0.0050	1		09/29/2015 20:47
Bromochloromethane	ND		0.0050	1		09/29/2015 20:47
Bromodichloromethane	ND		0.0050	1		09/29/2015 20:47
Bromoform	ND		0.0050	1		09/29/2015 20:47
Bromomethane	ND		0.0050	1		09/29/2015 20:47
2-Butanone (MEK)	ND		0.020	1		09/29/2015 20:47
t-Butyl alcohol (TBA)	ND		0.050	1		09/29/2015 20:47
n-Butyl benzene	ND		0.0050	1		09/29/2015 20:47
sec-Butyl benzene	ND		0.0050	1		09/29/2015 20:47
tert-Butyl benzene	ND		0.0050	1		09/29/2015 20:47
Carbon Disulfide	ND		0.0050	1		09/29/2015 20:47
Carbon Tetrachloride	ND		0.0050	1		09/29/2015 20:47
Chlorobenzene	ND		0.0050	1		09/29/2015 20:47
Chloroethane	ND		0.0050	1		09/29/2015 20:47
Chloroform	ND		0.0050	1		09/29/2015 20:47
Chloromethane	ND		0.0050	1		09/29/2015 20:47
2-Chlorotoluene	ND		0.0050	1		09/29/2015 20:47
4-Chlorotoluene	ND		0.0050	1		09/29/2015 20:47
Dibromochloromethane	ND		0.0050	1		09/29/2015 20:47
1,2-Dibromo-3-chloropropane	ND		0.0040	1		09/29/2015 20:47
1,2-Dibromoethane (EDB)	ND		0.0040	1		09/29/2015 20:47
Dibromomethane	ND		0.0050	1		09/29/2015 20:47
1,2-Dichlorobenzene	ND		0.0050	1		09/29/2015 20:47
1,3-Dichlorobenzene	ND		0.0050	1		09/29/2015 20:47
1,4-Dichlorobenzene	ND		0.0050	1		09/29/2015 20:47
Dichlorodifluoromethane	ND		0.0050	1		09/29/2015 20:47
1,1-Dichloroethane	ND		0.0050	1		09/29/2015 20:47
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1		09/29/2015 20:47
1,1-Dichloroethene	ND		0.0050	1		09/29/2015 20:47
cis-1,2-Dichloroethene	ND		0.0050	1		09/29/2015 20:47
trans-1,2-Dichloroethene	ND		0.0050	1		09/29/2015 20:47
1,2-Dichloropropane	ND		0.0050	1		09/29/2015 20:47
1,3-Dichloropropane	ND		0.0050	1		09/29/2015 20:47
2,2-Dichloropropane	ND		0.0050	1		09/29/2015 20:47
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## **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID	Matrix	Date Co	llected Instrume	nt Batch ID
S-19½-ECB2	1509A61-007A	Soil	09/24/201	5 10:07 GC18	110781
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
1,1-Dichloropropene	ND		0.0050	1	09/29/2015 20:47
cis-1,3-Dichloropropene	ND		0.0050	1	09/29/2015 20:47
trans-1,3-Dichloropropene	ND		0.0050	1	09/29/2015 20:47
Diisopropyl ether (DIPE)	ND		0.0050	1	09/29/2015 20:47
Ethylbenzene	ND		0.0050	1	09/29/2015 20:47
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	09/29/2015 20:47
Freon 113	ND		0.0050	1	09/29/2015 20:47
Hexachlorobutadiene	ND		0.0050	1	09/29/2015 20:47
Hexachloroethane	ND		0.0050	1	09/29/2015 20:47
2-Hexanone	ND		0.0050	1	09/29/2015 20:47
Isopropylbenzene	ND		0.0050	1	09/29/2015 20:47
4-Isopropyl toluene	ND		0.0050	1	09/29/2015 20:47
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	09/29/2015 20:47
Methylene chloride	ND		0.0050	1	09/29/2015 20:47
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	09/29/2015 20:47
Naphthalene	ND		0.0050	1	09/29/2015 20:47
n-Propyl benzene	ND		0.0050	1	09/29/2015 20:47
Styrene	ND		0.0050	1	09/29/2015 20:47
1,1,1,2-Tetrachloroethane	ND		0.0050	1	09/29/2015 20:47
1,1,2,2-Tetrachloroethane	ND		0.0050	1	09/29/2015 20:47
Tetrachloroethene	ND		0.0050	1	09/29/2015 20:47
Toluene	ND		0.0050	1	09/29/2015 20:47
1,2,3-Trichlorobenzene	ND		0.0050	1	09/29/2015 20:47
1,2,4-Trichlorobenzene	ND		0.0050	1	09/29/2015 20:47
1,1,1-Trichloroethane	ND		0.0050	1	09/29/2015 20:47
1,1,2-Trichloroethane	ND		0.0050	1	09/29/2015 20:47
Trichloroethene	ND		0.0050	1	09/29/2015 20:47
Trichlorofluoromethane	ND		0.0050	1	09/29/2015 20:47
1,2,3-Trichloropropane	ND		0.0050	1	09/29/2015 20:47
1,2,4-Trimethylbenzene	ND		0.0050	1	09/29/2015 20:47
1,3,5-Trimethylbenzene	ND		0.0050	1	09/29/2015 20:47
Vinyl Chloride	ND		0.0050	1	09/29/2015 20:47
Xylenes, Total	ND		0.0050	1	09/29/2015 20:47

## **Analytical Report**

**Client: Essel Environmental Consulting** 

**Date Prepared:** 9/28/15

**Date Received:** 9/25/15 19:30

**Project:** 15166; EBALDC WorkOrder: 1509A61

**Extraction Method: SW5030B** 

**Analytical Method: SW8260B** 

Unit: mg/kg

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID
S-191/2-ECB2	1509A61-007A Soil	09/24/2015 10:07 GC18	110781
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
<u>Surrogates</u>	REC (%)	<u>Limits</u>	
Dibromofluoromethane	104	70-130	09/29/2015 20:47
Toluene-d8	87	70-130	09/29/2015 20:47
4-BFB	89	70-130	09/29/2015 20:47
Benzene-d6	118	60-140	09/29/2015 20:47
Ethylbenzene-d10	120	60-140	09/29/2015 20:47
1,2-DCB-d4	100	60-140	09/29/2015 20:47



**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

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

Bromochloromethane         ND         0.0050         1         09/29/2015 22:24           Bromodichloromethane         ND         0.0050         1         09/29/2015 22:24           Bromoform         ND         0.0050         1         09/29/2015 22:24           Bromomethane         ND         0.0050         1         09/29/2015 22:24           2-Butanone (MEK)         ND         0.020         1         09/29/2015 22:24           1-Butyl alcohol (TBA)         ND         0.050         1         09/29/2015 22:24           8-Butyl benzene         ND         0.0050         1         09/29/2015 22:24           sec-Butyl benzene         ND         0.0050         1         09/29/2015 22:24           tetr-Butyl benzene         ND         0.0050         1         09/29/2015 22:24           Carbon Disulfide         ND         0.0050         1         09/29/2015 22:24           Carbon Tetrachloride         ND         0.0050         1         09/29/2015 22:24           Chlorobenzene         ND         0.0050         1         09/29/2015 22:24           Chlorothane         ND         0.0050         1         09/29/2015 22:24           Chlorothane         ND         0.0050         1 <th>Client ID</th> <th>Lab ID</th> <th>Matrix</th> <th>Date Coll</th> <th>lected</th> <th>Instrument</th> <th>Batch ID</th>	Client ID	Lab ID	Matrix	Date Coll	lected	Instrument	Batch ID
Acetone         ND         0.10         1         09/29/2015 22:24           tert-Amyl methyl ether (TAME)         ND         0.0050         1         09/29/2015 22:24           Bernacene         ND         0.0050         1         09/29/2015 22:24           Bromochoromethane         ND         0.0050         1         09/29/2015 22:24           Bromochioromethane         ND         0.0050         1         09/29/2015 22:24           Bromodinomomethane         ND         0.0050         1         09/29/2015 22:24           Butyl benzene         ND         0.0050 </th <th>S-4½-ECB3</th> <th>1509A61-008A</th> <th>Soil</th> <th>09/24/2015</th> <th>10:10</th> <th>GC16</th> <th>110781</th>	S-4½-ECB3	1509A61-008A	Soil	09/24/2015	10:10	GC16	110781
tert-Amyl methyl ether (TAME)         ND         0.0050         1         09/29/2015 22:24           Benzene         ND         0.0050         1         09/29/2015 22:24           Bromobenzene         ND         0.0050         1         09/29/2015 22:24           Bromochloromethane         ND         0.0050         1         09/29/2015 22:24           Bromochloromethane         ND         0.0050         1         09/29/2015 22:24           Bromoderim         ND         0.0050         1         09/29/2015 22:24           Bromoderim         ND         0.0050         1         09/29/2015 22:24           Bromoderimane         ND         0.0050         1         09/29/2015 22:24           Brotation Disurbide         ND         0.0050         1         09/29/2015 22:24           Bentyl benzene         ND         0.0050         1 <t< td=""><td><u>Analytes</u></td><td>Result</td><td></td><td><u>RL</u></td><td><u>DF</u></td><td></td><td>Date Analyzed</td></t<>	<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
Benzene         ND         0.0050         1         09/29/2015 22:24           Bromobenzene         ND         0.0050         1         09/29/2015 22:24           Bromochloromethane         ND         0.0050         1         09/29/2015 22:24           Bromochloromethane         ND         0.0050         1         09/29/2015 22:24           Bromordin         ND         0.0050         1         09/29/2015 22:24           Bromorethane         ND         0.0050         1         09/29/2015 22:24           Bromorethane         ND         0.0050         1         09/29/2015 22:24           Bromorethane         ND         0.0050         1         09/29/2015 22:24           Butyl alcohol (TBA)         ND         0.050         1         09/29/2015 22:24           Butyl benzene         ND         0.0050         1         09/29/2015 22:24           tert-Butyl benzene         ND         0.0050         1         <	Acetone	ND		0.10	1		09/29/2015 22:24
Bromobenzene         ND         0.0050         1         09/29/2015 22:24           Bromochloromethane         ND         0.0050         1         09/29/2015 22:24           Bromodichloromethane         ND         0.0050         1         09/29/2015 22:24           Bromodichloromethane         ND         0.0050         1         09/29/2015 22:24           Bromomethane         ND         0.0050         1         09/29/2015 22:24           Bromomethane         ND         0.0050         1         09/29/2015 22:24           Butanone (MEK)         ND         0.020         1         09/29/2015 22:24           Butyl benzene         ND         0.0050         1         09/29/2015 22:24           sec-Butyl benzene         ND         0.0050         1         09/29/2015 22:24           Garbon Disulfide         ND         0.0050         1         09/29/2015 22:24           Carbon Disulfide         ND         0.0050         1         09/29/2015 22:24           Carbon Tetrachloride         ND         0.0050         1         09/29/2015 22:24           Chloroethane         ND         0.0050         1         09/29/2015 22:24           Chloroethane         ND         0.0050         1	tert-Amyl methyl ether (TAME)	ND		0.0050	1		09/29/2015 22:24
Bromochloromethane         ND         0.0050         1         09/29/2015 22:24           Bromodichloromethane         ND         0.0050         1         09/29/2015 22:24           Bromoform         ND         0.0050         1         09/29/2015 22:24           Bromomethane         ND         0.0050         1         09/29/2015 22:24           2-Butanone (MEK)         ND         0.020         1         09/29/2015 22:24           1-Butyl alcohol (TBA)         ND         0.050         1         09/29/2015 22:24           n-Butyl benzene         ND         0.0050         1         09/29/2015 22:24           sec-Butyl benzene         ND         0.0050         1         09/29/2015 22:24           tert-Butyl benzene         ND         0.0050         1         09/29/2015 22:24           Carbon Disulfide         ND         0.0050         1         09/29/2015 22:24           Carbon Tetrachloride         ND         0.0050         1         09/29/2015 22:24           Chlorotenzene         ND         0.0050         1         09/29/2015 22:24           Chlorotentane         ND         0.0050         1         09/29/2015 22:24           Chlorotentane         ND         0.0050	Benzene	ND		0.0050	1		09/29/2015 22:24
Bromodichloromethane         ND         0.0050         1         09/29/2015 22:24           Bromoform         ND         0.0050         1         09/29/2015 22:24           Bromomethane         ND         0.0050         1         09/29/2015 22:24           Bromomethane         ND         0.0050         1         09/29/2015 22:24           t-Butyl alcohol (TBA)         ND         0.050         1         09/29/2015 22:24           t-Butyl benzene         ND         0.0050         1         09/29/2015 22:24           tert-Butyl benzene         ND         0.0050         1         09/29/2015 22:24           Carbon Disulfide         ND         0.0050         1         09/29/2015 22:24           Carbon Disulfide         ND         0.0050         1         09/29/2015 22:24           Carbon Tetrachloride         ND         0.0050         1         09/29/2015 22:24           Carbon Tetrachloride         ND         0.0050         1         09/29/2015 22:24           Chlorothane         ND         0.0050         1         09/29/2015 22:24           Chlorothane         ND         0.0050         1         09/29/2015 22:24           Chloromethane         ND         0.0050         1	Bromobenzene	ND		0.0050	1		09/29/2015 22:24
Bromoform         ND         0.0050         1         09/29/2015 22:24           Brommethane         ND         0.0050         1         09/29/2015 22:24           2-Butanone (MEK)         ND         0.020         1         09/29/2015 22:24           Habtyl doolo (TBA)         ND         0.050         1         09/29/2015 22:24           h-Butyl benzene         ND         0.0050         1         09/29/2015 22:24           sec-Butyl benzene         ND         0.0050         1         09/29/2015 22:24           tert-Butyl benzene         ND         0.0050         1         09/29/2015 22:24           Carbon Disulfide         ND         0.0050         1         09/29/2015 22:24           Chlorobenzene         ND         0.0050         1         09/29/2015 22:24           Chlorobenzene         ND         0.0050         1	Bromochloromethane	ND		0.0050	1		09/29/2015 22:24
Bromomethane   ND	Bromodichloromethane	ND		0.0050	1		09/29/2015 22:24
2-Butanone (MEK)         ND         0.020         1         09/29/2015 22:24           t-Butyl alcohol (TBA)         ND         0.050         1         09/29/2015 22:24           n-Butyl benzene         ND         0.0050         1         09/29/2015 22:24           sec-Butyl benzene         ND         0.0050         1         09/29/2015 22:24           tert-Butyl benzene         ND         0.0050         1         09/29/2015 22:24           Carbon Disulfide         ND         0.0050         1         09/29/2015 22:24           Carbon Tetrachloride         ND         0.0050         1         09/29/2015 22:24           Chlorobenzene         ND         0.0050         1         09/29/2015 22:24           Chlorothane         ND         0.0050         1         09/29/2015 22:24           Chlorothane         ND         0.0050         1         09/29/2015 22:24           Chlorothane         ND         0.0050         1         09/29/2015 22:24           Chlorotoluene         ND         0.0050         1         09/29/2015 22:24           Chlorotoluene         ND         0.0050         1         09/29/2015 22:24           Dibromochloromethane         ND         0.0050         1	Bromoform	ND		0.0050	1		09/29/2015 22:24
t-Butyl alcohol (TBA) ND 0.050 1 09/29/2015 22:24 sec-Butyl benzene ND 0.0050 1 09/29/2015 22:24 sec-Butyl benzene ND 0.0050 1 09/29/2015 22:24 sec-Butyl benzene ND 0.0050 1 09/29/2015 22:24 Carbon Disulfide ND 0.0050 1 09/29/2015 22:24 Carbon Disulfide ND 0.0050 1 09/29/2015 22:24 Carbon Tetrachloride ND 0.0050 1 09/29/2015 22:24 Carbon Tetrachloride ND 0.0050 1 09/29/2015 22:24 Chlorobenzene ND 0.0050 1 09/29/2015 22:24 Chlorobenzene ND 0.0050 1 09/29/2015 22:24 Chlorochtane ND 0.0050 1 09/29/2015 22:24 Chlorochtane ND 0.0050 1 09/29/2015 22:24 Chloromethane ND 0.0050 1 09/29/2015 22:24 Chlorochtane ND 0.0050 1 09/29/2015 22:24 1,2-Dibloromochtane (EDB) ND 0.0040 1 09/29/2015 22:24 1,2-Dibloromochtane (EDB) ND 0.0050 1 09/29/2015 22:24 1,2-Diblorochtane ND 0.0050 1 09/29/2015 22:24 1,2-Diblorochtane ND 0.0050 1 09/29/2015 22:24 1,2-Diblorochtane ND 0.0050 1 09/29/2015 22:24 1,3-Dichlorobenzene ND 0.0050 1 09/29/2015 22:24 1,3-Dichlorochtane ND 0.0050 1 09/29/2015 22:24 1,3-Dichlorochtane ND 0.0050 1 09/29/2015 22:24 1,3-Dichlorochtane ND 0.0050 1 09/29/2015 22:24 1,1-Dichlorochtane ND	Bromomethane	ND		0.0050	1		09/29/2015 22:24
n-Butyl benzene         ND         0.0050         1         09/29/2015 22:24           sec-Butyl benzene         ND         0.0050         1         09/29/2015 22:24           tert-Butyl benzene         ND         0.0050         1         09/29/2015 22:24           Carbon Disulfide         ND         0.0050         1         09/29/2015 22:24           Carbon Disulfide         ND         0.0050         1         09/29/2015 22:24           Carbon Tetrachloride         ND         0.0050         1         09/29/2015 22:24           Chlorobenzene         ND         0.0050         1         09/29/2015 22:24           Chloroftane         ND         0.0050         1         09/29/2015 22:24           Chlorofform         ND         0.0050         1         09/29/2015 22:24           Chloromethane         ND         0.0050         1         09/29/2015 22:24           4-Chlorotoluene         ND         0.0050         1	2-Butanone (MEK)	ND		0.020	1		09/29/2015 22:24
sec-Butyl benzene         ND         0.0050         1         09/29/2015 22:24           tert-Butyl benzene         ND         0.0050         1         09/29/2015 22:24           Carbon Disulfide         ND         0.0050         1         09/29/2015 22:24           Carbon Tetrachloride         ND         0.0050         1         09/29/2015 22:24           Chlorobenzene         ND         0.0050         1         09/29/2015 22:24           Chlorotethane         ND         0.0050         1         09/29/2015 22:24           Chloroform         ND         0.0050         1         09/29/2015 22:24           Chlorotethane         ND         0.0050         1         09/29/2015 22:24           Chlorotelluene         ND         0.0050         1         09/29/2015 22:24           4-Chlorotoluene         ND         0.0050         1         09/29/2015 22:24           1,2-Dibromoethane         ND         0.0050         1	t-Butyl alcohol (TBA)	ND		0.050	1		09/29/2015 22:24
tert-Butyl benzene         ND         0.0050         1         09/29/2015 22:24           Carbon Disulfide         ND         0.0050         1         09/29/2015 22:24           Carbon Tetrachloride         ND         0.0050         1         09/29/2015 22:24           Chlorobenzene         ND         0.0050         1         09/29/2015 22:24           Chlorosthane         ND         0.0050         1         09/29/2015 22:24           Chloroform         ND         0.0050         1         09/29/2015 22:24           Chloroform         ND         0.0050         1         09/29/2015 22:24           Chlorotoluene         ND         0.0050         1         09/29/2015 22:24           4-Chlorotoluene         ND         0.0050         1         09/29/2015 22:24           1,2-Dibromoethane         ND         0.0050         1	n-Butyl benzene	ND		0.0050	1		09/29/2015 22:24
Carbon Disulfide         ND         0.0050         1         09/29/2015 22:24           Carbon Tetrachloride         ND         0.0050         1         09/29/2015 22:24           Chlorobenzene         ND         0.0050         1         09/29/2015 22:24           Chloroethane         ND         0.0050         1         09/29/2015 22:24           Chloroform         ND         0.0050         1         09/29/2015 22:24           Chlorotofume         ND         0.0050         1         09/29/2015 22:24           2-Chlorotoluene         ND         0.0050         1         09/29/2015 22:24           4-Chlorotoluene         ND         0.0050         1         09/29/2015 22:24           1,2-Dibromoethane         ND         0.0050         1         09/29/2015 22:24           1,2-Dibromoethane         ND         0.0050         1	sec-Butyl benzene	ND		0.0050	1		09/29/2015 22:24
Carbon Tetrachloride         ND         0.0050         1         09/29/2015 22:24           Chlorobenzene         ND         0.0050         1         09/29/2015 22:24           Chloroethane         ND         0.0050         1         09/29/2015 22:24           Chloroform         ND         0.0050         1         09/29/2015 22:24           Chloromethane         ND         0.0050         1         09/29/2015 22:24           4-Chlorotoluene         ND         0.0050         1         09/29/2015 22:24           1,2-Dibromorethane         ND         0.0050         1         09/29/2015 22:24           1,2-Dibromorethane (EDB)         ND         0.0040         1         09/29/2015 22:24           1,2-Dichlorobenzene         ND         0.0050         1         09/29/2015 22:24           1,3-Dichlorobenzene         ND         0.0050	tert-Butyl benzene	ND		0.0050	1		09/29/2015 22:24
Chlorobenzene         ND         0.0050         1         09/29/2015 22:24           Chloroethane         ND         0.0050         1         09/29/2015 22:24           Chloroform         ND         0.0050         1         09/29/2015 22:24           Chloromethane         ND         0.0050         1         09/29/2015 22:24           2-Chlorotoluene         ND         0.0050         1         09/29/2015 22:24           4-Chlorotoluene         ND         0.0050         1         09/29/2015 22:24           1/2-Dibromo-3-chloropropane         ND         0.0040         1         09/29/2015 22:24           1/2-Dibromo-3-chloropropane         ND         0.0040         1         09/29/2015 22:24           1,2-Dibromo-3-chloropropane         ND         0.0050         1         09/29/2015 22:24           1,2-Dichlorobenzene         ND         0.005	Carbon Disulfide	ND		0.0050	1		09/29/2015 22:24
Chloroethane         ND         0.0050         1         09/29/2015 22:24           Chloroform         ND         0.0050         1         09/29/2015 22:24           Chloromethane         ND         0.0050         1         09/29/2015 22:24           2-Chlorotoluene         ND         0.0050         1         09/29/2015 22:24           4-Chlorotoluene         ND         0.0050         1         09/29/2015 22:24           4-Chlorotoluene         ND         0.0050         1         09/29/2015 22:24           Dibromochloromethane         ND         0.0050         1         09/29/2015 22:24           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/29/2015 22:24           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/29/2015 22:24           1,2-Dibromoethane (EDB)         ND         0.0050         1         09/29/2015 22:24           1,2-Dichlorobenzene         ND         0.0050         1         09/29/2015 22:24           1,2-Dichlorobenzene         ND         0.0050         1         09/29/2015 22:24           1,4-Dichloroethane         ND         0.0050         1         09/29/2015 22:24           1,1-Dichloroethane         ND	Carbon Tetrachloride	ND		0.0050	1		09/29/2015 22:24
Chloroform         ND         0.0050         1         09/29/2015 22:24           Chloromethane         ND         0.0050         1         09/29/2015 22:24           2-Chlorotoluene         ND         0.0050         1         09/29/2015 22:24           4-Chlorotoluene         ND         0.0050         1         09/29/2015 22:24           4-Chlorotoluene         ND         0.0050         1         09/29/2015 22:24           1,2-Dibromochloromethane         ND         0.0050         1         09/29/2015 22:24           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/29/2015 22:24           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/29/2015 22:24           1,2-Dichlorobenzene         ND         0.0050         1         09/29/2015 22:24           1,2-Dichlorobenzene         ND         0.0050         1         09/29/2015 22:24           1,3-Dichlorobenzene         ND         0.0050         1         09/29/2015 22:24           1,4-Dichlorodifluoromethane         ND         0.0050         1         09/29/2015 22:24           1,1-Dichlorodthane         ND         0.0050         1         09/29/2015 22:24           1,2-Dichlorotethane	Chlorobenzene	ND		0.0050	1		09/29/2015 22:24
Chloromethane         ND         0.0050         1         09/29/2015 22:24           2-Chlorotoluene         ND         0.0050         1         09/29/2015 22:24           4-Chlorotoluene         ND         0.0050         1         09/29/2015 22:24           4-Chlorotoluene         ND         0.0050         1         09/29/2015 22:24           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/29/2015 22:24           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/29/2015 22:24           1,2-Dibromoethane (EDB)         ND         0.0050         1         09/29/2015 22:24           1,2-Dichlorobenzene         ND         0.0050         1         09/29/2015 22:24           1,3-Dichlorobenzene         ND         0.0050         1         09/29/2015 22:24           1,4-Dichlorobenzene         ND         0.0050         1         09/29/2015 22:24           1,1-Dichlorobenzene         ND         0.0050         1         09/29/2015 22:24           1,1-Dichloroethane         ND         0.0050         1         09/29/2015 22:24           1,2-Dichloroethane         ND         0.0050         1         09/29/2015 22:24           1,1-Dichloroethene         ND	Chloroethane	ND		0.0050	1		09/29/2015 22:24
2-Chlorotoluene         ND         0.0050         1         09/29/2015 22:24           4-Chlorotoluene         ND         0.0050         1         09/29/2015 22:24           Dibromochloromethane         ND         0.0050         1         09/29/2015 22:24           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/29/2015 22:24           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/29/2015 22:24           1,2-Dibrlomoethane         ND         0.0050         1         09/29/2015 22:24           1,2-Dichlorobenzene         ND         0.0050         1         09/29/2015 22:24           1,3-Dichlorobenzene         ND         0.0050         1         09/29/2015 22:24           1,4-Dichlorobenzene         ND         0.0050         1         09/29/2015 22:24           1,4-Dichlorobenzene         ND         0.0050         1         09/29/2015 22:24           1,1-Dichloroethane         ND         0.0050         1         09/29/2015 22:24           1,2-Dichloroethane         ND         0.0050         1         09/29/2015 22:24           1,1-Dichloroethane         ND         0.0050         1         09/29/2015 22:24           1,1-Dichloroethene         <	Chloroform	ND		0.0050	1		09/29/2015 22:24
4-Chlorotoluene         ND         0.0050         1         09/29/2015 22:24           Dibromochloromethane         ND         0.0050         1         09/29/2015 22:24           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/29/2015 22:24           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/29/2015 22:24           Dibromomethane         ND         0.0050         1         09/29/2015 22:24           1,2-Dichlorobenzene         ND         0.0050         1         09/29/2015 22:24           1,3-Dichlorobenzene         ND         0.0050         1         09/29/2015 22:24           1,4-Dichlorobenzene         ND         0.0050         1         09/29/2015 22:24           1,1-Dichloroethane         ND         0.0050         1         09/29/2015 22:24           1,1-Dichloroethane         ND         0.0050         1         09/29/2015 22:24           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/29/2015 22:24           1,1-Dichloroethene         ND         0.0050         1         09/29/2015 22:24           trans-1,2-Dichloroethene         ND         0.0050         1         09/29/2015 22:24           trans-1,2-Dichloroe	Chloromethane	ND		0.0050	1		09/29/2015 22:24
Dibromochloromethane         ND         0.0050         1         09/29/2015 22:24           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/29/2015 22:24           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/29/2015 22:24           1,2-Dibromomethane         ND         0.0050         1         09/29/2015 22:24           1,2-Dichlorobenzene         ND         0.0050         1         09/29/2015 22:24           1,3-Dichlorobenzene         ND         0.0050         1         09/29/2015 22:24           1,4-Dichlorobenzene         ND         0.0050         1         09/29/2015 22:24           1,1-Dichloroethane         ND         0.0050         1         09/29/2015 22:24           1,2-Dichloroethane (1,2-DCA)         ND         0.0050         1         09/29/2015 22:24           1,1-Dichloroethene         ND         0.0050         1         09/29/2015 22:24           1,1-Dichloroethene         ND         0.0050         1         09/29/2015 22:24           1,2-Dichloroethene         ND         0.0050         1         09/29/2015 22:24           trans-1,2-Dichloroethene         ND         0.0050         1         09/29/2015 22:24           1,2-Dichloro	2-Chlorotoluene	ND		0.0050	1		09/29/2015 22:24
1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/29/2015 22:24           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/29/2015 22:24           1,2-Dibromomethane         ND         0.0050         1         09/29/2015 22:24           1,2-Dichlorobenzene         ND         0.0050         1         09/29/2015 22:24           1,3-Dichlorobenzene         ND         0.0050         1         09/29/2015 22:24           1,4-Dichlorobenzene         ND         0.0050         1         09/29/2015 22:24           1,1-Dichloroethane         ND         0.0050         1         09/29/2015 22:24           1,2-Dichloroethane         ND         0.0050         1         09/29/2015 22:24           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/29/2015 22:24           1,1-Dichloroethene         ND         0.0050         1         09/29/2015 22:24           1,2-Dichloroethene         ND         0.0050         1         09/29/2015 22:24           1,2-Dichloroethene         ND         0.0050         1         09/29/2015 22:24           1,2-Dichloropropane         ND         0.0050         1         09/29/2015 22:24           1,3-Dichloropropane	4-Chlorotoluene	ND		0.0050	1		09/29/2015 22:24
1,2-Dibromoethane (EDB)         ND         0.0040         1         09/29/2015 22:24           Dibromomethane         ND         0.0050         1         09/29/2015 22:24           1,2-Dichlorobenzene         ND         0.0050         1         09/29/2015 22:24           1,3-Dichlorobenzene         ND         0.0050         1         09/29/2015 22:24           1,4-Dichlorobenzene         ND         0.0050         1         09/29/2015 22:24           Dichlorodifluoromethane         ND         0.0050         1         09/29/2015 22:24           1,1-Dichloroethane         ND         0.0050         1         09/29/2015 22:24           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/29/2015 22:24           1,1-Dichloroethene         ND         0.0050         1         09/29/2015 22:24           cis-1,2-Dichloroethene         ND         0.0050         1         09/29/2015 22:24           trans-1,2-Dichloroethene         ND         0.0050         1         09/29/2015 22:24           1,2-Dichloropropane         ND         0.0050         1         09/29/2015 22:24           1,3-Dichloropropane         ND         0.0050         1         09/29/2015 22:24	Dibromochloromethane	ND		0.0050	1		09/29/2015 22:24
Dibromomethane         ND         0.0050         1         09/29/2015 22:24           1,2-Dichlorobenzene         ND         0.0050         1         09/29/2015 22:24           1,3-Dichlorobenzene         ND         0.0050         1         09/29/2015 22:24           1,4-Dichlorobenzene         ND         0.0050         1         09/29/2015 22:24           Dichlorodifluoromethane         ND         0.0050         1         09/29/2015 22:24           1,1-Dichloroethane         ND         0.0050         1         09/29/2015 22:24           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/29/2015 22:24           1,1-Dichloroethene         ND         0.0050         1         09/29/2015 22:24           cis-1,2-Dichloroethene         ND         0.0050         1         09/29/2015 22:24           trans-1,2-Dichloroethene         ND         0.0050         1         09/29/2015 22:24           1,2-Dichloropropane         ND         0.0050         1         09/29/2015 22:24           1,3-Dichloropropane         ND         0.0050         1         09/29/2015 22:24           1,3-Dichloropropane         ND         0.0050         1         09/29/2015 22:24	1,2-Dibromo-3-chloropropane	ND		0.0040	1		09/29/2015 22:24
1,2-Dichlorobenzene       ND       0.0050       1       09/29/2015 22:24         1,3-Dichlorobenzene       ND       0.0050       1       09/29/2015 22:24         1,4-Dichlorobenzene       ND       0.0050       1       09/29/2015 22:24         Dichlorodifluoromethane       ND       0.0050       1       09/29/2015 22:24         1,1-Dichloroethane       ND       0.0050       1       09/29/2015 22:24         1,2-Dichloroethane (1,2-DCA)       ND       0.0040       1       09/29/2015 22:24         1,1-Dichloroethene       ND       0.0050       1       09/29/2015 22:24         cis-1,2-Dichloroethene       ND       0.0050       1       09/29/2015 22:24         trans-1,2-Dichloroethene       ND       0.0050       1       09/29/2015 22:24         1,2-Dichloropropane       ND       0.0050       1       09/29/2015 22:24         1,3-Dichloropropane       ND       0.0050       1       09/29/2015 22:24	1,2-Dibromoethane (EDB)	ND		0.0040	1		09/29/2015 22:24
1,3-Dichlorobenzene       ND       0.0050       1       09/29/2015 22:24         1,4-Dichlorobenzene       ND       0.0050       1       09/29/2015 22:24         Dichlorodifluoromethane       ND       0.0050       1       09/29/2015 22:24         1,1-Dichloroethane       ND       0.0050       1       09/29/2015 22:24         1,2-Dichloroethane (1,2-DCA)       ND       0.0040       1       09/29/2015 22:24         1,1-Dichloroethene       ND       0.0050       1       09/29/2015 22:24         cis-1,2-Dichloroethene       ND       0.0050       1       09/29/2015 22:24         trans-1,2-Dichloroethene       ND       0.0050       1       09/29/2015 22:24         1,2-Dichloropropane       ND       0.0050       1       09/29/2015 22:24         1,3-Dichloropropane       ND       0.0050       1       09/29/2015 22:24	Dibromomethane	ND		0.0050	1		09/29/2015 22:24
1,4-Dichlorobenzene         ND         0.0050         1         09/29/2015 22:24           Dichlorodifluoromethane         ND         0.0050         1         09/29/2015 22:24           1,1-Dichloroethane         ND         0.0050         1         09/29/2015 22:24           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/29/2015 22:24           1,1-Dichloroethene         ND         0.0050         1         09/29/2015 22:24           cis-1,2-Dichloroethene         ND         0.0050         1         09/29/2015 22:24           trans-1,2-Dichloroethene         ND         0.0050         1         09/29/2015 22:24           1,2-Dichloropropane         ND         0.0050         1         09/29/2015 22:24           1,3-Dichloropropane         ND         0.0050         1         09/29/2015 22:24	1,2-Dichlorobenzene	ND		0.0050	1		09/29/2015 22:24
Dichlorodifluoromethane         ND         0.0050         1         09/29/2015 22:24           1,1-Dichloroethane         ND         0.0050         1         09/29/2015 22:24           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/29/2015 22:24           1,1-Dichloroethane         ND         0.0050         1         09/29/2015 22:24           cis-1,2-Dichloroethane         ND         0.0050         1         09/29/2015 22:24           trans-1,2-Dichloroethane         ND         0.0050         1         09/29/2015 22:24           1,2-Dichloropropane         ND         0.0050         1         09/29/2015 22:24           1,3-Dichloropropane         ND         0.0050         1         09/29/2015 22:24	1,3-Dichlorobenzene	ND		0.0050	1		09/29/2015 22:24
1,1-Dichloroethane       ND       0.0050       1       09/29/2015 22:24         1,2-Dichloroethane (1,2-DCA)       ND       0.0040       1       09/29/2015 22:24         1,1-Dichloroethene       ND       0.0050       1       09/29/2015 22:24         cis-1,2-Dichloroethene       ND       0.0050       1       09/29/2015 22:24         trans-1,2-Dichloroethene       ND       0.0050       1       09/29/2015 22:24         1,2-Dichloropropane       ND       0.0050       1       09/29/2015 22:24         1,3-Dichloropropane       ND       0.0050       1       09/29/2015 22:24	1,4-Dichlorobenzene	ND		0.0050	1		09/29/2015 22:24
1,2-Dichloroethane (1,2-DCA)       ND       0.0040       1       09/29/2015 22:24         1,1-Dichloroethene       ND       0.0050       1       09/29/2015 22:24         cis-1,2-Dichloroethene       ND       0.0050       1       09/29/2015 22:24         trans-1,2-Dichloroethene       ND       0.0050       1       09/29/2015 22:24         1,2-Dichloropropane       ND       0.0050       1       09/29/2015 22:24         1,3-Dichloropropane       ND       0.0050       1       09/29/2015 22:24	Dichlorodifluoromethane	ND		0.0050	1		09/29/2015 22:24
1,1-Dichloroethene         ND         0.0050         1         09/29/2015 22:24           cis-1,2-Dichloroethene         ND         0.0050         1         09/29/2015 22:24           trans-1,2-Dichloroethene         ND         0.0050         1         09/29/2015 22:24           1,2-Dichloropropane         ND         0.0050         1         09/29/2015 22:24           1,3-Dichloropropane         ND         0.0050         1         09/29/2015 22:24	1,1-Dichloroethane	ND		0.0050	1		09/29/2015 22:24
cis-1,2-Dichloroethene         ND         0.0050         1         09/29/2015 22:24           trans-1,2-Dichloroethene         ND         0.0050         1         09/29/2015 22:24           1,2-Dichloropropane         ND         0.0050         1         09/29/2015 22:24           1,3-Dichloropropane         ND         0.0050         1         09/29/2015 22:24	1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1		09/29/2015 22:24
trans-1,2-Dichloroethene         ND         0.0050         1         09/29/2015 22:24           1,2-Dichloropropane         ND         0.0050         1         09/29/2015 22:24           1,3-Dichloropropane         ND         0.0050         1         09/29/2015 22:24	1,1-Dichloroethene	ND		0.0050	1		09/29/2015 22:24
1,2-Dichloropropane         ND         0.0050         1         09/29/2015 22:24           1,3-Dichloropropane         ND         0.0050         1         09/29/2015 22:24	cis-1,2-Dichloroethene	ND		0.0050	1		09/29/2015 22:24
1,3-Dichloropropane ND 0.0050 1 09/29/2015 22:24	trans-1,2-Dichloroethene	ND		0.0050	1		09/29/2015 22:24
·	1,2-Dichloropropane	ND		0.0050	1		09/29/2015 22:24
2,2-Dichloropropane ND 0.0050 1 09/29/2015 22:24	1,3-Dichloropropane	ND		0.0050	1		09/29/2015 22:24
	2,2-Dichloropropane	ND		0.0050	1		09/29/2015 22:24

(Cont.)

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

**WorkOrder:** 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID	Matrix	Date Co	llected Instrum	ent Batch ID
S-41/2-ECB3	1509A61-008A	Soil	09/24/201	5 10:10 GC16	110781
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
1,1-Dichloropropene	ND		0.0050	1	09/29/2015 22:24
cis-1,3-Dichloropropene	ND		0.0050	1	09/29/2015 22:24
trans-1,3-Dichloropropene	ND		0.0050	1	09/29/2015 22:24
Diisopropyl ether (DIPE)	ND		0.0050	1	09/29/2015 22:24
Ethylbenzene	ND		0.0050	1	09/29/2015 22:24
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	09/29/2015 22:24
Freon 113	ND		0.0050	1	09/29/2015 22:24
Hexachlorobutadiene	ND		0.0050	1	09/29/2015 22:24
Hexachloroethane	ND		0.0050	1	09/29/2015 22:24
2-Hexanone	ND		0.0050	1	09/29/2015 22:24
Isopropylbenzene	ND		0.0050	1	09/29/2015 22:24
4-Isopropyl toluene	ND		0.0050	1	09/29/2015 22:24
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	09/29/2015 22:24
Methylene chloride	ND		0.0050	1	09/29/2015 22:24
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	09/29/2015 22:24
Naphthalene	ND		0.0050	1	09/29/2015 22:24
n-Propyl benzene	ND		0.0050	1	09/29/2015 22:24
Styrene	ND		0.0050	1	09/29/2015 22:24
1,1,1,2-Tetrachloroethane	ND		0.0050	1	09/29/2015 22:24
1,1,2,2-Tetrachloroethane	ND		0.0050	1	09/29/2015 22:24
Tetrachloroethene	ND		0.0050	1	09/29/2015 22:24
Toluene	ND		0.0050	1	09/29/2015 22:24
1,2,3-Trichlorobenzene	ND		0.0050	1	09/29/2015 22:24
1,2,4-Trichlorobenzene	ND		0.0050	1	09/29/2015 22:24
1,1,1-Trichloroethane	ND		0.0050	1	09/29/2015 22:24
1,1,2-Trichloroethane	ND		0.0050	1	09/29/2015 22:24
Trichloroethene	ND		0.0050	1	09/29/2015 22:24
Trichlorofluoromethane	ND		0.0050	1	09/29/2015 22:24
1,2,3-Trichloropropane	ND		0.0050	1	09/29/2015 22:24
1,2,4-Trimethylbenzene	ND		0.0050	1	09/29/2015 22:24
1,3,5-Trimethylbenzene	ND		0.0050	1	09/29/2015 22:24
Vinyl Chloride	ND		0.0050	1	09/29/2015 22:24
Xylenes, Total	ND		0.0050	1	09/29/2015 22:24

## **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method: SW5030B** 

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch II
S-4½-ECB3	1509A61-008A Soil	09/24/2015 10:10 GC16	110781
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
<u>Surrogates</u>	REC (%)	<u>Limits</u>	
Dibromofluoromethane	93	70-130	09/29/2015 22:24
Toluene-d8	100	70-130	09/29/2015 22:24
4-BFB	101	70-130	09/29/2015 22:24
Benzene-d6	100	60-140	09/29/2015 22:24
Ethylbenzene-d10	116	60-140	09/29/2015 22:24
1,2-DCB-d4	78	60-140	09/29/2015 22:24



**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**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	Date Col	llected Instrument	Batch ID
S-9½-ECB3	1509A61-009A	Soil	09/24/201	5 10:35 GC18	110781
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	Date Analyzed
Acetone	ND		0.10	1	09/29/2015 20:08
tert-Amyl methyl ether (TAME)	ND		0.0050	1	09/29/2015 20:08
Benzene	ND		0.0050	1	09/29/2015 20:08
Bromobenzene	ND		0.0050	1	09/29/2015 20:08
Bromochloromethane	ND		0.0050	1	09/29/2015 20:08
Bromodichloromethane	ND		0.0050	1	09/29/2015 20:08
Bromoform	ND		0.0050	1	09/29/2015 20:08
Bromomethane	ND		0.0050	1	09/29/2015 20:08
2-Butanone (MEK)	ND		0.020	1	09/29/2015 20:08
t-Butyl alcohol (TBA)	ND		0.050	1	09/29/2015 20:08
n-Butyl benzene	ND		0.0050	1	09/29/2015 20:08
sec-Butyl benzene	ND		0.0050	1	09/29/2015 20:08
tert-Butyl benzene	ND		0.0050	1	09/29/2015 20:08
Carbon Disulfide	ND		0.0050	1	09/29/2015 20:08
Carbon Tetrachloride	ND		0.0050	1	09/29/2015 20:08
Chlorobenzene	ND		0.0050	1	09/29/2015 20:08
Chloroethane	ND		0.0050	1	09/29/2015 20:08
Chloroform	ND		0.0050	1	09/29/2015 20:08
Chloromethane	ND		0.0050	1	09/29/2015 20:08
2-Chlorotoluene	ND		0.0050	1	09/29/2015 20:08
4-Chlorotoluene	ND		0.0050	1	09/29/2015 20:08
Dibromochloromethane	ND		0.0050	1	09/29/2015 20:08
1,2-Dibromo-3-chloropropane	ND		0.0040	1	09/29/2015 20:08
1,2-Dibromoethane (EDB)	ND		0.0040	1	09/29/2015 20:08
Dibromomethane	ND		0.0050	1	09/29/2015 20:08
1,2-Dichlorobenzene	ND		0.0050	1	09/29/2015 20:08
1,3-Dichlorobenzene	ND		0.0050	1	09/29/2015 20:08
1,4-Dichlorobenzene	ND		0.0050	1	09/29/2015 20:08
Dichlorodifluoromethane	ND		0.0050	1	09/29/2015 20:08
1,1-Dichloroethane	ND		0.0050	1	09/29/2015 20:08
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	09/29/2015 20:08
1,1-Dichloroethene	ND		0.0050	1	09/29/2015 20:08
cis-1,2-Dichloroethene	ND		0.0050	1	09/29/2015 20:08
trans-1,2-Dichloroethene	ND		0.0050	1	09/29/2015 20:08
1,2-Dichloropropane	ND		0.0050	1	09/29/2015 20:08
1,3-Dichloropropane	ND		0.0050	1	09/29/2015 20:08
2,2-Dichloropropane	ND		0.0050	1	09/29/2015 20:08

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**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID	Matrix	Date Co	llected Instrument	Batch ID
S-91/2-ECB3	1509A61-009A	Soil	09/24/201	5 10:35 GC18	110781
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
1,1-Dichloropropene	ND		0.0050	1	09/29/2015 20:08
cis-1,3-Dichloropropene	ND		0.0050	1	09/29/2015 20:08
trans-1,3-Dichloropropene	ND		0.0050	1	09/29/2015 20:08
Diisopropyl ether (DIPE)	ND		0.0050	1	09/29/2015 20:08
Ethylbenzene	ND		0.0050	1	09/29/2015 20:08
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	09/29/2015 20:08
Freon 113	ND		0.0050	1	09/29/2015 20:08
Hexachlorobutadiene	ND		0.0050	1	09/29/2015 20:08
Hexachloroethane	ND		0.0050	1	09/29/2015 20:08
2-Hexanone	ND		0.0050	1	09/29/2015 20:08
Isopropylbenzene	ND		0.0050	1	09/29/2015 20:08
4-Isopropyl toluene	ND		0.0050	1	09/29/2015 20:08
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	09/29/2015 20:08
Methylene chloride	ND		0.0050	1	09/29/2015 20:08
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	09/29/2015 20:08
Naphthalene	ND		0.0050	1	09/29/2015 20:08
n-Propyl benzene	ND		0.0050	1	09/29/2015 20:08
Styrene	ND		0.0050	1	09/29/2015 20:08
1,1,1,2-Tetrachloroethane	ND		0.0050	1	09/29/2015 20:08
1,1,2,2-Tetrachloroethane	ND		0.0050	1	09/29/2015 20:08
Tetrachloroethene	ND		0.0050	1	09/29/2015 20:08
Toluene	ND		0.0050	1	09/29/2015 20:08
1,2,3-Trichlorobenzene	ND		0.0050	1	09/29/2015 20:08
1,2,4-Trichlorobenzene	ND		0.0050	1	09/29/2015 20:08
1,1,1-Trichloroethane	ND		0.0050	1	09/29/2015 20:08
1,1,2-Trichloroethane	ND		0.0050	1	09/29/2015 20:08
Trichloroethene	ND		0.0050	1	09/29/2015 20:08
Trichlorofluoromethane	ND		0.0050	1	09/29/2015 20:08
1,2,3-Trichloropropane	ND		0.0050	1	09/29/2015 20:08
1,2,4-Trimethylbenzene	ND		0.0050	1	09/29/2015 20:08
1,3,5-Trimethylbenzene	ND		0.0050	1	09/29/2015 20:08
Vinyl Chloride	ND		0.0050	1	09/29/2015 20:08
Xylenes, Total	ND		0.0050	1	09/29/2015 20:08

## **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method: SW5030B** 

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID S-9½-ECB3	Lab ID Matrix	Date Collected Instrument	Batch ID
	1509A61-009A Soil	09/24/2015 10:35 GC18	110781
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
Dibromofluoromethane	103	70-130	09/29/2015 20:08
Toluene-d8	86	70-130	09/29/2015 20:08
4-BFB	88	70-130	09/29/2015 20:08
Benzene-d6	124	60-140	09/29/2015 20:08
Ethylbenzene-d10	125	60-140	09/29/2015 20:08
1,2-DCB-d4	106	60-140	09/29/2015 20:08

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**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 Soil	<b>Date Collected</b>		Instrument	Batch ID
S-151/2-ECB3	1509A61-010A		09/24/20	15 10:57	GC16	110781
<u>Analytes</u>	Result		<u>RL</u>	DF		Date Analyzed
Acetone	ND		4.0	40		10/01/2015 16:23
tert-Amyl methyl ether (TAME)	ND		0.20	40		10/01/2015 16:23
Benzene	ND		0.20	40		10/01/2015 16:23
Bromobenzene	ND		0.20	40		10/01/2015 16:23
Bromochloromethane	ND		0.20	40		10/01/2015 16:23
Bromodichloromethane	ND		0.20	40		10/01/2015 16:23
Bromoform	ND		0.20	40		10/01/2015 16:23
Bromomethane	ND		0.20	40		10/01/2015 16:23
2-Butanone (MEK)	ND		0.80	40		10/01/2015 16:23
t-Butyl alcohol (TBA)	ND		2.0	40		10/01/2015 16:23
n-Butyl benzene	ND		0.20	40		10/01/2015 16:23
sec-Butyl benzene	ND		0.20	40		10/01/2015 16:23
tert-Butyl benzene	ND		0.20	40		10/01/2015 16:23
Carbon Disulfide	ND		0.20	40		10/01/2015 16:23
Carbon Tetrachloride	ND		0.20	40		10/01/2015 16:23
Chlorobenzene	ND		0.20	40		10/01/2015 16:23
Chloroethane	ND		0.20	40		10/01/2015 16:23
Chloroform	ND		0.20	40		10/01/2015 16:23
Chloromethane	ND		0.20	40		10/01/2015 16:23
2-Chlorotoluene	ND		0.20	40		10/01/2015 16:23
4-Chlorotoluene	ND		0.20	40		10/01/2015 16:23
Dibromochloromethane	ND		0.20	40		10/01/2015 16:23
1,2-Dibromo-3-chloropropane	ND		0.16	40		10/01/2015 16:23
1,2-Dibromoethane (EDB)	ND		0.16	40		10/01/2015 16:23
Dibromomethane	ND		0.20	40		10/01/2015 16:23
1,2-Dichlorobenzene	ND		0.20	40		10/01/2015 16:23
1,3-Dichlorobenzene	ND		0.20	40		10/01/2015 16:23
1,4-Dichlorobenzene	ND		0.20	40		10/01/2015 16:23
Dichlorodifluoromethane	ND		0.20	40		10/01/2015 16:23
1,1-Dichloroethane	ND		0.20	40		10/01/2015 16:23
1,2-Dichloroethane (1,2-DCA)	ND		0.16	40		10/01/2015 16:23
1,1-Dichloroethene	ND		0.20	40		10/01/2015 16:23
cis-1,2-Dichloroethene	ND		0.20	40		10/01/2015 16:23
trans-1,2-Dichloroethene	ND		0.20	40		10/01/2015 16:23
1,2-Dichloropropane	ND		0.20	40		10/01/2015 16:23
1,3-Dichloropropane	ND		0.20	40		10/01/2015 16:23
2,2-Dichloropropane	ND		0.20	40		10/01/2015 16:23

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# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

**WorkOrder:** 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID	Matrix	Date Co	ollected Instrume	nt Batch ID
S-15½-ECB3	1509A61-010A	Soil	09/24/20	15 10:57 GC16	110781
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
1,1-Dichloropropene	ND		0.20	40	10/01/2015 16:23
cis-1,3-Dichloropropene	ND		0.20	40	10/01/2015 16:23
trans-1,3-Dichloropropene	ND		0.20	40	10/01/2015 16:23
Diisopropyl ether (DIPE)	ND		0.20	40	10/01/2015 16:23
Ethylbenzene	ND		0.20	40	10/01/2015 16:23
Ethyl tert-butyl ether (ETBE)	ND		0.20	40	10/01/2015 16:23
Freon 113	ND		0.20	40	10/01/2015 16:23
Hexachlorobutadiene	ND		0.20	40	10/01/2015 16:23
Hexachloroethane	ND		0.20	40	10/01/2015 16:23
2-Hexanone	ND		0.20	40	10/01/2015 16:23
Isopropylbenzene	ND		0.20	40	10/01/2015 16:23
4-Isopropyl toluene	ND		0.20	40	10/01/2015 16:23
Methyl-t-butyl ether (MTBE)	ND		0.20	40	10/01/2015 16:23
Methylene chloride	ND		0.20	40	10/01/2015 16:23
4-Methyl-2-pentanone (MIBK)	ND		0.20	40	10/01/2015 16:23
Naphthalene	ND		0.20	40	10/01/2015 16:23
n-Propyl benzene	ND		0.20	40	10/01/2015 16:23
Styrene	ND		0.20	40	10/01/2015 16:23
1,1,1,2-Tetrachloroethane	ND		0.20	40	10/01/2015 16:23
1,1,2,2-Tetrachloroethane	ND		0.20	40	10/01/2015 16:23
Tetrachloroethene	ND		0.20	40	10/01/2015 16:23
Toluene	ND		0.20	40	10/01/2015 16:23
1,2,3-Trichlorobenzene	ND		0.20	40	10/01/2015 16:23
1,2,4-Trichlorobenzene	ND		0.20	40	10/01/2015 16:23
1,1,1-Trichloroethane	ND		0.20	40	10/01/2015 16:23
1,1,2-Trichloroethane	ND		0.20	40	10/01/2015 16:23
Trichloroethene	ND		0.20	40	10/01/2015 16:23
Trichlorofluoromethane	ND		0.20	40	10/01/2015 16:23
1,2,3-Trichloropropane	ND		0.20	40	10/01/2015 16:23
1,2,4-Trimethylbenzene	ND		0.20	40	10/01/2015 16:23
1,3,5-Trimethylbenzene	ND		0.20	40	10/01/2015 16:23
Vinyl Chloride	ND		0.20	40	10/01/2015 16:23
Xylenes, Total	ND		0.20	40	10/01/2015 16:23

# **Analytical Report**

Client: Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID Ma	trix Date Collected Instrument	Batch ID
S-15½-ECB3	1509A61-010A Soi	09/24/2015 10:57 GC16	110781
<u>Analytes</u>	<u>Result</u>	<u>RL</u> <u>DF</u>	Date Analyzed
Surrogates	REC (%)	<u>Limits</u>	
Dibromofluoromethane	93	70-130	10/01/2015 16:23
Toluene-d8	91	70-130	10/01/2015 16:23
4-BFB	120	70-130	10/01/2015 16:23
Benzene-d6	96	60-140	10/01/2015 16:23
Ethylbenzene-d10	82	60-140	10/01/2015 16:23
1,2-DCB-d4	86	60-140	10/01/2015 16:23
Analyst(s): AK		Analytical Comments: a2,a3	



**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**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	Date Coll	lected	Instrument	Batch ID
S-181/2-ECB3	1509A61-011A	Soil	09/24/2015	11:03	GC18	110781
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
Acetone	ND		0.10	1		09/30/2015 04:32
tert-Amyl methyl ether (TAME)	ND		0.0050	1		09/30/2015 04:32
Benzene	ND		0.0050	1		09/30/2015 04:32
Bromobenzene	ND		0.0050	1		09/30/2015 04:32
Bromochloromethane	ND		0.0050	1		09/30/2015 04:32
Bromodichloromethane	ND		0.0050	1		09/30/2015 04:32
Bromoform	ND		0.0050	1		09/30/2015 04:32
Bromomethane	ND		0.0050	1		09/30/2015 04:32
2-Butanone (MEK)	ND		0.020	1		09/30/2015 04:32
t-Butyl alcohol (TBA)	ND		0.050	1		09/30/2015 04:32
n-Butyl benzene	ND		0.0050	1		09/30/2015 04:32
sec-Butyl benzene	ND		0.0050	1		09/30/2015 04:32
tert-Butyl benzene	ND		0.0050	1		09/30/2015 04:32
Carbon Disulfide	ND		0.0050	1		09/30/2015 04:32
Carbon Tetrachloride	ND		0.0050	1		09/30/2015 04:32
Chlorobenzene	ND		0.0050	1		09/30/2015 04:32
Chloroethane	ND		0.0050	1		09/30/2015 04:32
Chloroform	ND		0.0050	1		09/30/2015 04:32
Chloromethane	ND		0.0050	1		09/30/2015 04:32
2-Chlorotoluene	ND		0.0050	1		09/30/2015 04:32
4-Chlorotoluene	ND		0.0050	1		09/30/2015 04:32
Dibromochloromethane	ND		0.0050	1		09/30/2015 04:32
1,2-Dibromo-3-chloropropane	ND		0.0040	1		09/30/2015 04:32
1,2-Dibromoethane (EDB)	ND		0.0040	1		09/30/2015 04:32
Dibromomethane	ND		0.0050	1		09/30/2015 04:32
1,2-Dichlorobenzene	ND		0.0050	1		09/30/2015 04:32
1,3-Dichlorobenzene	ND		0.0050	1		09/30/2015 04:32
1,4-Dichlorobenzene	ND		0.0050	1		09/30/2015 04:32
Dichlorodifluoromethane	ND		0.0050	1		09/30/2015 04:32
1,1-Dichloroethane	ND		0.0050	1		09/30/2015 04:32
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1		09/30/2015 04:32
1,1-Dichloroethene	ND		0.0050	1		09/30/2015 04:32
cis-1,2-Dichloroethene	ND		0.0050	1		09/30/2015 04:32
trans-1,2-Dichloroethene	ND		0.0050	1		09/30/2015 04:32
1,2-Dichloropropane	ND		0.0050	1		09/30/2015 04:32
1,3-Dichloropropane	ND		0.0050	1		09/30/2015 04:32
2,2-Dichloropropane	ND		0.0050	1		09/30/2015 04:32

(Cont.)

Angela Rydelius, Lab Manager



**Client: Essel Environmental Consulting** 

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC WorkOrder: 1509A61

**Extraction Method: SW5030B Analytical Method: SW8260B** 

Unit: mg/kg

Client ID	Lab ID	Matrix	Date Co	llected Instrume	nt Batch ID
S-181/2-ECB3	1509A61-011A	Soil	09/24/201	5 11:03 GC18	110781
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
1,1-Dichloropropene	ND		0.0050	1	09/30/2015 04:32
cis-1,3-Dichloropropene	ND		0.0050	1	09/30/2015 04:32
trans-1,3-Dichloropropene	ND		0.0050	1	09/30/2015 04:32
Diisopropyl ether (DIPE)	ND		0.0050	1	09/30/2015 04:32
Ethylbenzene	ND		0.0050	1	09/30/2015 04:32
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	09/30/2015 04:32
Freon 113	ND		0.0050	1	09/30/2015 04:32
Hexachlorobutadiene	ND		0.0050	1	09/30/2015 04:32
Hexachloroethane	ND		0.0050	1	09/30/2015 04:32
2-Hexanone	ND		0.0050	1	09/30/2015 04:32
Isopropylbenzene	ND		0.0050	1	09/30/2015 04:32
4-Isopropyl toluene	ND		0.0050	1	09/30/2015 04:32
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	09/30/2015 04:32
Methylene chloride	ND		0.0050	1	09/30/2015 04:32
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	09/30/2015 04:32
Naphthalene	ND		0.0050	1	09/30/2015 04:32
n-Propyl benzene	ND		0.0050	1	09/30/2015 04:32
Styrene	ND		0.0050	1	09/30/2015 04:32
1,1,1,2-Tetrachloroethane	ND		0.0050	1	09/30/2015 04:32
1,1,2,2-Tetrachloroethane	ND		0.0050	1	09/30/2015 04:32
Tetrachloroethene	ND		0.0050	1	09/30/2015 04:32
Toluene	ND		0.0050	1	09/30/2015 04:32
1,2,3-Trichlorobenzene	ND		0.0050	1	09/30/2015 04:32
1,2,4-Trichlorobenzene	ND		0.0050	1	09/30/2015 04:32
1,1,1-Trichloroethane	ND		0.0050	1	09/30/2015 04:32
1,1,2-Trichloroethane	ND		0.0050	1	09/30/2015 04:32
Trichloroethene	ND		0.0050	1	09/30/2015 04:32
Trichlorofluoromethane	ND		0.0050	1	09/30/2015 04:32
1,2,3-Trichloropropane	ND		0.0050	1	09/30/2015 04:32
1,2,4-Trimethylbenzene	ND		0.0050	1	09/30/2015 04:32
1,3,5-Trimethylbenzene	ND		0.0050	1	09/30/2015 04:32
Vinyl Chloride	ND		0.0050	1	09/30/2015 04:32
Xylenes, Total	ND		0.0050	1	09/30/2015 04:32

# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

**WorkOrder:** 1509A61

**Extraction Method: SW5030B** 

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID
S-181/2-ECB3	1509A61-011A Soil	09/24/2015 11:03 GC18	110781
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
<u>Surrogates</u>	REC (%)	<u>Limits</u>	
Dibromofluoromethane	102	70-130	09/30/2015 04:32
Toluene-d8	89	70-130	09/30/2015 04:32
4-BFB	91	70-130	09/30/2015 04:32
Benzene-d6	120	60-140	09/30/2015 04:32
Ethylbenzene-d10	122	60-140	09/30/2015 04:32
1,2-DCB-d4	102	60-140	09/30/2015 04:32



**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

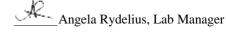
**Extraction Method:** SW5030B **Analytical Method:** SW8260B

**Unit:** mg/kg

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

Client ID	Lab ID	Matrix	Date Col	lected Instrument	Batch ID
S-4½-ECB4	1509A61-012A	Soil	09/24/2015	5 10:55 GC18	110781
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Acetone	ND		0.10	1	09/29/2015 22:05
tert-Amyl methyl ether (TAME)	ND		0.0050	1	09/29/2015 22:05
Benzene	ND		0.0050	1	09/29/2015 22:05
Bromobenzene	ND		0.0050	1	09/29/2015 22:05
Bromochloromethane	ND		0.0050	1	09/29/2015 22:05
Bromodichloromethane	ND		0.0050	1	09/29/2015 22:05
Bromoform	ND		0.0050	1	09/29/2015 22:05
Bromomethane	ND		0.0050	1	09/29/2015 22:05
2-Butanone (MEK)	ND		0.020	1	09/29/2015 22:05
t-Butyl alcohol (TBA)	ND		0.050	1	09/29/2015 22:05
n-Butyl benzene	ND		0.0050	1	09/29/2015 22:05
sec-Butyl benzene	ND		0.0050	1	09/29/2015 22:05
tert-Butyl benzene	ND		0.0050	1	09/29/2015 22:05
Carbon Disulfide	ND		0.0050	1	09/29/2015 22:05
Carbon Tetrachloride	ND		0.0050	1	09/29/2015 22:05
Chlorobenzene	ND		0.0050	1	09/29/2015 22:05
Chloroethane	ND		0.0050	1	09/29/2015 22:05
Chloroform	ND		0.0050	1	09/29/2015 22:05
Chloromethane	ND		0.0050	1	09/29/2015 22:05
2-Chlorotoluene	ND		0.0050	1	09/29/2015 22:05
4-Chlorotoluene	ND		0.0050	1	09/29/2015 22:05
Dibromochloromethane	ND		0.0050	1	09/29/2015 22:05
1,2-Dibromo-3-chloropropane	ND		0.0040	1	09/29/2015 22:05
1,2-Dibromoethane (EDB)	ND		0.0040	1	09/29/2015 22:05
Dibromomethane	ND		0.0050	1	09/29/2015 22:05
1,2-Dichlorobenzene	ND		0.0050	1	09/29/2015 22:05
1,3-Dichlorobenzene	ND		0.0050	1	09/29/2015 22:05
1,4-Dichlorobenzene	ND		0.0050	1	09/29/2015 22:05
Dichlorodifluoromethane	ND		0.0050	1	09/29/2015 22:05
1,1-Dichloroethane	ND		0.0050	1	09/29/2015 22:05
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	09/29/2015 22:05
1,1-Dichloroethene	ND		0.0050	1	09/29/2015 22:05
cis-1,2-Dichloroethene	ND		0.0050	1	09/29/2015 22:05
trans-1,2-Dichloroethene	ND		0.0050	1	09/29/2015 22:05
1,2-Dichloropropane	ND		0.0050	1	09/29/2015 22:05
1,3-Dichloropropane	ND		0.0050	1	09/29/2015 22:05
2,2-Dichloropropane	ND		0.0050	1	09/29/2015 22:05

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**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID	Matrix	Date Co	llected I	nstrument	Batch ID
S-41/2-ECB4	1509A61-012A	Soil	09/24/201	5 10:55 G	C18	110781
Analytes	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
1,1-Dichloropropene	ND		0.0050	1		09/29/2015 22:05
cis-1,3-Dichloropropene	ND		0.0050	1		09/29/2015 22:05
trans-1,3-Dichloropropene	ND		0.0050	1		09/29/2015 22:05
Diisopropyl ether (DIPE)	ND		0.0050	1		09/29/2015 22:05
Ethylbenzene	ND		0.0050	1		09/29/2015 22:05
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1		09/29/2015 22:05
Freon 113	ND		0.0050	1		09/29/2015 22:05
Hexachlorobutadiene	ND		0.0050	1		09/29/2015 22:05
Hexachloroethane	ND		0.0050	1		09/29/2015 22:05
2-Hexanone	ND		0.0050	1		09/29/2015 22:05
Isopropylbenzene	ND		0.0050	1		09/29/2015 22:05
4-Isopropyl toluene	ND		0.0050	1		09/29/2015 22:05
Methyl-t-butyl ether (MTBE)	ND		0.0050	1		09/29/2015 22:05
Methylene chloride	ND		0.0050	1		09/29/2015 22:05
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1		09/29/2015 22:05
Naphthalene	ND		0.0050	1		09/29/2015 22:05
n-Propyl benzene	ND		0.0050	1		09/29/2015 22:05
Styrene	ND		0.0050	1		09/29/2015 22:05
1,1,1,2-Tetrachloroethane	ND		0.0050	1		09/29/2015 22:05
1,1,2,2-Tetrachloroethane	ND		0.0050	1		09/29/2015 22:05
Tetrachloroethene	ND		0.0050	1		09/29/2015 22:05
Toluene	ND		0.0050	1		09/29/2015 22:05
1,2,3-Trichlorobenzene	ND		0.0050	1		09/29/2015 22:05
1,2,4-Trichlorobenzene	ND		0.0050	1		09/29/2015 22:05
1,1,1-Trichloroethane	ND		0.0050	1		09/29/2015 22:05
1,1,2-Trichloroethane	ND		0.0050	1		09/29/2015 22:05
Trichloroethene	ND		0.0050	1		09/29/2015 22:05
Trichlorofluoromethane	ND		0.0050	1		09/29/2015 22:05
1,2,3-Trichloropropane	ND		0.0050	1		09/29/2015 22:05
1,2,4-Trimethylbenzene	ND		0.0050	1		09/29/2015 22:05
1,3,5-Trimethylbenzene	ND		0.0050	1		09/29/2015 22:05
Vinyl Chloride	ND		0.0050	1		09/29/2015 22:05
Xylenes, Total	ND		0.0050	1		09/29/2015 22:05

# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

**WorkOrder:** 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID
S-41/2-ECB4	1509A61-012A Soil	09/24/2015 10:55 GC18	110781
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
Dibromofluoromethane	103	70-130	09/29/2015 22:05
Toluene-d8	86	70-130	09/29/2015 22:05
4-BFB	88	70-130	09/29/2015 22:05
Benzene-d6	123	60-140	09/29/2015 22:05
Ethylbenzene-d10	124	60-140	09/29/2015 22:05
1,2-DCB-d4	107	60-140	09/29/2015 22:05

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

**WorkOrder:** 1509A61

**Extraction Method:** SW5030B

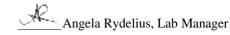
**Analytical Method:** SW8260B

**Unit:** mg/kg

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

Client ID	Lab ID	Matrix	Date Colle	Batch ID	
S-9-ECB4	1509A61-013A	Soil	09/24/2015	11:01 GC16	110781
<u>Analytes</u>	Result		<u>RL</u> !	<u>DF</u>	Date Analyzed
Acetone	ND		0.10	1	09/29/2015 23:07
tert-Amyl methyl ether (TAME)	ND		0.0050	1	09/29/2015 23:07
Benzene	ND		0.0050	1	09/29/2015 23:07
Bromobenzene	ND		0.0050	1	09/29/2015 23:07
Bromochloromethane	ND		0.0050	1	09/29/2015 23:07
Bromodichloromethane	ND		0.0050	1	09/29/2015 23:07
Bromoform	ND		0.0050	1	09/29/2015 23:07
Bromomethane	ND		0.0050	1	09/29/2015 23:07
2-Butanone (MEK)	ND		0.020	1	09/29/2015 23:07
t-Butyl alcohol (TBA)	ND		0.050	1	09/29/2015 23:07
n-Butyl benzene	ND		0.0050	1	09/29/2015 23:07
sec-Butyl benzene	ND		0.0050	1	09/29/2015 23:07
tert-Butyl benzene	ND		0.0050	1	09/29/2015 23:07
Carbon Disulfide	ND		0.0050	1	09/29/2015 23:07
Carbon Tetrachloride	ND		0.0050	1	09/29/2015 23:07
Chlorobenzene	ND		0.0050	1	09/29/2015 23:07
Chloroethane	ND		0.0050	1	09/29/2015 23:07
Chloroform	ND		0.0050	1	09/29/2015 23:07
Chloromethane	ND		0.0050	1	09/29/2015 23:07
2-Chlorotoluene	ND		0.0050	1	09/29/2015 23:07
4-Chlorotoluene	ND		0.0050	1	09/29/2015 23:07
Dibromochloromethane	ND		0.0050	1	09/29/2015 23:07
1,2-Dibromo-3-chloropropane	ND		0.0040	1	09/29/2015 23:07
1,2-Dibromoethane (EDB)	ND		0.0040	1	09/29/2015 23:07
Dibromomethane	ND		0.0050	1	09/29/2015 23:07
1,2-Dichlorobenzene	ND		0.0050	1	09/29/2015 23:07
1,3-Dichlorobenzene	ND		0.0050	1	09/29/2015 23:07
1,4-Dichlorobenzene	ND		0.0050	1	09/29/2015 23:07
Dichlorodifluoromethane	ND		0.0050	1	09/29/2015 23:07
1,1-Dichloroethane	ND		0.0050	1	09/29/2015 23:07
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	09/29/2015 23:07
1,1-Dichloroethene	ND		0.0050	1	09/29/2015 23:07
cis-1,2-Dichloroethene	ND		0.0050	1	09/29/2015 23:07
trans-1,2-Dichloroethene	ND		0.0050	1	09/29/2015 23:07
1,2-Dichloropropane	ND		0.0050	1	09/29/2015 23:07
1,3-Dichloropropane	ND		0.0050	1	09/29/2015 23:07
2,2-Dichloropropane	ND		0.0050	1	09/29/2015 23:07

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**Client: Essel Environmental Consulting** 

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC WorkOrder: 1509A61

**Extraction Method: SW5030B Analytical Method: SW8260B** 

Unit: mg/kg

Client ID	Lab ID	Matrix	Date Col	lected Instrument	Batch ID
S-9-ECB4	1509A61-013A	Soil	09/24/2015	5 11:01 GC16	110781
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
1,1-Dichloropropene	ND		0.0050	1	09/29/2015 23:07
cis-1,3-Dichloropropene	ND		0.0050	1	09/29/2015 23:07
trans-1,3-Dichloropropene	ND		0.0050	1	09/29/2015 23:07
Diisopropyl ether (DIPE)	ND		0.0050	1	09/29/2015 23:07
Ethylbenzene	ND		0.0050	1	09/29/2015 23:07
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	09/29/2015 23:07
Freon 113	ND		0.0050	1	09/29/2015 23:07
Hexachlorobutadiene	ND		0.0050	1	09/29/2015 23:07
Hexachloroethane	ND		0.0050	1	09/29/2015 23:07
2-Hexanone	ND		0.0050	1	09/29/2015 23:07
Isopropylbenzene	ND		0.0050	1	09/29/2015 23:07
4-Isopropyl toluene	ND		0.0050	1	09/29/2015 23:07
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	09/29/2015 23:07
Methylene chloride	ND		0.0050	1	09/29/2015 23:07
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	09/29/2015 23:07
Naphthalene	ND		0.0050	1	09/29/2015 23:07
n-Propyl benzene	ND		0.0050	1	09/29/2015 23:07
Styrene	ND		0.0050	1	09/29/2015 23:07
1,1,1,2-Tetrachloroethane	ND		0.0050	1	09/29/2015 23:07
1,1,2,2-Tetrachloroethane	ND		0.0050	1	09/29/2015 23:07
Tetrachloroethene	ND		0.0050	1	09/29/2015 23:07
Toluene	ND		0.0050	1	09/29/2015 23:07
1,2,3-Trichlorobenzene	ND		0.0050	1	09/29/2015 23:07
1,2,4-Trichlorobenzene	ND		0.0050	1	09/29/2015 23:07
1,1,1-Trichloroethane	ND		0.0050	1	09/29/2015 23:07
1,1,2-Trichloroethane	ND		0.0050	1	09/29/2015 23:07
Trichloroethene	ND		0.0050	1	09/29/2015 23:07
Trichlorofluoromethane	ND		0.0050	1	09/29/2015 23:07
1,2,3-Trichloropropane	ND		0.0050	1	09/29/2015 23:07
1,2,4-Trimethylbenzene	ND		0.0050	1	09/29/2015 23:07
1,3,5-Trimethylbenzene	ND		0.0050	1	09/29/2015 23:07
Vinyl Chloride	ND		0.0050	1	09/29/2015 23:07
Xylenes, Total	ND		0.0050	1	09/29/2015 23:07

# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID
S-9-ECB4	1509A61-013A Soil	09/24/2015 11:01 GC16	110781
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
Dibromofluoromethane	92	70-130	09/29/2015 23:07
Toluene-d8	99	70-130	09/29/2015 23:07
4-BFB	100	70-130	09/29/2015 23:07
Benzene-d6	96	60-140	09/29/2015 23:07
Ethylbenzene-d10	110	60-140	09/29/2015 23:07
1,2-DCB-d4	75	60-140	09/29/2015 23:07

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

**WorkOrder:** 1509A61

**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	Date C	ollected	Instrument	Batch ID
S-13-ECB4	1509A61-014A	Soil	09/24/20	15 11:10	GC28	110781
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
Acetone	ND		10	100		10/01/2015 05:33
tert-Amyl methyl ether (TAME)	ND		0.50	100		10/01/2015 05:33
Benzene	ND		0.50	100		10/01/2015 05:33
Bromobenzene	ND		0.50	100		10/01/2015 05:33
Bromochloromethane	ND		0.50	100		10/01/2015 05:33
Bromodichloromethane	ND		0.50	100		10/01/2015 05:33
Bromoform	ND		0.50	100		10/01/2015 05:33
Bromomethane	ND		0.50	100		10/01/2015 05:33
2-Butanone (MEK)	ND		2.0	100		10/01/2015 05:33
t-Butyl alcohol (TBA)	ND		5.0	100		10/01/2015 05:33
n-Butyl benzene	ND		0.50	100		10/01/2015 05:33
sec-Butyl benzene	ND		0.50	100		10/01/2015 05:33
tert-Butyl benzene	ND		0.50	100		10/01/2015 05:33
Carbon Disulfide	ND		0.50	100		10/01/2015 05:33
Carbon Tetrachloride	ND		0.50	100		10/01/2015 05:33
Chlorobenzene	ND		0.50	100		10/01/2015 05:33
Chloroethane	ND		0.50	100		10/01/2015 05:33
Chloroform	ND		0.50	100		10/01/2015 05:33
Chloromethane	ND		0.50	100		10/01/2015 05:33
2-Chlorotoluene	ND		0.50	100		10/01/2015 05:33
4-Chlorotoluene	ND		0.50	100		10/01/2015 05:33
Dibromochloromethane	ND		0.50	100		10/01/2015 05:33
1,2-Dibromo-3-chloropropane	ND		0.40	100		10/01/2015 05:33
1,2-Dibromoethane (EDB)	ND		0.40	100		10/01/2015 05:33
Dibromomethane	ND		0.50	100		10/01/2015 05:33
1,2-Dichlorobenzene	ND		0.50	100		10/01/2015 05:33
1,3-Dichlorobenzene	ND		0.50	100		10/01/2015 05:33
1,4-Dichlorobenzene	ND		0.50	100		10/01/2015 05:33
Dichlorodifluoromethane	ND		0.50	100		10/01/2015 05:33
1,1-Dichloroethane	ND		0.50	100		10/01/2015 05:33
1,2-Dichloroethane (1,2-DCA)	ND		0.40	100		10/01/2015 05:33
1,1-Dichloroethene	ND		0.50	100		10/01/2015 05:33
cis-1,2-Dichloroethene	ND		0.50	100		10/01/2015 05:33
trans-1,2-Dichloroethene	ND		0.50	100		10/01/2015 05:33
1,2-Dichloropropane	ND		0.50	100		10/01/2015 05:33
1,3-Dichloropropane	ND		0.50	100		10/01/2015 05:33
2,2-Dichloropropane	ND		0.50	100		10/01/2015 05:33

(Cont.)

Angela Rydelius, Lab Manager

### **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

**WorkOrder:** 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B **Unit:** mg/kg

Client ID	Lab ID	Matrix	Date Co	ollected	Instrument	Batch ID
S-13-ECB4	1509A61-014A	Soil	09/24/20	15 11:10	GC28	110781
Analytes	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
1,1-Dichloropropene	ND		0.50	100		10/01/2015 05:33
cis-1,3-Dichloropropene	ND		0.50	100		10/01/2015 05:33
trans-1,3-Dichloropropene	ND		0.50	100		10/01/2015 05:33
Diisopropyl ether (DIPE)	ND		0.50	100		10/01/2015 05:33
Ethylbenzene	ND		0.50	100		10/01/2015 05:33
Ethyl tert-butyl ether (ETBE)	ND		0.50	100		10/01/2015 05:33
Freon 113	ND		0.50	100		10/01/2015 05:33
Hexachlorobutadiene	ND		0.50	100		10/01/2015 05:33
Hexachloroethane	ND		0.50	100		10/01/2015 05:33
2-Hexanone	ND		0.50	100		10/01/2015 05:33
Isopropylbenzene	ND		0.50	100		10/01/2015 05:33
4-Isopropyl toluene	ND		0.50	100		10/01/2015 05:33
Methyl-t-butyl ether (MTBE)	ND		0.50	100		10/01/2015 05:33
Methylene chloride	ND		0.50	100		10/01/2015 05:33
4-Methyl-2-pentanone (MIBK)	ND		0.50	100		10/01/2015 05:33
Naphthalene	ND		0.50	100		10/01/2015 05:33
n-Propyl benzene	ND		0.50	100		10/01/2015 05:33
Styrene	ND		0.50	100		10/01/2015 05:33
1,1,1,2-Tetrachloroethane	ND		0.50	100		10/01/2015 05:33
1,1,2,2-Tetrachloroethane	ND		0.50	100		10/01/2015 05:33
Tetrachloroethene	ND		0.50	100		10/01/2015 05:33
Toluene	ND		0.50	100		10/01/2015 05:33
1,2,3-Trichlorobenzene	ND		0.50	100		10/01/2015 05:33
1,2,4-Trichlorobenzene	ND		0.50	100		10/01/2015 05:33
1,1,1-Trichloroethane	ND		0.50	100		10/01/2015 05:33
1,1,2-Trichloroethane	ND		0.50	100		10/01/2015 05:33
Trichloroethene	ND		0.50	100		10/01/2015 05:33
Trichlorofluoromethane	ND		0.50	100		10/01/2015 05:33
1,2,3-Trichloropropane	ND		0.50	100		10/01/2015 05:33
1,2,4-Trimethylbenzene	ND		0.50	100		10/01/2015 05:33
1,3,5-Trimethylbenzene	ND		0.50	100		10/01/2015 05:33
Vinyl Chloride	ND		0.50	100		10/01/2015 05:33
Xylenes, Total	ND		0.50	100		10/01/2015 05:33

# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID	Matrix	Date Collected Instrument	Batch ID		
S-13-ECB4	1509A61-014A	Soil	09/24/2015 11:10 GC28	110781		
<u>Analytes</u>	Result		<u>RL</u> <u>DF</u>	Date Analyzed		
<u>Surrogates</u>	REC (%)	<u>Qualifiers</u>	<u>Limits</u>			
Dibromofluoromethane	114		70-130	10/01/2015 05:33		
Toluene-d8	97		70-130	10/01/2015 05:33		
4-BFB	117		70-130	10/01/2015 05:33		
Benzene-d6	90		60-140	10/01/2015 05:33		
Ethylbenzene-d10	331	S	60-140	10/01/2015 05:33		
1,2-DCB-d4	249	S	60-140	10/01/2015 05:33		
Analyst(s): AK	Analytical Comments: c7,a2,a3					

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**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	Date Coll	ected Instrumen	Batch ID
S-171/2-ECB4	1509A61-015A	Soil	09/24/2015	11:12 GC18	110781
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Acetone	ND		0.10	1	09/29/2015 22:43
tert-Amyl methyl ether (TAME)	ND		0.0050	1	09/29/2015 22:43
Benzene	ND		0.0050	1	09/29/2015 22:43
Bromobenzene	ND		0.0050	1	09/29/2015 22:43
Bromochloromethane	ND		0.0050	1	09/29/2015 22:43
Bromodichloromethane	ND		0.0050	1	09/29/2015 22:43
Bromoform	ND		0.0050	1	09/29/2015 22:43
Bromomethane	ND		0.0050	1	09/29/2015 22:43
2-Butanone (MEK)	ND		0.020	1	09/29/2015 22:43
t-Butyl alcohol (TBA)	ND		0.050	1	09/29/2015 22:43
n-Butyl benzene	ND		0.0050	1	09/29/2015 22:43
sec-Butyl benzene	ND		0.0050	1	09/29/2015 22:43
tert-Butyl benzene	ND		0.0050	1	09/29/2015 22:43
Carbon Disulfide	ND		0.0050	1	09/29/2015 22:43
Carbon Tetrachloride	ND		0.0050	1	09/29/2015 22:43
Chlorobenzene	ND		0.0050	1	09/29/2015 22:43
Chloroethane	ND		0.0050	1	09/29/2015 22:43
Chloroform	ND		0.0050	1	09/29/2015 22:43
Chloromethane	ND		0.0050	1	09/29/2015 22:43
2-Chlorotoluene	ND		0.0050	1	09/29/2015 22:43
4-Chlorotoluene	ND		0.0050	1	09/29/2015 22:43
Dibromochloromethane	ND		0.0050	1	09/29/2015 22:43
1,2-Dibromo-3-chloropropane	ND		0.0040	1	09/29/2015 22:43
1,2-Dibromoethane (EDB)	ND		0.0040	1	09/29/2015 22:43
Dibromomethane	ND		0.0050	1	09/29/2015 22:43
1,2-Dichlorobenzene	ND		0.0050	1	09/29/2015 22:43
1,3-Dichlorobenzene	ND		0.0050	1	09/29/2015 22:43
1,4-Dichlorobenzene	ND		0.0050	1	09/29/2015 22:43
Dichlorodifluoromethane	ND		0.0050	1	09/29/2015 22:43
1,1-Dichloroethane	ND		0.0050	1	09/29/2015 22:43
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	09/29/2015 22:43
1,1-Dichloroethene	ND		0.0050	1	09/29/2015 22:43
cis-1,2-Dichloroethene	ND		0.0050	1	09/29/2015 22:43
trans-1,2-Dichloroethene	ND		0.0050	1	09/29/2015 22:43
1,2-Dichloropropane	ND		0.0050	1	09/29/2015 22:43
1,3-Dichloropropane	ND		0.0050	1	09/29/2015 22:43
2,2-Dichloropropane	ND		0.0050	1	09/29/2015 22:43
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Angela Rydelius, Lab Manager



**Client: Essel Environmental Consulting** 

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC WorkOrder: 1509A61

**Extraction Method: SW5030B** 

**Analytical Method: SW8260B** 

Unit: mg/kg

Client ID	Lab ID	Matrix	Date Co	llected Instrument	Batch ID	
S-17½-ECB4	1509A61-015A	Soil	09/24/201	5 11:12 GC18	110781	
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed	
1,1-Dichloropropene	ND		0.0050	1	09/29/2015 22:43	
cis-1,3-Dichloropropene	ND		0.0050	1	09/29/2015 22:43	
trans-1,3-Dichloropropene	ND		0.0050	1	09/29/2015 22:43	
Diisopropyl ether (DIPE)	ND		0.0050	1	09/29/2015 22:43	
Ethylbenzene	ND		0.0050	1	09/29/2015 22:43	
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	09/29/2015 22:43	
Freon 113	ND		0.0050	1	09/29/2015 22:43	
Hexachlorobutadiene	ND		0.0050	1	09/29/2015 22:43	
Hexachloroethane	ND		0.0050	1	09/29/2015 22:43	
2-Hexanone	ND		0.0050	1	09/29/2015 22:43	
Isopropylbenzene	ND		0.0050	1	09/29/2015 22:43	
4-Isopropyl toluene	ND		0.0050	1	09/29/2015 22:43	
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	09/29/2015 22:43	
Methylene chloride	ND		0.0050	1	09/29/2015 22:43	
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	09/29/2015 22:43	
Naphthalene	ND		0.0050	1	09/29/2015 22:43	
n-Propyl benzene	ND		0.0050	1	09/29/2015 22:43	
Styrene	ND		0.0050	1	09/29/2015 22:43	
1,1,1,2-Tetrachloroethane	ND		0.0050	1	09/29/2015 22:43	
1,1,2,2-Tetrachloroethane	ND		0.0050	1	09/29/2015 22:43	
Tetrachloroethene	ND		0.0050	1	09/29/2015 22:43	
Toluene	ND		0.0050	1	09/29/2015 22:43	
1,2,3-Trichlorobenzene	ND		0.0050	1	09/29/2015 22:43	
1,2,4-Trichlorobenzene	ND		0.0050	1	09/29/2015 22:43	
1,1,1-Trichloroethane	ND		0.0050	1	09/29/2015 22:43	
1,1,2-Trichloroethane	ND		0.0050	1	09/29/2015 22:43	
Trichloroethene	ND		0.0050	1	09/29/2015 22:43	
Trichlorofluoromethane	ND		0.0050	1	09/29/2015 22:43	
1,2,3-Trichloropropane	ND		0.0050	1	09/29/2015 22:43	
1,2,4-Trimethylbenzene	ND		0.0050	1	09/29/2015 22:43	
1,3,5-Trimethylbenzene	ND		0.0050	1	09/29/2015 22:43	
Vinyl Chloride	ND		0.0050	1	09/29/2015 22:43	
Xylenes, Total	ND		0.0050	1	09/29/2015 22:43	

# **Analytical Report**

**Client: Essel Environmental Consulting** 

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC WorkOrder: 1509A61

**Extraction Method: SW5030B** 

**Analytical Method: SW8260B** 

Unit: mg/kg

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID	
S-171/2-ECB4	1509A61-015A Soil	09/24/2015 11:12 GC18	110781	
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed	
<u>Surrogates</u>	REC (%)	Limits		
Dibromofluoromethane	103	70-130	09/29/2015 22:43	
Toluene-d8	87	70-130	09/29/2015 22:43	
4-BFB	86	70-130	09/29/2015 22:43	
Benzene-d6	125	60-140	09/29/2015 22:43	
Ethylbenzene-d10	128	60-140	09/29/2015 22:43	
1,2-DCB-d4	112	60-140	09/29/2015 22:43	

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

**WorkOrder:** 1509A61

**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	Date Co	llected Instrument	Batch ID
S-4-ECB5	1509A61-016A	Soil	09/24/201	5 14:44 GC18	110781
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Acetone	ND		0.10	1	09/29/2015 23:22
tert-Amyl methyl ether (TAME)	ND		0.0050	1	09/29/2015 23:22
Benzene	ND		0.0050	1	09/29/2015 23:22
Bromobenzene	ND		0.0050	1	09/29/2015 23:22
Bromochloromethane	ND		0.0050	1	09/29/2015 23:22
Bromodichloromethane	ND		0.0050	1	09/29/2015 23:22
Bromoform	ND		0.0050	1	09/29/2015 23:22
Bromomethane	ND		0.0050	1	09/29/2015 23:22
2-Butanone (MEK)	ND		0.020	1	09/29/2015 23:22
t-Butyl alcohol (TBA)	ND		0.050	1	09/29/2015 23:22
n-Butyl benzene	ND		0.0050	1	09/29/2015 23:22
sec-Butyl benzene	ND		0.0050	1	09/29/2015 23:22
tert-Butyl benzene	ND		0.0050	1	09/29/2015 23:22
Carbon Disulfide	ND		0.0050	1	09/29/2015 23:22
Carbon Tetrachloride	ND		0.0050	1	09/29/2015 23:22
Chlorobenzene	ND		0.0050	1	09/29/2015 23:22
Chloroethane	ND		0.0050	1	09/29/2015 23:22
Chloroform	ND		0.0050	1	09/29/2015 23:22
Chloromethane	ND		0.0050	1	09/29/2015 23:22
2-Chlorotoluene	ND		0.0050	1	09/29/2015 23:22
4-Chlorotoluene	ND		0.0050	1	09/29/2015 23:22
Dibromochloromethane	ND		0.0050	1	09/29/2015 23:22
1,2-Dibromo-3-chloropropane	ND		0.0040	1	09/29/2015 23:22
1,2-Dibromoethane (EDB)	ND		0.0040	1	09/29/2015 23:22
Dibromomethane	ND		0.0050	1	09/29/2015 23:22
1,2-Dichlorobenzene	ND		0.0050	1	09/29/2015 23:22
1,3-Dichlorobenzene	ND		0.0050	1	09/29/2015 23:22
1,4-Dichlorobenzene	ND		0.0050	1	09/29/2015 23:22
Dichlorodifluoromethane	ND		0.0050	1	09/29/2015 23:22
1,1-Dichloroethane	ND		0.0050	1	09/29/2015 23:22
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	09/29/2015 23:22
1,1-Dichloroethene	ND		0.0050	1	09/29/2015 23:22
cis-1,2-Dichloroethene	ND		0.0050	1	09/29/2015 23:22
trans-1,2-Dichloroethene	ND		0.0050	1	09/29/2015 23:22
1,2-Dichloropropane	ND		0.0050	1	09/29/2015 23:22
1,3-Dichloropropane	ND		0.0050	1	09/29/2015 23:22
2,2-Dichloropropane	ND		0.0050	1	09/29/2015 23:22
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**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID	Matrix	Date Col	llected Instrument	Batch ID
S-4-ECB5	1509A61-016A	Soil	09/24/201	5 14:44 GC18	110781
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
1,1-Dichloropropene	ND		0.0050	1	09/29/2015 23:22
cis-1,3-Dichloropropene	ND		0.0050	1	09/29/2015 23:22
trans-1,3-Dichloropropene	ND		0.0050	1	09/29/2015 23:22
Diisopropyl ether (DIPE)	ND		0.0050	1	09/29/2015 23:22
Ethylbenzene	ND		0.0050	1	09/29/2015 23:22
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	09/29/2015 23:22
Freon 113	ND		0.0050	1	09/29/2015 23:22
Hexachlorobutadiene	ND		0.0050	1	09/29/2015 23:22
Hexachloroethane	ND		0.0050	1	09/29/2015 23:22
2-Hexanone	ND		0.0050	1	09/29/2015 23:22
Isopropylbenzene	ND		0.0050	1	09/29/2015 23:22
4-Isopropyl toluene	ND		0.0050	1	09/29/2015 23:22
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	09/29/2015 23:22
Methylene chloride	ND		0.0050	1	09/29/2015 23:22
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	09/29/2015 23:22
Naphthalene	ND		0.0050	1	09/29/2015 23:22
n-Propyl benzene	ND		0.0050	1	09/29/2015 23:22
Styrene	ND		0.0050	1	09/29/2015 23:22
1,1,1,2-Tetrachloroethane	ND		0.0050	1	09/29/2015 23:22
1,1,2,2-Tetrachloroethane	ND		0.0050	1	09/29/2015 23:22
Tetrachloroethene	ND		0.0050	1	09/29/2015 23:22
Toluene	ND		0.0050	1	09/29/2015 23:22
1,2,3-Trichlorobenzene	ND		0.0050	1	09/29/2015 23:22
1,2,4-Trichlorobenzene	ND		0.0050	1	09/29/2015 23:22
1,1,1-Trichloroethane	ND		0.0050	1	09/29/2015 23:22
1,1,2-Trichloroethane	ND		0.0050	1	09/29/2015 23:22
Trichloroethene	ND		0.0050	1	09/29/2015 23:22
Trichlorofluoromethane	ND		0.0050	1	09/29/2015 23:22
1,2,3-Trichloropropane	ND		0.0050	1	09/29/2015 23:22
1,2,4-Trimethylbenzene	ND		0.0050	1	09/29/2015 23:22
1,3,5-Trimethylbenzene	ND		0.0050	1	09/29/2015 23:22
Vinyl Chloride	ND		0.0050	1	09/29/2015 23:22
Xylenes, Total	ND		0.0050	1	09/29/2015 23:22

# **Analytical Report**

**Client: Essel Environmental Consulting** 

**Date Prepared:** 9/28/15

**Date Received:** 9/25/15 19:30

**Project:** 15166; EBALDC WorkOrder: 1509A61

**Extraction Method: SW5030B** 

**Analytical Method: SW8260B** 

Unit: mg/kg

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID
S-4-ECB5	1509A61-016A Soil	09/24/2015 14:44 GC18	110781
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
Surrogates	REC (%)	Limits	
Dibromofluoromethane	103	70-130	09/29/2015 23:22
Toluene-d8	87	70-130	09/29/2015 23:22
4-BFB	90	70-130	09/29/2015 23:22
Benzene-d6	120	60-140	09/29/2015 23:22
Ethylbenzene-d10	123	60-140	09/29/2015 23:22
1,2-DCB-d4	107	60-140	09/29/2015 23:22

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**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	Date Co	llected	Instrument	Batch ID
S-8-ECB5	1509A61-017A	Soil	09/24/20	15 14:53	GC28	110781
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
Acetone	ND		2.0	20		10/01/2015 06:10
tert-Amyl methyl ether (TAME)	ND		0.10	20		10/01/2015 06:10
Benzene	ND		0.10	20		10/01/2015 06:10
Bromobenzene	ND		0.10	20		10/01/2015 06:10
Bromochloromethane	ND		0.10	20		10/01/2015 06:10
Bromodichloromethane	ND		0.10	20		10/01/2015 06:10
Bromoform	ND		0.10	20		10/01/2015 06:10
Bromomethane	ND		0.10	20		10/01/2015 06:10
2-Butanone (MEK)	ND		0.40	20		10/01/2015 06:10
t-Butyl alcohol (TBA)	ND		1.0	20		10/01/2015 06:10
n-Butyl benzene	ND		0.10	20		10/01/2015 06:10
sec-Butyl benzene	ND		0.10	20		10/01/2015 06:10
tert-Butyl benzene	ND		0.10	20		10/01/2015 06:10
Carbon Disulfide	ND		0.10	20		10/01/2015 06:10
Carbon Tetrachloride	ND		0.10	20		10/01/2015 06:10
Chlorobenzene	ND		0.10	20		10/01/2015 06:10
Chloroethane	ND		0.10	20		10/01/2015 06:10
Chloroform	ND		0.10	20		10/01/2015 06:10
Chloromethane	ND		0.10	20		10/01/2015 06:10
2-Chlorotoluene	ND		0.10	20		10/01/2015 06:10
4-Chlorotoluene	ND		0.10	20		10/01/2015 06:10
Dibromochloromethane	ND		0.10	20		10/01/2015 06:10
1,2-Dibromo-3-chloropropane	ND		0.080	20		10/01/2015 06:10
1,2-Dibromoethane (EDB)	ND		0.080	20		10/01/2015 06:10
Dibromomethane	ND		0.10	20		10/01/2015 06:10
1,2-Dichlorobenzene	ND		0.10	20		10/01/2015 06:10
1,3-Dichlorobenzene	ND		0.10	20		10/01/2015 06:10
1,4-Dichlorobenzene	ND		0.10	20		10/01/2015 06:10
Dichlorodifluoromethane	ND		0.10	20		10/01/2015 06:10
1,1-Dichloroethane	ND		0.10	20		10/01/2015 06:10
1,2-Dichloroethane (1,2-DCA)	ND		0.080	20		10/01/2015 06:10
1,1-Dichloroethene	ND		0.10	20		10/01/2015 06:10
cis-1,2-Dichloroethene	ND		0.10	20		10/01/2015 06:10
trans-1,2-Dichloroethene	ND		0.10	20		10/01/2015 06:10
1,2-Dichloropropane	ND		0.10	20		10/01/2015 06:10
1,3-Dichloropropane	ND		0.10	20		10/01/2015 06:10
2,2-Dichloropropane	ND		0.10	20		10/01/2015 06:10
	-					

(Cont.)



### **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID	Matrix	Date Co	ollected Instr	ument Batch ID
S-8-ECB5	1509A61-017A	Soil	09/24/201	15 14:53 GC28	110781
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
1,1-Dichloropropene	ND		0.10	20	10/01/2015 06:10
cis-1,3-Dichloropropene	ND		0.10	20	10/01/2015 06:10
trans-1,3-Dichloropropene	ND		0.10	20	10/01/2015 06:10
Diisopropyl ether (DIPE)	ND		0.10	20	10/01/2015 06:10
Ethylbenzene	ND		0.10	20	10/01/2015 06:10
Ethyl tert-butyl ether (ETBE)	ND		0.10	20	10/01/2015 06:10
Freon 113	ND		0.10	20	10/01/2015 06:10
Hexachlorobutadiene	ND		0.10	20	10/01/2015 06:10
Hexachloroethane	ND		0.10	20	10/01/2015 06:10
2-Hexanone	ND		0.10	20	10/01/2015 06:10
Isopropylbenzene	ND		0.10	20	10/01/2015 06:10
4-Isopropyl toluene	ND		0.10	20	10/01/2015 06:10
Methyl-t-butyl ether (MTBE)	ND		0.10	20	10/01/2015 06:10
Methylene chloride	ND		0.10	20	10/01/2015 06:10
4-Methyl-2-pentanone (MIBK)	ND		0.10	20	10/01/2015 06:10
Naphthalene	ND		0.10	20	10/01/2015 06:10
n-Propyl benzene	ND		0.10	20	10/01/2015 06:10
Styrene	ND		0.10	20	10/01/2015 06:10
1,1,1,2-Tetrachloroethane	ND		0.10	20	10/01/2015 06:10
1,1,2,2-Tetrachloroethane	ND		0.10	20	10/01/2015 06:10
Tetrachloroethene	ND		0.10	20	10/01/2015 06:10
Toluene	ND		0.10	20	10/01/2015 06:10
1,2,3-Trichlorobenzene	ND		0.10	20	10/01/2015 06:10
1,2,4-Trichlorobenzene	ND		0.10	20	10/01/2015 06:10
1,1,1-Trichloroethane	ND		0.10	20	10/01/2015 06:10
1,1,2-Trichloroethane	ND		0.10	20	10/01/2015 06:10
Trichloroethene	ND		0.10	20	10/01/2015 06:10
Trichlorofluoromethane	ND		0.10	20	10/01/2015 06:10
1,2,3-Trichloropropane	ND		0.10	20	10/01/2015 06:10
1,2,4-Trimethylbenzene	ND		0.10	20	10/01/2015 06:10
1,3,5-Trimethylbenzene	ND		0.10	20	10/01/2015 06:10
Vinyl Chloride	ND		0.10	20	10/01/2015 06:10
Xylenes, Total	ND		0.10	20	10/01/2015 06:10

# **Analytical Report**

**Client: Essel Environmental Consulting** 

**Date Prepared:** 9/28/15

**Date Received:** 9/25/15 19:30

**Project:** 15166; EBALDC WorkOrder: 1509A61

**Extraction Method: SW5030B** 

**Analytical Method: SW8260B** 

Unit: mg/kg

Client ID	Lab ID Matrix	Date Collected Instrument	Batch ID	
S-8-ECB5	1509A61-017A Soil	09/24/2015 14:53 GC28	110781	
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed	
Surrogates	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	114	70-130	10/01/2015 06:10	
Toluene-d8	103	70-130	10/01/2015 06:10	
4-BFB	114	70-130	10/01/2015 06:10	
Benzene-d6	100	60-140	10/01/2015 06:10	
Ethylbenzene-d10	139	60-140	10/01/2015 06:10	
1,2-DCB-d4	125	60-140	10/01/2015 06:10	
Analyst(s): AK		Analytical Comments: a2,a3		

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**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	Date Col	llected Instrument	Batch ID
S-141/2-ECB5	1509A61-018A	Soil	09/24/201	5 15:07 GC16	110781
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	Date Analyzed
Acetone	ND		2.0	20	10/01/2015 17:07
tert-Amyl methyl ether (TAME)	ND		0.10	20	10/01/2015 17:07
Benzene	ND		0.10	20	10/01/2015 17:07
Bromobenzene	ND		0.10	20	10/01/2015 17:07
Bromochloromethane	ND		0.10	20	10/01/2015 17:07
Bromodichloromethane	ND		0.10	20	10/01/2015 17:07
Bromoform	ND		0.10	20	10/01/2015 17:07
Bromomethane	ND		0.10	20	10/01/2015 17:07
2-Butanone (MEK)	ND		0.40	20	10/01/2015 17:07
t-Butyl alcohol (TBA)	ND		1.0	20	10/01/2015 17:07
n-Butyl benzene	ND		0.10	20	10/01/2015 17:07
sec-Butyl benzene	ND		0.10	20	10/01/2015 17:07
tert-Butyl benzene	ND		0.10	20	10/01/2015 17:07
Carbon Disulfide	ND		0.10	20	10/01/2015 17:07
Carbon Tetrachloride	ND		0.10	20	10/01/2015 17:07
Chlorobenzene	ND		0.10	20	10/01/2015 17:07
Chloroethane	ND		0.10	20	10/01/2015 17:07
Chloroform	ND		0.10	20	10/01/2015 17:07
Chloromethane	ND		0.10	20	10/01/2015 17:07
2-Chlorotoluene	ND		0.10	20	10/01/2015 17:07
4-Chlorotoluene	ND		0.10	20	10/01/2015 17:07
Dibromochloromethane	ND		0.10	20	10/01/2015 17:07
1,2-Dibromo-3-chloropropane	ND		0.080	20	10/01/2015 17:07
1,2-Dibromoethane (EDB)	ND		0.080	20	10/01/2015 17:07
Dibromomethane	ND		0.10	20	10/01/2015 17:07
1,2-Dichlorobenzene	ND		0.10	20	10/01/2015 17:07
1,3-Dichlorobenzene	ND		0.10	20	10/01/2015 17:07
1,4-Dichlorobenzene	ND		0.10	20	10/01/2015 17:07
Dichlorodifluoromethane	ND		0.10	20	10/01/2015 17:07
1,1-Dichloroethane	ND		0.10	20	10/01/2015 17:07
1,2-Dichloroethane (1,2-DCA)	ND		0.080	20	10/01/2015 17:07
1,1-Dichloroethene	ND		0.10	20	10/01/2015 17:07
cis-1,2-Dichloroethene	ND		0.10	20	10/01/2015 17:07
trans-1,2-Dichloroethene	ND		0.10	20	10/01/2015 17:07
1,2-Dichloropropane	ND		0.10	20	10/01/2015 17:07
1,3-Dichloropropane	ND		0.10	20	10/01/2015 17:07
2,2-Dichloropropane	ND		0.10	20	10/01/2015 17:07

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**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	t Batch ID
S-14½-ECB5	1509A61-018A	Soil	09/24/201	15 15:07 GC16	110781
Analytes	Result		<u>RL</u>	DF	Date Analyzed
1,1-Dichloropropene	ND		0.10	20	10/01/2015 17:07
cis-1,3-Dichloropropene	ND		0.10	20	10/01/2015 17:07
trans-1,3-Dichloropropene	ND		0.10	20	10/01/2015 17:07
Diisopropyl ether (DIPE)	ND		0.10	20	10/01/2015 17:07
Ethylbenzene	ND		0.10	20	10/01/2015 17:07
Ethyl tert-butyl ether (ETBE)	ND		0.10	20	10/01/2015 17:07
Freon 113	ND		0.10	20	10/01/2015 17:07
Hexachlorobutadiene	ND		0.10	20	10/01/2015 17:07
Hexachloroethane	ND		0.10	20	10/01/2015 17:07
2-Hexanone	ND		0.10	20	10/01/2015 17:07
Isopropylbenzene	ND		0.10	20	10/01/2015 17:07
4-Isopropyl toluene	ND		0.10	20	10/01/2015 17:07
Methyl-t-butyl ether (MTBE)	ND		0.10	20	10/01/2015 17:07
Methylene chloride	ND		0.10	20	10/01/2015 17:07
4-Methyl-2-pentanone (MIBK)	ND		0.10	20	10/01/2015 17:07
Naphthalene	ND		0.10	20	10/01/2015 17:07
n-Propyl benzene	ND		0.10	20	10/01/2015 17:07
Styrene	ND		0.10	20	10/01/2015 17:07
1,1,1,2-Tetrachloroethane	ND		0.10	20	10/01/2015 17:07
1,1,2,2-Tetrachloroethane	ND		0.10	20	10/01/2015 17:07
Tetrachloroethene	ND		0.10	20	10/01/2015 17:07
Toluene	ND		0.10	20	10/01/2015 17:07
1,2,3-Trichlorobenzene	ND		0.10	20	10/01/2015 17:07
1,2,4-Trichlorobenzene	ND		0.10	20	10/01/2015 17:07
1,1,1-Trichloroethane	ND		0.10	20	10/01/2015 17:07
1,1,2-Trichloroethane	ND		0.10	20	10/01/2015 17:07
Trichloroethene	ND		0.10	20	10/01/2015 17:07
Trichlorofluoromethane	ND		0.10	20	10/01/2015 17:07
1,2,3-Trichloropropane	ND		0.10	20	10/01/2015 17:07
1,2,4-Trimethylbenzene	ND		0.10	20	10/01/2015 17:07
1,3,5-Trimethylbenzene	ND		0.10	20	10/01/2015 17:07
Vinyl Chloride	ND		0.10	20	10/01/2015 17:07
Xylenes, Total	ND		0.10	20	10/01/2015 17:07

# **Analytical Report**

**Client:** Essel Environmental Consulting

WorkOrder: 1509A61

**Date Received:** 9/25/15 19:30

25/15 19:30

**Date Prepared:** 9/28/15

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

**Project:** 15166; EBALDC

Unit: mg/kg

Client ID	Lab ID	Matrix	<b>Date Collected Instrument</b>	Batch ID
S-141/2-ECB5	1509A61-018A	Soil	09/24/2015 15:07 GC16	110781
<u>Analytes</u>	<u>Result</u>		<u>RL</u> <u>DF</u>	Date Analyzed
Surrogates	REC (%)	<u>Qualifiers</u>	<u>Limits</u>	
Dibromofluoromethane	96		70-130	10/01/2015 17:07
Toluene-d8	91		70-130	10/01/2015 17:07
4-BFB	145	S	70-130	10/01/2015 17:07
Benzene-d6	108		60-140	10/01/2015 17:07
Ethylbenzene-d10	105		60-140	10/01/2015 17:07
1,2-DCB-d4	91		60-140	10/01/2015 17:07
Analyst(s): AK			Analytical Comments: c7,a2,a3	



**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**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	Date Coll	lected Instrument	Batch ID
S-18-ECB5	1509A61-019A	Soil	09/24/2015	5 15:14 GC16	110781
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Acetone	ND		0.10	1	09/29/2015 11:33
tert-Amyl methyl ether (TAME)	ND		0.0050	1	09/29/2015 11:33
Benzene	ND		0.0050	1	09/29/2015 11:33
Bromobenzene	ND		0.0050	1	09/29/2015 11:33
Bromochloromethane	ND		0.0050	1	09/29/2015 11:33
Bromodichloromethane	ND		0.0050	1	09/29/2015 11:33
Bromoform	ND		0.0050	1	09/29/2015 11:33
Bromomethane	ND		0.0050	1	09/29/2015 11:33
2-Butanone (MEK)	ND		0.020	1	09/29/2015 11:33
t-Butyl alcohol (TBA)	ND		0.050	1	09/29/2015 11:33
n-Butyl benzene	ND		0.0050	1	09/29/2015 11:33
sec-Butyl benzene	ND		0.0050	1	09/29/2015 11:33
tert-Butyl benzene	ND		0.0050	1	09/29/2015 11:33
Carbon Disulfide	ND		0.0050	1	09/29/2015 11:33
Carbon Tetrachloride	ND		0.0050	1	09/29/2015 11:33
Chlorobenzene	ND		0.0050	1	09/29/2015 11:33
Chloroethane	ND		0.0050	1	09/29/2015 11:33
Chloroform	ND		0.0050	1	09/29/2015 11:33
Chloromethane	ND		0.0050	1	09/29/2015 11:33
2-Chlorotoluene	ND		0.0050	1	09/29/2015 11:33
4-Chlorotoluene	ND		0.0050	1	09/29/2015 11:33
Dibromochloromethane	ND		0.0050	1	09/29/2015 11:33
1,2-Dibromo-3-chloropropane	ND		0.0040	1	09/29/2015 11:33
1,2-Dibromoethane (EDB)	ND		0.0040	1	09/29/2015 11:33
Dibromomethane	ND		0.0050	1	09/29/2015 11:33
1,2-Dichlorobenzene	ND		0.0050	1	09/29/2015 11:33
1,3-Dichlorobenzene	ND		0.0050	1	09/29/2015 11:33
1,4-Dichlorobenzene	ND		0.0050	1	09/29/2015 11:33
Dichlorodifluoromethane	ND		0.0050	1	09/29/2015 11:33
1,1-Dichloroethane	ND		0.0050	1	09/29/2015 11:33
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	09/29/2015 11:33
1,1-Dichloroethene	ND		0.0050	1	09/29/2015 11:33
cis-1,2-Dichloroethene	ND		0.0050	1	09/29/2015 11:33
trans-1,2-Dichloroethene	ND		0.0050	1	09/29/2015 11:33
1,2-Dichloropropane	ND		0.0050	1	09/29/2015 11:33
1,3-Dichloropropane	ND		0.0050	1	09/29/2015 11:33
2,2-Dichloropropane	ND		0.0050	1	09/29/2015 11:33

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Angela Rydelius, Lab Manager

### **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B

Analytical Method: SW8260B

**Unit:** mg/kg

Client ID	Lab ID	Matrix	Date Co	llected Instrument	Batch ID
S-18-ECB5	1509A61-019A	Soil	09/24/201	I5 15:14 GC16	110781
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
1,1-Dichloropropene	ND		0.0050	1	09/29/2015 11:33
cis-1,3-Dichloropropene	ND		0.0050	1	09/29/2015 11:33
trans-1,3-Dichloropropene	ND		0.0050	1	09/29/2015 11:33
Diisopropyl ether (DIPE)	ND		0.0050	1	09/29/2015 11:33
Ethylbenzene	ND		0.0050	1	09/29/2015 11:33
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	09/29/2015 11:33
Freon 113	ND		0.0050	1	09/29/2015 11:33
Hexachlorobutadiene	ND		0.0050	1	09/29/2015 11:33
Hexachloroethane	ND		0.0050	1	09/29/2015 11:33
2-Hexanone	ND		0.0050	1	09/29/2015 11:33
Isopropylbenzene	ND		0.0050	1	09/29/2015 11:33
4-Isopropyl toluene	ND		0.0050	1	09/29/2015 11:33
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	09/29/2015 11:33
Methylene chloride	ND		0.0050	1	09/29/2015 11:33
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	09/29/2015 11:33
Naphthalene	ND		0.0050	1	09/29/2015 11:33
n-Propyl benzene	ND		0.0050	1	09/29/2015 11:33
Styrene	ND		0.0050	1	09/29/2015 11:33
1,1,1,2-Tetrachloroethane	ND		0.0050	1	09/29/2015 11:33
1,1,2,2-Tetrachloroethane	ND		0.0050	1	09/29/2015 11:33
Tetrachloroethene	ND		0.0050	1	09/29/2015 11:33
Toluene	ND		0.0050	1	09/29/2015 11:33
1,2,3-Trichlorobenzene	ND		0.0050	1	09/29/2015 11:33
1,2,4-Trichlorobenzene	ND		0.0050	1	09/29/2015 11:33
1,1,1-Trichloroethane	ND		0.0050	1	09/29/2015 11:33
1,1,2-Trichloroethane	ND		0.0050	1	09/29/2015 11:33
Trichloroethene	ND		0.0050	1	09/29/2015 11:33
Trichlorofluoromethane	ND		0.0050	1	09/29/2015 11:33
1,2,3-Trichloropropane	ND		0.0050	1	09/29/2015 11:33
1,2,4-Trimethylbenzene	ND		0.0050	1	09/29/2015 11:33
1,3,5-Trimethylbenzene	ND		0.0050	1	09/29/2015 11:33
Vinyl Chloride	ND		0.0050	1	09/29/2015 11:33
Xylenes, Total	ND		0.0050	1	09/29/2015 11:33

# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID
S-18-ECB5	1509A61-019A Soil	09/24/2015 15:14 GC16	110781
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
<u>Surrogates</u>	REC (%)	<u>Limits</u>	
Dibromofluoromethane	93	70-130	09/29/2015 11:33
Toluene-d8	98	70-130	09/29/2015 11:33
4-BFB	105	70-130	09/29/2015 11:33
Benzene-d6	96	60-140	09/29/2015 11:33
Ethylbenzene-d10	106	60-140	09/29/2015 11:33
1,2-DCB-d4	74	60-140	09/29/2015 11:33



**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**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 Da	te Collected Instrumen	t Batch ID
S-13-ECB6	1509A61-020A	Soil 09/2	24/2015 17:38 GC16	110781
<u>Analytes</u>	Result	<u>RL</u>	<u>DF</u>	Date Analyzed
Acetone	ND	0.10	0 1	09/30/2015 00:32
tert-Amyl methyl ether (TAME)	ND	0.00	050 1	09/30/2015 00:32
Benzene	ND	0.00	050 1	09/30/2015 00:32
Bromobenzene	ND	0.00	050 1	09/30/2015 00:32
Bromochloromethane	ND	0.00	050 1	09/30/2015 00:32
Bromodichloromethane	ND	0.00	050 1	09/30/2015 00:32
Bromoform	ND	0.00	050 1	09/30/2015 00:32
Bromomethane	ND	0.00	050 1	09/30/2015 00:32
2-Butanone (MEK)	ND	0.02	20 1	09/30/2015 00:32
t-Butyl alcohol (TBA)	ND	0.0	50 1	09/30/2015 00:32
n-Butyl benzene	ND	0.00	050 1	09/30/2015 00:32
sec-Butyl benzene	ND	0.00	050 1	09/30/2015 00:32
tert-Butyl benzene	ND	0.00	050 1	09/30/2015 00:32
Carbon Disulfide	ND	0.00	050 1	09/30/2015 00:32
Carbon Tetrachloride	ND	0.00	050 1	09/30/2015 00:32
Chlorobenzene	ND	0.00	050 1	09/30/2015 00:32
Chloroethane	ND	0.00	050 1	09/30/2015 00:32
Chloroform	ND	0.00	050 1	09/30/2015 00:32
Chloromethane	ND	0.00	050 1	09/30/2015 00:32
2-Chlorotoluene	ND	0.00	050 1	09/30/2015 00:32
4-Chlorotoluene	ND	0.00	050 1	09/30/2015 00:32
Dibromochloromethane	ND	0.00	050 1	09/30/2015 00:32
1,2-Dibromo-3-chloropropane	ND	0.00	040 1	09/30/2015 00:32
1,2-Dibromoethane (EDB)	ND	0.00	040 1	09/30/2015 00:32
Dibromomethane	ND	0.00	050 1	09/30/2015 00:32
1,2-Dichlorobenzene	ND	0.00	050 1	09/30/2015 00:32
1,3-Dichlorobenzene	ND	0.00	050 1	09/30/2015 00:32
1,4-Dichlorobenzene	ND	0.00	050 1	09/30/2015 00:32
Dichlorodifluoromethane	ND	0.00	050 1	09/30/2015 00:32
1,1-Dichloroethane	ND	0.00	050 1	09/30/2015 00:32
1,2-Dichloroethane (1,2-DCA)	ND	0.00	040 1	09/30/2015 00:32
1,1-Dichloroethene	ND	0.00	050 1	09/30/2015 00:32
cis-1,2-Dichloroethene	ND	0.00	050 1	09/30/2015 00:32
trans-1,2-Dichloroethene	ND	0.00	050 1	09/30/2015 00:32
1,2-Dichloropropane	ND	0.00	050 1	09/30/2015 00:32
1,3-Dichloropropane	ND	0.00	050 1	09/30/2015 00:32
2,2-Dichloropropane	ND	0.00	050 1	09/30/2015 00:32

(Cont.)

Angela Rydelius, Lab Manager

### **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID	Matrix	Date Col	llected Instrum	ent Batch ID
S-13-ECB6	1509A61-020A	Soil	09/24/201	5 17:38 GC16	110781
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
1,1-Dichloropropene	ND		0.0050	1	09/30/2015 00:32
cis-1,3-Dichloropropene	ND		0.0050	1	09/30/2015 00:32
trans-1,3-Dichloropropene	ND		0.0050	1	09/30/2015 00:32
Diisopropyl ether (DIPE)	ND		0.0050	1	09/30/2015 00:32
Ethylbenzene	ND		0.0050	1	09/30/2015 00:32
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	09/30/2015 00:32
Freon 113	ND		0.0050	1	09/30/2015 00:32
Hexachlorobutadiene	ND		0.0050	1	09/30/2015 00:32
Hexachloroethane	ND		0.0050	1	09/30/2015 00:32
2-Hexanone	ND		0.0050	1	09/30/2015 00:32
Isopropylbenzene	ND		0.0050	1	09/30/2015 00:32
4-Isopropyl toluene	ND		0.0050	1	09/30/2015 00:32
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	09/30/2015 00:32
Methylene chloride	ND		0.0050	1	09/30/2015 00:32
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	09/30/2015 00:32
Naphthalene	ND		0.0050	1	09/30/2015 00:32
n-Propyl benzene	ND		0.0050	1	09/30/2015 00:32
Styrene	ND		0.0050	1	09/30/2015 00:32
1,1,1,2-Tetrachloroethane	ND		0.0050	1	09/30/2015 00:32
1,1,2,2-Tetrachloroethane	ND		0.0050	1	09/30/2015 00:32
Tetrachloroethene	ND		0.0050	1	09/30/2015 00:32
Toluene	ND		0.0050	1	09/30/2015 00:32
1,2,3-Trichlorobenzene	ND		0.0050	1	09/30/2015 00:32
1,2,4-Trichlorobenzene	ND		0.0050	1	09/30/2015 00:32
1,1,1-Trichloroethane	ND		0.0050	1	09/30/2015 00:32
1,1,2-Trichloroethane	ND		0.0050	1	09/30/2015 00:32
Trichloroethene	ND		0.0050	1	09/30/2015 00:32
Trichlorofluoromethane	ND		0.0050	1	09/30/2015 00:32
1,2,3-Trichloropropane	ND		0.0050	1	09/30/2015 00:32
1,2,4-Trimethylbenzene	ND		0.0050	1	09/30/2015 00:32
1,3,5-Trimethylbenzene	ND		0.0050	1	09/30/2015 00:32
Vinyl Chloride	ND		0.0050	1	09/30/2015 00:32
Xylenes, Total	ND		0.0050	1	09/30/2015 00:32

# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID
S-13-ECB6	1509A61-020A Soil	09/24/2015 17:38 GC16	110781
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
<u>Surrogates</u>	REC (%)	<u>Limits</u>	
Dibromofluoromethane	89	70-130	09/30/2015 00:32
Toluene-d8	99	70-130	09/30/2015 00:32
4-BFB	106	70-130	09/30/2015 00:32
Benzene-d6	98	60-140	09/30/2015 00:32
Ethylbenzene-d10	118	60-140	09/30/2015 00:32
1,2-DCB-d4	76	60-140	09/30/2015 00:32

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**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	Date Col	lected	Instrument	nent Batch ID	
S-13-ECB11	1509A61-021A	Soil	09/24/2015	5 11:45	GC16	110782	
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>		Date Analyzed	
Acetone	ND		0.10	1		09/30/2015 01:15	
tert-Amyl methyl ether (TAME)	ND		0.0050	1		09/30/2015 01:15	
Benzene	ND		0.0050	1		09/30/2015 01:15	
Bromobenzene	ND		0.0050	1		09/30/2015 01:15	
Bromochloromethane	ND		0.0050	1		09/30/2015 01:15	
Bromodichloromethane	ND		0.0050	1		09/30/2015 01:15	
Bromoform	ND		0.0050	1		09/30/2015 01:15	
Bromomethane	ND		0.0050	1		09/30/2015 01:15	
2-Butanone (MEK)	ND		0.020	1		09/30/2015 01:15	
t-Butyl alcohol (TBA)	ND		0.050	1		09/30/2015 01:15	
n-Butyl benzene	ND		0.0050	1		09/30/2015 01:15	
sec-Butyl benzene	ND		0.0050	1		09/30/2015 01:15	
tert-Butyl benzene	ND		0.0050	1		09/30/2015 01:15	
Carbon Disulfide	ND		0.0050	1		09/30/2015 01:15	
Carbon Tetrachloride	ND		0.0050	1		09/30/2015 01:15	
Chlorobenzene	ND		0.0050	1		09/30/2015 01:15	
Chloroethane	ND		0.0050	1		09/30/2015 01:15	
Chloroform	ND		0.0050	1		09/30/2015 01:15	
Chloromethane	ND		0.0050	1		09/30/2015 01:15	
2-Chlorotoluene	ND		0.0050	1		09/30/2015 01:15	
4-Chlorotoluene	ND		0.0050	1		09/30/2015 01:15	
Dibromochloromethane	ND		0.0050	1		09/30/2015 01:15	
1,2-Dibromo-3-chloropropane	ND		0.0040	1		09/30/2015 01:15	
1,2-Dibromoethane (EDB)	ND		0.0040	1		09/30/2015 01:15	
Dibromomethane	ND		0.0050	1		09/30/2015 01:15	
1,2-Dichlorobenzene	ND		0.0050	1		09/30/2015 01:15	
1,3-Dichlorobenzene	ND		0.0050	1		09/30/2015 01:15	
1,4-Dichlorobenzene	ND		0.0050	1		09/30/2015 01:15	
Dichlorodifluoromethane	ND		0.0050	1		09/30/2015 01:15	
1,1-Dichloroethane	ND		0.0050	1		09/30/2015 01:15	
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1		09/30/2015 01:15	
1,1-Dichloroethene	ND		0.0050	1		09/30/2015 01:15	
cis-1,2-Dichloroethene	ND		0.0050	1		09/30/2015 01:15	
trans-1,2-Dichloroethene	ND		0.0050	1		09/30/2015 01:15	
1,2-Dichloropropane	ND		0.0050	1		09/30/2015 01:15	
1,3-Dichloropropane	ND		0.0050	1		09/30/2015 01:15	
2,2-Dichloropropane	ND		0.0050	1		09/30/2015 01:15	

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**Client: Essel Environmental Consulting** 

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC WorkOrder: 1509A61

**Extraction Method: SW5030B** 

**Analytical Method: SW8260B** 

Unit: mg/kg

Client ID	Lab ID	Matrix	Date Co	llected I	nstrument	Batch ID
S-13-ECB11	1509A61-021A	Soil	09/24/201	5 11:45	GC16	110782
Analytes	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
1,1-Dichloropropene	ND		0.0050	1		09/30/2015 01:15
cis-1,3-Dichloropropene	ND		0.0050	1		09/30/2015 01:15
trans-1,3-Dichloropropene	ND		0.0050	1		09/30/2015 01:15
Diisopropyl ether (DIPE)	ND		0.0050	1		09/30/2015 01:15
Ethylbenzene	ND		0.0050	1		09/30/2015 01:15
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1		09/30/2015 01:15
Freon 113	ND		0.0050	1		09/30/2015 01:15
Hexachlorobutadiene	ND		0.0050	1		09/30/2015 01:15
Hexachloroethane	ND		0.0050	1		09/30/2015 01:15
2-Hexanone	ND		0.0050	1		09/30/2015 01:15
Isopropylbenzene	ND		0.0050	1		09/30/2015 01:15
4-Isopropyl toluene	ND		0.0050	1		09/30/2015 01:15
Methyl-t-butyl ether (MTBE)	ND		0.0050	1		09/30/2015 01:15
Methylene chloride	ND		0.0050	1		09/30/2015 01:15
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1		09/30/2015 01:15
Naphthalene	ND		0.0050	1		09/30/2015 01:15
n-Propyl benzene	ND		0.0050	1		09/30/2015 01:15
Styrene	ND		0.0050	1		09/30/2015 01:15
1,1,1,2-Tetrachloroethane	ND		0.0050	1		09/30/2015 01:15
1,1,2,2-Tetrachloroethane	ND		0.0050	1		09/30/2015 01:15
Tetrachloroethene	ND		0.0050	1		09/30/2015 01:15
Toluene	ND		0.0050	1		09/30/2015 01:15
1,2,3-Trichlorobenzene	ND		0.0050	1		09/30/2015 01:15
1,2,4-Trichlorobenzene	ND		0.0050	1		09/30/2015 01:15
1,1,1-Trichloroethane	ND		0.0050	1		09/30/2015 01:15
1,1,2-Trichloroethane	ND		0.0050	1		09/30/2015 01:15
Trichloroethene	ND		0.0050	1		09/30/2015 01:15
Trichlorofluoromethane	ND		0.0050	1		09/30/2015 01:15
1,2,3-Trichloropropane	ND		0.0050	1		09/30/2015 01:15
1,2,4-Trimethylbenzene	ND		0.0050	1		09/30/2015 01:15
1,3,5-Trimethylbenzene	ND		0.0050	1		09/30/2015 01:15
Vinyl Chloride	ND		0.0050	1		09/30/2015 01:15
Xylenes, Total	ND		0.0050	1		09/30/2015 01:15

# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID
S-13-ECB11	1509A61-021A Soil	09/24/2015 11:45 GC16	110782
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
<u>Surrogates</u>	REC (%)	<u>Limits</u>	
Dibromofluoromethane	90	70-130	09/30/2015 01:15
Toluene-d8	100	70-130	09/30/2015 01:15
4-BFB	104	70-130	09/30/2015 01:15
Benzene-d6	98	60-140	09/30/2015 01:15
Ethylbenzene-d10	117	60-140	09/30/2015 01:15
1,2-DCB-d4	76	60-140	09/30/2015 01:15

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**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	Date Col	Batch ID	
S-13-ECB13	1509A61-022A	Soil	09/24/2015	5 13:14 GC18	110782
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Acetone	ND		0.10	1	09/30/2015 02:36
tert-Amyl methyl ether (TAME)	ND		0.0050	1	09/30/2015 02:36
Benzene	ND		0.0050	1	09/30/2015 02:36
Bromobenzene	ND		0.0050	1	09/30/2015 02:36
Bromochloromethane	ND		0.0050	1	09/30/2015 02:36
Bromodichloromethane	ND		0.0050	1	09/30/2015 02:36
Bromoform	ND		0.0050	1	09/30/2015 02:36
Bromomethane	ND		0.0050	1	09/30/2015 02:36
2-Butanone (MEK)	ND		0.020	1	09/30/2015 02:36
t-Butyl alcohol (TBA)	ND		0.050	1	09/30/2015 02:36
n-Butyl benzene	ND		0.0050	1	09/30/2015 02:36
sec-Butyl benzene	ND		0.0050	1	09/30/2015 02:36
tert-Butyl benzene	ND		0.0050	1	09/30/2015 02:36
Carbon Disulfide	ND		0.0050	1	09/30/2015 02:36
Carbon Tetrachloride	ND		0.0050	1	09/30/2015 02:36
Chlorobenzene	ND		0.0050	1	09/30/2015 02:36
Chloroethane	ND		0.0050	1	09/30/2015 02:36
Chloroform	ND		0.0050	1	09/30/2015 02:36
Chloromethane	ND		0.0050	1	09/30/2015 02:36
2-Chlorotoluene	ND		0.0050	1	09/30/2015 02:36
4-Chlorotoluene	ND		0.0050	1	09/30/2015 02:36
Dibromochloromethane	ND		0.0050	1	09/30/2015 02:36
1,2-Dibromo-3-chloropropane	ND		0.0040	1	09/30/2015 02:36
1,2-Dibromoethane (EDB)	ND		0.0040	1	09/30/2015 02:36
Dibromomethane	ND		0.0050	1	09/30/2015 02:36
1,2-Dichlorobenzene	ND		0.0050	1	09/30/2015 02:36
1,3-Dichlorobenzene	ND		0.0050	1	09/30/2015 02:36
1,4-Dichlorobenzene	ND		0.0050	1	09/30/2015 02:36
Dichlorodifluoromethane	ND		0.0050	1	09/30/2015 02:36
1,1-Dichloroethane	ND		0.0050	1	09/30/2015 02:36
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	09/30/2015 02:36
1,1-Dichloroethene	ND		0.0050	1	09/30/2015 02:36
cis-1,2-Dichloroethene	ND		0.0050	1	09/30/2015 02:36
trans-1,2-Dichloroethene	ND		0.0050	1	09/30/2015 02:36
1,2-Dichloropropane	ND		0.0050	1	09/30/2015 02:36
1,3-Dichloropropane	ND		0.0050	1	09/30/2015 02:36
2,2-Dichloropropane	ND		0.0050	1	09/30/2015 02:36

(Cont.)

Angela Rydelius, Lab Manager



**Client: Essel Environmental Consulting** 

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC WorkOrder: 1509A61

**Extraction Method: SW5030B** 

**Analytical Method: SW8260B** 

Unit: mg/kg

Client ID	Lab ID	Matrix	Date Co	llected Instrume	nt Batch ID
S-13-ECB13	1509A61-022A	Soil	09/24/201	5 13:14 GC18	110782
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	Date Analyzed
1,1-Dichloropropene	ND		0.0050	1	09/30/2015 02:36
cis-1,3-Dichloropropene	ND		0.0050	1	09/30/2015 02:36
trans-1,3-Dichloropropene	ND		0.0050	1	09/30/2015 02:36
Diisopropyl ether (DIPE)	ND		0.0050	1	09/30/2015 02:36
Ethylbenzene	ND		0.0050	1	09/30/2015 02:36
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	09/30/2015 02:36
Freon 113	ND		0.0050	1	09/30/2015 02:36
Hexachlorobutadiene	ND		0.0050	1	09/30/2015 02:36
Hexachloroethane	ND		0.0050	1	09/30/2015 02:36
2-Hexanone	ND		0.0050	1	09/30/2015 02:36
Isopropylbenzene	ND		0.0050	1	09/30/2015 02:36
4-Isopropyl toluene	ND		0.0050	1	09/30/2015 02:36
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	09/30/2015 02:36
Methylene chloride	ND		0.0050	1	09/30/2015 02:36
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	09/30/2015 02:36
Naphthalene	ND		0.0050	1	09/30/2015 02:36
n-Propyl benzene	ND		0.0050	1	09/30/2015 02:36
Styrene	ND		0.0050	1	09/30/2015 02:36
1,1,1,2-Tetrachloroethane	ND		0.0050	1	09/30/2015 02:36
1,1,2,2-Tetrachloroethane	ND		0.0050	1	09/30/2015 02:36
Tetrachloroethene	ND		0.0050	1	09/30/2015 02:36
Toluene	ND		0.0050	1	09/30/2015 02:36
1,2,3-Trichlorobenzene	ND		0.0050	1	09/30/2015 02:36
1,2,4-Trichlorobenzene	ND		0.0050	1	09/30/2015 02:36
1,1,1-Trichloroethane	ND		0.0050	1	09/30/2015 02:36
1,1,2-Trichloroethane	ND		0.0050	1	09/30/2015 02:36
Trichloroethene	ND		0.0050	1	09/30/2015 02:36
Trichlorofluoromethane	ND		0.0050	1	09/30/2015 02:36
1,2,3-Trichloropropane	ND		0.0050	1	09/30/2015 02:36
1,2,4-Trimethylbenzene	ND		0.0050	1	09/30/2015 02:36
1,3,5-Trimethylbenzene	ND		0.0050	1	09/30/2015 02:36
Vinyl Chloride	ND	-	0.0050	1	09/30/2015 02:36
Xylenes, Total	ND		0.0050	1	09/30/2015 02:36

# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

**WorkOrder:** 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID	
S-13-ECB13	1509A61-022A Soil	09/24/2015 13:14 GC18	110782	
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed	
Surrogates	REC (%)	<u>Limits</u>		
Dibromofluoromethane	102	70-130	09/30/2015 02:36	
Toluene-d8	87	70-130	09/30/2015 02:36	
4-BFB	92	70-130	09/30/2015 02:36	
Benzene-d6	119	60-140	09/30/2015 02:36	
Ethylbenzene-d10	120	60-140	09/30/2015 02:36	
1,2-DCB-d4	100	60-140	09/30/2015 02:36	

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**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	Date Coll	lected	Instrument	Batch ID
S-13-ECB14	1509A61-023A	Soil	09/24/2015	5 14:13	GC18	110782
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
Acetone	ND		0.10	1		09/30/2015 03:15
tert-Amyl methyl ether (TAME)	ND		0.0050	1		09/30/2015 03:15
Benzene	ND		0.0050	1		09/30/2015 03:15
Bromobenzene	ND		0.0050	1		09/30/2015 03:15
Bromochloromethane	ND		0.0050	1		09/30/2015 03:15
Bromodichloromethane	ND		0.0050	1		09/30/2015 03:15
Bromoform	ND		0.0050	1		09/30/2015 03:15
Bromomethane	ND		0.0050	1		09/30/2015 03:15
2-Butanone (MEK)	ND		0.020	1		09/30/2015 03:15
t-Butyl alcohol (TBA)	ND		0.050	1		09/30/2015 03:15
n-Butyl benzene	ND		0.0050	1		09/30/2015 03:15
sec-Butyl benzene	ND		0.0050	1		09/30/2015 03:15
tert-Butyl benzene	ND		0.0050	1		09/30/2015 03:15
Carbon Disulfide	ND		0.0050	1		09/30/2015 03:15
Carbon Tetrachloride	ND		0.0050	1		09/30/2015 03:15
Chlorobenzene	ND		0.0050	1		09/30/2015 03:15
Chloroethane	ND		0.0050	1		09/30/2015 03:15
Chloroform	ND		0.0050	1		09/30/2015 03:15
Chloromethane	ND		0.0050	1		09/30/2015 03:15
2-Chlorotoluene	ND		0.0050	1		09/30/2015 03:15
4-Chlorotoluene	ND		0.0050	1		09/30/2015 03:15
Dibromochloromethane	ND		0.0050	1		09/30/2015 03:15
1,2-Dibromo-3-chloropropane	ND		0.0040	1		09/30/2015 03:15
1,2-Dibromoethane (EDB)	ND		0.0040	1		09/30/2015 03:15
Dibromomethane	ND		0.0050	1		09/30/2015 03:15
1,2-Dichlorobenzene	ND		0.0050	1		09/30/2015 03:15
1,3-Dichlorobenzene	ND		0.0050	1		09/30/2015 03:15
1,4-Dichlorobenzene	ND		0.0050	1		09/30/2015 03:15
Dichlorodifluoromethane	ND		0.0050	1		09/30/2015 03:15
1,1-Dichloroethane	ND		0.0050	1		09/30/2015 03:15
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1		09/30/2015 03:15
1,1-Dichloroethene	ND		0.0050	1		09/30/2015 03:15
cis-1,2-Dichloroethene	ND		0.0050	1		09/30/2015 03:15
trans-1,2-Dichloroethene	ND		0.0050	1		09/30/2015 03:15
1,2-Dichloropropane	ND		0.0050	1		09/30/2015 03:15
1,3-Dichloropropane	ND		0.0050	1		09/30/2015 03:15
2,2-Dichloropropane	ND		0.0050	1		09/30/2015 03:15

(Cont.)

# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID	Matrix	Date Co	llected Instrument	Batch ID
S-13-ECB14	1509A61-023A	Soil	09/24/201	5 14:13 GC18	110782
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
1,1-Dichloropropene	ND		0.0050	1	09/30/2015 03:15
cis-1,3-Dichloropropene	ND		0.0050	1	09/30/2015 03:15
trans-1,3-Dichloropropene	ND		0.0050	1	09/30/2015 03:15
Diisopropyl ether (DIPE)	ND		0.0050	1	09/30/2015 03:15
Ethylbenzene	ND		0.0050	1	09/30/2015 03:15
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	09/30/2015 03:15
Freon 113	ND		0.0050	1	09/30/2015 03:15
Hexachlorobutadiene	ND		0.0050	1	09/30/2015 03:15
Hexachloroethane	ND		0.0050	1	09/30/2015 03:15
2-Hexanone	ND		0.0050	1	09/30/2015 03:15
Isopropylbenzene	ND		0.0050	1	09/30/2015 03:15
4-Isopropyl toluene	ND		0.0050	1	09/30/2015 03:15
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	09/30/2015 03:15
Methylene chloride	ND		0.0050	1	09/30/2015 03:15
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	09/30/2015 03:15
Naphthalene	ND		0.0050	1	09/30/2015 03:15
n-Propyl benzene	ND		0.0050	1	09/30/2015 03:15
Styrene	ND		0.0050	1	09/30/2015 03:15
1,1,1,2-Tetrachloroethane	ND		0.0050	1	09/30/2015 03:15
1,1,2,2-Tetrachloroethane	ND		0.0050	1	09/30/2015 03:15
Tetrachloroethene	ND		0.0050	1	09/30/2015 03:15
Toluene	ND		0.0050	1	09/30/2015 03:15
1,2,3-Trichlorobenzene	ND		0.0050	1	09/30/2015 03:15
1,2,4-Trichlorobenzene	ND		0.0050	1	09/30/2015 03:15
1,1,1-Trichloroethane	ND		0.0050	1	09/30/2015 03:15
1,1,2-Trichloroethane	ND		0.0050	1	09/30/2015 03:15
Trichloroethene	ND		0.0050	1	09/30/2015 03:15
Trichlorofluoromethane	ND		0.0050	1	09/30/2015 03:15
1,2,3-Trichloropropane	ND		0.0050	1	09/30/2015 03:15
1,2,4-Trimethylbenzene	ND		0.0050	1	09/30/2015 03:15
1,3,5-Trimethylbenzene	ND		0.0050	1	09/30/2015 03:15
Vinyl Chloride	ND		0.0050	1	09/30/2015 03:15
Xylenes, Total	ND		0.0050	1	09/30/2015 03:15

# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID	
S-13-ECB14	1509A61-023A Soil	09/24/2015 14:13 GC18	110782	
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed	
Surrogates	<u>REC (%)</u>	<u>Limits</u>		
Dibromofluoromethane	102	70-130	09/30/2015 03:15	
Toluene-d8	89	70-130	09/30/2015 03:15	
4-BFB	90	70-130	09/30/2015 03:15	
Benzene-d6	124	60-140	09/30/2015 03:15	
Ethylbenzene-d10	126	60-140	09/30/2015 03:15	
1,2-DCB-d4	105	60-140	09/30/2015 03:15	



**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

**Unit:** mg/kg

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

Bromobenzene         ND         0.0050         1         09/30/2015 03:53           Bromochloromethane         ND         0.0050         1         09/30/2015 03:53           Bromodichloromethane         ND         0.0050         1         09/30/2015 03:53           Bromoform         ND         0.0050         1         09/30/2015 03:53           Bromomethane         ND         0.0050         1         09/30/2015 03:53           Z-Butanone (MEK)         ND         0.020         1         09/30/2015 03:53           L-Butyl alcohol (TBA)         ND         0.050         1         09/30/2015 03:53           L-Butyl benzene         ND         0.0050         1         09/30/2015 03:53           sec-Butyl benzene         ND         0.0050         1         09/30/2015 03:53           sec-Butyl benzene         ND         0.0050         1         09/30/2015 03:53           Carbon Disulfide         ND         0.0050         1         09/30/2015 03:53           Carbon Disulfide         ND         0.0050         1         09/30/2015 03:53           Chlorothide         ND         0.0050         1         09/30/2015 03:53           Chlorothane         ND         0.0050         1	Client ID	Lab ID	Matrix	Date Coll	ected Instrun	nent Batch ID
Acetone	S-181/2-ECB14	1509A61-024A	Soil	09/24/2015	14:31 GC18	110782
tert-Amyl methyl ether (TAME)         ND         0.0050         1         09/30/2015 03:53           Benzene         ND         0.0050         1         09/30/2015 03:53           Bromoehizene         ND         0.0050         1         09/30/2015 03:53           Bromochloromethane         ND         0.0050         1         09/30/2015 03:53           Bromodichloromethane         ND         0.0050         1         09/30/2015 03:53           Bromoderhane         ND         0.0050         1         09/30/2015 03:53           Bromomethane         ND         0.0050         1         09/30/2015 03:53           2-Butanone (MEK)         ND         0.020         1         09/30/2015 03:53           1-Butyl alcohol (TBA)         ND         0.050         1         09/30/2015 03:53           1-Butyl benzene         ND         0.0050         1         09/30/2015 03:53           1er-Butyl benzene         ND         0.0050         1         09/30/2015 03:53           1er-Butyl benzene         ND         0.0050         1         09/30/2015 03:53           Carbon Disulfide         ND         0.0050         1         09/30/2015 03:53           Carbon Tetrachloride         ND         0.0050	<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Benzene         ND         0.0050         1         09/30/2015 03:53           Bromobenzene         ND         0.0050         1         09/30/2015 03:53           Bromochloromethane         ND         0.0050         1         09/30/2015 03:53           Bromochloromethane         ND         0.0050         1         09/30/2015 03:53           Bromorderm         ND         0.0050         1         09/30/2015 03:53           Bromorethane         ND         0.0050         1         09/30/2015 03:53           Bromomethane         ND         0.0050         1         09/30/2015 03:53           Bromomethane         ND         0.0050         1         09/30/2015 03:53           I-Butyl alcohol (TBA)         ND         0.050         1         09/30/2015 03:53           I-Butyl benzene         ND         0.0050         1         09/30/2015 03:53           tert-Butyl benzene         ND         0.0050         1	Acetone	ND		0.10	1	09/30/2015 03:53
Bromobenzene         ND         0.0050         1         09/30/2015 03:53           Bromochloromethane         ND         0.0050         1         09/30/2015 03:53           Bromodichloromethane         ND         0.0050         1         09/30/2015 03:53           Bromodichloromethane         ND         0.0050         1         09/30/2015 03:53           Bromomethane         ND         0.0050         1         09/30/2015 03:53           Bromomethane         ND         0.0050         1         09/30/2015 03:53           2-Butanone (MEK)         ND         0.050         1         09/30/2015 03:53           2-Butanone (MEK)         ND         0.050         1         09/30/2015 03:53           8ce-Butyl benzene         ND         0.0050         1         09/30/2015 03:53           sec-Butyl benzene         ND         0.0050         1         09/30/2015 03:53           sec-Butyl benzene         ND         0.0050         1         09/30/2015 03:53           cerbon Disultide         ND         0.0050         1         09/30/2015 03:53           Carbon Disultide         ND         0.0050         1         09/30/2015 03:53           Carbon Tetrachloride         ND         0.0050	tert-Amyl methyl ether (TAME)	ND		0.0050	1	09/30/2015 03:53
Bromochloromethane         ND         0.0050         1         09/30/2015 03:53           Bromodichloromethane         ND         0.0050         1         09/30/2015 03:53           Bromoform         ND         0.0050         1         09/30/2015 03:53           Bromomethane         ND         0.0050         1         09/30/2015 03:53           2-Butanone (MEK)         ND         0.020         1         09/30/2015 03:53           1-Butyl alcohol (TBA)         ND         0.050         1         09/30/2015 03:53           sec-Butyl benzene         ND         0.0050         1         09/30/2015 03:53           carbon Tetrachloride         ND         0.0050         1         09/30/2015 03:53           Chlorobenzene         ND         0.0050         1         09/30/2015 03:53           Chlorochtane         ND         0.0050         1         09/30/2015 03:53           Chlorothane         ND         0.0050         1	Benzene	ND		0.0050	1	09/30/2015 03:53
Bromodichloromethane         ND         0.0050         1         09/30/2015 03:53           Bromoform         ND         0.0050         1         09/30/2015 03:53           Bromomethane         ND         0.0050         1         09/30/2015 03:53           Bromomethane         ND         0.020         1         09/30/2015 03:53           t-Butyl alcohol (TBA)         ND         0.050         1         09/30/2015 03:53           t-Butyl benzene         ND         0.0050         1         09/30/2015 03:53           sec-Butyl benzene         ND         0.0050         1         09/30/2015 03:53           cerbutyl benzene         ND         0.0050         1         09/30/2015 03:53           cerbutyl benzene         ND         0.0050         1         09/30/2015 03:53           Carbon Disulfide         ND         0.0050         1         09/30/2015 03:53           Carbon Tetrachloride         ND         0.0050         1         09/30/2015 03:53           Chlorothane         ND         0.0050         1         09/30/2015 03:53           Chlorothane         ND         0.0050         1         09/30/2015 03:53           Chlorotofulene         ND         0.0050         1	Bromobenzene	ND		0.0050	1	09/30/2015 03:53
Bromoform         ND         0.0050         1         09/30/2015 03:53           Bromomethane         ND         0.0050         1         09/30/2015 03:53           2-Butanone (MEK)         ND         0.020         1         09/30/2015 03:53           1-Butyl aciohol (TEA)         ND         0.050         1         09/30/2015 03:53           n-Butyl benzene         ND         0.0050         1         09/30/2015 03:53           sec-Butyl benzene         ND         0.0050         1         09/30/2015 03:53           Carbon Disulfide         ND         0.0050         1         09/30/2015 03:53           Carbon Disulfide         ND         0.0050         1         09/30/2015 03:53           Carbon Tetrachloride         ND         0.0050         1         09/30/2015 03:53           Chlorobenzene         ND         0.0050         1         09/30/2015 03:53           Chlorothane         ND         0.0050         1         09/30/2015 03:53           Chlorothane         ND         0.0050         1         09/30/2015 03:53           Chlorothane         ND         0.0050         1         09/30/2015 03:53           Chlorotoluene         ND         0.0050         1         0	Bromochloromethane	ND		0.0050	1	09/30/2015 03:53
Bromomethane   ND	Bromodichloromethane	ND		0.0050	1	09/30/2015 03:53
2-Butanone (MEK)         ND         0.020         1         09/30/2015 03:53           t-Butyl alcohol (TBA)         ND         0.050         1         09/30/2015 03:53           n-Butyl benzene         ND         0.0050         1         09/30/2015 03:53           sec-Butyl benzene         ND         0.0050         1         09/30/2015 03:53           tert-Butyl benzene         ND         0.0050         1         09/30/2015 03:53           Carbon Disulfide         ND         0.0050         1         09/30/2015 03:53           Carbon Disulfide         ND         0.0050         1         09/30/2015 03:53           Chlorotherzene         ND         0.0050         1         09/30/2015 03:53           Chlorotherzene         ND         0.0050         1         09/30/2015 03:53           Chlorothane         ND         0.0050         1         09/30/2015 03:53           2-Chlorotoluene         ND         0.0050         1	Bromoform	ND		0.0050	1	09/30/2015 03:53
L-Butyl alcohol (TBA)         ND         0.050         1         09/30/2015 03:53           n-Butyl benzene         ND         0.0050         1         09/30/2015 03:53           sec-Butyl benzene         ND         0.0050         1         09/30/2015 03:53           Carbon Disulfide         ND         0.0050         1         09/30/2015 03:53           Carbon Disulfide         ND         0.0050         1         09/30/2015 03:53           Carbon Tetrachloride         ND         0.0050         1         09/30/2015 03:53           Chlorobenzene         ND         0.0050         1         09/30/2015 03:53           Chlorotethane         ND         0.0050         1         09/30/2015 03:53           Chlorotethane         ND         0.0050         1         09/30/2015 03:53           Chlorotethane         ND         0.0050         1         09/30/2015 03:53           Chlorotoluene         ND         0.0050         1         09/30/2015 03:53           Chlorotoluene         ND         0.0050         1         09/30/2015 03:53           4-Chiorotoluene         ND         0.0050         1         09/30/2015 03:53           1,2-Dibromo-3-chloropropane         ND         0.0050	Bromomethane	ND		0.0050	1	09/30/2015 03:53
n-Butyl benzene         ND         0.0050         1         09/30/2015 03:53           sec-Butyl benzene         ND         0.0050         1         09/30/2015 03:53           tert-Butyl benzene         ND         0.0050         1         09/30/2015 03:53           Carbon Disulfide         ND         0.0050         1         09/30/2015 03:53           Carbon Disulfide         ND         0.0050         1         09/30/2015 03:53           Chlorobenzene         ND         0.0050         1         09/30/2015 03:53           Chlorobenzene         ND         0.0050         1         09/30/2015 03:53           Chloroform         ND         0.0050         1         09/30/2015 03:53           Chloroform         ND         0.0050         1         09/30/2015 03:53           Chloroformethane         ND         0.0050         1         09/30/2015 03:53           2-Chlorotoluene         ND         0.0050         1         09/30/2015 03:53           4-Chlorotoluene         ND         0.0050         1         09/30/2015 03:53           Jibromochloromethane         ND         0.0050         1         09/30/2015 03:53           Dibromochloromethane         ND         0.0040         1 <td>2-Butanone (MEK)</td> <td>ND</td> <td></td> <td>0.020</td> <td>1</td> <td>09/30/2015 03:53</td>	2-Butanone (MEK)	ND		0.020	1	09/30/2015 03:53
sec-Butyl benzene         ND         0.0050         1         09/30/2015 03:53           tert-Butyl benzene         ND         0.0050         1         09/30/2015 03:53           Carbon Disulfide         ND         0.0050         1         09/30/2015 03:53           Carbon Tetrachloride         ND         0.0050         1         09/30/2015 03:53           Chlorobenzene         ND         0.0050         1         09/30/2015 03:53           Chlorotethane         ND         0.0050         1         09/30/2015 03:53           Chlorotethane         ND         0.0050         1         09/30/2015 03:53           Chlorotethane         ND         0.0050         1         09/30/2015 03:53           Chloroteluene         ND         0.0050         1         09/30/2015 03:53           Chlorotoluene         ND         0.0050         1         09/30/2015 03:53           4-Chlorotoluene         ND         0.0050         1         09/30/2015 03:53           1,2-Dibromoc-Bromochloromethane         ND         0.0050         1         09/30/2015 03:53           1,2-Dibromoc-S-chloropropane         ND         0.0040         1         09/30/2015 03:53           1,2-Dibromoethane (EDB)         ND         <	t-Butyl alcohol (TBA)	ND		0.050	1	09/30/2015 03:53
tert-Butyl benzene         ND         0.0050         1         09/30/2015 03:53           Carbon Disulfide         ND         0.0050         1         09/30/2015 03:53           Carbon Tetrachloride         ND         0.0050         1         09/30/2015 03:53           Chlorobenzene         ND         0.0050         1         09/30/2015 03:53           Chlorotethane         ND         0.0050         1         09/30/2015 03:53           Chloroform         ND         0.0050         1         09/30/2015 03:53           Chloroform         ND         0.0050         1         09/30/2015 03:53           Chlorotoluene         ND         0.0050         1         09/30/2015 03:53           2-Chiorotoluene         ND         0.0050         1         09/30/2015 03:53           4-Chiorotoluene         ND         0.0050         1         09/30/2015 03:53           1,2-Dibromoethane         ND         0.0050         1         09/30/2015 03:53           1,2-Dibromoe-3-chloropropane         ND         0.0040         1         09/30/2015 03:53           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 03:53           1,2-Dibromoethane         ND         0.0050	n-Butyl benzene	ND		0.0050	1	09/30/2015 03:53
Carbon Disulfide         ND         0.0050         1         09/30/2015 03:53           Carbon Tetrachloride         ND         0.0050         1         09/30/2015 03:53           Chlorobenzene         ND         0.0050         1         09/30/2015 03:53           Chloroethane         ND         0.0050         1         09/30/2015 03:53           Chloroform         ND         0.0050         1         09/30/2015 03:53           Chlorotoluene         ND         0.0050         1         09/30/2015 03:53           2-Chlorotoluene         ND         0.0050         1         09/30/2015 03:53           4-Chlorotoluene         ND         0.0050         1         09/30/2015 03:53           1,2-Dibromochloromethane         ND         0.0050         1         09/30/2015 03:53           1,2-Dibromo-3-chloropropane         ND         0.0050         1         09/30/2015 03:53           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 03:53           1,2-Dibromoethane         ND         0.0040         1         09/30/2015 03:53           1,2-Dibromoethane         ND         0.0050         1         09/30/2015 03:53           1,2-Dibrorobenzene         ND         0.0	sec-Butyl benzene	ND		0.0050	1	09/30/2015 03:53
Carbon Tetrachloride         ND         0.0050         1         09/30/2015 03:53           Chlorobenzene         ND         0.0050         1         09/30/2015 03:53           Chloroethane         ND         0.0050         1         09/30/2015 03:53           Chloroform         ND         0.0050         1         09/30/2015 03:53           Chlorotoluene         ND         0.0050         1         09/30/2015 03:53           4-Chlorotoluene         ND         0.0050         1         09/30/2015 03:53           4-Chlorotoluene         ND         0.0050         1         09/30/2015 03:53           4-Chlorotoluene         ND         0.0050         1         09/30/2015 03:53           Jibromochloromethane         ND         0.0050         1         09/30/2015 03:53           1,2-Dibromodethane         ND         0.0050         1         09/30/2015 03:53           1,2-Dichlorobenzene         ND         0.0040         1         09/30/2015 03:53           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           1,4-Dichlorobenzene         ND         0.0050	tert-Butyl benzene	ND		0.0050	1	09/30/2015 03:53
Chlorobenzene         ND         0.0050         1         09/30/2015 03:53           Chloroethane         ND         0.0050         1         09/30/2015 03:53           Chloroform         ND         0.0050         1         09/30/2015 03:53           Chlorothane         ND         0.0050         1         09/30/2015 03:53           2-Chlorotoluene         ND         0.0050         1         09/30/2015 03:53           4-Chlorotoluene         ND         0.0050         1         09/30/2015 03:53           4-Chlorotoluene         ND         0.0050         1         09/30/2015 03:53           4-Chlorotoluene         ND         0.0050         1         09/30/2015 03:53           1/2-Dibromo-3-chloropropane         ND         0.0050         1         09/30/2015 03:53           1/2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 03:53           1/2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 03:53           1/2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 03:53           1/2-Dibromo-3-chloropropane         ND         0.0050         1         09/30/2015 03:53           1/2-Dichlorobenzene         ND<	Carbon Disulfide	ND		0.0050	1	09/30/2015 03:53
Chloroethane         ND         0.0050         1         09/30/2015 03:53           Chloroform         ND         0.0050         1         09/30/2015 03:53           Chloromethane         ND         0.0050         1         09/30/2015 03:53           2-Chlorotoluene         ND         0.0050         1         09/30/2015 03:53           4-Chlorotoluene         ND         0.0050         1         09/30/2015 03:53           4-Chlorotoluene         ND         0.0050         1         09/30/2015 03:53           Dibromochloromethane         ND         0.0050         1         09/30/2015 03:53           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 03:53           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 03:53           1,2-Dibromoethane (EDB)         ND         0.0050         1         09/30/2015 03:53           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           1,1-Dichloroethane         ND	Carbon Tetrachloride	ND		0.0050	1	09/30/2015 03:53
Chloroform         ND         0.0050         1         09/30/2015 03:53           Chloromethane         ND         0.0050         1         09/30/2015 03:53           2-Chlorotoluene         ND         0.0050         1         09/30/2015 03:53           4-Chlorotoluene         ND         0.0050         1         09/30/2015 03:53           1-Chlorotoluene         ND         0.0050         1         09/30/2015 03:53           1,2-Dibromochloromethane         ND         0.0050         1         09/30/2015 03:53           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 03:53           1,2-Dibromoethane         ND         0.0050         1         09/30/2015 03:53           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           1,1-Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 03:53           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 03:53           1,2-Dichloroethane         ND	Chlorobenzene	ND		0.0050	1	09/30/2015 03:53
Chloromethane         ND         0.0050         1         09/30/2015 03:53           2-Chlorotoluene         ND         0.0050         1         09/30/2015 03:53           4-Chlorotoluene         ND         0.0050         1         09/30/2015 03:53           Dibromochloromethane         ND         0.0050         1         09/30/2015 03:53           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 03:53           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 03:53           1,2-Dibrlomoethane (EDB)         ND         0.0050         1         09/30/2015 03:53           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 03:53           1,2-Dichloroethane         ND         0.0050         1         09/30/2015 03:53           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 03:53           1,1-Dichloroethene         <	Chloroethane	ND		0.0050	1	09/30/2015 03:53
2-Chlorotoluene         ND         0.0050         1         09/30/2015 03:53           4-Chlorotoluene         ND         0.0050         1         09/30/2015 03:53           Dibromochloromethane         ND         0.0050         1         09/30/2015 03:53           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 03:53           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 03:53           1,2-Dibromoethane         ND         0.0050         1         09/30/2015 03:53           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 03:53           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 03:53           1,1-Dichloroethane         ND         0.0040         1         09/30/2015 03:53           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           cis-1,2-Dichloroethene	Chloroform	ND		0.0050	1	09/30/2015 03:53
4-Chlorotoluene         ND         0.0050         1         09/30/2015 03:53           Dibromochloromethane         ND         0.0050         1         09/30/2015 03:53           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 03:53           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 03:53           Dibromomethane         ND         0.0050         1         09/30/2015 03:53           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 03:53           1,2-Dichloroethane         ND         0.0050         1         09/30/2015 03:53           1,1-Dichloroethane         ND         0.0040         1         09/30/2015 03:53           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           trans-1,2-Dichloroethene	Chloromethane	ND		0.0050	1	09/30/2015 03:53
Dibromochloromethane         ND         0.0050         1         09/30/2015 03:53           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 03:53           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 03:53           1,2-Dibromomethane         ND         0.0050         1         09/30/2015 03:53           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 03:53           1,2-Dichloroethane (1,2-DCA)         ND         0.0050         1         09/30/2015 03:53           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           1,2-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           1,2-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           1,2-Dichloropropan	2-Chlorotoluene	ND		0.0050	1	09/30/2015 03:53
1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 03:53           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 03:53           Dibromomethane         ND         0.0050         1         09/30/2015 03:53           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 03:53           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 03:53           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/30/2015 03:53           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 03:53           1,3-Dich	4-Chlorotoluene	ND		0.0050	1	09/30/2015 03:53
1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 03:53           Dibromomethane         ND         0.0050         1         09/30/2015 03:53           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 03:53           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 03:53           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/30/2015 03:53           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 03:53           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 03:53	Dibromochloromethane	ND		0.0050	1	09/30/2015 03:53
Dibromomethane         ND         0.0050         1         09/30/2015 03:53           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 03:53           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 03:53           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/30/2015 03:53           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 03:53           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 03:53	1,2-Dibromo-3-chloropropane	ND		0.0040	1	09/30/2015 03:53
1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 03:53           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 03:53           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/30/2015 03:53           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 03:53           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 03:53	1,2-Dibromoethane (EDB)	ND		0.0040	1	09/30/2015 03:53
1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 03:53           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 03:53           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/30/2015 03:53           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 03:53           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 03:53	Dibromomethane	ND		0.0050	1	09/30/2015 03:53
1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 03:53           Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 03:53           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 03:53           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/30/2015 03:53           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 03:53           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 03:53	1,2-Dichlorobenzene	ND		0.0050	1	09/30/2015 03:53
Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 03:53           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 03:53           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/30/2015 03:53           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 03:53           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 03:53	1,3-Dichlorobenzene	ND		0.0050	1	09/30/2015 03:53
1,1-Dichloroethane       ND       0.0050       1       09/30/2015 03:53         1,2-Dichloroethane (1,2-DCA)       ND       0.0040       1       09/30/2015 03:53         1,1-Dichloroethene       ND       0.0050       1       09/30/2015 03:53         cis-1,2-Dichloroethene       ND       0.0050       1       09/30/2015 03:53         trans-1,2-Dichloroethene       ND       0.0050       1       09/30/2015 03:53         1,2-Dichloropropane       ND       0.0050       1       09/30/2015 03:53         1,3-Dichloropropane       ND       0.0050       1       09/30/2015 03:53	1,4-Dichlorobenzene	ND		0.0050	1	09/30/2015 03:53
1,2-Dichloroethane (1,2-DCA)       ND       0.0040       1       09/30/2015 03:53         1,1-Dichloroethene       ND       0.0050       1       09/30/2015 03:53         cis-1,2-Dichloroethene       ND       0.0050       1       09/30/2015 03:53         trans-1,2-Dichloroethene       ND       0.0050       1       09/30/2015 03:53         1,2-Dichloropropane       ND       0.0050       1       09/30/2015 03:53         1,3-Dichloropropane       ND       0.0050       1       09/30/2015 03:53	Dichlorodifluoromethane	ND		0.0050	1	09/30/2015 03:53
1,1-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 03:53           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 03:53	1,1-Dichloroethane	ND		0.0050	1	09/30/2015 03:53
cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 03:53           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 03:53	1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	09/30/2015 03:53
trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 03:53           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 03:53           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 03:53	1,1-Dichloroethene	ND		0.0050	1	09/30/2015 03:53
1,2-Dichloropropane         ND         0.0050         1         09/30/2015 03:53           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 03:53	cis-1,2-Dichloroethene	ND		0.0050	1	09/30/2015 03:53
1,3-Dichloropropane ND 0.0050 1 09/30/2015 03:53	trans-1,2-Dichloroethene	ND		0.0050	1	09/30/2015 03:53
	1,2-Dichloropropane	ND		0.0050	1	09/30/2015 03:53
2,2-Dichloropropane ND 0.0050 1 09/30/2015 03:53	1,3-Dichloropropane	ND		0.0050	1	09/30/2015 03:53
	2,2-Dichloropropane	ND		0.0050	1	09/30/2015 03:53

(Cont.)

# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID	Matrix	Date Col	lected Instrument	Batch ID
S-181/2-ECB14	1509A61-024A	Soil	09/24/2015	5 14:31 GC18	110782
Analytes	Result		<u>RL</u>	DF	Date Analyzed
1,1-Dichloropropene	ND		0.0050	1	09/30/2015 03:53
cis-1,3-Dichloropropene	ND		0.0050	1	09/30/2015 03:53
trans-1,3-Dichloropropene	ND		0.0050	1	09/30/2015 03:53
Diisopropyl ether (DIPE)	ND		0.0050	1	09/30/2015 03:53
Ethylbenzene	ND		0.0050	1	09/30/2015 03:53
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	09/30/2015 03:53
Freon 113	ND		0.0050	1	09/30/2015 03:53
Hexachlorobutadiene	ND		0.0050	1	09/30/2015 03:53
Hexachloroethane	ND		0.0050	1	09/30/2015 03:53
2-Hexanone	ND		0.0050	1	09/30/2015 03:53
Isopropylbenzene	ND		0.0050	1	09/30/2015 03:53
4-Isopropyl toluene	ND		0.0050	1	09/30/2015 03:53
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	09/30/2015 03:53
Methylene chloride	ND		0.0050	1	09/30/2015 03:53
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	09/30/2015 03:53
Naphthalene	ND		0.0050	1	09/30/2015 03:53
n-Propyl benzene	ND		0.0050	1	09/30/2015 03:53
Styrene	ND		0.0050	1	09/30/2015 03:53
1,1,1,2-Tetrachloroethane	ND		0.0050	1	09/30/2015 03:53
1,1,2,2-Tetrachloroethane	ND		0.0050	1	09/30/2015 03:53
Tetrachloroethene	ND		0.0050	1	09/30/2015 03:53
Toluene	ND		0.0050	1	09/30/2015 03:53
1,2,3-Trichlorobenzene	ND		0.0050	1	09/30/2015 03:53
1,2,4-Trichlorobenzene	ND		0.0050	1	09/30/2015 03:53
1,1,1-Trichloroethane	ND		0.0050	1	09/30/2015 03:53
1,1,2-Trichloroethane	ND		0.0050	1	09/30/2015 03:53
Trichloroethene	ND		0.0050	1	09/30/2015 03:53
Trichlorofluoromethane	ND		0.0050	1	09/30/2015 03:53
1,2,3-Trichloropropane	ND		0.0050	1	09/30/2015 03:53
1,2,4-Trimethylbenzene	ND		0.0050	1	09/30/2015 03:53
1,3,5-Trimethylbenzene	ND		0.0050	1	09/30/2015 03:53
Vinyl Chloride	ND		0.0050	1	09/30/2015 03:53
Xylenes, Total	ND		0.0050	1	09/30/2015 03:53

# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID
S-181/2-ECB14	1509A61-024A Soil	09/24/2015 14:31 GC18	110782
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
<u>Surrogates</u>	REC (%)	<u>Limits</u>	
Dibromofluoromethane	102	70-130	09/30/2015 03:53
Toluene-d8	89	70-130	09/30/2015 03:53
4-BFB	91	70-130	09/30/2015 03:53
Benzene-d6	123	60-140	09/30/2015 03:53
Ethylbenzene-d10	124	60-140	09/30/2015 03:53
1,2-DCB-d4	99	60-140	09/30/2015 03:53



**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B

Analytical Method: SW8260B

**Unit:** mg/kg

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

Benzene         ND         0.0050         1         09/30/2015 01:58           Bromochenzene         ND         0.0050         1         09/30/2015 01:58           Bromochloromethane         ND         0.0050         1         09/30/2015 01:58           Bromochloromethane         ND         0.0050         1         09/30/2015 01:58           Bromodrim         ND         0.0050         1         09/30/2015 01:58           Bromodrethane         ND         0.0050         1         09/30/2015 01:58           L-Butyl alcohol (TBA)         ND         0.050         1         09/30/2015 01:58           L-Butyl alcohol (TBA)         ND         0.0050         1         09/30/2015 01:58           Let-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           Let-Butyl benzene         ND         0.0050         1	Client ID	Lab ID Matrix	Date Collected Instrument	Batch ID
Acetone	S-4½-ECB7	1509A61-025A Soil	09/25/2015 11:13 GC16	110782
tert-Amyl methyl ether (TAME)         ND         0.0050         1         09/30/2015 01:58           Benzene         ND         0.0050         1         09/30/2015 01:58           Bromobenzene         ND         0.0050         1         09/30/2015 01:58           Bromochloromethane         ND         0.0050         1         09/30/2015 01:58           Bromodrichloromethane         ND         0.0050         1         09/30/2015 01:58           Bromodrim         ND         0.0050         1         09/30/2015 01:58           Bromodrim         ND         0.0050         1         09/30/2015 01:58           Bromodrimane         ND         0.0050         1         09/30/2015 01:58           Bromomethane         ND         0.0050         1         09/30/2015 01:58           2-Butanone (MEK)         ND         0.020         1         09/30/2015 01:58           2-Butanone (MEK)         ND         0.050         1         09/30/2015 01:58           1-Butyl benzene         ND         0.050         1         09/30/2015 01:58           1-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           1-Butyl benzene         ND         0.0050         1         <	Analytes	Result	<u>RL</u> <u>DF</u>	Date Analyzed
Benzene         ND         0.0050         1         09/30/2015 01:58           Bromochenzene         ND         0.0050         1         09/30/2015 01:58           Bromochloromethane         ND         0.0050         1         09/30/2015 01:58           Bromochloromethane         ND         0.0050         1         09/30/2015 01:58           Bromodrim         ND         0.0050         1         09/30/2015 01:58           Bromodrethane         ND         0.0050         1         09/30/2015 01:58           L-Butyl alcohol (TBA)         ND         0.050         1         09/30/2015 01:58           L-Butyl alcohol (TBA)         ND         0.0050         1         09/30/2015 01:58           Let-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           Let-Butyl benzene         ND         0.0050         1	Acetone	ND	0.10 1	09/30/2015 01:58
Bromobenzene         ND         0.0050         1         09/30/2015 01:58           Bromochloromethane         ND         0.0050         1         09/30/2015 01:58           Bromochloromethane         ND         0.0050         1         09/30/2015 01:58           Bromodichloromethane         ND         0.0050         1         09/30/2015 01:58           Bromomethane         ND         0.0050         1         09/30/2015 01:58           2-Butanone (MEK)         ND         0.020         1         09/30/2015 01:58           1-Butyl benzene         ND         0.050         1         09/30/2015 01:58           1-Butyl benzene         ND         0.0050         1 <td>tert-Amyl methyl ether (TAME)</td> <td>ND</td> <td>0.0050 1</td> <td>09/30/2015 01:58</td>	tert-Amyl methyl ether (TAME)	ND	0.0050 1	09/30/2015 01:58
Bromochloromethane         ND         0.0050         1         09/30/2015 01:58           Bromodichloromethane         ND         0.0050         1         09/30/2015 01:58           Bromoform         ND         0.0050         1         09/30/2015 01:58           Bromomethane         ND         0.0050         1         09/30/2015 01:58           2-Butanone (MEK)         ND         0.050         1         09/30/2015 01:58           1-Butyl alcohol (TBA)         ND         0.050         1         09/30/2015 01:58           1-Butyl alcohol (TBA)         ND         0.0050         1         09/30/2015 01:58           1-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           1 sec-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           2-Butan Tetrachloride         ND         0.0050         1         09/30/2015 01:58           Carbon Disulfide         ND         0.0050         1         09/30/2015 01:58           Carbon Disulfide         ND         0.0050         1         09/30/2015 01:58           Carbon Disulfide         ND         0.0050         1         09/30/2015 01:58           Carbon Tetrachloride         ND         0.005	Benzene	ND	0.0050 1	09/30/2015 01:58
Bromodichloromethane         ND         0.0050         1         09/30/2015 01:58           Bromoform         ND         0.0050         1         09/30/2015 01:58           Bromomethane         ND         0.0050         1         09/30/2015 01:58           Bromomethane         ND         0.020         1         09/30/2015 01:58           L-Butyl alcohol (TBA)         ND         0.050         1         09/30/2015 01:58           L-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           ser-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           ser-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           carbon Disulfide         ND         0.0050         1         09/30/2015 01:58           Carbon Disulfide         ND         0.0050         1         09/30/2015 01:58           Carbon Tétrachloride         ND         0.0050         1         09/30/2015 01:58           Carbon Tétrachloride         ND         0.0050         1         09/30/2015 01:58           Chlorothane         ND         0.0050         1         09/30/2015 01:58           Chlorothane         ND         0.0050         1 <td>Bromobenzene</td> <td>ND</td> <td>0.0050 1</td> <td>09/30/2015 01:58</td>	Bromobenzene	ND	0.0050 1	09/30/2015 01:58
Bromoform         ND         0.0050         1         09/30/2015 01:58           Brommethane         ND         0.0050         1         09/30/2015 01:58           2-Butanone (MEK)         ND         0.020         1         09/30/2015 01:58           Ebutyl chool (TBA)         ND         0.050         1         09/30/2015 01:58           Butyl benzene         ND         0.0050         1         09/30/2015 01:58           sec-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           Carbon Disulfide         ND         0.0050         1         09/30/2015 01:58           Carbon Disulfide         ND         0.0050         1         09/30/2015 01:58           Carbon Tetrachloride         ND         0.0050         1         09/30/2015 01:58           Chlorobenzene         ND         0.0050         1         09/30/2015 01:58           Chlorothane         ND         0.0050         1         09/30/2015 01:58           Chlorothane         ND         0.0050         1         09/30/2015 01:58           Chlorothane         ND         0.0050         1         09/30/2015 01:58           Chlorotothane         ND         0.0050         1         09/30/2	Bromochloromethane	ND	0.0050 1	09/30/2015 01:58
Bromomethane   ND	Bromodichloromethane	ND	0.0050 1	09/30/2015 01:58
2-Butanone (MEK)         ND         0.020         1         09/30/2015 01:58           L-Butyl alcohol (TBA)         ND         0.050         1         09/30/2015 01:58           n-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           sec-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           tert-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           Carbon Disulfide         ND         0.0050         1         09/30/2015 01:58           Carbon Disulfide         ND         0.0050         1         09/30/2015 01:58           Chlorothere         ND         0.0050         1         09/30/2015 01:58           Chlorothane         ND         0.0050         1         09/30/2015 01:58           Chlorothane         ND         0.0050         1         09/30/2015 01:58           Chlorothane         ND         0.0050         1         09/30/2015 01:58           Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           Dibromochloromethane         ND         0.0050         1	Bromoform	ND	0.0050 1	09/30/2015 01:58
t-Burly lanchol (TBA) ND 0.050 1 09/30/2015 01:58 sec-Burly benzene ND 0.0050 1 09/30/2015 01:58 sec-Burly benzene ND 0.0050 1 09/30/2015 01:58 sec-Burly benzene ND 0.0050 1 09/30/2015 01:58 Carbon Disulfide ND 0.0050 1 09/30/2015 01:58 Carbon Disulfide ND 0.0050 1 09/30/2015 01:58 Carbon Tetrachloride ND 0.0050 1 09/30/2015 01:58 Chlorobenzene ND 0.0050 1 09/30/2015 01:58 Chlorotethane ND 0.0050 1 09/30/2015 01:58 Chlorototluene ND 0.0050 1 09/30/2015 01:58 Chlorototluene ND 0.0050 1 09/30/2015 01:58 C-Chlorototluene ND 0.0050 1 0	Bromomethane	ND	0.0050 1	09/30/2015 01:58
n-Butyl benzene ND 0.0050 1 09/30/2015 01:58 sec-Butyl benzene ND 0.0050 1 09/30/2015 01:58 tert-Butyl benzene ND 0.0050 1 09/30/2015 01:58 Carbon Disulfide ND 0.0050 1 09/30/2015 01:58 Carbon Disulfide ND 0.0050 1 09/30/2015 01:58 Chlorobenzene ND 0.0050 1 09/30/2015 01:58 Chlorobenzene ND 0.0050 1 09/30/2015 01:58 Chlorotethane (EDB) ND 0.0050 1 09/30/2015 01:58 Chlorotethane ND 0.0050 1 09/30/2015 01:58 Ch	2-Butanone (MEK)	ND	0.020 1	09/30/2015 01:58
sec-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           tert-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           Carbon Disulfide         ND         0.0050         1         09/30/2015 01:58           Carbon Tetrachloride         ND         0.0050         1         09/30/2015 01:58           Chlorobenzene         ND         0.0050         1         09/30/2015 01:58           Chlorothane         ND         0.0050         1         09/30/2015 01:58           Chlorothane         ND         0.0050         1         09/30/2015 01:58           Chlorothuene         ND         0.0050         1         09/30/2015 01:58           Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           4-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           4-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           1,2-Dibromochloromethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dibromochlane (EDB)         ND         0.0040         1         09/30/2015 01:58           1,2-Dibromoethane         ND         0.0050	t-Butyl alcohol (TBA)	ND	0.050 1	09/30/2015 01:58
tert-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           Carbon Disulfide         ND         0.0050         1         09/30/2015 01:58           Carbon Tetrachloride         ND         0.0050         1         09/30/2015 01:58           Chlorobenzene         ND         0.0050         1         09/30/2015 01:58           Chlorofethane         ND         0.0050         1         09/30/2015 01:58           Chloroform         ND         0.0050         1         09/30/2015 01:58           Chloroform         ND         0.0050         1         09/30/2015 01:58           Chlorodulene         ND         0.0050         1         09/30/2015 01:58           2-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           2-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           Dibromochloromethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 01:58           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 01:58           1,2-Dichlorobenzene         ND         0.0050	n-Butyl benzene	ND	0.0050 1	09/30/2015 01:58
Carbon Disulfide         ND         0.0050         1         09/30/2015 01:58           Carbon Tetrachloride         ND         0.0050         1         09/30/2015 01:58           Chlorobenzene         ND         0.0050         1         09/30/2015 01:58           Chloroethane         ND         0.0050         1         09/30/2015 01:58           Chloroform         ND         0.0050         1         09/30/2015 01:58           Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           4-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           4-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           4-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           1,2-Dibromochloromethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dibromochloropropane         ND         0.0040         1         09/30/2015 01:58           1,2-Dibromomethane         ND         0.0040         1         09/30/2015 01:58           1,2-Dibromomethane         ND         0.0050	sec-Butyl benzene	ND	0.0050 1	09/30/2015 01:58
Carbon Tetrachloride         ND         0.0050         1         09/30/2015 01:58           Chlorobenzene         ND         0.0050         1         09/30/2015 01:58           Chloroethane         ND         0.0050         1         09/30/2015 01:58           Chloroform         ND         0.0050         1         09/30/2015 01:58           Chloromethane         ND         0.0050         1         09/30/2015 01:58           2-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           2-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           4-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           Dibromochloromethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 01:58           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 01:58           1,2-Dibromoethane         ND         0.0050         1         09/30/2015 01:58           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichlorobenzene         ND         0.005	tert-Butyl benzene	ND	0.0050 1	09/30/2015 01:58
Chlorobenzene         ND         0.0050         1         09/30/2015 01:58           Chloroethane         ND         0.0050         1         09/30/2015 01:58           Chloroform         ND         0.0050         1         09/30/2015 01:58           Chloromethane         ND         0.0050         1         09/30/2015 01:58           2-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           4-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           4-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           Dibromochloromethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 01:58           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 01:58           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichloroethane         ND         0.005	Carbon Disulfide	ND	0.0050 1	09/30/2015 01:58
Chloroethane         ND         0.0050         1         09/30/2015 01:58           Chloroform         ND         0.0050         1         09/30/2015 01:58           Chloromethane         ND         0.0050         1         09/30/2015 01:58           2-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           4-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           Dibromochloromethane         ND         0.0050         1         09/30/2015 01:58           Dibromoc-3-chloropropane         ND         0.0040         1         09/30/2015 01:58           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 01:58           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 01:58           1,2-Dibrlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND	Carbon Tetrachloride	ND	0.0050 1	09/30/2015 01:58
Chloroform         ND         0.0050         1         09/30/2015 01:58           Chloromethane         ND         0.0050         1         09/30/2015 01:58           2-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           4-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           4-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           Dibromochloromethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 01:58           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 01:58           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,1-Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 01:58           1,1-Dichlorodethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloroethene         ND </td <td>Chlorobenzene</td> <td>ND</td> <td>0.0050 1</td> <td>09/30/2015 01:58</td>	Chlorobenzene	ND	0.0050 1	09/30/2015 01:58
Chloromethane         ND         0.0050         1         09/30/2015 01:58           2-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           4-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           Dibromochloromethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 01:58           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 01:58           1,2-Dibromoethane (EDB)         ND         0.0050         1         09/30/2015 01:58           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloroethene <t< td=""><td>Chloroethane</td><td>ND</td><td>0.0050 1</td><td>09/30/2015 01:58</td></t<>	Chloroethane	ND	0.0050 1	09/30/2015 01:58
2-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           4-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           Dibromochloromethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 01:58           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 01:58           1,2-Dibromoethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloroethene <t< td=""><td>Chloroform</td><td>ND</td><td>0.0050 1</td><td>09/30/2015 01:58</td></t<>	Chloroform	ND	0.0050 1	09/30/2015 01:58
4-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           Dibromochloromethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 01:58           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 01:58           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloroethane (1,2-DCA)         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           trans-1,2-Dichlo	Chloromethane	ND	0.0050 1	09/30/2015 01:58
Dibromochloromethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 01:58           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 01:58           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/30/2015 01:58           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           1,2-Dic	2-Chlorotoluene	ND	0.0050 1	09/30/2015 01:58
1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 01:58           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 01:58           Dibromomethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/30/2015 01:58           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           1,2	4-Chlorotoluene	ND	0.0050 1	09/30/2015 01:58
1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 01:58           Dibromomethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/30/2015 01:58           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           trans-1,2-Dichloroptopane         ND         0.0050         1         09/30/2015 01:58           1,3-Dichloroptopane         ND         0.0050         1         09/30/2015 01:58	Dibromochloromethane	ND	0.0050 1	09/30/2015 01:58
Dibromomethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/30/2015 01:58           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 01:58           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 01:58	1,2-Dibromo-3-chloropropane	ND	0.0040 1	09/30/2015 01:58
1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/30/2015 01:58           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 01:58           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 01:58	1,2-Dibromoethane (EDB)	ND	0.0040 1	09/30/2015 01:58
1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/30/2015 01:58           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 01:58           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 01:58	Dibromomethane	ND	0.0050 1	09/30/2015 01:58
1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/30/2015 01:58           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 01:58           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 01:58	1,2-Dichlorobenzene	ND	0.0050 1	09/30/2015 01:58
Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/30/2015 01:58           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 01:58           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 01:58	1,3-Dichlorobenzene	ND	0.0050 1	09/30/2015 01:58
1,1-Dichloroethane       ND       0.0050       1       09/30/2015 01:58         1,2-Dichloroethane (1,2-DCA)       ND       0.0040       1       09/30/2015 01:58         1,1-Dichloroethene       ND       0.0050       1       09/30/2015 01:58         cis-1,2-Dichloroethene       ND       0.0050       1       09/30/2015 01:58         trans-1,2-Dichloroethene       ND       0.0050       1       09/30/2015 01:58         1,2-Dichloropropane       ND       0.0050       1       09/30/2015 01:58         1,3-Dichloropropane       ND       0.0050       1       09/30/2015 01:58	1,4-Dichlorobenzene	ND	0.0050 1	09/30/2015 01:58
1,2-Dichloroethane (1,2-DCA)       ND       0.0040       1       09/30/2015 01:58         1,1-Dichloroethene       ND       0.0050       1       09/30/2015 01:58         cis-1,2-Dichloroethene       ND       0.0050       1       09/30/2015 01:58         trans-1,2-Dichloroethene       ND       0.0050       1       09/30/2015 01:58         1,2-Dichloropropane       ND       0.0050       1       09/30/2015 01:58         1,3-Dichloropropane       ND       0.0050       1       09/30/2015 01:58	Dichlorodifluoromethane	ND	0.0050 1	09/30/2015 01:58
1,1-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 01:58           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 01:58	1,1-Dichloroethane	ND	0.0050 1	09/30/2015 01:58
1,1-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 01:58           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 01:58	1,2-Dichloroethane (1,2-DCA)	ND	0.0040 1	09/30/2015 01:58
trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 01:58           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 01:58	1,1-Dichloroethene	ND	0.0050 1	09/30/2015 01:58
1,2-Dichloropropane         ND         0.0050         1         09/30/2015 01:58           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 01:58	cis-1,2-Dichloroethene	ND	0.0050 1	09/30/2015 01:58
1,3-Dichloropropane         ND         0.0050         1         09/30/2015 01:58	trans-1,2-Dichloroethene	ND	0.0050 1	09/30/2015 01:58
	1,2-Dichloropropane	ND	0.0050 1	09/30/2015 01:58
2,2-Dichloropropane         ND         0.0050         1         09/30/2015 01:58	1,3-Dichloropropane	ND	0.0050 1	09/30/2015 01:58
	2,2-Dichloropropane	ND	0.0050 1	09/30/2015 01:58

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# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

**WorkOrder:** 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID	Matrix	Date Co	llected Instrument	Batch ID
S-41/2-ECB7	1509A61-025A	Soil	09/25/201	5 11:13 GC16	110782
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
1,1-Dichloropropene	ND		0.0050	1	09/30/2015 01:58
cis-1,3-Dichloropropene	ND		0.0050	1	09/30/2015 01:58
trans-1,3-Dichloropropene	ND		0.0050	1	09/30/2015 01:58
Diisopropyl ether (DIPE)	ND		0.0050	1	09/30/2015 01:58
Ethylbenzene	ND		0.0050	1	09/30/2015 01:58
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	09/30/2015 01:58
Freon 113	ND		0.0050	1	09/30/2015 01:58
Hexachlorobutadiene	ND		0.0050	1	09/30/2015 01:58
Hexachloroethane	ND		0.0050	1	09/30/2015 01:58
2-Hexanone	ND		0.0050	1	09/30/2015 01:58
Isopropylbenzene	ND		0.0050	1	09/30/2015 01:58
4-Isopropyl toluene	ND		0.0050	1	09/30/2015 01:58
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	09/30/2015 01:58
Methylene chloride	ND		0.0050	1	09/30/2015 01:58
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	09/30/2015 01:58
Naphthalene	ND		0.0050	1	09/30/2015 01:58
n-Propyl benzene	ND		0.0050	1	09/30/2015 01:58
Styrene	ND		0.0050	1	09/30/2015 01:58
1,1,1,2-Tetrachloroethane	ND		0.0050	1	09/30/2015 01:58
1,1,2,2-Tetrachloroethane	ND		0.0050	1	09/30/2015 01:58
Tetrachloroethene	ND		0.0050	1	09/30/2015 01:58
Toluene	ND		0.0050	1	09/30/2015 01:58
1,2,3-Trichlorobenzene	ND		0.0050	1	09/30/2015 01:58
1,2,4-Trichlorobenzene	ND		0.0050	1	09/30/2015 01:58
1,1,1-Trichloroethane	ND		0.0050	1	09/30/2015 01:58
1,1,2-Trichloroethane	ND		0.0050	1	09/30/2015 01:58
Trichloroethene	ND		0.0050	1	09/30/2015 01:58
Trichlorofluoromethane	ND		0.0050	1	09/30/2015 01:58
1,2,3-Trichloropropane	ND		0.0050	1	09/30/2015 01:58
1,2,4-Trimethylbenzene	ND		0.0050	1	09/30/2015 01:58
1,3,5-Trimethylbenzene	ND		0.0050	1	09/30/2015 01:58
Vinyl Chloride	ND		0.0050	1	09/30/2015 01:58
Xylenes, Total	ND		0.0050	1	09/30/2015 01:58

# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID	
S-41/2-ECB7	1509A61-025A Soil	09/25/2015 11:13 GC16	110782	
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed	
<u>Surrogates</u>	REC (%)	<u>Limits</u>		
Dibromofluoromethane	90	70-130	09/30/2015 01:58	
Toluene-d8	100	70-130	09/30/2015 01:58	
4-BFB	102	70-130	09/30/2015 01:58	
Benzene-d6	100	60-140	09/30/2015 01:58	
Ethylbenzene-d10	118	60-140	09/30/2015 01:58	
1,2-DCB-d4	78	60-140	09/30/2015 01:58	



**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**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	Date Col	lected	Instrument	Batch ID
S-91/2-ECB7	1509A61-026A	Soil	09/25/201	5 11:18	GC18	110782
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
Acetone	ND		0.10	1		09/30/2015 00:39
tert-Amyl methyl ether (TAME)	ND		0.0050	1		09/30/2015 00:39
Benzene	ND		0.0050	1		09/30/2015 00:39
Bromobenzene	ND		0.0050	1		09/30/2015 00:39
Bromochloromethane	ND		0.0050	1		09/30/2015 00:39
Bromodichloromethane	ND		0.0050	1		09/30/2015 00:39
Bromoform	ND		0.0050	1		09/30/2015 00:39
Bromomethane	ND		0.0050	1		09/30/2015 00:39
2-Butanone (MEK)	ND		0.020	1		09/30/2015 00:39
t-Butyl alcohol (TBA)	ND		0.050	1		09/30/2015 00:39
n-Butyl benzene	ND		0.0050	1		09/30/2015 00:39
sec-Butyl benzene	ND		0.0050	1		09/30/2015 00:39
tert-Butyl benzene	ND		0.0050	1		09/30/2015 00:39
Carbon Disulfide	ND		0.0050	1		09/30/2015 00:39
Carbon Tetrachloride	ND		0.0050	1		09/30/2015 00:39
Chlorobenzene	ND		0.0050	1		09/30/2015 00:39
Chloroethane	ND		0.0050	1		09/30/2015 00:39
Chloroform	ND		0.0050	1		09/30/2015 00:39
Chloromethane	ND		0.0050	1		09/30/2015 00:39
2-Chlorotoluene	ND		0.0050	1		09/30/2015 00:39
4-Chlorotoluene	ND		0.0050	1		09/30/2015 00:39
Dibromochloromethane	ND		0.0050	1		09/30/2015 00:39
1,2-Dibromo-3-chloropropane	ND		0.0040	1		09/30/2015 00:39
1,2-Dibromoethane (EDB)	ND		0.0040	1		09/30/2015 00:39
Dibromomethane	ND		0.0050	1		09/30/2015 00:39
1,2-Dichlorobenzene	ND		0.0050	1		09/30/2015 00:39
1,3-Dichlorobenzene	ND		0.0050	1		09/30/2015 00:39
1,4-Dichlorobenzene	ND		0.0050	1		09/30/2015 00:39
Dichlorodifluoromethane	ND		0.0050	1		09/30/2015 00:39
1,1-Dichloroethane	ND		0.0050	1		09/30/2015 00:39
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1		09/30/2015 00:39
1,1-Dichloroethene	ND		0.0050	1		09/30/2015 00:39
cis-1,2-Dichloroethene	ND		0.0050	1		09/30/2015 00:39
trans-1,2-Dichloroethene	ND		0.0050	1		09/30/2015 00:39
1,2-Dichloropropane	ND		0.0050	1		09/30/2015 00:39
1,3-Dichloropropane	ND		0.0050	1		09/30/2015 00:39
2,2-Dichloropropane	ND		0.0050	1		09/30/2015 00:39
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### **Analytical Report**

**Client: Essel Environmental Consulting** 

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC WorkOrder: 1509A61

**Extraction Method: SW5030B Analytical Method: SW8260B** 

Unit: mg/kg

Client ID	Lab ID	Matrix	Date Col	llected Instrumer	nt Batch ID
S-91/2-ECB7	1509A61-026A	Soil	09/25/201	5 11:18 GC18	110782
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
1,1-Dichloropropene	ND		0.0050	1	09/30/2015 00:39
cis-1,3-Dichloropropene	ND		0.0050	1	09/30/2015 00:39
trans-1,3-Dichloropropene	ND		0.0050	1	09/30/2015 00:39
Diisopropyl ether (DIPE)	ND		0.0050	1	09/30/2015 00:39
Ethylbenzene	ND		0.0050	1	09/30/2015 00:39
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	09/30/2015 00:39
Freon 113	ND		0.0050	1	09/30/2015 00:39
Hexachlorobutadiene	ND		0.0050	1	09/30/2015 00:39
Hexachloroethane	ND		0.0050	1	09/30/2015 00:39
2-Hexanone	ND		0.0050	1	09/30/2015 00:39
Isopropylbenzene	ND		0.0050	1	09/30/2015 00:39
4-Isopropyl toluene	ND		0.0050	1	09/30/2015 00:39
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	09/30/2015 00:39
Methylene chloride	ND		0.0050	1	09/30/2015 00:39
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	09/30/2015 00:39
Naphthalene	ND		0.0050	1	09/30/2015 00:39
n-Propyl benzene	ND		0.0050	1	09/30/2015 00:39
Styrene	ND		0.0050	1	09/30/2015 00:39
1,1,1,2-Tetrachloroethane	ND		0.0050	1	09/30/2015 00:39
1,1,2,2-Tetrachloroethane	ND		0.0050	1	09/30/2015 00:39
Tetrachloroethene	ND		0.0050	1	09/30/2015 00:39
Toluene	ND		0.0050	1	09/30/2015 00:39
1,2,3-Trichlorobenzene	ND		0.0050	1	09/30/2015 00:39
1,2,4-Trichlorobenzene	ND		0.0050	1	09/30/2015 00:39
1,1,1-Trichloroethane	ND		0.0050	1	09/30/2015 00:39
1,1,2-Trichloroethane	ND		0.0050	1	09/30/2015 00:39
Trichloroethene	ND		0.0050	1	09/30/2015 00:39
Trichlorofluoromethane	ND		0.0050	1	09/30/2015 00:39
1,2,3-Trichloropropane	ND		0.0050	1	09/30/2015 00:39
1,2,4-Trimethylbenzene	ND		0.0050	1	09/30/2015 00:39
1,3,5-Trimethylbenzene	ND		0.0050	1	09/30/2015 00:39
Vinyl Chloride	ND		0.0050	1	09/30/2015 00:39
Xylenes, Total	ND		0.0050	1	09/30/2015 00:39

# **Analytical Report**

**Client: Essel Environmental Consulting** 

**Date Prepared:** 9/28/15

**Date Received:** 9/25/15 19:30

**Project:** 15166; EBALDC WorkOrder: 1509A61

**Extraction Method: SW5030B** 

**Analytical Method: SW8260B** 

Unit: mg/kg

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID
S-91/2-ECB7	1509A61-026A Soil	09/25/2015 11:18 GC18	110782
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
<u>Surrogates</u>	REC (%)	<u>Limits</u>	
Dibromofluoromethane	102	70-130	09/30/2015 00:39
Toluene-d8	88	70-130	09/30/2015 00:39
4-BFB	88	70-130	09/30/2015 00:39
Benzene-d6	123	60-140	09/30/2015 00:39
Ethylbenzene-d10	125	60-140	09/30/2015 00:39
1,2-DCB-d4	104	60-140	09/30/2015 00:39



**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**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	Date Coll	lected	Instrument	Batch ID
S-13-ECB8	1509A61-027A	Soil	09/25/2015	08:06	GC18	110782
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
Acetone	ND		0.10	1		09/30/2015 01:19
tert-Amyl methyl ether (TAME)	ND		0.0050	1		09/30/2015 01:19
Benzene	ND		0.0050	1		09/30/2015 01:19
Bromobenzene	ND		0.0050	1		09/30/2015 01:19
Bromochloromethane	ND		0.0050	1		09/30/2015 01:19
Bromodichloromethane	ND		0.0050	1		09/30/2015 01:19
Bromoform	ND		0.0050	1		09/30/2015 01:19
Bromomethane	ND		0.0050	1		09/30/2015 01:19
2-Butanone (MEK)	ND		0.020	1		09/30/2015 01:19
t-Butyl alcohol (TBA)	ND		0.050	1		09/30/2015 01:19
n-Butyl benzene	ND		0.0050	1		09/30/2015 01:19
sec-Butyl benzene	ND		0.0050	1		09/30/2015 01:19
tert-Butyl benzene	ND		0.0050	1		09/30/2015 01:19
Carbon Disulfide	ND		0.0050	1		09/30/2015 01:19
Carbon Tetrachloride	ND		0.0050	1		09/30/2015 01:19
Chlorobenzene	ND		0.0050	1		09/30/2015 01:19
Chloroethane	ND		0.0050	1		09/30/2015 01:19
Chloroform	ND		0.0050	1		09/30/2015 01:19
Chloromethane	ND		0.0050	1		09/30/2015 01:19
2-Chlorotoluene	ND		0.0050	1		09/30/2015 01:19
4-Chlorotoluene	ND		0.0050	1		09/30/2015 01:19
Dibromochloromethane	ND		0.0050	1		09/30/2015 01:19
1,2-Dibromo-3-chloropropane	ND		0.0040	1		09/30/2015 01:19
1,2-Dibromoethane (EDB)	ND		0.0040	1		09/30/2015 01:19
Dibromomethane	ND		0.0050	1		09/30/2015 01:19
1,2-Dichlorobenzene	ND		0.0050	1		09/30/2015 01:19
1,3-Dichlorobenzene	ND		0.0050	1		09/30/2015 01:19
1,4-Dichlorobenzene	ND		0.0050	1		09/30/2015 01:19
Dichlorodifluoromethane	ND		0.0050	1		09/30/2015 01:19
1,1-Dichloroethane	ND		0.0050	1		09/30/2015 01:19
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1		09/30/2015 01:19
1,1-Dichloroethene	ND		0.0050	1		09/30/2015 01:19
cis-1,2-Dichloroethene	ND		0.0050	1		09/30/2015 01:19
trans-1,2-Dichloroethene	ND		0.0050	1		09/30/2015 01:19
1,2-Dichloropropane	ND		0.0050	1		09/30/2015 01:19
1,3-Dichloropropane	ND		0.0050	1		09/30/2015 01:19
2,2-Dichloropropane	ND		0.0050	1		09/30/2015 01:19

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**Client: Essel Environmental Consulting** 

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC WorkOrder: 1509A61

**Extraction Method: SW5030B Analytical Method: SW8260B** 

Unit: mg/kg

Client ID	Lab ID	Matrix	Date Col	llected Instrument	Batch ID
S-13-ECB8	1509A61-027A	Soil	09/25/201	5 08:06 GC18	110782
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
1,1-Dichloropropene	ND		0.0050	1	09/30/2015 01:19
cis-1,3-Dichloropropene	ND		0.0050	1	09/30/2015 01:19
trans-1,3-Dichloropropene	ND		0.0050	1	09/30/2015 01:19
Diisopropyl ether (DIPE)	ND		0.0050	1	09/30/2015 01:19
Ethylbenzene	ND		0.0050	1	09/30/2015 01:19
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	09/30/2015 01:19
Freon 113	ND		0.0050	1	09/30/2015 01:19
Hexachlorobutadiene	ND		0.0050	1	09/30/2015 01:19
Hexachloroethane	ND		0.0050	1	09/30/2015 01:19
2-Hexanone	ND		0.0050	1	09/30/2015 01:19
Isopropylbenzene	ND		0.0050	1	09/30/2015 01:19
4-Isopropyl toluene	ND		0.0050	1	09/30/2015 01:19
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	09/30/2015 01:19
Methylene chloride	ND		0.0050	1	09/30/2015 01:19
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	09/30/2015 01:19
Naphthalene	ND		0.0050	1	09/30/2015 01:19
n-Propyl benzene	ND		0.0050	1	09/30/2015 01:19
Styrene	ND		0.0050	1	09/30/2015 01:19
1,1,1,2-Tetrachloroethane	ND		0.0050	1	09/30/2015 01:19
1,1,2,2-Tetrachloroethane	ND		0.0050	1	09/30/2015 01:19
Tetrachloroethene	ND		0.0050	1	09/30/2015 01:19
Toluene	ND		0.0050	1	09/30/2015 01:19
1,2,3-Trichlorobenzene	ND		0.0050	1	09/30/2015 01:19
1,2,4-Trichlorobenzene	ND		0.0050	1	09/30/2015 01:19
1,1,1-Trichloroethane	ND		0.0050	1	09/30/2015 01:19
1,1,2-Trichloroethane	ND		0.0050	1	09/30/2015 01:19
Trichloroethene	ND		0.0050	1	09/30/2015 01:19
Trichlorofluoromethane	ND		0.0050	1	09/30/2015 01:19
1,2,3-Trichloropropane	ND		0.0050	1	09/30/2015 01:19
1,2,4-Trimethylbenzene	ND		0.0050	1	09/30/2015 01:19
1,3,5-Trimethylbenzene	ND		0.0050	1	09/30/2015 01:19
Vinyl Chloride	ND		0.0050	1	09/30/2015 01:19
Xylenes, Total	ND		0.0050	1	09/30/2015 01:19

# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID
S-13-ECB8	1509A61-027A Soil	09/25/2015 08:06 GC18	110782
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
Dibromofluoromethane	102	70-130	09/30/2015 01:19
Toluene-d8	87	70-130	09/30/2015 01:19
4-BFB	90	70-130	09/30/2015 01:19
Benzene-d6	121	60-140	09/30/2015 01:19
Ethylbenzene-d10	122	60-140	09/30/2015 01:19
1,2-DCB-d4	102	60-140	09/30/2015 01:19

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

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

tert-Amyl methyl ether (TAME)         ND         0.0050         1         09/30/2015 01:58           Benzene         ND         0.0050         1         09/30/2015 01:58           Bromoehrzene         ND         0.0050         1         09/30/2015 01:58           Bromodichloromethane         ND         0.0050         1         09/30/2015 01:58           Bromomethane         ND         0.0050         1         09/30/2015 01:58           Bromomethane         ND         0.0050         1         09/30/2015 01:58           Bromodichloromethane         ND         0.0050         1         09/30/2015 01:58           Bromodichloromethane         ND         0.0050         1         09/30/2015 01:58           Brown District         ND         0.0050         1         09/30/2015 01:58           Brown District         ND         0.0	Client ID	Lab ID	Matrix	Date Col	lected	Instrument	Batch ID
Acetone	S-13-ECB9	1509A61-028A	Soil	09/25/2015	5 08:34	GC18	110782
tert-Amyl methyl ether (TAME)         ND         0.0050         1         09/30/2015 01:58           Benzene         ND         0.0050         1         09/30/2015 01:58           Bromoehizene         ND         0.0050         1         09/30/2015 01:58           Bromodichloromethane         ND         0.0050         1         09/30/2015 01:58           Bromomethane         ND         0.0050         1         09/30/2015 01:58           Bromomethane         ND         0.0050         1         09/30/2015 01:58           Brown Collega         ND         0.0050         1         09/30/2015 01:58           Brown Collega         ND         0.0050         1         09/30/2015 01:58           Bec-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           Carbon Disulfide         ND         0.0050	<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
Benzene	Acetone	ND		0.10	1		09/30/2015 01:58
Bromobenzene   ND	tert-Amyl methyl ether (TAME)	ND		0.0050	1		09/30/2015 01:58
Bromochloromethane         ND         0.0050         1         09/30/2015 01:58           Bromodichloromethane         ND         0.0050         1         09/30/2015 01:58           Bromoform         ND         0.0050         1         09/30/2015 01:58           Bromomethane         ND         0.0050         1         09/30/2015 01:58           2-Butanone (MEK)         ND         0.020         1         09/30/2015 01:58           1-Butyl alcohol (TBA)         ND         0.050         1         09/30/2015 01:58           1-Butyl alcohol (TBA)         ND         0.0050         1         09/30/2015 01:58           1-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           1 sec-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           1 set-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           1 carbon Tetrachloride         ND         0.0050         1         09/30/2015 01:58           Carbon Tetrachloride         ND         0.0050         1         09/30/2015 01:58           Chlorobenzene         ND         0.0050         1         09/30/2015 01:58           Chlorothene         ND         0.0050 <td>Benzene</td> <td>ND</td> <td></td> <td>0.0050</td> <td>1</td> <td></td> <td>09/30/2015 01:58</td>	Benzene	ND		0.0050	1		09/30/2015 01:58
Bromodichloromethane         ND         0.0050         1         09/30/2015 01:58           Bromoform         ND         0.0050         1         09/30/2015 01:58           Bromomethane         ND         0.0050         1         09/30/2015 01:58           Bromomethane         ND         0.020         1         09/30/2015 01:58           L-Butyl alcohol (TBA)         ND         0.050         1         09/30/2015 01:58           L-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           sce-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           sce-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           sce-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           Carbon Disulfide         ND         0.0050         1         09/30/2015 01:58           Carbon Disulfide         ND         0.0050         1         09/30/2015 01:58           Carbon Tetrachloride         ND         0.0050         1         09/30/2015 01:58           Chlorothane         ND         0.0050         1         09/30/2015 01:58           Chlorotofuer         ND         0.0050         1	Bromobenzene	ND		0.0050	1		09/30/2015 01:58
Bromoform         ND         0.0050         1         09/30/2015 01:58           Bromomethane         ND         0.0050         1         09/30/2015 01:58           2-Butanone (MEK)         ND         0.020         1         09/30/2015 01:58           1-Butyl acchol (TEA)         ND         0.050         1         09/30/2015 01:58           n-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           sec-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           Carbon Disulfide         ND         0.0050         1         09/30/2015 01:58           Carbon Tetrachloride         ND         0.0050         1         09/30/2015 01:58           Chlorotethane         ND         0.0050         1 </td <td>Bromochloromethane</td> <td>ND</td> <td></td> <td>0.0050</td> <td>1</td> <td></td> <td>09/30/2015 01:58</td>	Bromochloromethane	ND		0.0050	1		09/30/2015 01:58
Bromomethane	Bromodichloromethane	ND		0.0050	1		09/30/2015 01:58
2-Butanone (MEK)         ND         0.020         1         09/30/2015 01:58           t-Butyl alcohol (TBA)         ND         0.050         1         09/30/2015 01:58           n-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           sec-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           tert-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           Carbon Disulfide         ND         0.0050         1         09/30/2015 01:58           Carbon Disulfide         ND         0.0050         1         09/30/2015 01:58           Chlorotherzene         ND         0.0050         1         09/30/2015 01:58           Chlorothane         ND         0.0050         1         09/	Bromoform	ND		0.0050	1		09/30/2015 01:58
t-Butyl alcohol (TBA)         ND         0.050         1         09/30/2015 01:58           n-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           sec-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           Edrabon Disulfide         ND         0.0050         1         09/30/2015 01:58           Carbon Disulfide         ND         0.0050         1         09/30/2015 01:58           Carbon Tetrachloride         ND         0.0050         1         09/30/2015 01:58           Chlorobenzene         ND         0.0050         1         09/30/2015 01:58           Chlorochtane         ND         0.0050         1         09/30/2015 01:58           Chloroform         ND         0.0050         1         09/30/2015 01:58           Chlorothuene         ND         0.0050         1         09/30/2015 01:58           Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           Dibromochloromethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dibromo-3-chloropropane         ND         0.0050	Bromomethane	ND		0.0050	1		09/30/2015 01:58
n-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           sec-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           tert-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           Carbon Disulfide         ND         0.0050         1         09/30/2015 01:58           Carbon Disulfide         ND         0.0050         1         09/30/2015 01:58           Chlorobenzene         ND         0.0050         1         09/30/2015 01:58           Chlorobenzene         ND         0.0050         1         09/30/2015 01:58           Chloroform         ND         0.0050         1         09/30/2015 01:58           Chloromethane         ND         0.0050         1         09/30/2015 01:58           2-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           4-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           4-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           4-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           1,2-Dibromo-Alcropropane         ND         0.0050         1 <td>2-Butanone (MEK)</td> <td>ND</td> <td></td> <td>0.020</td> <td>1</td> <td></td> <td>09/30/2015 01:58</td>	2-Butanone (MEK)	ND		0.020	1		09/30/2015 01:58
sec-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           tert-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           Carbon Disulfide         ND         0.0050         1         09/30/2015 01:58           Carbon Tetrachloride         ND         0.0050         1         09/30/2015 01:58           Chlorobenzene         ND         0.0050         1         09/30/2015 01:58           Chlorotethane         ND         0.0050         1         09/30/2015 01:58           Chlorotofure         ND         0.0050         1         09/30/2015 01:58           Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           4-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           4-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           1,2-Dibromochloromethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dibromoc-3-chloropropane         ND         0.0040         1         09/30/2015 01:58           1,2-Dibromoethane (EDB)         ND         0.0	t-Butyl alcohol (TBA)	ND		0.050	1		09/30/2015 01:58
tert-Butyl benzene         ND         0.0050         1         09/30/2015 01:58           Carbon Disulfide         ND         0.0050         1         09/30/2015 01:58           Carbon Tetrachloride         ND         0.0050         1         09/30/2015 01:58           Chlorobenzene         ND         0.0050         1         09/30/2015 01:58           Chlorotethane         ND         0.0050         1         09/30/2015 01:58           Chloroform         ND         0.0050         1         09/30/2015 01:58           Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           2-Chiorotoluene         ND         0.0050         1         09/30/2015 01:58           1,2-Dibromoethane         ND         0.0050         1	n-Butyl benzene	ND		0.0050	1		09/30/2015 01:58
Carbon Disulfide         ND         0.0050         1         09/30/2015 01:58           Carbon Tetrachloride         ND         0.0050         1         09/30/2015 01:58           Chlorobenzene         ND         0.0050         1         09/30/2015 01:58           Chloroethane         ND         0.0050         1         09/30/2015 01:58           Chloroform         ND         0.0050         1         09/30/2015 01:58           Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           2-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           4-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           1,2-Dibromoethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 01:58           Dibromomethane         ND         0.0050         1	sec-Butyl benzene	ND		0.0050	1		09/30/2015 01:58
Carbon Tetrachloride         ND         0.0050         1         09/30/2015 01:58           Chlorobenzene         ND         0.0050         1         09/30/2015 01:58           Chloroethane         ND         0.0050         1         09/30/2015 01:58           Chloroform         ND         0.0050         1         09/30/2015 01:58           Chloromethane         ND         0.0050         1         09/30/2015 01:58           2-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           4-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           4-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           1,2-Dibromo-darchloropropane         ND         0.0050         1         09/30/2015 01:58           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 01:58           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 01:58           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichlorobenzene         ND	tert-Butyl benzene	ND		0.0050	1		09/30/2015 01:58
Chlorobenzene         ND         0.0050         1         09/30/2015 01:58           Chloroethane         ND         0.0050         1         09/30/2015 01:58           Chloroform         ND         0.0050         1         09/30/2015 01:58           Chloromethane         ND         0.0050         1         09/30/2015 01:58           2-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           4-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           4-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           Dibromochloromethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 01:58           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 01:58           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.005	Carbon Disulfide	ND		0.0050	1		09/30/2015 01:58
Chloroethane         ND         0.0050         1         09/30/2015 01:58           Chloroform         ND         0.0050         1         09/30/2015 01:58           Chloroteluene         ND         0.0050         1         09/30/2015 01:58           2-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           4-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           4-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           Dibromochloromethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 01:58           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 01:58           1,2-Dibromoethane (EDB)         ND         0.0050         1         09/30/2015 01:58           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND	Carbon Tetrachloride	ND		0.0050	1		09/30/2015 01:58
Chloroform         ND         0.0050         1         09/30/2015 01:58           Chloromethane         ND         0.0050         1         09/30/2015 01:58           2-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           4-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           1,2-Dibromochloromethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 01:58           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 01:58           1,2-Dibromoethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,1-Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 01:58           1,1-Dichlorotethane         <	Chlorobenzene	ND		0.0050	1		09/30/2015 01:58
Chloromethane         ND         0.0050         1         09/30/2015 01:58           2-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           4-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           Dibromochloromethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 01:58           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 01:58           1,2-Dibrlomoethane (EDB)         ND         0.0050         1         09/30/2015 01:58           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethene         <	Chloroethane	ND		0.0050	1		09/30/2015 01:58
2-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           4-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           Dibromochloromethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 01:58           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 01:58           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloroethane         ND         0.0040         1         09/30/2015 01:58           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           cis-1,2-Dichloroethene	Chloroform	ND		0.0050	1		09/30/2015 01:58
4-Chlorotoluene         ND         0.0050         1         09/30/2015 01:58           Dibromochloromethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 01:58           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 01:58           Dibromomethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.0040         1         09/30/2015 01:58           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           cis-1,2-Dichloroethene	Chloromethane	ND		0.0050	1		09/30/2015 01:58
Dibromochloromethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 01:58           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 01:58           Dibromomethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloroethane (1,2-DCA)         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloro	2-Chlorotoluene	ND		0.0050	1		09/30/2015 01:58
1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 01:58           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 01:58           1,2-Dibromomethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/30/2015 01:58           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 01:58           1,3-	4-Chlorotoluene	ND		0.0050	1		09/30/2015 01:58
1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 01:58           Dibromomethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/30/2015 01:58           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 01:58           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 01:58	Dibromochloromethane	ND		0.0050	1		09/30/2015 01:58
Dibromomethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/30/2015 01:58           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 01:58           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 01:58	1,2-Dibromo-3-chloropropane	ND		0.0040	1		09/30/2015 01:58
1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/30/2015 01:58           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 01:58           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 01:58	1,2-Dibromoethane (EDB)	ND		0.0040	1		09/30/2015 01:58
1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/30/2015 01:58           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 01:58           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 01:58	Dibromomethane	ND		0.0050	1		09/30/2015 01:58
1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 01:58           Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/30/2015 01:58           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 01:58           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 01:58	1,2-Dichlorobenzene	ND		0.0050	1		09/30/2015 01:58
Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 01:58           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/30/2015 01:58           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 01:58           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 01:58	1,3-Dichlorobenzene	ND		0.0050	1		09/30/2015 01:58
1,1-Dichloroethane       ND       0.0050       1       09/30/2015 01:58         1,2-Dichloroethane (1,2-DCA)       ND       0.0040       1       09/30/2015 01:58         1,1-Dichloroethene       ND       0.0050       1       09/30/2015 01:58         cis-1,2-Dichloroethene       ND       0.0050       1       09/30/2015 01:58         trans-1,2-Dichloroethene       ND       0.0050       1       09/30/2015 01:58         1,2-Dichloropropane       ND       0.0050       1       09/30/2015 01:58         1,3-Dichloropropane       ND       0.0050       1       09/30/2015 01:58	1,4-Dichlorobenzene	ND		0.0050	1		09/30/2015 01:58
1,2-Dichloroethane (1,2-DCA)       ND       0.0040       1       09/30/2015 01:58         1,1-Dichloroethene       ND       0.0050       1       09/30/2015 01:58         cis-1,2-Dichloroethene       ND       0.0050       1       09/30/2015 01:58         trans-1,2-Dichloroethene       ND       0.0050       1       09/30/2015 01:58         1,2-Dichloropropane       ND       0.0050       1       09/30/2015 01:58         1,3-Dichloropropane       ND       0.0050       1       09/30/2015 01:58	Dichlorodifluoromethane	ND		0.0050	1		09/30/2015 01:58
1,1-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 01:58           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 01:58	1,1-Dichloroethane	ND		0.0050	1		09/30/2015 01:58
cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 01:58           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 01:58	1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1		09/30/2015 01:58
trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 01:58           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 01:58           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 01:58	1,1-Dichloroethene	ND		0.0050	1		09/30/2015 01:58
1,2-Dichloropropane         ND         0.0050         1         09/30/2015 01:58           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 01:58	cis-1,2-Dichloroethene	ND		0.0050	1		09/30/2015 01:58
1,3-Dichloropropane ND 0.0050 1 09/30/2015 01:58	trans-1,2-Dichloroethene	ND		0.0050	1		09/30/2015 01:58
	1,2-Dichloropropane	ND		0.0050	1		09/30/2015 01:58
2,2-Dichloropropane ND 0.0050 1 09/30/2015 01:58	1,3-Dichloropropane	ND		0.0050	1		09/30/2015 01:58
	2,2-Dichloropropane	ND		0.0050	1		09/30/2015 01:58

(Cont.)

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

**WorkOrder:** 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID	Matrix	Date Co	llected	Instrument	Batch ID
S-13-ECB9	1509A61-028A	Soil	09/25/201	5 08:34	GC18	110782
Analytes	<u>Result</u>		<u>RL</u>	<u>DF</u>		Date Analyzed
1,1-Dichloropropene	ND		0.0050	1		09/30/2015 01:58
cis-1,3-Dichloropropene	ND		0.0050	1		09/30/2015 01:58
trans-1,3-Dichloropropene	ND		0.0050	1		09/30/2015 01:58
Diisopropyl ether (DIPE)	ND		0.0050	1		09/30/2015 01:58
Ethylbenzene	ND		0.0050	1		09/30/2015 01:58
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1		09/30/2015 01:58
Freon 113	ND		0.0050	1		09/30/2015 01:58
Hexachlorobutadiene	ND		0.0050	1		09/30/2015 01:58
Hexachloroethane	ND		0.0050	1		09/30/2015 01:58
2-Hexanone	ND		0.0050	1		09/30/2015 01:58
Isopropylbenzene	ND		0.0050	1		09/30/2015 01:58
4-Isopropyl toluene	ND		0.0050	1		09/30/2015 01:58
Methyl-t-butyl ether (MTBE)	ND		0.0050	1		09/30/2015 01:58
Methylene chloride	ND		0.0050	1		09/30/2015 01:58
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1		09/30/2015 01:58
Naphthalene	ND		0.0050	1		09/30/2015 01:58
n-Propyl benzene	ND		0.0050	1		09/30/2015 01:58
Styrene	ND		0.0050	1		09/30/2015 01:58
1,1,1,2-Tetrachloroethane	ND		0.0050	1		09/30/2015 01:58
1,1,2,2-Tetrachloroethane	ND		0.0050	1		09/30/2015 01:58
Tetrachloroethene	ND		0.0050	1		09/30/2015 01:58
Toluene	ND		0.0050	1		09/30/2015 01:58
1,2,3-Trichlorobenzene	ND		0.0050	1		09/30/2015 01:58
1,2,4-Trichlorobenzene	ND		0.0050	1		09/30/2015 01:58
1,1,1-Trichloroethane	ND		0.0050	1		09/30/2015 01:58
1,1,2-Trichloroethane	ND		0.0050	1		09/30/2015 01:58
Trichloroethene	ND		0.0050	1		09/30/2015 01:58
Trichlorofluoromethane	ND		0.0050	1		09/30/2015 01:58
1,2,3-Trichloropropane	ND		0.0050	1		09/30/2015 01:58
1,2,4-Trimethylbenzene	ND		0.0050	1		09/30/2015 01:58
1,3,5-Trimethylbenzene	ND		0.0050	1		09/30/2015 01:58
Vinyl Chloride	ND		0.0050	1		09/30/2015 01:58
Xylenes, Total	ND		0.0050	1		09/30/2015 01:58

# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

**WorkOrder:** 1509A61

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID
S-13-ECB9	1509A61-028A Soil	09/25/2015 08:34 GC18	110782
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
Surrogates	REC (%)	<u>Limits</u>	
Dibromofluoromethane	102	70-130	09/30/2015 01:58
Toluene-d8	88	70-130	09/30/2015 01:58
4-BFB	91	70-130	09/30/2015 01:58
Benzene-d6	120	60-140	09/30/2015 01:58
Ethylbenzene-d10	122	60-140	09/30/2015 01:58
1,2-DCB-d4	103	60-140	09/30/2015 01:58



**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

Unit: mg/kg

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

Bromobenzene         ND         0.0050         1         09/30/2015 02:40           Bromochloromethane         ND         0.0050         1         09/30/2015 02:40           Bromodichloromethane         ND         0.0050         1         09/30/2015 02:40           Bromoform         ND         0.0050         1         09/30/2015 02:40           Bromomethane         ND         0.0050         1         09/30/2015 02:40           Bromomethane         ND         0.0050         1         09/30/2015 02:40           2-Butanone (MEK)         ND         0.050         1         09/30/2015 02:40           1-Butyl alcohol (TBA)         ND         0.050         1         09/30/2015 02:40           1-Butyl benzene         ND         0.0050         1	Client ID	Lab ID	Matrix	Date Coll	ected	Instrument	Batch ID
Acetone	S-13-ECB10	1509A61-029A	Soil	09/25/2015	09:26	GC16	110782
tert-Amyl methyl ether (TAME)         ND         0.0050         1         09/30/2015 02:40           Benzene         ND         0.0050         1         09/30/2015 02:40           Bromobenzene         ND         0.0050         1         09/30/2015 02:40           Bromochloromethane         ND         0.0050         1         09/30/2015 02:40           Bromodichloromethane         ND         0.0050         1         09/30/2015 02:40           Bromoderm         ND         0.0050         1         09/30/2015 02:40           Bromodermane         ND         0.0050         1         09/30/2015 02:40           Browney Exerce         ND         0.0050         1         09/30/2015 02:40           Browney Increase         ND         0.0050         1         09/30/2015 02:40           Browney Increase         ND         0.0050         1 <td< td=""><td><u>Analytes</u></td><td>Result</td><td></td><td><u>RL</u></td><td><u>DF</u></td><td></td><td>Date Analyzed</td></td<>	<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
Benzene	Acetone	ND		0.10	1		09/30/2015 02:40
Bromobenzene   ND	tert-Amyl methyl ether (TAME)	ND		0.0050	1		09/30/2015 02:40
Bromochloromethane         ND         0.0050         1         09/30/2015 02:40           Bromodichloromethane         ND         0.0050         1         09/30/2015 02:40           Bromoform         ND         0.0050         1         09/30/2015 02:40           Bromomethane         ND         0.0050         1         09/30/2015 02:40           2-Butanone (MEK)         ND         0.020         1         09/30/2015 02:40           1-Butyl alcohol (TBA)         ND         0.050         1         09/30/2015 02:40           n-Butyl benzene         ND         0.0050         1         09/30/2015 02:40           sec-Butyl benzene         ND         0.0050         1         09/30/2015 02:40           carbon Tetrachloride         ND         0.0050         1         09/30/2015 02:40           Carbon Disulfide         ND         0.0050         1         09/30/2015 02:40           Carbon Tetrachloride         ND         0.0050         1         09/30/2015 02:40           Chlorostenzene         ND         0.0050         1         09/30/2015 02:40           Chlorostenzene         ND         0.0050         1         09/30/2015 02:40           Chlorostenzene         ND         0.0050	Benzene	ND		0.0050	1		09/30/2015 02:40
Bromodichloromethane         ND         0.0050         1         09/30/2015 02:40           Bromoform         ND         0.0050         1         09/30/2015 02:40           Bromomethane         ND         0.0050         1         09/30/2015 02:40           2-Butanone (MEK)         ND         0.020         1         09/30/2015 02:40           t-Butyl alcohol (TBA)         ND         0.050         1         09/30/2015 02:40           t-Butyl benzene         ND         0.0050         1         09/30/2015 02:40           sec-Butyl benzene         ND         0.0050         1         09/30/2015 02:40           tert-Butyl benzene         ND         0.0050         1         09/30/2015 02:40           Carbon Disulfide         ND         0.0050         1         09/30/2015 02:40           Carbon Tetrachloride         ND         0.0050         1         09/30/2015 02:40           Carbon Tetrachloride         ND         0.0050         1         09/30/2015 02:40           Chlorothane         ND         0.0050         1         09/30/2015 02:40           Chlorothane         ND         0.0050         1         09/30/2015 02:40           Chlorothane         ND         0.0050         1 <td>Bromobenzene</td> <td>ND</td> <td></td> <td>0.0050</td> <td>1</td> <td></td> <td>09/30/2015 02:40</td>	Bromobenzene	ND		0.0050	1		09/30/2015 02:40
Bromoform         ND         0.0050         1         09/30/2015 02:40           Bromomethane         ND         0.0050         1         09/30/2015 02:40           2-Butanone (MEK)         ND         0.020         1         09/30/2015 02:40           I-Butyl action (TEA)         ND         0.050         1         09/30/2015 02:40           n-Butyl benzene         ND         0.0050         1         09/30/2015 02:40           n-Butyl benzene         ND         0.0050         1         09/30/2015 02:40           Carbon Disulfide         ND         0.0050         1         09/30/2015 02:40           Carbon Disulfide         ND         0.0050         1         09/30/2015 02:40           Carbon Tetrachloride         ND         0.0050         1         09/30/2015 02:40           Chlorobenzene         ND         0.0050         1         09/30/2015 02:40           Chlorothane         ND         0.0050         1         09/30/	Bromochloromethane	ND		0.0050	1		09/30/2015 02:40
Bromomethane   ND	Bromodichloromethane	ND		0.0050	1		09/30/2015 02:40
2-Butanone (MEK)         ND         0.020         1         09/30/2015 02:40           t-Butyl alcohol (TBA)         ND         0.050         1         09/30/2015 02:40           n-Butyl benzene         ND         0.0050         1         09/30/2015 02:40           sec-Butyl benzene         ND         0.0050         1         09/30/2015 02:40           tert-Butyl benzene         ND         0.0050         1         09/30/2015 02:40           Carbon Disulfide         ND         0.0050         1         09/30/2015 02:40           Carbon Disulfide         ND         0.0050         1         09/30/2015 02:40           Chlorothrea         ND         0.0050         1         09/30/2015 02:40           Chlorothane         ND         0.0050         1         09/30/	Bromoform	ND		0.0050	1		09/30/2015 02:40
t-Butyl alcohol (TBA) ND 0.050 1 09/30/2015 02:40 n-Butyl benzene ND 0.0050 1 09/30/2015 02:40 sec-Butyl benzene ND 0.0050 1 09/30/2015 02:40 Carbon Disulfide ND 0.0050 1 09/30/2015 02:40 Carbon Disulfide ND 0.0050 1 09/30/2015 02:40 Carbon Disulfide ND 0.0050 1 09/30/2015 02:40 Carbon Tetrachloride ND 0.0050 1 09/30/2015 02:40 Chlorobenzene ND 0.0050 1 09/30/2015 02:40 Chlorobenzene ND 0.0050 1 09/30/2015 02:40 Chlorotethane ND 0.0050 1 09/30/2015 02:40 Chlorotoluene ND 0.0050 1 09/30/2015 02	Bromomethane	ND		0.0050	1		09/30/2015 02:40
n-Butyl benzene         ND         0.0050         1         09/30/2015 02:40           sec-Butyl benzene         ND         0.0050         1         09/30/2015 02:40           tert-Butyl benzene         ND         0.0050         1         09/30/2015 02:40           Carbon Disulfide         ND         0.0050         1         09/30/2015 02:40           Carbon Disulfide         ND         0.0050         1         09/30/2015 02:40           Chlorobenzene         ND         0.0050         1         09/30/2015 02:40           Chlorobenzene         ND         0.0050         1         09/30/2015 02:40           Chloroform         ND         0.0050         1         09/30/2015 02:40           Chloroform         ND         0.0050         1         09/30/2015 02:40           Chloroformethane         ND         0.0050         1         09/30/2015 02:40           Chlorotoluene         ND         0.0050         1         09/30/2015 02:40           2-Chlorotoluene         ND         0.0050         1         09/30/2015 02:40           2-Chlorotoluene         ND         0.0050         1         09/30/2015 02:40           Dibromochloromethane         ND         0.0050         1	2-Butanone (MEK)	ND		0.020	1		09/30/2015 02:40
sec-Butyl benzene         ND         0.0050         1         09/30/2015 02:40           tert-Butyl benzene         ND         0.0050         1         09/30/2015 02:40           Carbon Disulfide         ND         0.0050         1         09/30/2015 02:40           Carbon Tetrachloride         ND         0.0050         1         09/30/2015 02:40           Chlorobenzene         ND         0.0050         1         09/30/2015 02:40           Chlorotethane         ND         0.0050         1         09/30/2015 02:40           4-Chiorotoluene         ND         0.0050         1         09/30/2015 02:40           4-Chiorotoluene         ND         0.0050         1         09/30/2015 02:40           1,2-Dibromoc-3-chloropropane         ND         0.0050         1         09/30/2015 02:40           1,2-Dibromoethane (EDB)         ND         0.0040	t-Butyl alcohol (TBA)	ND		0.050	1		09/30/2015 02:40
tert-Buty benzene         ND         0.0050         1         09/30/2015 02:40           Carbon Disulfide         ND         0.0050         1         09/30/2015 02:40           Carbon Tetrachloride         ND         0.0050         1         09/30/2015 02:40           Chlorobenzene         ND         0.0050         1         09/30/2015 02:40           Chlorotethane         ND         0.0050         1         09/30/2015 02:40           Chloroform         ND         0.0050         1         09/30/2015 02:40           Chlorotethane         ND         0.0050         1         09/30/2015 02:40           Chlorotoluene         ND         0.0050         1         09/30/2015 02:40           4-Chlorotoluene         ND         0.0050         1         09/30/2015 02:40           4-Chlorotoluene         ND         0.0050         1         09/30/2015 02:40           Dibromochloromethane         ND         0.0050         1         09/30/2015 02:40           1,2-Dibromoe-3-chloropropane         ND         0.0040         1         09/30/2015 02:40           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 02:40           1,2-Dibromoethane         ND         0.0050 <td>n-Butyl benzene</td> <td>ND</td> <td></td> <td>0.0050</td> <td>1</td> <td></td> <td>09/30/2015 02:40</td>	n-Butyl benzene	ND		0.0050	1		09/30/2015 02:40
Carbon Disulfide         ND         0.0050         1         09/30/2015 02:40           Carbon Tetrachloride         ND         0.0050         1         09/30/2015 02:40           Chlorobenzene         ND         0.0050         1         09/30/2015 02:40           Chloroethane         ND         0.0050         1         09/30/2015 02:40           Chlorotorm         ND         0.0050         1         09/30/2015 02:40           Chlorotoluene         ND         0.0050         1         09/30/2015 02:40           2-Chlorotoluene         ND         0.0050         1         09/30/2015 02:40           4-Chlorotoluene         ND         0.0050         1         09/30/2015 02:40           4-Chlorotoluene         ND         0.0050         1         09/30/2015 02:40           4-Chlorotoluene         ND         0.0050         1         09/30/2015 02:40           1,2-Dibromoethane         ND         0.0050         1         09/30/2015 02:40           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 02:40           1,2-Dibromoethane         ND         0.0050         1         09/30/2015 02:40           1,2-Dibromoethane         ND         0.0050         1	sec-Butyl benzene	ND		0.0050	1		09/30/2015 02:40
Carbon Tetrachloride         ND         0.0050         1         09/30/2015 02:40           Chlorobenzene         ND         0.0050         1         09/30/2015 02:40           Chloroethane         ND         0.0050         1         09/30/2015 02:40           Chloroform         ND         0.0050         1         09/30/2015 02:40           Chloroethane         ND         0.0050         1         09/30/2015 02:40           Chlorotoluene         ND         0.0050         1         09/30/2015 02:40           4-Chlorotoluene         ND         0.0050         1         09/30/2015 02:40           4-Chlorotoluene         ND         0.0050         1         09/30/2015 02:40           Dibromochloromethane         ND         0.0050         1         09/30/2015 02:40           1,2-Dibromo-3-chloropropane         ND         0.0050         1         09/30/2015 02:40           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 02:40           1,2-Dibromoethane (EDB)         ND         0.0050         1         09/30/2015 02:40           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,3-Dichlorobenzene         ND         0.	tert-Butyl benzene	ND		0.0050	1		09/30/2015 02:40
Chlorobenzene         ND         0.0050         1         09/30/2015 02:40           Chloroethane         ND         0.0050         1         09/30/2015 02:40           Chloroform         ND         0.0050         1         09/30/2015 02:40           Chlorotoluene         ND         0.0050         1         09/30/2015 02:40           2-Chlorotoluene         ND         0.0050         1         09/30/2015 02:40           4-Chlorotoluene         ND         0.0050         1         09/30/2015 02:40           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 02:40           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 02:40           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 02:40           1,2-Dichlorobenzene         ND         0.005	Carbon Disulfide	ND		0.0050	1		09/30/2015 02:40
Chloroethane         ND         0.0050         1         09/30/2015 02:40           Chloroform         ND         0.0050         1         09/30/2015 02:40           Chloromethane         ND         0.0050         1         09/30/2015 02:40           2-Chlorotoluene         ND         0.0050         1         09/30/2015 02:40           4-Chlorotoluene         ND         0.0050         1         09/30/2015 02:40           4-Chlorotoluene         ND         0.0050         1         09/30/2015 02:40           4-Chlorotoluene         ND         0.0050         1         09/30/2015 02:40           Dibromochloromethane         ND         0.0050         1         09/30/2015 02:40           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 02:40           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 02:40           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,1-Dichloroethane         ND         0.0	Carbon Tetrachloride	ND		0.0050	1		09/30/2015 02:40
Chloroform         ND         0.0050         1         09/30/2015 02:40           Chloromethane         ND         0.0050         1         09/30/2015 02:40           2-Chlorotoluene         ND         0.0050         1         09/30/2015 02:40           4-Chlorotoluene         ND         0.0050         1         09/30/2015 02:40           4-Chlorotoluene         ND         0.0050         1         09/30/2015 02:40           1,2-Dibromoethane         ND         0.0050         1         09/30/2015 02:40           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 02:40           1,2-Dibromoethane (EDB)         ND         0.0050         1         09/30/2015 02:40           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,1-Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 02:40           1,2-Dichlorotethane         ND	Chlorobenzene	ND		0.0050	1		09/30/2015 02:40
Chloromethane         ND         0.0050         1         09/30/2015 02:40           2-Chlorotoluene         ND         0.0050         1         09/30/2015 02:40           4-Chlorotoluene         ND         0.0050         1         09/30/2015 02:40           Dibromochloromethane         ND         0.0050         1         09/30/2015 02:40           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 02:40           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 02:40           1,2-Dibrlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 02:40           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 02:40           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 02:40           1,1-Dichloroethene         ND	Chloroethane	ND		0.0050	1		09/30/2015 02:40
2-Chlorotoluene         ND         0.0050         1         09/30/2015 02:40           4-Chlorotoluene         ND         0.0050         1         09/30/2015 02:40           Dibromochloromethane         ND         0.0050         1         09/30/2015 02:40           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 02:40           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 02:40           1,2-Dibrlomoethane         ND         0.0050         1         09/30/2015 02:40           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,4-Dichloroethane         ND         0.0050         1         09/30/2015 02:40           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 02:40           1,2-Dichloroethane         ND         0.0040         1         09/30/2015 02:40           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           1,1-Dichloroethene <t< td=""><td>Chloroform</td><td>ND</td><td></td><td>0.0050</td><td>1</td><td></td><td>09/30/2015 02:40</td></t<>	Chloroform	ND		0.0050	1		09/30/2015 02:40
4-Chlorotoluene         ND         0.0050         1         09/30/2015 02:40           Dibromochloromethane         ND         0.0050         1         09/30/2015 02:40           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 02:40           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 02:40           Dibromomethane         ND         0.0050         1         09/30/2015 02:40           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 02:40           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 02:40           1,1-Dichloroethane         ND         0.0040         1         09/30/2015 02:40           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           1,2-Dichloroethene <t< td=""><td>Chloromethane</td><td>ND</td><td></td><td>0.0050</td><td>1</td><td></td><td>09/30/2015 02:40</td></t<>	Chloromethane	ND		0.0050	1		09/30/2015 02:40
Dibromochloromethane         ND         0.0050         1         09/30/2015 02:40           1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 02:40           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 02:40           1,2-Dibromomethane         ND         0.0050         1         09/30/2015 02:40           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 02:40           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 02:40           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/30/2015 02:40           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           1,2-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           1,2-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           1,2-Dichloroethene	2-Chlorotoluene	ND		0.0050	1		09/30/2015 02:40
1,2-Dibromo-3-chloropropane         ND         0.0040         1         09/30/2015 02:40           1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 02:40           Dibromomethane         ND         0.0050         1         09/30/2015 02:40           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 02:40           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 02:40           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/30/2015 02:40           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           1,2-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           1,2-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 02:40           1,3-Dichloropropan	4-Chlorotoluene	ND		0.0050	1		09/30/2015 02:40
1,2-Dibromoethane (EDB)         ND         0.0040         1         09/30/2015 02:40           Dibromomethane         ND         0.0050         1         09/30/2015 02:40           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 02:40           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 02:40           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/30/2015 02:40           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 02:40           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 02:40	Dibromochloromethane	ND		0.0050	1		09/30/2015 02:40
Dibromomethane         ND         0.0050         1         09/30/2015 02:40           1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 02:40           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 02:40           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/30/2015 02:40           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 02:40           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 02:40           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 02:40	1,2-Dibromo-3-chloropropane	ND		0.0040	1		09/30/2015 02:40
1,2-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 02:40           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 02:40           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/30/2015 02:40           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 02:40           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 02:40           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 02:40	1,2-Dibromoethane (EDB)	ND		0.0040	1		09/30/2015 02:40
1,3-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 02:40           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 02:40           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/30/2015 02:40           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 02:40           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 02:40	Dibromomethane	ND		0.0050	1		09/30/2015 02:40
1,4-Dichlorobenzene         ND         0.0050         1         09/30/2015 02:40           Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 02:40           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 02:40           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/30/2015 02:40           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 02:40           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 02:40	1,2-Dichlorobenzene	ND		0.0050	1		09/30/2015 02:40
Dichlorodifluoromethane         ND         0.0050         1         09/30/2015 02:40           1,1-Dichloroethane         ND         0.0050         1         09/30/2015 02:40           1,2-Dichloroethane (1,2-DCA)         ND         0.0040         1         09/30/2015 02:40           1,1-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 02:40           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 02:40	1,3-Dichlorobenzene	ND		0.0050	1		09/30/2015 02:40
1,1-Dichloroethane       ND       0.0050       1       09/30/2015 02:40         1,2-Dichloroethane (1,2-DCA)       ND       0.0040       1       09/30/2015 02:40         1,1-Dichloroethene       ND       0.0050       1       09/30/2015 02:40         cis-1,2-Dichloroethene       ND       0.0050       1       09/30/2015 02:40         trans-1,2-Dichloroethene       ND       0.0050       1       09/30/2015 02:40         1,2-Dichloropropane       ND       0.0050       1       09/30/2015 02:40         1,3-Dichloropropane       ND       0.0050       1       09/30/2015 02:40	1,4-Dichlorobenzene	ND		0.0050	1		09/30/2015 02:40
1,2-Dichloroethane (1,2-DCA)       ND       0.0040       1       09/30/2015 02:40         1,1-Dichloroethene       ND       0.0050       1       09/30/2015 02:40         cis-1,2-Dichloroethene       ND       0.0050       1       09/30/2015 02:40         trans-1,2-Dichloroethene       ND       0.0050       1       09/30/2015 02:40         1,2-Dichloropropane       ND       0.0050       1       09/30/2015 02:40         1,3-Dichloropropane       ND       0.0050       1       09/30/2015 02:40	Dichlorodifluoromethane	ND		0.0050	1		09/30/2015 02:40
1,1-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 02:40           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 02:40	1,1-Dichloroethane	ND		0.0050	1		09/30/2015 02:40
cis-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 02:40           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 02:40	1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1		09/30/2015 02:40
trans-1,2-Dichloroethene         ND         0.0050         1         09/30/2015 02:40           1,2-Dichloropropane         ND         0.0050         1         09/30/2015 02:40           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 02:40	1,1-Dichloroethene	ND		0.0050	1		09/30/2015 02:40
1,2-Dichloropropane         ND         0.0050         1         09/30/2015 02:40           1,3-Dichloropropane         ND         0.0050         1         09/30/2015 02:40	cis-1,2-Dichloroethene	ND		0.0050	1		09/30/2015 02:40
1,3-Dichloropropane ND 0.0050 1 09/30/2015 02:40	trans-1,2-Dichloroethene	ND		0.0050	1		09/30/2015 02:40
	1,2-Dichloropropane	ND		0.0050	1		09/30/2015 02:40
2,2-Dichloropropane ND 0.0050 1 09/30/2015 02:40	1,3-Dichloropropane	ND		0.0050	1		09/30/2015 02:40
	2,2-Dichloropropane	ND		0.0050	1		09/30/2015 02:40

(Cont.)



**Client: Essel Environmental Consulting** 

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC WorkOrder: 1509A61

**Extraction Method: SW5030B Analytical Method: SW8260B** 

Unit: mg/kg

Client ID	Lab ID	Matrix	Date Col	llected	Instrument	Batch ID
S-13-ECB10	1509A61-029A	Soil	09/25/201	5 09:26	GC16	110782
Analytes	<u>Result</u>		<u>RL</u>	<u>DF</u>		Date Analyzed
1,1-Dichloropropene	ND		0.0050	1		09/30/2015 02:40
cis-1,3-Dichloropropene	ND		0.0050	1		09/30/2015 02:40
trans-1,3-Dichloropropene	ND		0.0050	1		09/30/2015 02:40
Diisopropyl ether (DIPE)	ND		0.0050	1		09/30/2015 02:40
Ethylbenzene	ND		0.0050	1		09/30/2015 02:40
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1		09/30/2015 02:40
Freon 113	ND		0.0050	1		09/30/2015 02:40
Hexachlorobutadiene	ND		0.0050	1		09/30/2015 02:40
Hexachloroethane	ND		0.0050	1		09/30/2015 02:40
2-Hexanone	ND		0.0050	1		09/30/2015 02:40
Isopropylbenzene	ND		0.0050	1		09/30/2015 02:40
4-Isopropyl toluene	ND		0.0050	1		09/30/2015 02:40
Methyl-t-butyl ether (MTBE)	ND		0.0050	1		09/30/2015 02:40
Methylene chloride	ND		0.0050	1		09/30/2015 02:40
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1		09/30/2015 02:40
Naphthalene	ND		0.0050	1		09/30/2015 02:40
n-Propyl benzene	ND		0.0050	1		09/30/2015 02:40
Styrene	ND		0.0050	1		09/30/2015 02:40
1,1,1,2-Tetrachloroethane	ND		0.0050	1		09/30/2015 02:40
1,1,2,2-Tetrachloroethane	ND		0.0050	1		09/30/2015 02:40
Tetrachloroethene	ND		0.0050	1		09/30/2015 02:40
Toluene	ND		0.0050	1		09/30/2015 02:40
1,2,3-Trichlorobenzene	ND		0.0050	1		09/30/2015 02:40
1,2,4-Trichlorobenzene	ND		0.0050	1		09/30/2015 02:40
1,1,1-Trichloroethane	ND		0.0050	1		09/30/2015 02:40
1,1,2-Trichloroethane	ND		0.0050	1		09/30/2015 02:40
Trichloroethene	ND		0.0050	1		09/30/2015 02:40
Trichlorofluoromethane	ND		0.0050	1		09/30/2015 02:40
1,2,3-Trichloropropane	ND		0.0050	1		09/30/2015 02:40
1,2,4-Trimethylbenzene	ND		0.0050	1		09/30/2015 02:40
1,3,5-Trimethylbenzene	ND		0.0050	1		09/30/2015 02:40
Vinyl Chloride	ND		0.0050	1		09/30/2015 02:40
Xylenes, Total	ND		0.0050	1		09/30/2015 02:40

# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

**WorkOrder:** 1509A61

**Extraction Method: SW5030B** 

**Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID
S-13-ECB10	1509A61-029A Soil	09/25/2015 09:26 GC16	110782
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
Surrogates	<u>REC (%)</u>	<u>Limits</u>	
Dibromofluoromethane	90	70-130	09/30/2015 02:40
Toluene-d8	100	70-130	09/30/2015 02:40
4-BFB	102	70-130	09/30/2015 02:40
Benzene-d6	99	60-140	09/30/2015 02:40
Ethylbenzene-d10	119	60-140	09/30/2015 02:40
1,2-DCB-d4	76	60-140	09/30/2015 02:40

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**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	Date C	ollected	Instrument	Batch ID
S-141/2-ECB10	1509A61-030A	Soil	09/25/20	15 09:29	GC18	110782
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
Acetone	ND		20	200		09/29/2015 17:27
tert-Amyl methyl ether (TAME)	ND		1.0	200		09/29/2015 17:27
Benzene	ND		1.0	200		09/29/2015 17:27
Bromobenzene	ND		1.0	200		09/29/2015 17:27
Bromochloromethane	ND		1.0	200		09/29/2015 17:27
Bromodichloromethane	ND		1.0	200		09/29/2015 17:27
Bromoform	ND		1.0	200		09/29/2015 17:27
Bromomethane	ND		1.0	200		09/29/2015 17:27
2-Butanone (MEK)	ND		4.0	200		09/29/2015 17:27
t-Butyl alcohol (TBA)	ND		10	200		09/29/2015 17:27
n-Butyl benzene	ND		1.0	200		09/29/2015 17:27
sec-Butyl benzene	ND		1.0	200		09/29/2015 17:27
tert-Butyl benzene	ND		1.0	200		09/29/2015 17:27
Carbon Disulfide	ND		1.0	200		09/29/2015 17:27
Carbon Tetrachloride	ND		1.0	200		09/29/2015 17:27
Chlorobenzene	ND		1.0	200		09/29/2015 17:27
Chloroethane	ND		1.0	200		09/29/2015 17:27
Chloroform	ND		1.0	200		09/29/2015 17:27
Chloromethane	ND		1.0	200		09/29/2015 17:27
2-Chlorotoluene	ND		1.0	200		09/29/2015 17:27
4-Chlorotoluene	ND		1.0	200		09/29/2015 17:27
Dibromochloromethane	ND		1.0	200		09/29/2015 17:27
1,2-Dibromo-3-chloropropane	ND		0.80	200		09/29/2015 17:27
1,2-Dibromoethane (EDB)	ND		0.80	200		09/29/2015 17:27
Dibromomethane	ND		1.0	200		09/29/2015 17:27
1,2-Dichlorobenzene	ND		1.0	200		09/29/2015 17:27
1,3-Dichlorobenzene	ND		1.0	200		09/29/2015 17:27
1,4-Dichlorobenzene	ND		1.0	200		09/29/2015 17:27
Dichlorodifluoromethane	ND		1.0	200		09/29/2015 17:27
1,1-Dichloroethane	ND		1.0	200		09/29/2015 17:27
1,2-Dichloroethane (1,2-DCA)	ND		0.80	200		09/29/2015 17:27
1,1-Dichloroethene	ND		1.0	200		09/29/2015 17:27
cis-1,2-Dichloroethene	ND		1.0	200		09/29/2015 17:27
trans-1,2-Dichloroethene	ND		1.0	200		09/29/2015 17:27
1,2-Dichloropropane	ND		1.0	200		09/29/2015 17:27
1,3-Dichloropropane	ND		1.0	200		09/29/2015 17:27
2,2-Dichloropropane	ND		1.0	200		09/29/2015 17:27

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**Client: Essel Environmental Consulting** 

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC WorkOrder: 1509A61

**Extraction Method: SW5030B Analytical Method: SW8260B** 

Unit: mg/kg

Client ID	Lab ID	Matrix	Date Co	ollected	Instrument	Batch ID
S-141/2-ECB10	1509A61-030A	Soil	09/25/20	15 09:29	GC18	110782
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
1,1-Dichloropropene	ND		1.0	200		09/29/2015 17:27
cis-1,3-Dichloropropene	ND		1.0	200		09/29/2015 17:27
trans-1,3-Dichloropropene	ND		1.0	200		09/29/2015 17:27
Diisopropyl ether (DIPE)	ND		1.0	200		09/29/2015 17:27
Ethylbenzene	ND		1.0	200		09/29/2015 17:27
Ethyl tert-butyl ether (ETBE)	ND		1.0	200		09/29/2015 17:27
Freon 113	ND		1.0	200		09/29/2015 17:27
Hexachlorobutadiene	ND		1.0	200		09/29/2015 17:27
Hexachloroethane	ND		1.0	200		09/29/2015 17:27
2-Hexanone	ND		1.0	200		09/29/2015 17:27
Isopropylbenzene	ND		1.0	200		09/29/2015 17:27
4-Isopropyl toluene	ND		1.0	200		09/29/2015 17:27
Methyl-t-butyl ether (MTBE)	ND		1.0	200		09/29/2015 17:27
Methylene chloride	ND		1.0	200		09/29/2015 17:27
4-Methyl-2-pentanone (MIBK)	ND		1.0	200		09/29/2015 17:27
Naphthalene	ND		1.0	200		09/29/2015 17:27
n-Propyl benzene	ND		1.0	200		09/29/2015 17:27
Styrene	ND		1.0	200		09/29/2015 17:27
1,1,1,2-Tetrachloroethane	ND		1.0	200		09/29/2015 17:27
1,1,2,2-Tetrachloroethane	ND		1.0	200		09/29/2015 17:27
Tetrachloroethene	ND		1.0	200		09/29/2015 17:27
Toluene	ND		1.0	200		09/29/2015 17:27
1,2,3-Trichlorobenzene	ND		1.0	200		09/29/2015 17:27
1,2,4-Trichlorobenzene	ND		1.0	200		09/29/2015 17:27
1,1,1-Trichloroethane	ND		1.0	200		09/29/2015 17:27
1,1,2-Trichloroethane	ND		1.0	200		09/29/2015 17:27
Trichloroethene	ND		1.0	200		09/29/2015 17:27
Trichlorofluoromethane	ND		1.0	200		09/29/2015 17:27
1,2,3-Trichloropropane	ND		1.0	200		09/29/2015 17:27
1,2,4-Trimethylbenzene	ND		1.0	200		09/29/2015 17:27
1,3,5-Trimethylbenzene	ND		1.0	200		09/29/2015 17:27
Vinyl Chloride	ND		1.0	200		09/29/2015 17:27
Xylenes, Total	ND		1.0	200		09/29/2015 17:27

# **Analytical Report**

Client: Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B

Analytical Method: SW8260B

Unit: mg/kg

Client ID	Lab ID	Matrix	<b>Date Collected Instrument</b>	Batch ID
S-141/2-ECB10	1509A61-030A	Soil	09/25/2015 09:29 GC18	110782
<u>Analytes</u>	Result		RL DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>	
Dibromofluoromethane	107		70-130	09/29/2015 17:27
Toluene-d8	79		70-130	09/29/2015 17:27
4-BFB	90		70-130	09/29/2015 17:27
Benzene-d6	456	S	60-140	09/29/2015 17:27
Ethylbenzene-d10	359	S	60-140	09/29/2015 17:27
1,2-DCB-d4	596	S	60-140	09/29/2015 17:27
Analyst(s): AK			Analytical Comments: a3,c2	



**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**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	Date Colle	ected Instrument	Batch ID
S-13-ECB12	1509A61-031A	Soil	09/25/2015	10:17 GC16	110782
<u>Analytes</u>	Result		<u>RL</u> !	<u>DF</u>	Date Analyzed
Acetone	ND		0.10	1	09/30/2015 03:23
tert-Amyl methyl ether (TAME)	ND		0.0050	1	09/30/2015 03:23
Benzene	ND		0.0050	1	09/30/2015 03:23
Bromobenzene	ND		0.0050	1	09/30/2015 03:23
Bromochloromethane	ND		0.0050	1	09/30/2015 03:23
Bromodichloromethane	ND		0.0050	1	09/30/2015 03:23
Bromoform	ND		0.0050	1	09/30/2015 03:23
Bromomethane	ND		0.0050	1	09/30/2015 03:23
2-Butanone (MEK)	ND		0.020	1	09/30/2015 03:23
t-Butyl alcohol (TBA)	ND		0.050	1	09/30/2015 03:23
n-Butyl benzene	ND		0.0050	1	09/30/2015 03:23
sec-Butyl benzene	ND		0.0050	1	09/30/2015 03:23
tert-Butyl benzene	ND		0.0050	1	09/30/2015 03:23
Carbon Disulfide	ND		0.0050	1	09/30/2015 03:23
Carbon Tetrachloride	ND		0.0050	1	09/30/2015 03:23
Chlorobenzene	ND		0.0050	1	09/30/2015 03:23
Chloroethane	ND		0.0050	1	09/30/2015 03:23
Chloroform	ND		0.0050	1	09/30/2015 03:23
Chloromethane	ND		0.0050	1	09/30/2015 03:23
2-Chlorotoluene	ND		0.0050	1	09/30/2015 03:23
4-Chlorotoluene	ND		0.0050	1	09/30/2015 03:23
Dibromochloromethane	ND		0.0050	1	09/30/2015 03:23
1,2-Dibromo-3-chloropropane	ND		0.0040	1	09/30/2015 03:23
1,2-Dibromoethane (EDB)	ND		0.0040	1	09/30/2015 03:23
Dibromomethane	ND		0.0050	1	09/30/2015 03:23
1,2-Dichlorobenzene	ND		0.0050	1	09/30/2015 03:23
1,3-Dichlorobenzene	ND		0.0050	1	09/30/2015 03:23
1,4-Dichlorobenzene	ND		0.0050	1	09/30/2015 03:23
Dichlorodifluoromethane	ND		0.0050	1	09/30/2015 03:23
1,1-Dichloroethane	ND		0.0050	1	09/30/2015 03:23
1,2-Dichloroethane (1,2-DCA)	ND		0.0040	1	09/30/2015 03:23
1,1-Dichloroethene	ND		0.0050	1	09/30/2015 03:23
cis-1,2-Dichloroethene	ND		0.0050	1	09/30/2015 03:23
trans-1,2-Dichloroethene	ND		0.0050	1	09/30/2015 03:23
1,2-Dichloropropane	ND		0.0050	1	09/30/2015 03:23
1,3-Dichloropropane	ND		0.0050	1	09/30/2015 03:23
2,2-Dichloropropane	ND		0.0050	1	09/30/2015 03:23

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### **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

**Unit:** mg/kg

Client ID	Lab ID	Matrix	Date Col	llected Inst	trument	Batch ID
S-13-ECB12	1509A61-031A	Soil	09/25/201	5 10:17 GC1	6	110782
Analytes	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
1,1-Dichloropropene	ND		0.0050	1		09/30/2015 03:23
cis-1,3-Dichloropropene	ND		0.0050	1		09/30/2015 03:23
trans-1,3-Dichloropropene	ND		0.0050	1		09/30/2015 03:23
Diisopropyl ether (DIPE)	ND		0.0050	1		09/30/2015 03:23
Ethylbenzene	ND		0.0050	1		09/30/2015 03:23
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1		09/30/2015 03:23
Freon 113	ND		0.0050	1		09/30/2015 03:23
Hexachlorobutadiene	ND		0.0050	1		09/30/2015 03:23
Hexachloroethane	ND		0.0050	1		09/30/2015 03:23
2-Hexanone	ND		0.0050	1		09/30/2015 03:23
Isopropylbenzene	ND		0.0050	1		09/30/2015 03:23
4-Isopropyl toluene	ND		0.0050	1		09/30/2015 03:23
Methyl-t-butyl ether (MTBE)	ND		0.0050	1		09/30/2015 03:23
Methylene chloride	ND		0.0050	1		09/30/2015 03:23
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1		09/30/2015 03:23
Naphthalene	ND		0.0050	1		09/30/2015 03:23
n-Propyl benzene	ND		0.0050	1		09/30/2015 03:23
Styrene	ND		0.0050	1		09/30/2015 03:23
1,1,1,2-Tetrachloroethane	ND		0.0050	1		09/30/2015 03:23
1,1,2,2-Tetrachloroethane	ND		0.0050	1		09/30/2015 03:23
Tetrachloroethene	ND		0.0050	1		09/30/2015 03:23
Toluene	ND		0.0050	1		09/30/2015 03:23
1,2,3-Trichlorobenzene	ND		0.0050	1		09/30/2015 03:23
1,2,4-Trichlorobenzene	ND		0.0050	1		09/30/2015 03:23
1,1,1-Trichloroethane	ND		0.0050	1		09/30/2015 03:23
1,1,2-Trichloroethane	ND		0.0050	1		09/30/2015 03:23
Trichloroethene	ND		0.0050	1		09/30/2015 03:23
Trichlorofluoromethane	ND		0.0050	1		09/30/2015 03:23
1,2,3-Trichloropropane	ND		0.0050	1		09/30/2015 03:23
1,2,4-Trimethylbenzene	ND		0.0050	1		09/30/2015 03:23
1,3,5-Trimethylbenzene	ND		0.0050	1		09/30/2015 03:23
Vinyl Chloride	ND		0.0050	1		09/30/2015 03:23
Xylenes, Total	ND		0.0050	1		09/30/2015 03:23

# **Analytical Report**

**Client: Essel Environmental Consulting** 

**Date Prepared:** 9/28/15

**Date Received:** 9/25/15 19:30

**Project:** 15166; EBALDC WorkOrder: 1509A61

**Extraction Method: SW5030B** 

**Analytical Method: SW8260B** 

Unit: mg/kg

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID
S-13-ECB12	1509A61-031A Soil	09/25/2015 10:17 GC16	110782
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
Surrogates	<u>REC (%)</u>	<u>Limits</u>	
Dibromofluoromethane	90	70-130	09/30/2015 03:23
Toluene-d8	100	70-130	09/30/2015 03:23
4-BFB	102	70-130	09/30/2015 03:23
Benzene-d6	96	60-140	09/30/2015 03:23
Ethylbenzene-d10	107	60-140	09/30/2015 03:23
1,2-DCB-d4	76	60-140	09/30/2015 03:23

### **Analytical Report**

Client: Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/29/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW3550B

**Analytical Method:** SW8270C-SIM

**Unit:** mg/kg

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID
S-41/2-ECB2	1509A61-004A	Soil	09/24/201	15 09:27 GC35	110852
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Acenaphthene	ND		0.010	1	09/29/2015 17:44
Acenaphthylene	ND		0.010	1	09/29/2015 17:44
Anthracene	ND		0.010	1	09/29/2015 17:44
Benzo (a) anthracene	ND		0.010	1	09/29/2015 17:44
Benzo (b) fluoranthene	ND		0.010	1	09/29/2015 17:44
Benzo (k) fluoranthene	ND		0.010	1	09/29/2015 17:44
Benzo (g,h,i) perylene	ND		0.010	1	09/29/2015 17:44
Benzo (a) pyrene	ND		0.010	1	09/29/2015 17:44
Chrysene	ND		0.010	1	09/29/2015 17:44
Dibenzo (a,h) anthracene	ND		0.010	1	09/29/2015 17:44
Fluoranthene	ND		0.010	1	09/29/2015 17:44
Fluorene	ND		0.010	1	09/29/2015 17:44
Indeno (1,2,3-cd) pyrene	ND		0.010	1	09/29/2015 17:44
1-Methylnaphthalene	ND		0.010	1	09/29/2015 17:44
2-Methylnaphthalene	ND		0.010	1	09/29/2015 17:44
Naphthalene	ND		0.010	1	09/29/2015 17:44
Phenanthrene	ND		0.010	1	09/29/2015 17:44
Pyrene	ND		0.010	1	09/29/2015 17:44
Surrogates	REC (%)		<u>Limits</u>		
1-Fluoronaphthalene	111		30-130		09/29/2015 17:44
2-Fluorobiphenyl	102		30-130		09/29/2015 17:44
Analyst(s): HK					

1509A61

### **Analytical Report**

Client: Essel Environmental Consulting WorkOrder:

Date Received:9/25/15 19:30Extraction Method:SW3550BDate Prepared:9/29/15Analytical Method:SW8270C-SIM

**Project:** 15166; EBALDC Unit: mg/kg

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID
S-9-ECB2	1509A61-005A	Soil	09/24/201	15 09:48 GC35	110852
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Acenaphthene	ND		0.010	1	09/29/2015 18:09
Acenaphthylene	ND		0.010	1	09/29/2015 18:09
Anthracene	ND		0.010	1	09/29/2015 18:09
Benzo (a) anthracene	ND		0.010	1	09/29/2015 18:09
Benzo (b) fluoranthene	ND		0.010	1	09/29/2015 18:09
Benzo (k) fluoranthene	ND		0.010	1	09/29/2015 18:09
Benzo (g,h,i) perylene	ND		0.010	1	09/29/2015 18:09
Benzo (a) pyrene	ND		0.010	1	09/29/2015 18:09
Chrysene	ND		0.010	1	09/29/2015 18:09
Dibenzo (a,h) anthracene	ND		0.010	1	09/29/2015 18:09
Fluoranthene	ND		0.010	1	09/29/2015 18:09
Fluorene	ND		0.010	1	09/29/2015 18:09
Indeno (1,2,3-cd) pyrene	ND		0.010	1	09/29/2015 18:09
1-Methylnaphthalene	ND		0.010	1	09/29/2015 18:09
2-Methylnaphthalene	ND		0.010	1	09/29/2015 18:09
Naphthalene	ND		0.010	1	09/29/2015 18:09
Phenanthrene	ND		0.010	1	09/29/2015 18:09
Pyrene	ND		0.010	1	09/29/2015 18:09
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
1-Fluoronaphthalene	108		30-130		09/29/2015 18:09
2-Fluorobiphenyl	103		30-130		09/29/2015 18:09
Analyst(s): HK					

### **Analytical Report**

Client: Essel Environmental Consulting WorkOrder: 1509A61

Date Received: 9/25/15 19:30 Extraction Method: SW3550B

**Date Prepared:** 9/29/15 **Analytical Method:** SW8270C-SIM

**Project:** 15166; EBALDC Unit: mg/kg

Client ID	Lab ID	Matrix	Date Co	llected Instrument	Batch ID
S-4½-ECB3	1509A61-008A	Soil	09/24/201	I5 10:10 GC35	110852
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Acenaphthene	ND		0.010	1	09/29/2015 18:34
Acenaphthylene	ND		0.010	1	09/29/2015 18:34
Anthracene	ND		0.010	1	09/29/2015 18:34
Benzo (a) anthracene	ND		0.010	1	09/29/2015 18:34
Benzo (b) fluoranthene	ND		0.010	1	09/29/2015 18:34
Benzo (k) fluoranthene	ND		0.010	1	09/29/2015 18:34
Benzo (g,h,i) perylene	ND		0.010	1	09/29/2015 18:34
Benzo (a) pyrene	ND		0.010	1	09/29/2015 18:34
Chrysene	ND		0.010	1	09/29/2015 18:34
Dibenzo (a,h) anthracene	ND		0.010	1	09/29/2015 18:34
Fluoranthene	ND		0.010	1	09/29/2015 18:34
Fluorene	ND		0.010	1	09/29/2015 18:34
Indeno (1,2,3-cd) pyrene	ND		0.010	1	09/29/2015 18:34
1-Methylnaphthalene	ND		0.010	1	09/29/2015 18:34
2-Methylnaphthalene	ND		0.010	1	09/29/2015 18:34
Naphthalene	ND		0.010	1	09/29/2015 18:34
Phenanthrene	ND		0.010	1	09/29/2015 18:34
Pyrene	ND		0.010	1	09/29/2015 18:34
Surrogates	REC (%)		<u>Limits</u>		
1-Fluoronaphthalene	106		30-130		09/29/2015 18:34
2-Fluorobiphenyl	104		30-130		09/29/2015 18:34
Analyst(s): HK					

1509A61

### **Analytical Report**

Client: Essel Environmental Consulting WorkOrder:

Date Received:9/25/15 19:30Extraction Method:SW3550BDate Prepared:9/29/15Analytical Method:SW8270C-SIM

**Project:** 15166; EBALDC Unit: mg/kg

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID	
S-9½-ECB3	1509A61-009A	Soil	09/24/2015 10:35 GC35		110852	
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed	
Acenaphthene	ND		0.010	1	09/29/2015 18:59	
Acenaphthylene	ND		0.010	1	09/29/2015 18:59	
Anthracene	ND		0.010	1	09/29/2015 18:59	
Benzo (a) anthracene	ND		0.010	1	09/29/2015 18:59	
Benzo (b) fluoranthene	ND		0.010	1	09/29/2015 18:59	
Benzo (k) fluoranthene	ND		0.010	1	09/29/2015 18:59	
Benzo (g,h,i) perylene	ND		0.010	1	09/29/2015 18:59	
Benzo (a) pyrene	ND		0.010	1	09/29/2015 18:59	
Chrysene	ND		0.010	1	09/29/2015 18:59	
Dibenzo (a,h) anthracene	ND		0.010	1	09/29/2015 18:59	
Fluoranthene	ND		0.010	1	09/29/2015 18:59	
Fluorene	ND		0.010	1	09/29/2015 18:59	
Indeno (1,2,3-cd) pyrene	ND		0.010	1	09/29/2015 18:59	
1-Methylnaphthalene	ND		0.010	1	09/29/2015 18:59	
2-Methylnaphthalene	ND		0.010	1	09/29/2015 18:59	
Naphthalene	ND		0.010	1	09/29/2015 18:59	
Phenanthrene	ND		0.010	1	09/29/2015 18:59	
Pyrene	ND		0.010	1	09/29/2015 18:59	
Surrogates	REC (%)		<u>Limits</u>			
1-Fluoronaphthalene	107		30-130		09/29/2015 18:59	
2-Fluorobiphenyl	100		30-130		09/29/2015 18:59	
Analyst(s): HK						

### **Analytical Report**

Client: Essel Environmental Consulting WorkOrder: 1509A61

Date Received:9/25/15 19:30Extraction Method:SW3550BDate Prepared:9/29/15Analytical Method:SW8270C-SIM

**Project:** 15166; EBALDC Unit: mg/kg

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID
S-4-ECB5	1509A61-016A	Soil	09/24/201	15 14:44 GC35	110852
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Acenaphthene	ND		0.010	1	09/29/2015 19:24
Acenaphthylene	ND		0.010	1	09/29/2015 19:24
Anthracene	ND		0.010	1	09/29/2015 19:24
Benzo (a) anthracene	ND		0.010	1	09/29/2015 19:24
Benzo (b) fluoranthene	ND		0.010	1	09/29/2015 19:24
Benzo (k) fluoranthene	ND		0.010	1	09/29/2015 19:24
Benzo (g,h,i) perylene	ND		0.010	1	09/29/2015 19:24
Benzo (a) pyrene	ND		0.010	1	09/29/2015 19:24
Chrysene	ND		0.010	1	09/29/2015 19:24
Dibenzo (a,h) anthracene	ND		0.010	1	09/29/2015 19:24
Fluoranthene	ND		0.010	1	09/29/2015 19:24
Fluorene	ND		0.010	1	09/29/2015 19:24
Indeno (1,2,3-cd) pyrene	ND		0.010	1	09/29/2015 19:24
1-Methylnaphthalene	ND		0.010	1	09/29/2015 19:24
2-Methylnaphthalene	ND		0.010	1	09/29/2015 19:24
Naphthalene	ND		0.010	1	09/29/2015 19:24
Phenanthrene	ND		0.010	1	09/29/2015 19:24
Pyrene	ND		0.010	1	09/29/2015 19:24
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
1-Fluoronaphthalene	113		30-130		09/29/2015 19:24
2-Fluorobiphenyl	104		30-130		09/29/2015 19:24
Analyst(s): HK					

1509A61

### **Analytical Report**

Client: Essel Environmental Consulting WorkOrder:

**Project:** 15166; EBALDC Unit: mg/kg

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID
S-8-ECB5	1509A61-017A	Soil	09/24/201	15 14:53 GC35	110852
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Acenaphthene	ND		0.010	1	09/29/2015 19:48
Acenaphthylene	ND		0.010	1	09/29/2015 19:48
Anthracene	ND		0.010	1	09/29/2015 19:48
Benzo (a) anthracene	ND		0.010	1	09/29/2015 19:48
Benzo (b) fluoranthene	ND		0.010	1	09/29/2015 19:48
Benzo (k) fluoranthene	ND		0.010	1	09/29/2015 19:48
Benzo (g,h,i) perylene	ND		0.010	1	09/29/2015 19:48
Benzo (a) pyrene	ND		0.010	1	09/29/2015 19:48
Chrysene	ND		0.010	1	09/29/2015 19:48
Dibenzo (a,h) anthracene	ND		0.010	1	09/29/2015 19:48
Fluoranthene	ND		0.010	1	09/29/2015 19:48
Fluorene	ND		0.010	1	09/29/2015 19:48
Indeno (1,2,3-cd) pyrene	ND		0.010	1	09/29/2015 19:48
1-Methylnaphthalene	ND		0.010	1	09/29/2015 19:48
2-Methylnaphthalene	ND		0.010	1	09/29/2015 19:48
Naphthalene	ND		0.010	1	09/29/2015 19:48
Phenanthrene	ND		0.010	1	09/29/2015 19:48
Pyrene	ND		0.010	1	09/29/2015 19:48
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
1-Fluoronaphthalene	122		30-130		09/29/2015 19:48
2-Fluorobiphenyl	103		30-130		09/29/2015 19:48
Analyst(s): HK					

1509A61

### **Analytical Report**

Client: Essel Environmental Consulting WorkOrder:

Date Received:9/25/15 19:30Extraction Method:SW3550BDate Prepared:9/29/15Analytical Method:SW8270C-SIM

**Project:** 15166; EBALDC Unit: mg/kg

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID
S-4½-ECB7	1509A61-025	A Soil	09/25/20	15 11:13 GC35	110852
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Acenaphthene	ND		0.010	1	09/29/2015 16:28
Acenaphthylene	ND		0.010	1	09/29/2015 16:28
Anthracene	ND		0.010	1	09/29/2015 16:28
Benzo (a) anthracene	ND		0.010	1	09/29/2015 16:28
Benzo (b) fluoranthene	ND		0.010	1	09/29/2015 16:28
Benzo (k) fluoranthene	ND		0.010	1	09/29/2015 16:28
Benzo (g,h,i) perylene	ND		0.010	1	09/29/2015 16:28
Benzo (a) pyrene	ND		0.010	1	09/29/2015 16:28
Chrysene	ND		0.010	1	09/29/2015 16:28
Dibenzo (a,h) anthracene	ND		0.010	1	09/29/2015 16:28
Fluoranthene	ND		0.010	1	09/29/2015 16:28
Fluorene	ND		0.010	1	09/29/2015 16:28
Indeno (1,2,3-cd) pyrene	ND		0.010	1	09/29/2015 16:28
1-Methylnaphthalene	ND		0.010	1	09/29/2015 16:28
2-Methylnaphthalene	ND		0.010	1	09/29/2015 16:28
Naphthalene	ND		0.010	1	09/29/2015 16:28
Phenanthrene	ND		0.010	1	09/29/2015 16:28
Pyrene	ND		0.010	1	09/29/2015 16:28
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
1-Fluoronaphthalene	112		30-130		09/29/2015 16:28
2-Fluorobiphenyl	103		30-130		09/29/2015 16:28
Analyst(s): HK					

# **Analytical Report**

Client: Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/29/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW3550B

**Analytical Method:** SW8270C-SIM

Unit: mg/kg

### Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode by GC/MS

Client ID	Lab ID	Matrix	Date Col	llected Instrument	Batch ID
S-91/2-ECB7	1509A61-026A	Soil	09/25/201	5 11:18 GC35	110852
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Acenaphthene	ND		0.010	1	09/29/2015 20:13
Acenaphthylene	ND		0.010	1	09/29/2015 20:13
Anthracene	ND		0.010	1	09/29/2015 20:13
Benzo (a) anthracene	ND		0.010	1	09/29/2015 20:13
Benzo (b) fluoranthene	ND		0.010	1	09/29/2015 20:13
Benzo (k) fluoranthene	ND		0.010	1	09/29/2015 20:13
Benzo (g,h,i) perylene	ND		0.010	1	09/29/2015 20:13
Benzo (a) pyrene	ND		0.010	1	09/29/2015 20:13
Chrysene	ND		0.010	1	09/29/2015 20:13
Dibenzo (a,h) anthracene	ND		0.010	1	09/29/2015 20:13
Fluoranthene	ND		0.010	1	09/29/2015 20:13
Fluorene	ND		0.010	1	09/29/2015 20:13
Indeno (1,2,3-cd) pyrene	ND		0.010	1	09/29/2015 20:13
1-Methylnaphthalene	ND		0.010	1	09/29/2015 20:13
2-Methylnaphthalene	ND		0.010	1	09/29/2015 20:13
Naphthalene	ND		0.010	1	09/29/2015 20:13
Phenanthrene	ND		0.010	1	09/29/2015 20:13
Pyrene	ND		0.010	1	09/29/2015 20:13
<u>Surrogates</u>	REC (%)		<u>Limits</u>		
1-Fluoronaphthalene	108		30-130		09/29/2015 20:13
2-Fluorobiphenyl	103		30-130		09/29/2015 20:13
Analyst(s): HK					

# **Analytical Report**

Client: Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15-9/29/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**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	Date Co	llected Instrument	Batch ID
S-121/2-ECB1	1509A61-001A	Soil	09/24/201	5 08:45 GC19	110776
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
TPH(g)	ND		1.0	1	09/28/2015 22:24
MTBE			0.050	1	09/28/2015 22:24
Benzene			0.0050	1	09/28/2015 22:24
Toluene			0.0050	1	09/28/2015 22:24
Ethylbenzene			0.0050	1	09/28/2015 22:24
Xylenes			0.0050	1	09/28/2015 22:24
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
2-Fluorotoluene	116		70-130		09/28/2015 22:24
Analyst(s): IA					

Client ID	Lab ID Matrix	Date Collected Instrument	Batch ID
S-19½-ECB1	1509A61-002A Soil	09/24/2015 08:59 GC19	110776
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	ND	1.0 1	09/28/2015 21:53
MTBE		0.050 1	09/28/2015 21:53
Benzene		0.0050 1	09/28/2015 21:53
Toluene		0.0050 1	09/28/2015 21:53
Ethylbenzene		0.0050 1	09/28/2015 21:53
Xylenes		0.0050 1	09/28/2015 21:53
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
2-Fluorotoluene	119	70-130	09/28/2015 21:53
Analyst(s): IA			

# **Analytical Report**

**Client: Essel Environmental Consulting** WorkOrder:

1509A61 **Date Received:** 9/25/15 19:30 **Extraction Method: SW5030B Date Prepared:** 9/28/15-9/29/15 Analytical Method: SW8021B/8015Bm

**Project:** 15166; EBALDC Unit: mg/Kg

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID
S-15-ECB1	1509A61-003A Soil	09/24/2015 08:55 GC19	110776
Analytes	Result	<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	ND	1.0 1	09/28/2015 20:53
MTBE		0.050 1	09/28/2015 20:53
Benzene		0.0050 1	09/28/2015 20:53
Toluene		0.0050 1	09/28/2015 20:53
Ethylbenzene		0.0050 1	09/28/2015 20:53
Xylenes		0.0050 1	09/28/2015 20:53
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
2-Fluorotoluene	108	70-130	09/28/2015 20:53
Analyst(s): IA			

Client ID	Lab ID Matrix	Date Collected Instrument	Batch ID
S-4½-ECB2	1509A61-004A Soil	09/24/2015 09:27 GC19	110776
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	ND	1.0 1	09/28/2015 22:54
MTBE		0.050 1	09/28/2015 22:54
Benzene		0.0050 1	09/28/2015 22:54
Toluene		0.0050 1	09/28/2015 22:54
Ethylbenzene		0.0050 1	09/28/2015 22:54
Xylenes		0.0050 1	09/28/2015 22:54
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
2-Fluorotoluene	124	70-130	09/28/2015 22:54
Analyst(s): IA			

1509A61

# **Analytical Report**

Client: Essel Environmental Consulting WorkOrder:

Date Received: 9/25/15 19:30 Extraction Method: SW5030B

**Date Prepared:** 9/28/15-9/29/15 **Analytical Method:** SW8021B/8015Bm

**Project:** 15166; EBALDC Unit: mg/Kg

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

Client ID	Lab ID	Matrix	Date Co	llected Instrument	Batch ID
S-9-ECB2	1509A61-005A	Soil	09/24/201	5 09:48 GC19	110776
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
TPH(g)	ND		1.0	1	09/28/2015 23:54
MTBE			0.050	1	09/28/2015 23:54
Benzene			0.0050	1	09/28/2015 23:54
Toluene			0.0050	1	09/28/2015 23:54
Ethylbenzene			0.0050	1	09/28/2015 23:54
Xylenes			0.0050	1	09/28/2015 23:54
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
2-Fluorotoluene	116		70-130		09/28/2015 23:54
Analyst(s): IA					

Client ID	Lab ID Matrix	Date Collected Instrument	Batch ID
S-17-ECB2	1509A61-006A Soil	09/24/2015 10:05 GC19	110776
Analytes	Result	<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	ND	1.0 1	09/29/2015 00:24
MTBE		0.050 1	09/29/2015 00:24
Benzene		0.0050 1	09/29/2015 00:24
Toluene		0.0050 1	09/29/2015 00:24
Ethylbenzene		0.0050 1	09/29/2015 00:24
Xylenes		0.0050 1	09/29/2015 00:24
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
2-Fluorotoluene	114	70-130	09/29/2015 00:24
Analyst(s): IA			

# **Analytical Report**

**Client: Essel Environmental Consulting** WorkOrder:

1509A61 **Date Received:** 9/25/15 19:30 **Extraction Method: SW5030B Date Prepared:** 9/28/15-9/29/15 Analytical Method: SW8021B/8015Bm

**Project:** 15166; EBALDC Unit: mg/Kg

Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
S-19½-ECB2	1509A61-007A	Soil	09/24/20	015 10:07 GC19	110776
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
TPH(g)	ND		1.0	1	10/01/2015 02:16
MTBE			0.050	1	10/01/2015 02:16
Benzene			0.0050	1	10/01/2015 02:16
Toluene			0.0050	1	10/01/2015 02:16
Ethylbenzene			0.0050	1	10/01/2015 02:16
Xylenes			0.0050	1	10/01/2015 02:16
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
2-Fluorotoluene	107		70-130		10/01/2015 02:16
Analyst(s): IA					

Client ID	Lab ID M	atrix	Date Co	ollected Instrument	Batch ID
S-4½-ECB3	1509A61-008A So	oil	09/24/201	15 10:10 GC19	110776
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
TPH(g)	ND		1.0	1	09/29/2015 01:24
MTBE			0.050	1	09/29/2015 01:24
Benzene			0.0050	1	09/29/2015 01:24
Toluene			0.0050	1	09/29/2015 01:24
Ethylbenzene			0.0050	1	09/29/2015 01:24
Xylenes			0.0050	1	09/29/2015 01:24
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
2-Fluorotoluene	120		70-130		09/29/2015 01:24
Analyst(s): IA					

# **Analytical Report**

**Client: Essel Environmental Consulting** 

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15-9/29/15 Analytical Method: SW8021B/8015Bm

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method: SW5030B** 

Unit: mg/Kg

Gasoline Range	(C6-C12)	Volatile Hvd	rocarbons as	Gasoline v	with BTEX and MTBE
Oasoniic Range	(CU-CI#/	v olatic ilva	i ocai bolib ab	Oasoniic i	

Client ID	Lab ID Matri	x Date Collected Instrument	Batch ID
S-91/2-ECB3	1509A61-009A Soil	09/24/2015 10:35 GC19	110776
<u>Analytes</u>	<u>Result</u>	<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	ND	1.0 1	09/29/2015 01:54
MTBE		0.050 1	09/29/2015 01:54
Benzene		0.0050 1	09/29/2015 01:54
Toluene		0.0050 1	09/29/2015 01:54
Ethylbenzene		0.0050 1	09/29/2015 01:54
Xylenes		0.0050 1	09/29/2015 01:54
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
2-Fluorotoluene	115	70-130	09/29/2015 01:54
Analyst(s): IA			

Client ID	Lab ID Ma	trix Date Collected Instrument Batch ID
S-15½-ECB3	1509A61-010A So	09/24/2015 10:57 GC19 110776
<u>Analytes</u>	Result	RL DF Date Analyzed
TPH(g)	200	5.0 5 09/29/2015 15:27
MTBE		0.25 5 09/29/2015 15:27
Benzene		0.025 5 09/29/2015 15:27
Toluene		0.025 5 09/29/2015 15:27
Ethylbenzene		0.025 5 09/29/2015 15:27
Xylenes		0.025 5 09/29/2015 15:27
<u>Surrogates</u>	REC (%)	<u>Limits</u>
2-Fluorotoluene	86	70-130 09/29/2015 15:27
Analyst(s): IA		Analytical Comments: d7,d9

# **Analytical Report**

Client: Essel Environmental Consulting WorkOrder: 1509A61

Date Received: 9/25/15 19:30 Extraction Method: SW5030B

**Date Prepared:** 9/28/15-9/29/15 **Analytical Method:** SW8021B/8015Bm

**Project:** 15166; EBALDC Unit: mg/Kg

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

Client ID	Lab ID	Matrix	Date Co	llected Instrument	Batch ID
S-181/2-ECB3	1509A61-011A	Soil	09/24/201	5 11:03 GC19	110776
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
TPH(g)	ND		1.0	1	09/29/2015 02:25
MTBE			0.050	1	09/29/2015 02:25
Benzene			0.0050	1	09/29/2015 02:25
Toluene			0.0050	1	09/29/2015 02:25
Ethylbenzene			0.0050	1	09/29/2015 02:25
Xylenes			0.0050	1	09/29/2015 02:25
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
2-Fluorotoluene	117		70-130		09/29/2015 02:25
Analyst(s): IA					

Client ID	Lab ID Matrix	Date Collected Instrument	Batch ID
S-41/2-ECB4	1509A61-012A Soil	09/24/2015 10:55 GC19	110776
Analytes	Result	<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	ND	1.0 1	10/01/2015 02:46
MTBE		0.050 1	10/01/2015 02:46
Benzene		0.0050 1	10/01/2015 02:46
Toluene		0.0050 1	10/01/2015 02:46
Ethylbenzene		0.0050 1	10/01/2015 02:46
Xylenes		0.0050 1	10/01/2015 02:46
Surrogates	<u>REC (%)</u>	<u>Limits</u>	
2-Fluorotoluene	105	70-130	10/01/2015 02:46
Analyst(s): IA			

# **Analytical Report**

Client: Essel Environmental Consulting WorkOrder: 1509A61

Date Received: 9/25/15 19:30 Extraction Method: SW5030B

Date Prepared: 9/28/15-9/29/15 Analytical Method: SW8021B/8015Bm

**Project:** 15166; EBALDC Unit: mg/Kg

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

Client ID	Lab ID	Matrix	Date Co	llected Instrument	Batch ID
S-9-ECB4	1509A61-013A	Soil	09/24/201	5 11:01 GC19	110776
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
TPH(g)	ND		1.0	1	09/29/2015 04:25
MTBE			0.050	1	09/29/2015 04:25
Benzene			0.0050	1	09/29/2015 04:25
Toluene			0.0050	1	09/29/2015 04:25
Ethylbenzene			0.0050	1	09/29/2015 04:25
Xylenes			0.0050	1	09/29/2015 04:25
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
2-Fluorotoluene	118		70-130		09/29/2015 04:25
$\Delta$ nalvet(e): $I\Delta$					

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID
S-13-ECB4	1509A61-014A	Soil	09/24/20	15 11:10 GC19	110776
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
TPH(g)	400		20	20	09/29/2015 14:56
MTBE			1.0	20	09/29/2015 14:56
Benzene			0.10	20	09/29/2015 14:56
Toluene			0.10	20	09/29/2015 14:56
Ethylbenzene			0.10	20	09/29/2015 14:56
Xylenes			0.10	20	09/29/2015 14:56
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
2-Fluorotoluene	81		70-130		09/29/2015 14:56
Analyst(s): IA			Analytical Com	ments: d7,d9	

# **Analytical Report**

Client: Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15-9/29/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**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 M	latrix Date	Collected Instrument	Batch ID
S-171/2-ECB4	1509A61-015A So	oil 09/24/	2015 11:12 GC19	110815
<u>Analytes</u>	Result	<u>RL</u>	<u>DF</u>	Date Analyzed
TPH(g)	ND	1.0	1	09/30/2015 03:40
MTBE		0.050	1	09/30/2015 03:40
Benzene		0.0050	) 1	09/30/2015 03:40
Toluene		0.0050	) 1	09/30/2015 03:40
Ethylbenzene		0.0050	) 1	09/30/2015 03:40
Xylenes		0.0050	) 1	09/30/2015 03:40
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	111	70-130	)	09/30/2015 03:40
Analyst(s): IA				

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID
S-4-ECB5	1509A61-016A	Soil	09/24/201	I5 14:44 GC19	110785
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
TPH(g)	2.1		1.0	1	10/01/2015 03:16
MTBE			0.050	1	10/01/2015 03:16
Benzene			0.0050	1	10/01/2015 03:16
Toluene			0.0050	1	10/01/2015 03:16
Ethylbenzene			0.0050	1	10/01/2015 03:16
Xylenes			0.0050	1	10/01/2015 03:16
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
2-Fluorotoluene	100		70-130		10/01/2015 03:16

Analytical Comments: d7

# **Analytical Report**

**Client: Essel Environmental Consulting** WorkOrder: 1509A61

**Date Received:** 9/25/15 19:30 **Extraction Method: SW5030B Date Prepared:** 9/28/15-9/29/15 Analytical Method: SW8021B/8015Bm

**Project:** 15166; EBALDC Unit: mg/Kg

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

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID
S-8-ECB5	1509A61-017A	Soil	09/24/20	15 14:53 GC7	110785
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
TPH(g)	130		10	10	09/30/2015 13:41
MTBE			0.50	10	09/30/2015 13:41
Benzene			0.050	10	09/30/2015 13:41
Toluene			0.050	10	09/30/2015 13:41
Ethylbenzene			0.050	10	09/30/2015 13:41
Xylenes			0.050	10	09/30/2015 13:41
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
2-Fluorotoluene	103		70-130		09/30/2015 13:41
Analyst(s): IA			Analytical Comr	nents: d7 d9	

Analytical Comments: d7,d9

Client ID	Lab ID Matri	x Date Collected Instrument	Batch ID
S-14½-ECB5	1509A61-018A Soil	09/24/2015 15:07 GC19	110785
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	95	5.0 5	09/29/2015 17:00
MTBE		0.25 5	09/29/2015 17:00
Benzene		0.025 5	09/29/2015 17:00
Toluene		0.025 5	09/29/2015 17:00
Ethylbenzene		0.025 5	09/29/2015 17:00
Xylenes		0.025 5	09/29/2015 17:00
<u>Surrogates</u>	REC (%)	<u>Limits</u>	
2-Fluorotoluene	97	70-130	09/29/2015 17:00
Analyst(s): IA		Analytical Comments: d7,d9	

# **Analytical Report**

**Client: Essel Environmental Consulting** 

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15-9/29/15

**Project:** 15166; EBALDC WorkOrder: 1509A61

**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	<b>Date Collected Instrument</b>	Batch ID
S-18-ECB5	1509A61-019A Soil	09/24/2015 15:14 GC19	110785
Analytes	Result	<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	ND	1.0 1	10/01/2015 03:47
MTBE		0.050 1	10/01/2015 03:47
Benzene		0.0050 1	10/01/2015 03:47
Toluene		0.0050 1	10/01/2015 03:47
Ethylbenzene		0.0050 1	10/01/2015 03:47
Xylenes		0.0050 1	10/01/2015 03:47
Surrogates	REC (%)	<u>Limits</u>	
2-Fluorotoluene	98	70-130	10/01/2015 03:47
Analyst(s): IA			

**Client ID** Lab ID Matrix **Date Collected Instrument** 

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID
S-13-ECB6	1509A61-020A Soil	09/24/2015 17:38 GC19	110785
<u>Analytes</u>	<u>Result</u>	<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	ND	1.0 1	10/01/2015 04:17
MTBE		0.050 1	10/01/2015 04:17
Benzene		0.0050 1	10/01/2015 04:17
Toluene		0.0050 1	10/01/2015 04:17
Ethylbenzene		0.0050 1	10/01/2015 04:17
Xylenes		0.0050 1	10/01/2015 04:17
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
2-Fluorotoluene	104	70-130	10/01/2015 04:17
Analyst(s): IA			

# **Analytical Report**

**Client: Essel Environmental Consulting** WorkOrder:

1509A61 **Date Received:** 9/25/15 19:30 **Extraction Method: SW5030B Date Prepared:** 9/28/15-9/29/15 Analytical Method: SW8021B/8015Bm

**Project:** 15166; EBALDC Unit: mg/Kg

Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
S-13-ECB11	1509A61-021A	Soil	09/24/20	15 11:45 GC19	110785
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
TPH(g)	ND		1.0	1	10/01/2015 04:48
MTBE			0.050	1	10/01/2015 04:48
Benzene			0.0050	1	10/01/2015 04:48
Toluene			0.0050	1	10/01/2015 04:48
Ethylbenzene			0.0050	1	10/01/2015 04:48
Xylenes			0.0050	1	10/01/2015 04:48
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
2-Fluorotoluene	108		70-130		10/01/2015 04:48
Analyst(s): IA					

Client ID	Lab ID Matrix	Date Collected Instrument	Batch ID
S-13-ECB13	1509A61-022A Soil	09/24/2015 13:14 GC19	110785
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	ND	1.0 1	10/01/2015 05:18
MTBE		0.050 1	10/01/2015 05:18
Benzene		0.0050 1	10/01/2015 05:18
Toluene		0.0050 1	10/01/2015 05:18
Ethylbenzene		0.0050 1	10/01/2015 05:18
Xylenes		0.0050 1	10/01/2015 05:18
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
2-Fluorotoluene	101	70-130	10/01/2015 05:18
Analyst(s): IA			

# **Analytical Report**

**Client: Essel Environmental Consulting** WorkOrder: 1509A61

**Date Received:** 9/25/15 19:30 **Extraction Method: SW5030B Date Prepared:** 9/28/15-9/29/15 Analytical Method: SW8021B/8015Bm

**Project:** 15166; EBALDC Unit: mg/Kg

Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
S-13-ECB14	1509A61-023A	Soil	09/24/20	15 14:13 GC19	110785
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
TPH(g)	ND		1.0	1	10/01/2015 05:48
MTBE			0.050	1	10/01/2015 05:48
Benzene			0.0050	1	10/01/2015 05:48
Toluene			0.0050	1	10/01/2015 05:48
Ethylbenzene			0.0050	1	10/01/2015 05:48
Xylenes			0.0050	1	10/01/2015 05:48
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
2-Fluorotoluene	107		70-130		10/01/2015 05:48
Analyst(s): IA					

Client ID	Lab ID Matrix	Date Collected Instrument	Batch ID
S-181/2-ECB14	1509A61-024A Soil	09/24/2015 14:31 GC19	110785
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	ND	1.0 1	10/01/2015 07:50
MTBE		0.050 1	10/01/2015 07:50
Benzene		0.0050 1	10/01/2015 07:50
Toluene		0.0050 1	10/01/2015 07:50
Ethylbenzene		0.0050 1	10/01/2015 07:50
Xylenes		0.0050 1	10/01/2015 07:50
<u>Surrogates</u>	REC (%)	<u>Limits</u>	
2-Fluorotoluene	99	70-130	10/01/2015 07:50
Analyst(s): IA			

# **Analytical Report**

**Client: Essel Environmental Consulting** WorkOrder: 1509A61

**Date Received:** 9/25/15 19:30 **Extraction Method: SW5030B Date Prepared:** 9/28/15-9/29/15 Analytical Method: SW8021B/8015Bm

**Project:** 15166; EBALDC Unit: mg/Kg

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID
S-4½-ECB7	1509A61-025A Soil	09/25/2015 11:13 GC7	110785
Analytes	Result	<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	ND	1.0 1	09/30/2015 19:41
MTBE		0.050 1	09/30/2015 19:41
Benzene		0.0050 1	09/30/2015 19:41
Toluene		0.0050 1	09/30/2015 19:41
Ethylbenzene		0.0050 1	09/30/2015 19:41
Xylenes		0.0050 1	09/30/2015 19:41
<u>Surrogates</u>	REC (%)	<u>Limits</u>	
2-Fluorotoluene	105	70-130	09/30/2015 19:41
Analyst(s): IA			

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID
S-91/2-ECB7	1509A61-026A Soil	09/25/2015 11:18 GC7	110785
Analytes	Result	<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	ND	1.0 1	09/30/2015 20:11
MTBE		0.050 1	09/30/2015 20:11
Benzene		0.0050 1	09/30/2015 20:11
Toluene		0.0050 1	09/30/2015 20:11
Ethylbenzene		0.0050 1	09/30/2015 20:11
Xylenes		0.0050 1	09/30/2015 20:11
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
2-Fluorotoluene	103	70-130	09/30/2015 20:11
Analyst(s): IA			

# **Analytical Report**

Client: Essel Environmental Consulting WorkOrder: 1509A61

Date Received: 9/25/15 19:30 Extraction Method: SW5030B

**Date Prepared:** 9/28/15-9/29/15 **Analytical Method:** SW8021B/8015Bm

**Project:** 15166; EBALDC Unit: mg/Kg

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

Client ID	Lab ID Matrix	Date Collected Instrument	Batch ID
S-13-ECB8	1509A61-027A Soil	09/25/2015 08:06 GC7	110785
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	ND	1.0 1	09/30/2015 20:41
MTBE		0.050 1	09/30/2015 20:41
Benzene		0.0050 1	09/30/2015 20:41
Toluene		0.0050 1	09/30/2015 20:41
Ethylbenzene		0.0050 1	09/30/2015 20:41
Xylenes		0.0050 1	09/30/2015 20:41
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
2-Fluorotoluene	105	70-130	09/30/2015 20:41
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Client ID	Lab ID Mat	rix Date Collected Instrument	Batch ID
S-13-ECB9	1509A61-028A Soil	09/25/2015 08:34 GC7	110785
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	ND	1.0 1	09/30/2015 21:11
MTBE		0.050 1	09/30/2015 21:11
Benzene		0.0050 1	09/30/2015 21:11
Toluene		0.0050 1	09/30/2015 21:11
Ethylbenzene		0.0050 1	09/30/2015 21:11
Xylenes		0.0050 1	09/30/2015 21:11
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
2-Fluorotoluene	104	70-130	09/30/2015 21:11
Analyst(s): IA			

# **Analytical Report**

**Client: Essel Environmental Consulting** 

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15-9/29/15

**Project:** 15166; EBALDC WorkOrder: 1509A61

**Extraction Method: SW5030B** 

Analytical Method: SW8021B/8015Bm

Unit: mg/Kg

Gasoline Range	(C6-C12)	Volatile Hydro	ocarhons as C	Fasoline wi	ith BTEX and MTBE
Gasoniic Mange	(00-014)	voiauic iivui	icai nons as c	jasumic wi	

Client ID	Lab ID Ma	atrix Date C	ollected Instrument	Batch ID
S-13-ECB10	1509A61-029A So	il 09/25/20	15 09:26 GC19	110785
<u>Analytes</u>	Result	<u>RL</u>	<u>DF</u>	Date Analyzed
TPH(g)	ND	1.0	1	09/30/2015 18:38
MTBE		0.050	1	09/30/2015 18:38
Benzene		0.0050	1	09/30/2015 18:38
Toluene		0.0050	1	09/30/2015 18:38
Ethylbenzene		0.0050	1	09/30/2015 18:38
Xylenes		0.0050	1	09/30/2015 18:38
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorotoluene	114	70-130		09/30/2015 18:38
Analyst(s): IA				

Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID		
S-141/2-ECB10	1509A61-030A	Soil	09/25/20	015 09:29 GC3	110785		
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed		
TPH(g)	360		200	200	09/29/2015 16:22		
MTBE			10	200	09/29/2015 16:22		
Benzene			1.0	200	09/29/2015 16:22		
Toluene			1.0	200	09/29/2015 16:22		
Ethylbenzene			1.0	200	09/29/2015 16:22		
Xylenes			1.0	200	09/29/2015 16:22		
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>				
2-Fluorotoluene	127		70-130		09/29/2015 16:22		
Analyst(s): IA		Analytical Comments: d7					

# **Analytical Report**

Client: Essel Environmental Consulting WorkOrder: 1509A61

Date Received: 9/25/15 19:30 Extraction Method: SW5030B

**Date Prepared:** 9/28/15-9/29/15 **Analytical Method:** SW8021B/8015Bm

**Project:** 15166; EBALDC Unit: mg/Kg

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID
S-13-ECB12	1509A61-031A	Soil	09/25/201	15 10:17 GC7	110785
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
TPH(g)	ND		1.0	1	09/30/2015 21:41
MTBE			0.050	1	09/30/2015 21:41
Benzene			0.0050	1	09/30/2015 21:41
Toluene			0.0050	1	09/30/2015 21:41
Ethylbenzene			0.0050	1	09/30/2015 21:41
Xylenes			0.0050	1	09/30/2015 21:41
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
2-Fluorotoluene	107		70-130		09/30/2015 21:41
Analyst(s): IA					

# **Analytical Report**

Client: Essel Environmental Consulting

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**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW3550B/3630C

**Analytical Method:** SW8015B

**Unit:** mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up						
Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID	
S-12½-ECB1	1509A61-001A	Soil	09/24/20	15 08:45 GC9b	110783	
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed	
TPH-Diesel (C10-C23)	ND		1.0	1	09/30/2015 02:03	
TPH-Motor Oil (C18-C36)	ND		5.0	1	09/30/2015 02:03	
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
C9	97		70-130		09/30/2015 02:03	
Analyst(s): TK						
Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID	
S-19½-ECB1	1509A61-002A	Soil	09/24/20	15 08:59 GC6A	110783	
Analytes	Result		<u>RL</u>	DF	Date Analyzed	
TPH-Diesel (C10-C23)	ND		1.0	1	09/30/2015 01:34	
TPH-Motor Oil (C18-C36)	ND		5.0	1	09/30/2015 01:34	
Surrogates	<u>REC (%)</u>		<u>Limits</u>			

Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
S-15-ECB1	1509A61-003A	Soil	09/24/20	015 08:55 GC9b	110783
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
TPH-Diesel (C10-C23)	ND		1.0	1	09/30/2015 03:14
TPH-Motor Oil (C18-C36)	ND		5.0	1	09/30/2015 03:14
<u>Surrogates</u>	REC (%)		<u>Limits</u>		
C9	97		70-130		09/30/2015 03:14
Analyst(s): TK					

70-130

C9

Analyst(s): TK

09/30/2015 01:34

# **Analytical Report**

Client: Essel Environmental Consulting WorkOrder: 1509A61

**Date Received:** 9/25/15 19:30 **Extraction Method:** SW3550B/3630C

Date Prepared:9/28/15Analytical Method:SW8015BProject:15166; EBALDCUnit:mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up							
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID		
S-41/2-ECB2	1509A61-004A	Soil	09/24/2015 09:27	GC9b	110783		
<u>Analytes</u>	Result		<u>RL</u> <u>DF</u>		Date Analyzed		
TPH-Diesel (C10-C23)	ND		1.0 1		09/29/2015 22:31		
TPH-Motor Oil (C18-C36)	5.4		5.0 1		09/29/2015 22:31		
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>				
C9	96		70-130		09/29/2015 22:31		
Analyst(s): TK			Analytical Comments: e7				
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch II		
S-9-ECB2	1509A61-005A	Soil	09/24/2015 09:48	GC6A	110783		
Analytes	Result		<u>RL</u> <u>DF</u>		Date Analyzed		
TPH-Diesel (C10-C23)	ND		1.0 1		09/30/2015 07:31		
TPH-Motor Oil (C18-C36)	ND		5.0 1		09/30/2015 07:3		
Surrogates	<u>REC (%)</u>		<u>Limits</u>				
C9	84		70-130		09/30/2015 07:31		
Analyst(s): TK							
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch II		
S-17-ECB2	1509A61-006A	Soil	09/24/2015 10:05	GC6A	110783		
<u>Analytes</u>	Result		<u>RL</u> <u>DF</u>		Date Analyzed		
TPH-Diesel (C10-C23)	ND		1.0 1		09/30/2015 09:54		
TPH-Motor Oil (C18-C36)	ND		5.0 1		09/30/2015 09:54		
Surrogates	REC (%)		<u>Limits</u>				
C9	91		70-130		09/30/2015 09:54		

Analyst(s): TK

# **Analytical Report**

Client: Essel Environmental Consulting WorkOrder: 1509A61

**Date Received:** 9/25/15 19:30 **Extraction Method:** SW3550B/3630C

Date Prepared:9/28/15Analytical Method:SW8015BProject:15166; EBALDCUnit:mg/Kg

			earbons with Silica		
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-19½-ECB2	1509A61-007A	Soil	09/24/2015 10:07	GC6A	110783
<u>Analytes</u>	Result		<u>RL</u> <u>DF</u>		Date Analyzed
TPH-Diesel (C10-C23)	ND		1.0 1		09/30/2015 11:06
TPH-Motor Oil (C18-C36)	ND		5.0 1		09/30/2015 11:06
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
C9	90		70-130		09/30/2015 11:06
Analyst(s): TK					
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-41/2-ECB3	1509A61-008A	Soil	09/24/2015 10:10	GC6A	110783
Analytes	Result		<u>RL</u> <u>DF</u>		Date Analyzed
TPH-Diesel (C10-C23)	1.1		1.0 1		09/30/2015 13:35
TPH-Motor Oil (C18-C36)	ND		5.0 1		09/30/2015 13:35
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
C9	100		70-130		09/30/2015 13:35
Analyst(s): TK			Analytical Comments: e	2	
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-91/2-ECB3	1509A61-009A	Soil	09/24/2015 10:35	GC9a	110783
<u>Analytes</u>	Result		<u>RL</u> <u>DF</u>		Date Analyzed
TPH-Diesel (C10-C23)	ND		1.0 1		09/30/2015 02:03
TPH-Motor Oil (C18-C36)	ND		5.0 1		09/30/2015 02:03
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	101		70-130		09/30/2015 02:03

# **Analytical Report**

Client: Essel Environmental Consulting WorkOrder: 1509A61

**Date Received:** 9/25/15 19:30 **Extraction Method:** SW3550B/3630C

Date Prepared:9/28/15Analytical Method:SW8015BProject:15166; EBALDCUnit:mg/Kg

ND

ND

102

**REC (%)** 

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up						
Client ID	Lab ID	Matrix	Date Collected Instrument	Batch ID		
S-151/2-ECB3	1509A61-010A	Soil	09/24/2015 10:57 GC6A	110783		
<u>Analytes</u>	Result		<u>RL</u> <u>DF</u>	Date Analyzed		
TPH-Diesel (C10-C23)	930		10 10	09/30/2015 14:47		
TPH-Motor Oil (C18-C36)	310		50 10	09/30/2015 14:47		
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
C9	95		70-130	09/30/2015 14:47		
Analyst(s): TK			Analytical Comments: e3,e8			
Client ID	Lab ID	Matrix	Date Collected Instrument	Batch ID		
S-181/2-ECB3	1509A61-011A	Soil	09/24/2015 11:03 GC6A	110783		
Analytes	Result		<u>RL</u> <u>DF</u>	Date Analyzed		
TPH-Diesel (C10-C23)	ND		1.0 1	09/30/2015 20:47		
TPH-Motor Oil (C18-C36)	ND		5.0 1	09/30/2015 20:47		
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
C9	91		70-130	09/30/2015 20:47		
Analyst(s): TK						
Client ID	Lab ID	Matrix	Date Collected Instrument	Batch ID		
S-4½-ECB4	1509A61-012A	Soil	09/24/2015 10:55 GC9a	110783		
Analytes	Result		<u>RL</u> <u>DF</u>	Date Analyzed		

1.0

5.0

**Limits** 

70-130

TPH-Diesel (C10-C23)

Surrogates

Analyst(s): TK

C9

TPH-Motor Oil (C18-C36)

09/30/2015 06:47

09/30/2015 06:47

09/30/2015 06:47

# **Analytical Report**

Client: Essel Environmental Consulting WorkOrder: 1509A61

**Date Received:** 9/25/15 19:30 **Extraction Method:** SW3550B/3630C

Date Prepared:9/28/15Analytical Method:SW8015BProject:15166; EBALDCUnit:mg/Kg

Total E	xtractable Petroleu	ım Hydro	carbons with Silica	Gel Clean-Up	
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch II
S-9-ECB4	1509A61-013A	Soil	09/24/2015 11:01	GC9a	110783
<u>Analytes</u>	Result		<u>RL</u> <u>DF</u>		Date Analyzed
TPH-Diesel (C10-C23)	ND		1.0 1		09/30/2015 09:10
TPH-Motor Oil (C18-C36)	ND		5.0 1		09/30/2015 09:10
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
C9	102		70-130		09/30/2015 09:10
Analyst(s): TK					
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-13-ECB4	1509A61-014A	Soil	09/24/2015 11:10	GC11B	110783
Analytes	Result		<u>RL</u> <u>DF</u>		Date Analyzed
TPH-Diesel (C10-C23)	940		10 10		10/01/2015 11:43
TPH-Motor Oil (C18-C36)	310		50 10		10/01/2015 11:43
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
C9	107		70-130		10/01/2015 11:43
Analyst(s): TK			Analytical Comments:	·1	
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-171/2-ECB4	1509A61-015A	Soil	09/24/2015 11:12	GC9b	110783
<u>Analytes</u>	Result		<u>RL</u> <u>DF</u>		Date Analyzed
TPH-Diesel (C10-C23)	1.3		1.0 1		09/29/2015 23:42
TPH-Motor Oil (C18-C36)	ND		5.0 1		09/29/2015 23:42
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
C9	94		70-130		09/29/2015 23:42
Analyst(s): TK			Analytical Comments:	2	

# **Analytical Report**

Client: Essel Environmental Consulting WorkOrder: 1509A61

**Date Received:** 9/25/15 19:30 **Extraction Method:** SW3550B/3630C

Date Prepared:9/28/15Analytical Method:SW8015BProject:15166; EBALDCUnit:mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up						
Client ID	Lab ID	Matrix	Date Collected Instru	ment Batch ID		
S-4-ECB5	1509A61-016A	Soil	09/24/2015 14:44 GC9b	110783		
<u>Analytes</u>	Result		<u>RL</u> <u>DF</u>	Date Analyzed		
TPH-Diesel (C10-C23)	1.7		1.0 1	09/30/2015 09:10		
TPH-Motor Oil (C18-C36)	ND		5.0 1	09/30/2015 09:10		
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
C9	96		70-130	09/30/2015 09:10		
Analyst(s): TK			Analytical Comments: e11/e8,e2			
Client ID	Lab ID	Matrix	Date Collected Instru	ment Batch ID		
S-8-ECB5	1509A61-017A	Soil	09/24/2015 14:53 GC9b	110783		
Analytes	Result		<u>RL</u> <u>DF</u>	Date Analyzed		
TPH-Diesel (C10-C23)	12		1.0 1	09/30/2015 10:21		
TPH-Motor Oil (C18-C36)	ND		5.0 1	09/30/2015 10:21		
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
C9	99		70-130	09/30/2015 10:21		
Analyst(s): TK			Analytical Comments: e11			
Client ID	Lab ID	Matrix	Date Collected Instru	ment Batch ID		
S-141/2-ECB5	1509A61-018A	Soil	09/24/2015 15:07 GC9a	110783		
Analytes	Result		<u>RL</u> <u>DF</u>	Date Analyzed		
TPH-Diesel (C10-C23)	3.9		1.0 1	09/30/2015 13:55		
TPH-Motor Oil (C18-C36)	ND		5.0 1	09/30/2015 13:55		
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
C9	104		70-130	09/30/2015 13:55		
Analyst(s): TK			Analytical Comments: e11			

# **Analytical Report**

Client: Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/28/15

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**Extraction Method:** SW3550B/3630C

**Analytical Method:** SW8015B

**Unit:** mg/Kg

Client ID	Lab ID	Matrix	Date Co	ollected	Instrument	Batch ID
S-18-ECB5	1509A61-019A	Soil	09/24/20	15 15:14	GC9a	110783
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>		Date Analyzed
TPH-Diesel (C10-C23)	ND		1.0	1		09/30/2015 15:07
TPH-Motor Oil (C18-C36)	ND		5.0	1		09/30/2015 15:07
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
C9	102		70-130			09/30/2015 15:07
Analyst(s): TK						
Client ID	Lab ID	Matrix	Date C	ollected	Instrument	Batch ID
S-13-ECB6	1509A61-020A	Soil	09/24/20	15 17:38	GC9a	110783
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
TPH-Diesel (C10-C23)	ND		1.0	1		09/28/2015 22:14
TPH-Motor Oil (C18-C36)	ND		5.0	1		09/28/2015 22:14
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
C9	104		70-130			09/28/2015 22:14
Analyst(s): TK						
Analyst(s): TK						

Chefit ID	Lau ID Mail ix	Date Collected Histratilent	Daten ID
S-13-ECB11	1509A61-021A Soil	09/24/2015 11:45 GC9a	110784
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0 1	09/30/2015 16:18
TPH-Motor Oil (C18-C36)	ND	5.0 1	09/30/2015 16:18
Surrogates	<u>REC (%)</u>	<u>Limits</u>	
C9	104	70-130	09/30/2015 16:18
Analyst(s): TK			

# **Analytical Report**

Client: Essel Environmental Consulting WorkOrder: 1509A61

**Date Received:** 9/25/15 19:30 **Extraction Method:** SW3550B/3630C

Date Prepared:9/28/15Analytical Method:SW8015BProject:15166; EBALDCUnit:mg/Kg

		7.5	5 . 6	<u> </u>	
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-13-ECB13	1509A61-022A	Soil	09/24/2015 13:14	GC9a	110784
<u>Analytes</u>	Result		<u>RL</u> <u>DF</u>		Date Analyzed
TPH-Diesel (C10-C23)	ND		1.0 1		09/30/2015 17:30
TPH-Motor Oil (C18-C36)	ND		5.0 1		09/30/2015 17:30
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
C9	103		70-130		09/30/2015 17:30
Analyst(s): TK					
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-13-ECB14	1509A61-023A	Soil	09/24/2015 14:13	GC9a	110784
<u>Analytes</u>	Result		<u>RL</u> <u>DF</u>		Date Analyzed
TPH-Diesel (C10-C23)	2.5		1.0 1		09/30/2015 18:42
TPH-Motor Oil (C18-C36)	ND		5.0 1		09/30/2015 18:42
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
C9	102		70-130		09/30/2015 18:42
Analyst(s): TK			Analytical Comments: e	3	
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-181/2-ECB14	1509A61-024A	Soil	09/24/2015 14:31	GC9a	110784
<u>Analytes</u>	Result		<u>RL</u> <u>DF</u>		Date Analyzed
TPH-Diesel (C10-C23)	ND		1.0 1		09/30/2015 19:53
TPH-Motor Oil (C18-C36)	ND		5.0 1		09/30/2015 19:53
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	101		70-130		09/30/2015 19:53

1509A61

# **Analytical Report**

Client: Essel Environmental Consulting WorkOrder:

**Date Received:** 9/25/15 19:30 **Extraction Method:** SW3550B/3630C

Date Prepared:9/28/15Analytical Method:SW8015BProject:15166; EBALDCUnit:mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up							
Client ID	Lab ID	Matrix	Date Collect	ted Instrument	Batch ID		
S-4½-ECB7	1509A61-025A	Soil	09/25/2015 11	:13 GC9a	110784		
Analytes	Result		<u>RL</u> <u>D</u> F	: -	Date Analyzed		
TPH-Diesel (C10-C23)	ND		1.0 1		10/01/2015 12:30		
TPH-Motor Oil (C18-C36)	ND		5.0 1		10/01/2015 12:30		
Surrogates	<u>REC (%)</u>		<u>Limits</u>				
C9	111		70-130		10/01/2015 12:30		
Analyst(s): TK							
Client ID	Lab ID	Matrix	Date Collec	ted Instrument	Batch ID		
S-91/2-ECB7	1509A61-026A	Soil	09/25/2015 11	:18 GC9a	110784		
Analytes	Result		<u>RL</u> DF		Date Analyzed		
TPH-Diesel (C10-C23)	ND		1.0 1		10/01/2015 13:41		
TPH-Motor Oil (C18-C36)	ND		5.0 1		10/01/2015 13:41		
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>				
C9	103		70-130		10/01/2015 13:41		
Analyst(s): TK							
Client ID	Lab ID	Matrix	Date Collec	ted Instrument	Batch ID		
S-13-ECB8	1509A61-027A	Soil	09/25/2015 08	:06 GC9a	110784		
Analytes	Result		<u>RL</u> <u>D</u> F	<u> </u>	Date Analyzed		
TPH-Diesel (C10-C23)	ND		1.0 1		10/01/2015 14:53		
TPH-Motor Oil (C18-C36)	ND		5.0 1		10/01/2015 14:53		
Surrogates	<u>REC (%)</u>		<u>Limits</u>				
C9	104		70-130		10/01/2015 14:53		
Analyst(s): TK							

1509A61

# **Analytical Report**

Client: Essel Environmental Consulting WorkOrder:

**Date Received:** 9/25/15 19:30 **Extraction Method:** SW3550B/3630C

Date Prepared:9/28/15Analytical Method:SW8015BProject:15166; EBALDCUnit:mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up						
Client ID	Lab ID	Matrix	Date C	Collected Instrument	Batch ID	
S-13-ECB9	1509A61-028A	Soil	09/25/20	015 08:34 GC9a	110784	
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed	
TPH-Diesel (C10-C23)	ND		1.0	1	10/01/2015 16:05	
TPH-Motor Oil (C18-C36)	ND		5.0	1	10/01/2015 16:05	

<u>Surrogates</u> <u>REC (%)</u> <u>Limits</u>

C9 104 70-130 10/01/2015 16:05

Analyst(s): TK

Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
S-13-ECB10	1509A61-029A	Soil	09/25/20	15 09:26 GC11A	110784
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	Date Analyzed
TPH-Diesel (C10-C23)	ND		1.0	1	10/01/2015 11:43
TPH-Motor Oil (C18-C36)	ND		5.0	1	10/01/2015 11:43
<u>Surrogates</u>	REC (%)		<u>Limits</u>		
C9	102		70-130		10/01/2015 11:43
Analyst(s): TK					

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID
S-141/2-ECB10	1509A61-030A	Soil	09/25/20	15 09:29 GC9b	110784
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
TPH-Diesel (C10-C23)	210		100	100	10/01/2015 12:30
TPH-Motor Oil (C18-C36)	1600		500	100	10/01/2015 12:30
<u>Surrogates</u>	REC (%)		<u>Limits</u>		
C9	94		70-130		10/01/2015 12:30
Analyst(s): TK			Analytical Com	ments: e7,e11	

C9

Analyst(s): TK

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

# **Analytical Report**

Client: Essel Environmental Consulting WorkOrder: 1509A61

**Date Received:** 9/25/15 19:30 **Extraction Method:** SW3550B/3630C

Date Prepared:9/28/15Analytical Method:SW8015BProject:15166; EBALDCUnit:mg/Kg

95

#### Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up **Client ID** Lab ID **Matrix Date Collected Instrument Batch ID** S-13-ECB12 1509A61-031A Soil 09/25/2015 10:17 GC9b 110784 **Analytes** <u>RL</u> <u>DF</u> Result **Date Analyzed** ND TPH-Diesel (C10-C23) 1.0 1 09/28/2015 22:14 TPH-Motor Oil (C18-C36) ND 5.0 1 09/28/2015 22:14 Surrogates **REC (%) Limits**

70-130

Angela Rydelius, Lab Manager

09/28/2015 22:14

# **Quality Control Report**

Client:Essel Environmental ConsultingWorkOrder:1509A61Date Prepared:9/28/15BatchID:110781Date Analyzed:9/28/15Extraction Method:SW5030BInstrument:GC16Analytical Method:SW8260B

Matrix: Soil Unit: mg/Kg

**Project:** 15166; EBALDC Sample ID: MB/LCS-110781

1509A61-019AMS/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	0.0487	0.0050	0.050	-	97	53-116
Benzene	ND	0.0566	0.0050	0.050	-	113	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	0.234	0.050	0.20	-	117	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	0.0480	0.0050	0.050	-	96	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	0.0473	0.0040	0.050	-	95	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	0.0575	0.0040	0.050	-	115	58-135
1,1-Dichloroethene	ND	0.0511	0.0050	0.050	-	102	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	_			

(Cont.)

QA/QC Officer

# **Quality Control Report**

Client:Essel Environmental ConsultingWorkOrder:1509A61Date Prepared:9/28/15BatchID:110781Date Analyzed:9/28/15Extraction Method:SW5030BInstrument:GC16Analytical Method:SW8260B

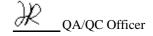
Matrix: Soil Unit: mg/Kg

Project: 15166; EBALDC Sample ID: MB/LCS-110781

1509A61-019AMS/MSD

#### **QC Summary Report for SW8260B**

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Diisopropyl ether (DIPE)	ND	0.0552	0.0050	0.050	-	110	52-129
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0532	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	0.0524	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	0.0512	0.0050	0.050	-	102	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	-	-	-	-



# **Quality Control Report**

Client:Essel Environmental ConsultingWorkOrder:1509A61Date Prepared:9/28/15BatchID:110781Date Analyzed:9/28/15Extraction Method:SW5030B

Instrument: GC16 Analytical Method: SW8260B Matrix: Soil Unit: mg/Kg

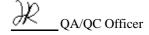
Project: 15166; EBALDC Sample ID: MB/LCS-110781

1509A61-019AMS/MSD

#### OC Summary Report for SW8260B

	<b>Q</b> 0 2 <b></b>	nary report	01 8 11 02 002				
Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	0.113	0.119		0.12	90	95	70-130
Toluene-d8	0.124	0.123		0.12	99	98	70-130
4-BFB	0.0126	0.0131		0.012	101	105	70-130
Benzene-d6	0.101	0.105		0.10	101	105	60-140
Ethylbenzene-d10	0.120	0.129		0.10	121	129	60-140
1,2-DCB-d4	0.0764	0.0822		0.10	76	82	60-140

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	0.0436	0.0425	0.050	ND	87	85	70-130	2.57	20
Benzene	0.0490	0.0493	0.050	ND	98	99	70-130	0.494	20
t-Butyl alcohol (TBA)	0.193	0.195	0.20	ND	97	97	70-130	0	20
Chlorobenzene	0.0419	0.0421	0.050	ND	84	84	70-130	0	20
1,2-Dibromoethane (EDB)	0.0415	0.0396	0.050	ND	83	79	70-130	4.69	20
1,2-Dichloroethane (1,2-DCA)	0.0501	0.0492	0.050	ND	100	98	70-130	1.71	20
1,1-Dichloroethene	0.0437	0.0448	0.050	ND	87	90	70-130	2.58	20
Diisopropyl ether (DIPE)	0.0486	0.0484	0.050	ND	97	97	70-130	0	20
Ethyl tert-butyl ether (ETBE)	0.0473	0.0467	0.050	ND	95	93	70-130	1.31	20
Methyl-t-butyl ether (MTBE)	0.0462	0.0456	0.050	ND	92	91	70-130	1.31	20
Toluene	0.0442	0.0432	0.050	ND	88	86	70-130	2.36	20
Trichloroethene	0.0425	0.0421	0.050	ND	85	84	70-130	1.15	20
Surrogate Recovery									
Dibromofluoromethane	0.118	0.117	0.12		95	93	70-130	1.52	20
Toluene-d8	0.120	0.119	0.12		96	95	70-130	1.17	20
4-BFB	0.0127	0.0118	0.012		102	95	70-130	6.90	20
Benzene-d6	0.0934	0.0958	0.10		93	96	60-140	2.60	20
Ethylbenzene-d10	0.106	0.113	0.10		106	113	60-140	5.80	20
1,2-DCB-d4	0.0751	0.0766	0.10		75	77	60-140	1.91	20



# **Quality Control Report**

**Client:** Essel Environmental Consulting

**Date Prepared:** 9/28/15

**Date Analyzed:** 9/28/15 - 9/29/15

**Instrument:** GC16 **Matrix:** Soil

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**BatchID:** 110782

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** mg/Kg

Sample ID: MB/LCS-110782

1509A61-030AMS/MSD

QC Summary Report for SW82601	QC Summar	y Report for	r SW8260B
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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	0.0486	0.0050	0.050	-	97	53-116
Benzene	ND	0.0560	0.0050	0.050	-	112	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	0.229	0.050	0.20	-	114	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	0.0475	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	0.0475	0.0040	0.050	-	95	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	0.0569	0.0040	0.050	=	114	58-135
1,1-Dichloroethene	ND	0.0515	0.0050	0.050	-	103	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	-	_	-	-

(Cont.)

QA/QC Officer

# **Quality Control Report**

**Client:** Essel Environmental Consulting

**Date Prepared:** 9/28/15

**Date Analyzed:** 9/28/15 - 9/29/15

**Instrument:** GC16 **Matrix:** Soil

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**BatchID:** 110782

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B **Unit:** mg/Kg

Sample ID: MB/LCS-110782

1509A61-030AMS/MSD

#### **QC Summary Report for SW8260B**

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
	- Troount	- Itooun			70.120	701120	
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Diisopropyl ether (DIPE)	ND	0.0546	0.0050	0.050	-	109	52-129
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0530	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	0.0517	0.0050	0.050	-	103	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	0.0510	0.0050	0.050	-	102	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	0.0488	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	-	-	-	-



# **Quality Control Report**

**Client:** Essel Environmental Consulting

**Date Prepared:** 9/28/15

**Date Analyzed:** 9/28/15 - 9/29/15

**Instrument:** GC16 **Matrix:** Soil

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**BatchID:** 110782

**Extraction Method: SW5030B** 

**Analytical Method:** SW8260B

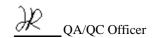
**Unit:** mg/Kg

Sample ID: MB/LCS-110782

1509A61-030AMS/MSD

	QC Sumr	nary Report f	or SW8260E	3			
Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	0.116	0.119		0.12	93	95	70-130
Toluene-d8	0.122	0.123		0.12	98	99	70-130
4-BFB	0.0135	0.0128		0.012	108	102	70-130
Benzene-d6	0.107	0.105		0.10	107	105	60-140
Ethylbenzene-d10	0.124	0.127		0.10	125	127	60-140
1,2-DCB-d4	0.0792	0.0822		0.10	79	82	60-140

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<1	NR	NR	-	NR	
Benzene	NR	NR		ND<1	NR	NR	-	NR	
t-Butyl alcohol (TBA)	NR	NR		ND<10	NR	NR	-	NR	
Chlorobenzene	NR	NR		ND<1	NR	NR	-	NR	
1,2-Dibromoethane (EDB)	NR	NR		ND<0.8	NR	NR	-	NR	
1,2-Dichloroethane (1,2-DCA)	NR	NR		ND<0.8	NR	NR	-	NR	
1,1-Dichloroethene	NR	NR		ND<1	NR	NR	-	NR	
Diisopropyl ether (DIPE)	NR	NR		ND<1	NR	NR	-	NR	
Ethyl tert-butyl ether (ETBE)	NR	NR		ND<1	NR	NR	-	NR	
Methyl-t-butyl ether (MTBE)	NR	NR		ND<1	NR	NR	-	NR	
Toluene	NR	NR		ND<1	NR	NR	-	NR	
Trichloroethene	NR	NR		ND<1	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	



# **Quality Control Report**

**Client:** Essel Environmental Consulting

**Date Prepared:** 9/29/15 **Date Analyzed:** 9/29/15 **Instrument:** GC35

Matrix: Soil

**Project:** 15166; EBALDC

**WorkOrder:** 1509A61 **BatchID:** 110852

Extraction Method: SW3550B

**Analytical Method:** SW8270C-SIM

**Unit:** mg/kg

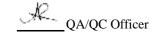
Sample ID: MB/LCS-110852

1509A61-025AMS/MSD

#### QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acenaphthene	ND	-	0.010	-	-	-	-
Acenaphthylene	ND	-	0.010	-	-	-	-
Anthracene	ND	-	0.010	-	-	-	-
Benzo (a) anthracene	ND	-	0.010	-	-	-	-
Benzo (b) fluoranthene	ND	-	0.010	-	-	-	-
Benzo (k) fluoranthene	ND	-	0.010	-	-	=	-
Benzo (g,h,i) perylene	ND	-	0.010	-	-	=	-
Benzo (a) pyrene	ND	0.120	0.010	0.20	-	60	30-130
Chrysene	ND	0.139	0.010	0.20	-	70	30-130
Dibenzo (a,h) anthracene	ND	-	0.010	-	-	-	-
Fluoranthene	ND	-	0.010	-	-	-	-
Fluorene	ND	-	0.010	-	-	-	-
Indeno (1,2,3-cd) pyrene	ND	=	0.010	-	-	-	-
1-Methylnaphthalene	ND	0.159	0.010	0.20	-	80	30-130
2-Methylnaphthalene	ND	0.159	0.010	0.20	-	79	30-130
Naphthalene	ND	-	0.010	-	-	-	-
Phenanthrene	ND	0.154	0.010	0.20	-	77	30-130
Pyrene	ND	0.139	0.010	0.20	-	70	30-130
Surrogate Recovery							
1-Fluoronaphthalene	0.508	0.497		0.50	102	99	30-130
2-Fluorobiphenyl	0.498	0.460		0.50	100	92	30-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Benzo (a) pyrene	0.145	0.154	0.20	ND	73	77	30-130	6.03	30
Chrysene	0.153	0.163	0.20	ND	76	81	30-130	6.35	30
1-Methylnaphthalene	0.171	0.180	0.20	ND	85	90	30-130	5.19	30
2-Methylnaphthalene	0.174	0.182	0.20	ND	87	91	30-130	4.17	30
Phenanthrene	0.171	0.182	0.20	ND	86	91	30-130	6.32	30
Pyrene	0.155	0.169	0.20	ND	78	85	30-130	8.48	30
Surrogate Recovery									
1-Fluoronaphthalene	0.539	0.568	0.50		108	114	30-130	5.23	30
2-Fluorobiphenyl	0.510	0.542	0.50		102	108	30-130	6.12	30



# **Quality Control Report**

**Client: Essel Environmental Consulting** WorkOrder: 1509A61 **Date Prepared:** 9/28/15 **BatchID:** 110776 Date Analyzed: 9/29/15 **Extraction Method: SW5030B** 

**Instrument:** GC3 Analytical Method: SW8021B/8015Bm

**Matrix:** Soil Unit: mg/Kg

**Project:** 15166; EBALDC Sample ID: MB/LCS-110776

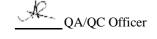
1509A61-014AMS/MSD

#### QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.652	0.40	0.60	-	109	70-130
MTBE	ND	0.113	0.050	0.10	-	113	70-130
Benzene	ND	0.105	0.0050	0.10	-	105	70-130
Toluene	ND	0.116	0.0050	0.10	-	116	70-130
Ethylbenzene	ND	0.118	0.0050	0.10	-	118	70-130
Xylenes	ND	0.377	0.0050	0.30	-	126	70-130

2-Fluorotoluene 0.106 0.104 0.10 106 104 70-130

MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
NR	NR		74	NR	NR	-	NR	
NR	NR		ND<1	NR	NR	-	NR	
NR	NR		ND<0.1	NR	NR	-	NR	
NR	NR		ND<0.1	NR	NR	-	NR	
NR	NR		0.4	NR	NR	-	NR	
NR	NR		1.5	NR	NR	-	NR	
NR	NR			NR	NR	-	NR	
	NR NR NR NR NR NR NR NR	Result  NR  NR  NR  NR  NR  NR  NR  NR  NR  N	Result Result Val  NR NR  NR NR	Result         Result         Val         Val           NR         NR         74           NR         NR         ND<1	Result         Result         Val         Wal         %REC           NR         NR         74         NR           NR         NR         ND<1	Result         Result         Val         WREC         %REC           NR         NR         74         NR         NR           NR         NR         ND<1	Result         Result         Val         Val         %REC         %REC         Limits           NR         NR         74         NR         NR         -           NR         NR         ND<1	Result         Result         Val         Val         %REC         %REC         Limits           NR         NR         74         NR         NR         -         NR           NR         NR         ND<1



# **Quality Control Report**

**Client: Essel Environmental Consulting** WorkOrder: 1509A61 110785 **Date Prepared:** 9/28/15 **BatchID:** Date Analyzed: 9/29/15 **Extraction Method: SW5030B** 

**Instrument:** GC7 Analytical Method: SW8021B/8015Bm

**Matrix:** Soil Unit: mg/Kg

**Project:** 15166; EBALDC Sample ID: MB/LCS-110785

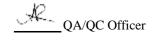
1509A61-018AMS/MSD

### QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.468	0.40	0.60	-	78	70-130
MTBE	ND	0.112	0.050	0.10	-	112	70-130
Benzene	ND	0.112	0.0050	0.10	-	112	70-130
Toluene	ND	0.113	0.0050	0.10	-	113	70-130
Ethylbenzene	ND	0.120	0.0050	0.10	-	120	70-130
Xylenes	ND	0.364	0.0050	0.30	-	121	70-130

2-Fluorotoluene 0.115 0.117 0.10 115 117 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		18	NR	NR	_	NR	
MTBE	NR	NR		ND<0.25	NR	NR	-	NR	
Benzene	NR	NR		ND<0.025	NR	NR	-	NR	
Toluene	NR	NR		ND<0.025	NR	NR	-	NR	
Ethylbenzene	NR	NR		0.07	NR	NR	-	NR	
Xylenes	NR	NR		0.19	NR	NR	-	NR	
Surrogate Recovery									
2-Fluorotoluene	NR	NR			NR	NR	-	NR	



# **Quality Control Report**

Client:Essel Environmental ConsultingWorkOrder:1509A61Date Prepared:9/28/15BatchID:110815Date Analyzed:9/29/15Extraction Method:SW5030B

**Instrument:** GC7 **Analytical Method:** SW8021B/8015Bm

Matrix: Soil Unit: mg/Kg

Project: 15166; EBALDC Sample ID: MB/LCS-110815

1509A80-001AMS/MSD

### QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.483	0.40	0.60	-	81	70-130
MTBE	ND	0.100	0.050	0.10	-	100	70-130
Benzene	ND	0.108	0.0050	0.10	-	108	70-130
Toluene	ND	0.108	0.0050	0.10	-	109	70-130
Ethylbenzene	ND	0.118	0.0050	0.10	-	118	70-130
Xylenes	ND	0.357	0.0050	0.30	-	119	70-130

2-Fluorotoluene 0.113 0.110 0.10 113 110 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		160	NR	NR	-	NR	
MTBE	NR	NR		ND<17	NR	NR	_	NR	
Benzene	NR	NR		ND<1.7	NR	NR	-	NR	
Toluene	NR	NR		ND<1.7	NR	NR	-	NR	
Ethylbenzene	NR	NR		2.6	NR	NR	-	NR	
Xylenes	NR	NR		22	NR	NR	-	NR	
Surrogate Recovery									
2-Fluorotoluene	NR	NR			NR	NR	_	NR	

# **Quality Control Report**

Client: Essel Environmental Consulting

**Date Prepared:** 9/28/15

**Date Analyzed:** 9/28/15

**Instrument:** GC9a **Matrix:** Soil

**Surrogate Recovery** 

C9

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**BatchID:** 110783

**Extraction Method:** SW3550B/3630C

**Analytical Method:** SW8015B

**Unit:** mg/Kg

Sample ID: MB/LCS-110783

102

102

70-130

0

30

1509A61-020AMS/MSD

	QC Report for S	W8015B	with S	ilica Gel (	Clean-U	p				
Analyte	MB Result	LCS Result		RL	SPK Val		S SS REC	LCS %REC		LCS Limits
TPH-Diesel (C10-C23)	ND	36.3		1.0	40	-		91		70-130
TPH-Motor Oil (C18-C36)	ND	-		5.0	-	-		-		-
Surrogate Recovery										
C9	25.7	26.1			25	103	3	104	(	62-139
Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/M		RPD	RPD Limit
TPH-Diesel (C10-C23)	33.8	35.4	40	ND	84	88	70-130	) 4	1.63	30

25

25.4

25.6

# **Quality Control Report**

Client: Essel Environmental Consulting

**Date Prepared:** 9/28/15

**Date Analyzed:** 9/28/15

**Instrument:** GC9b **Matrix:** Soil

**Project:** 15166; EBALDC

WorkOrder: 1509A61

**BatchID:** 110784

**Extraction Method:** SW3550B/3630C

**Analytical Method:** SW8015B

**Unit:** mg/Kg

Sample ID: MB/LCS-110784

1509A61-031AMS/MSD

	QC Report for S	W8015B	with Si	inca Gel C	Jiean-U	р			
Analyte	MB Result	LCS Result		RL	SPK Val		B SS LCS REC %R		LCS Limits
TPH-Diesel (C10-C23)	ND	35.4		1.0	40	-	88	-	70-130
TPH-Motor Oil (C18-C36)	ND	-		5.0	-	-	-		•
Surrogate Recovery									
C9	22.6	24.0			25	90	96	(	62-139
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	35.6	40	ND	88	89	70-130	1.30	30
Surrogate Recovery									
C9	24.0	24.2	25		96	97	70-130	0.831	30

# **CHAIN-OF-CUSTODY RECORD**

Page 1 of 3

1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262

WorkOrder: 1509A61 ClientCode: ESL (925) 252-9262 WriteOn □EDF **EQuIS** □WaterTrax □ Excel □ Email HardCopy ☐ ThirdParty ☐ J-flag Report to: Bill to: Requested TAT: 5 days; Email: nlahiri@esseltek.com Nik Lahiri Nik Lahiri cc/3rd Party: **Essel Environmental Consulting Essel Environmental Consulting** Date Received: 09/25/2015 PO: 564 Market Street 564 Market Street ProjectNo: 15166; EBALDC San Francisco, CA 94104 San Francisco, CA 94104 Date Printed: 09/28/2015 925-413-5511 FAX: 510-380-6610 nlahiri@esseltek.com

								Re	quested	Tests (	See leg	end bel	ow)			
Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1509A61-001	S-12½-ECB1	Soil	9/24/2015 8:45		Α		Α	Α								
1509A61-002	S-19½-ECB1	Soil	9/24/2015 8:59		Α		Α	Α								
1509A61-003	S-15-ECB1	Soil	9/24/2015 8:55		Α		Α	Α								
1509A61-004	S-41/2-ECB2	Soil	9/24/2015 9:27		Α	Α	Α	Α								
1509A61-005	S-9-ECB2	Soil	9/24/2015 9:48		Α	Α	Α	Α								
1509A61-006	S-17-ECB2	Soil	9/24/2015 10:05		Α		Α	Α								
1509A61-007	S-19½-ECB2	Soil	9/24/2015 10:07		Α		Α	Α								
1509A61-008	S-41/2-ECB3	Soil	9/24/2015 10:10		Α	Α	Α	Α								
1509A61-009	S-9½-ECB3	Soil	9/24/2015 10:35		Α	Α	Α	Α								
1509A61-010	S-15½-ECB3	Soil	9/24/2015 10:57		Α		Α	Α								
1509A61-011	S-18½-ECB3	Soil	9/24/2015 11:03		Α		Α	Α								
1509A61-012	S-41/2-ECB4	Soil	9/24/2015 10:55		Α		Α	Α								
1509A61-013	S-9-ECB4	Soil	9/24/2015 11:01		Α		Α	Α								
1509A61-014	S-13-ECB4	Soil	9/24/2015 11:10		Α		Α	Α								
1509A61-015	S-17½-ECB4	Soil	9/24/2015 11:12		Α		Α	Α								

#### Test Legend:

1	8260B_S	2	8270_PNA_S	3	G-MBTEX_S	4	TPH(DMO)WSG_S
5		6		7			3
9		10		11			2

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 contain testgroup.

### Prepared by: Maria Venegas

#### **Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).

Hazardous samples will be returned to client or disposed of at client expense.

# **CHAIN-OF-CUSTODY RECORD**

ClientCode: ESL

WorkOrder: 1509A61

Page 2 of 3

1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262

WriteOn □EDF □WaterTrax □ Excel **EQuIS**  □ Email HardCopy ☐ ThirdParty ☐ J-flag Bill to: Report to: Requested TAT: 5 days; Email: nlahiri@esseltek.com Nik Lahiri Nik Lahiri cc/3rd Party: **Essel Environmental Consulting Essel Environmental Consulting** Date Received: 09/25/2015 PO: 564 Market Street 564 Market Street San Francisco, CA 94104 ProjectNo: 15166: EBALDC San Francisco, CA 94104 Date Printed: 09/28/2015 925-413-5511 FAX: 510-380-6610 nlahiri@esseltek.com Requested Tests (See legend below) Lab ID Client ID Matrix Collection Date Hold 2 5 6 7 10 12 3 11

1509A61-016	S-4-ECB5	Soil	9/24/2015 14:44	A	Α	Α	Α			
1509A61-017	S-8-ECB5	Soil	9/24/2015 14:53	] A	Α	Α	Α			
1509A61-018	S-14½-ECB5	Soil	9/24/2015 15:07	] A		Α	Α			
1509A61-019	S-18-ECB5	Soil	9/24/2015 15:14	] A		Α	Α			
1509A61-020	S-13-ECB6	Soil	9/24/2015 17:38	A		Α	Α			
1509A61-021	S-13-ECB11	Soil	9/24/2015 11:45	A		Α	Α			
1509A61-022	S-13-ECB13	Soil	9/24/2015 13:14	A		Α	Α			
1509A61-023	S-13-ECB14	Soil	9/24/2015 14:13	] A		Α	Α			
1509A61-024	S-18½-ECB14	Soil	9/24/2015 14:31	A		Α	Α			
1509A61-025	S-41/2-ECB7	Soil	9/25/2015 11:13	] A	Α	Α	Α			
1509A61-026	S-9½-ECB7	Soil	9/25/2015 11:18	] A	Α	Α	Α			
1509A61-027	S-13-ECB8	Soil	9/25/2015 8:06	] A		Α	Α			
1509A61-028	S-13-ECB9	Soil	9/25/2015 8:34	] A		Α	Α			
1509A61-029	S-13-ECB10	Soil	9/25/2015 9:26	A		Α	Α			
1509A61-030	S-141/2-ECB10	Soil	9/25/2015 9:29	A		Α	Α			

#### Test Legend:

1	8260B_S	2 8270_PNA_S	3	G-MBTEX_S	4	TPH(DMO)WSG_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 contain testgroup.

Prepared by: Maria Venegas

#### **Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).

Hazardous samples will be returned to client or disposed of at client expense.

# **CHAIN-OF-CUSTODY RECORD**

San Francisco, CA 94104

Page 3 of 3

09/28/2015

Date Printed:

1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262

San Francisco, CA 94104

WorkOrder:	1509A61	ClientCode: ESL	

WriteOn □EDF **EQuIS**  □ Email □ Excel HardCopy ☐ ThirdParty ☐ J-flag

Report to: Bill to: Requested TAT: 5 days;

Email: nlahiri@esseltek.com Nik Lahiri Nik Lahiri cc/3rd Party: **Essel Environmental Consulting Essel Environmental Consulting** 

Date Received: 09/25/2015 PO: 564 Market Street 564 Market Street ProjectNo: 15166; EBALDC

925-413-5511 FAX: 510-380-6610 nlahiri@esseltek.com

Lab ID Client ID Matrix Collection Date Hold 1 2							Re	quested	Tests (	See leg	end belo	ow)				
Lab ID	Client ID	Matrix	<b>Collection Date</b>	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1509A61-031	S-13-ECB12	Soil	9/25/2015 10:17		Α		Α	Α								

#### Test Legend:

1	8260B_S	2 8270_PNA_S	3	G-MBTEX_S	4 TPH(DMO)WSG_S
5		6	7		8
9		10	11	1	2

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 contain testgroup.

### Prepared by: Maria Venegas

#### **Comments:**

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



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

### **WORK ORDER SUMMARY**

<b>Client Name:</b>	ESSEL ENVIRONMENTAL CONSULTING	QC Level: LEVEL 2	Work Order: 1509A61
Project:	15166; EBALDC	Client Contact: Nik Lahiri	<b>Date Received:</b> 9/25/2015

Comments: Contact's Email: nlahiri@esseltek.com

		WaterTrax	☐ WriteOn ☐ EDF	Excel	Fax Email	HardC	opyThirdPart	у 🗀	l-flag
Lab ID	Client ID	Matrix	Test Name	Containers /Composites	<b>Bottle &amp; Preservative</b>	De- chlorinated	Collection Date & Time	TAT	Sediment Hold SubOut Content
1509A61-001A	S-12½-ECB1	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner		9/24/2015 8:45	5 days	
			SW8260B (VOCs)					5 days	
1509A61-002A	S-19½-ECB1	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner		9/24/2015 8:59	5 days	
			SW8260B (VOCs)					5 days	
1509A61-003A	S-15-ECB1	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner		9/24/2015 8:55	5 days	
			SW8260B (VOCs)					5 days	
1509A61-004A	S-4½-ECB2	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner		9/24/2015 9:27	5 days	
			SW8270C (PAHs/PNAs)					5 days	
			SW8260B (VOCs)					5 days	
1509A61-005A	S-9-ECB2	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner		9/24/2015 9:48	5 days	
			SW8270C (PAHs/PNAs)					5 days	
			SW8260B (VOCs)					5 days	
1509A61-006A	S-17-ECB2	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner		9/24/2015 10:05	5 days	
			SW8260B (VOCs)					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).



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### **WORK ORDER SUMMARY**

<b>Client Name:</b>	ESSEL ENVIRONMENTAL CONSULTING	QC Level: LEVEL 2	Work Order: 1509A61
Project:	15166; EBALDC	Client Contact: Nik Lahiri	<b>Date Received:</b> 9/25/2015

Comments: Contact's Email: nlahiri@esseltek.com

		WaterTrax	☐ WriteOn ☐ EDF	Excel	Fax Email	HardC	opyThirdPart	у 🗀 -	I-flag
Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Hold SubOut Content
1509A61-007A	S-19½-ECB2	Soil	$\label{eq:multi-Range} \begin{array}{ll} \mbox{Multi-Range TPH(g,d,mo) w/ S.G.} \\ \mbox{Clean-Up} \end{array}$	1	Acetate Liner		9/24/2015 10:07	5 days	
			SW8260B (VOCs)					5 days	
1509A61-008A	S-4½-ECB3	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner		9/24/2015 10:10	5 days	
			SW8270C (PAHs/PNAs)					5 days	
			SW8260B (VOCs)					5 days	
1509A61-009A	S-9½-ECB3	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner		9/24/2015 10:35	5 days	
			SW8270C (PAHs/PNAs)					5 days	
			SW8260B (VOCs)					5 days	
1509A61-010A	S-15½-ECB3	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner		9/24/2015 10:57	5 days	
			SW8260B (VOCs)					5 days	
1509A61-011A	S-18½-ECB3	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner		9/24/2015 11:03	5 days	
			SW8260B (VOCs)					5 days	
1509A61-012A	S-4½-ECB4	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner		9/24/2015 10:55	5 days	
			SW8260B (VOCs)					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).



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### **WORK ORDER SUMMARY**

Client Name:	ESSEL ENVIRONMENTAL CONSULTING	QC Level: LEVEL 2	<b>Work Order:</b> 1509A61
Project:	15166; EBALDC	Client Contact: Nik Lahiri	<b>Date Received:</b> 9/25/2015

Comments: Contact's Email: nlahiri@esseltek.com

		WaterTrax	☐ WriteOn ☐ EDF	Excel	Fax Email	HardC	opyThirdPart	у 🗀	l-flag
Lab ID	Client ID	Matrix	Test Name	Containers /Composites	<b>Bottle &amp; Preservative</b>	De- chlorinated	Collection Date & Time	TAT	Sediment Hold SubOut Content
1509A61-013A	S-9-ECB4	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner		9/24/2015 11:01	5 days	
			SW8260B (VOCs)					5 days	
1509A61-014A	S-13-ECB4	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner		9/24/2015 11:10	5 days	
			SW8260B (VOCs)					5 days	
1509A61-015A	S-17½-ECB4	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner		9/24/2015 11:12	5 days	
			SW8260B (VOCs)					5 days	
1509A61-016A	S-4-ECB5	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner		9/24/2015 14:44	5 days	
			SW8270C (PAHs/PNAs)					5 days	
			SW8260B (VOCs)					5 days	
1509A61-017A	S-8-ECB5	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner		9/24/2015 14:53	5 days	
			SW8270C (PAHs/PNAs)					5 days	
			SW8260B (VOCs)					5 days	
1509A61-018A	S-14½-ECB5	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner		9/24/2015 15:07	5 days	
			SW8260B (VOCs)					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).



"When Quality Counts"

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### **WORK ORDER SUMMARY**

Client Name:ESSEL ENVIRONMENTAL CONSULTINGQC Level:LEVEL 2Work Order:1509A61Project:15166; EBALDCClient Contact:Nik LahiriDate Received:9/25/2015

Comments: Contact's Email: nlahiri@esseltek.com

			☐WriteOn ☐EDF	Excel	]Fax	HardC	opyThirdPar	ty 🔲	J-flag
Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Hold SubOut Content
1509A61-019A	S-18-ECB5	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner		9/24/2015 15:14	5 days	
			SW8260B (VOCs)					5 days	
1509A61-020A	S-13-ECB6	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner		9/24/2015 17:38	5 days	
			SW8260B (VOCs)					5 days	
1509A61-021A	S-13-ECB11	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner		9/24/2015 11:45	5 days	
			SW8260B (VOCs)					5 days	
1509A61-022A	S-13-ECB13	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner		9/24/2015 13:14	5 days	
			SW8260B (VOCs)					5 days	
1509A61-023A	S-13-ECB14	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner		9/24/2015 14:13	5 days	
			SW8260B (VOCs)					5 days	
1509A61-024A	S-18½-ECB14	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner		9/24/2015 14:31	5 days	
			SW8260B (VOCs)					5 days	
1509A61-025A	S-4½-ECB7	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner		9/25/2015 11:13	5 days	
			SW8270C (PAHs/PNAs)					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).



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

### **WORK ORDER SUMMARY**

Client Name:	ESSEL ENVIRONMENTAL CONSULTING	QC Level: LEVEL 2	<b>Work Order:</b> 1509A61
Project:	15166; EBALDC	Client Contact: Nik Lahiri	<b>Date Received:</b> 9/25/2015

Comments: Contact's Email: nlahiri@esseltek.com

		WaterTrax	☐ WriteOn ☐ EDF	Excel	Fax Email	HardC	opyThirdPart	у 🗀 -	I-flag
Lab ID	Client ID	Matrix	Test Name	Containers /Composites	<b>Bottle &amp; Preservative</b>	De- chlorinated	Collection Date & Time	TAT	Sediment Hold SubOut Content
1509A61-025A	S-4½-ECB7	Soil	SW8260B (VOCs)	1	Acetate Liner		9/25/2015 11:13	5 days	
1509A61-026A	S-9½-ECB7	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner		9/25/2015 11:18	5 days	
			SW8270C (PAHs/PNAs)					5 days	
			SW8260B (VOCs)					5 days	
1509A61-027A	S-13-ECB8	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner		9/25/2015 8:06	5 days	
			SW8260B (VOCs)					5 days	
1509A61-028A	S-13-ECB9	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner		9/25/2015 8:34	5 days	
			SW8260B (VOCs)					5 days	
1509A61-029A	S-13-ECB10	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner		9/25/2015 9:26	5 days	
			SW8260B (VOCs)					5 days	
1509A61-030A	S-14½-ECB10	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner		9/25/2015 9:29	5 days	
			SW8260B (VOCs)					5 days	
1509A61-031A	S-13-ECB12	Soil	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	1	Acetate Liner		9/25/2015 10:17	5 days	
			SW8260B (VOCs)					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).

### McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD PITTSBURG, CA 94565-1701

TURN AROUND TIME

RUSH 24 HR

CHAIN OF CUSTODY RECORD

48 HR

72 HR (5 DAY

Website: www.mccampbell.com Email: main@mccampbell.com Enail: main@mccampbell.com Enail: main@mccampbell.com Telephone: (977) 252 0262

PDF Excel

pH<2

Tel	ephone: (877	) 252-920	52		Fax:	(925	252	-926	59			- 1	G	eo'	Γra	cke	er E	CDF	₹		PD			Ex					te On (l		
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Report To: Nik L				ill To	: San	nhita	Lahi	ri				_						A	nal	ysis	Reg	uest						_	Other	Com	ments
Company: Essel			Inc									_																		**In	dicate
	Iarket Stree											_	BE		E/B&F)					eners											if these
	rancisco, Ca	lifornia 9			-Mai	l: nla	hiri(a	)ess	eltek	.con	1	$\dashv$	8015) / MTBE		E/B					ong	-	200				_			ysis		oles are
Tele: (925) 413-5	511			ax: (	. NI	<u>)</u> _	DAT	D.C.				$\dashv$	15)/	015)	5520		_	1)		rs/C	- 1					6020	9020		an al		ntially gerous to
Project #: 15166	West Com			roject					C	:- 0	1611	$\dashv$	+ 80	8) II (8	64 /	18.1	OCs	802		oclo		ides			(AS)	10/	9/01		etals	hand	
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SAMPLE ID	LOCATION/ Field Point Name	Date	Time	# Containers	Type Containers	Water	Air	Sludge	Other	НСГ	HNO <sub>3</sub>	Other	BTEX & TPH as Ga	TPH as Gasoline, Diesel, Motor Oil (8015)	Total Petroleum Oil & Grease (1664 / 5520	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Filter sample for DISSOLVED metals analysis		
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PRESERVATION

# McCAMPBELL ANALYTICAL, INC. 1534 WILLOW PASS ROAD

PITTSBURG, CA 94565-1701

## CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR

48 HR

72 HR ( 5 DAY)

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SAMPLE ID	LOCATION/ Field Point Name	Date	Time	# Containers	Type Containers	Water	Air	Sludge	Other	ICE	HNO	Other	BTEX & TPH as G	TPH as Gasoline, Diesel, Motor Oil (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Filter sample for DISSOLVED metals analysis			
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5-4-ECB5	_	9/24/15	2:440.0	1	P		Č			Ž				$\langle \rangle$								1	$\overline{\vee}$	-	X			$\exists$			moto	roil
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5-18- EC135		9/24/16	3:14 pin	1	PP		2			Z	1	-		$\langle \rangle$								Ť	X					$\dashv$				
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# McCAMPBELL ANALYTICAL, INC. 1534 WILLOW PASS ROAD

PITTSBURG, CA 94565-1701

Website: www.mccampbell.com Email: main@mccampbell.com

## CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR

48 HR

72 HR (5 DAY

Tel	Telephone: (877) 252-9262 Fax: (925) 252-9269										G	eoT	ra	cke	er E	DF	7		PD. Che		f sa	Exe mpl		efflı				n (D ' flag	W) is required		
Report To: Nik L	ahiri		В	ill To	: San	ihita	Lahi	ri				$\top$						A	nal	_								Τ	Otl	_	Comments
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Tele: (925) 413-5	511			ax: (		)							2) / (9	15)	520 1					/ Co		*				020)	(07)		naly		potentially
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<b>Project Location:</b>	West Grand	Avenue	and Bry	sh St	reet,	Oakla	nd,	Cali	forn	ia 9	4612	2	121 +	or O	(166	s (41	HVC	02 / 8	ides)	Aro		rbici		(S)	, PN	/ 601	0109	<u> </u>	met		handle:
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SAMPLE ID	LOCATION/ Field Point Name	Date	Time	# Containers	Type Containers	Water	Air	Sludge	Other		HNO <sub>3</sub>	Other	BTEX & TPH as Gas (602 / 8021	TPH as Gasoline, Dic	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Filter sample for DISSOLVED metals analysis		
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													PR	ESE	KVA	110	N_				pH<	2_				-					

# McCAMPBELL ANALYTICAL, INC. 1534 WILLOW PASS ROAD PITTSBURG, CA 94565-1701

Website: www.mccampbell.com Email: main@mccampbell.com Fax: (925) 252-9269 Telephone: (877) 252-9262

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR

48 HR 72 HR

GeoTracker EDF

**PDF** Excel Write On (DW)

											Check it sample is effluent and "J" flag is red																			
Report To: Nik La				ill To	: San	ihita	Lahi	ri			Analysis Request Other Comments						Comments													
Company: Essel 7			Inc																											**Indicate
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	rancisco, Cal	lifornia 9			-Mai	l: nlal	niri@	essel	tek.	com	ì	_	(8015) / MILBE	E/R&E					nge						2005241			sis		samples are
Tele: (925) 413-55	511			ax: (		)						_ [	(6)	520			_		S/C						020)	020)		Ja		potentially
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<b>Project Location:</b>	West Grand	Avenue	and Bru	sh St	reet,	Oakla	nd, (	Califo	orni	a 94	612	_ ;	171 +	991)	s (41	HAC	02 /	i lec	Aro	9	rbici	_	(s)	/PN	/ 601	109	(03	) me		handle:
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SAMPLE ID	LOCATION/ Field Point Name	Date	Time	# Containers	Type Containers	Water	Air	Sludge		НСГ		Other	BIEN & IPH as Gas (602/8021) TPH as Gasoline. Diesel, Motor (		Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/608 / 8081 (Cl Posticidae)	EPA 608 / 8082 PCB's ONLY: Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Filter sample for DISSOLVED metals analysis		,
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													PRES	ER	VATI		VOA	S	0&0		IETA I<2_	LS	OT	HER						

### **Sample Receipt Checklist**

Client Name:	Essel Environmenta	I Consulting			Date and T	ime Received:	9/25/2015 7:30:00 PM
Project Name:	15166; EBALDC				LogIn Revi	ewed by:	Maria Venegas
WorkOrder №:	1509A61	Matrix: Soil			Carrier:	Client Drop-In	
		Chain of C	ustod	y (COC)	<u>Information</u>		
Chain of custody	present?		Yes	<b>✓</b>	No 🗌		
Chain of custody	signed when relinquis	hed and received?	Yes	<b>✓</b>	No 🗌		
Chain of custody	agrees with sample la	abels?	Yes	•	No 🗌		
Sample IDs noted	d by Client on COC?		Yes	<b>✓</b>	No 🗌		
Date and Time of	f collection noted by C	lient on COC?	Yes	<b>✓</b>	No 🗌		
Sampler's name	noted on COC?		Yes	•	No 🗌		
		<u>Sampl</u>	le Reco	eipt Info	rmation		
Custody seals int	tact on shipping contai	ner/cooler?	Yes		No 🗌		NA 🗸
Shipping containe	er/cooler in good cond	ition?	Yes	•	No 🗌		
Samples in prope	er containers/bottles?		Yes	<b>✓</b>	No 🗌		
Sample containe	rs intact?		Yes	<b>✓</b>	No 🗌		
Sufficient sample	volume for indicated	test?	Yes	•	No 🗌		
		Sample Preservation	on and	Hold Ti	me (HT) Info	<u>rmation</u>	
All samples recei	ived within holding time	e?	Yes	<b>✓</b>	No 🗆		
Sample/Temp Bla	ank temperature			Temp	: 1.3°C		NA 🗌
Water - VOA vial	s have zero headspac	e / no bubbles?	Yes		No 🗌		NA 🗸
Sample labels ch	necked for correct pres	ervation?	Yes	<b>✓</b>	No 🗌		
pH acceptable up	oon receipt (Metal: <2;	522: <4; 218.7: >8)?	Yes		No 🗌		NA 🗹
Samples Receive	ed on Ice?		Yes	<b>✓</b>	No 🗌		
		(Ice Type	e: WE	TICE	)		
UCMR3 Samples		upon receipt for EPA 522?	Voo		No 🗌		NA 🗹
300.1, 537, 539		upon receipt for EPA 218.7,	Yes		No 🗌		NA 🗹
* NOTE: If the "N	lo" box is checked, se	e comments below.					
Comments:			==				=======



"When Quality Counts"

# **Analytical Report**

**WorkOrder:** 1509A62

**Report Created for:** Essel Environmental Consulting

564 Market Street

San Francisco, CA 94104

**Project Contact:** Nik Lahiri

**Project P.O.:** 

**Project Name:** 15166; EBALDC

**Project Received:** 09/25/2015

Analytical Report reviewed & approved for release on 10/05/2015 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:** Essel Environmental Consulting

**Project:** 15166; EBALDC

WorkOrder: 1509A62

#### **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: Essel Environmental Consulting** 

**Project:** 15166; EBALDC

WorkOrder: 1509A62

### **Analytical Qualifiers**

S	spike recovery outside accepted recovery limits
b1	aqueous sample that contains greater than ~1 vol. % sediment
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.
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
e3	aged diesel is significant
e4	gasoline range compounds are significant.
e7	oil range compounds are significant
e8	kerosene/kerosene range/jet fuel range
e11	stoddard solvent/mineral spirit (?)

# **Analytical Report**

**Client: Essel Environmental Consulting** 

**Date Received:** 9/25/15 19:30 **Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC WorkOrder: 1509A62

**Extraction Method: SW5030B** Analytical Method: SW8260B

Unit: μg/L

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

Client ID	Lab ID	Matrix	Date Co	ollected	Instrument	Batch ID
W-ECB3	1509A62-001B	Water	09/24/20	15 16:35	GC28	111001
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
Acetone	18		10	1		10/01/2015 17:03
tert-Amyl methyl ether (TAME)	ND		0.50	1		10/01/2015 17:03
Benzene	ND		0.50	1		10/01/2015 17:03
Bromobenzene	ND		0.50	1		10/01/2015 17:03
Bromochloromethane	ND		0.50	1		10/01/2015 17:03
Bromodichloromethane	ND		0.50	1		10/01/2015 17:03
Bromoform	ND		0.50	1		10/01/2015 17:03
Bromomethane	ND		0.50	1		10/01/2015 17:03
2-Butanone (MEK)	ND		2.0	1		10/01/2015 17:03
t-Butyl alcohol (TBA)	ND		2.0	1		10/01/2015 17:03
n-Butyl benzene	0.91		0.50	1		10/01/2015 17:03
sec-Butyl benzene	1.4		0.50	1		10/01/2015 17:03
tert-Butyl benzene	ND		0.50	1		10/01/2015 17:03
Carbon Disulfide	ND		0.50	1		10/01/2015 17:03
Carbon Tetrachloride	ND		0.50	1		10/01/2015 17:03
Chlorobenzene	ND		0.50	1		10/01/2015 17:03
Chloroethane	ND		0.50	1		10/01/2015 17:03
Chloroform	ND		0.50	1		10/01/2015 17:03
Chloromethane	ND		0.50	1		10/01/2015 17:03
2-Chlorotoluene	ND		0.50	1		10/01/2015 17:03
4-Chlorotoluene	ND		0.50	1		10/01/2015 17:03
Dibromochloromethane	ND		0.50	1		10/01/2015 17:03
1,2-Dibromo-3-chloropropane	ND		0.20	1		10/01/2015 17:03
1,2-Dibromoethane (EDB)	ND		0.50	1		10/01/2015 17:03
Dibromomethane	ND		0.50	1		10/01/2015 17:03
1,2-Dichlorobenzene	ND		0.50	1		10/01/2015 17:03
1,3-Dichlorobenzene	ND		0.50	1		10/01/2015 17:03
1,4-Dichlorobenzene	ND		0.50	1		10/01/2015 17:03
Dichlorodifluoromethane	ND		0.50	1		10/01/2015 17:03
1,1-Dichloroethane	ND		0.50	1		10/01/2015 17:03
1,2-Dichloroethane (1,2-DCA)	ND		0.50	1		10/01/2015 17:03
1,1-Dichloroethene	ND		0.50	1		10/01/2015 17:03
cis-1,2-Dichloroethene	ND		0.50	1		10/01/2015 17:03
trans-1,2-Dichloroethene	ND		0.50	1		10/01/2015 17:03
1,2-Dichloropropane	ND		0.50	1		10/01/2015 17:03
1,3-Dichloropropane	ND		0.50	1		10/01/2015 17:03
2,2-Dichloropropane	ND		0.50	1		10/01/2015 17:03

(Cont.)



# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30 **Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

Client ID	Lab ID	Matrix	Date C	ollected Instrur	ment Batch ID
W-ECB3	1509A62-001B	Water	09/24/20	15 16:35 GC28	111001
Analytes	<u>Result</u>		<u>RL</u>	<u>DF</u>	Date Analyzed
1,1-Dichloropropene	ND		0.50	1	10/01/2015 17:03
cis-1,3-Dichloropropene	ND		0.50	1	10/01/2015 17:03
trans-1,3-Dichloropropene	ND		0.50	1	10/01/2015 17:03
Diisopropyl ether (DIPE)	ND		0.50	1	10/01/2015 17:03
Ethylbenzene	ND		0.50	1	10/01/2015 17:03
Ethyl tert-butyl ether (ETBE)	ND		0.50	1	10/01/2015 17:03
Freon 113	ND		0.50	1	10/01/2015 17:03
Hexachlorobutadiene	ND		0.50	1	10/01/2015 17:03
Hexachloroethane	ND		0.50	1	10/01/2015 17:03
2-Hexanone	ND		0.50	1	10/01/2015 17:03
Isopropylbenzene	ND		0.50	1	10/01/2015 17:03
4-Isopropyl toluene	ND		0.50	1	10/01/2015 17:03
Methyl-t-butyl ether (MTBE)	ND		0.50	1	10/01/2015 17:03
Methylene chloride	ND		0.50	1	10/01/2015 17:03
4-Methyl-2-pentanone (MIBK)	ND		0.50	1	10/01/2015 17:03
Naphthalene	ND		0.50	1	10/01/2015 17:03
n-Propyl benzene	0.67		0.50	1	10/01/2015 17:03
Styrene	ND		0.50	1	10/01/2015 17:03
1,1,1,2-Tetrachloroethane	ND		0.50	1	10/01/2015 17:03
1,1,2,2-Tetrachloroethane	ND		0.50	1	10/01/2015 17:03
Tetrachloroethene	ND		0.50	1	10/01/2015 17:03
Toluene	ND		0.50	1	10/01/2015 17:03
1,2,3-Trichlorobenzene	ND		0.50	1	10/01/2015 17:03
1,2,4-Trichlorobenzene	ND		0.50	1	10/01/2015 17:03
1,1,1-Trichloroethane	ND		0.50	1	10/01/2015 17:03
1,1,2-Trichloroethane	ND		0.50	1	10/01/2015 17:03
Trichloroethene	ND		0.50	1	10/01/2015 17:03
Trichlorofluoromethane	ND		0.50	1	10/01/2015 17:03
1,2,3-Trichloropropane	ND		0.50	1	10/01/2015 17:03
1,2,4-Trimethylbenzene	ND		0.50	1	10/01/2015 17:03
1,3,5-Trimethylbenzene	ND		0.50	1	10/01/2015 17:03
Vinyl Chloride	ND		0.50	1	10/01/2015 17:03
Xylenes, Total	ND		0.50	1	10/01/2015 17:03

# **Analytical Report**

Client: Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 10/1/15-10/3/15 **Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

**Unit:** μg/L

Client ID	Lab ID	Matrix	Date Col	llected Instrument	Batch ID
W-ECB3	1509A62-001B	Water	09/24/201	5 16:35 GC28	111001
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
<u>Surrogates</u>	REC (%)	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	110		70-130		10/01/2015 17:03
Toluene-d8	100		70-130		10/01/2015 17:03
4-BFB	136	S	70-130		10/01/2015 17:03
Analyst(s): MW			Analytical Comm	nents: c4,b1	



# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30 **Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

**Unit:** μg/L

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

WEEB4         1509A62-0028         Water         09/24/2015 16:51         GC28         111001           Analytes         Result         RL         DE         Date_Analyzed           Acetone         ND         10         1         10/01/2015 17:42           Letr-Amyl methyl either (TAME)         ND         0.50         1         10/01/2015 17:42           Bromeche         ND         0.50         1         10/01/2015 17:42           Bromecherome         ND         0.50         1         10/01/2015 17:42           Bromodichioromethane         ND         0.50         1         10/01/2015 17:42           Bromoderioromethane         ND         0.50	Client ID	Lab ID	Matrix	Date C	ollected Ins	strument	Batch ID
Acetone         ND         10         1         10/01/2015 17:42           tart-Mryl methyl ether (TAME)         ND         0.50         1         10/01/2016 17:42           Benzene         ND         0.50         1         10/01/2016 17:42           Bromobenzene         ND         0.50         1         10/01/2015 17:42           Bromochloromethane         ND         0.50         1         10/01/2015 17:42           Bromochloromethane         ND         0.50         1         10/01/2015 17:42           Bromochromethane         ND         0.50         1         10/01/2015 17:42           Bromochromethane         ND         0.50         1         10/01/2015 17:42           Bromomethane         ND         0.50         1         10/01/2015 17:42           Butyl alcohol (TBA)         ND         0.50         1         10/01/2015 17:42 </th <th>W-ECB4</th> <th>1509A62-002B</th> <th>Water</th> <th>09/24/20</th> <th>15 16:51 GC</th> <th>28</th> <th>111001</th>	W-ECB4	1509A62-002B	Water	09/24/20	15 16:51 GC	28	111001
tert-Amyl methyl ether (TAME)         ND         0.50         1         10/01/2015 17:42           Benzene         ND         0.50         1         10/01/2015 17:42           Bromobenzene         ND         0.50         1         10/01/2015 17:42           Bromochloromethane         ND         0.50         1         10/01/2015 17:42           Bromodichloromethane         ND         0.50         1         10/01/2015 17:42           Bromomethane         1.4         0.50         1         10/01/2015 17:42           Beautyl benzene         1.4         0.50         1         10/01/2015 17:42           Bentyl benzene         1.0         0.50         1         10	<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
Benzene	Acetone	ND		10	1		10/01/2015 17:42
Bromobenzene         ND         0.50         1         10/01/2015 17:42           Bromochloromethane         ND         0.50         1         10/01/2015 17:42           Bromodichloromethane         ND         0.50         1         10/01/2015 17:42           Bromoform         ND         0.50         1         10/01/2015 17:42           Bromomethane         ND         0.50         1         10/01/2015 17:42           Bromomethane         ND         0.50         1         10/01/2015 17:42           2-Butanone (MEK)         ND         2.0         1         10/01/2015 17:42           1-Butyl alcohol (TBA)         ND         2.0         1         10/01/2015 17:42           1-Butyl benzene         1.4         0.50         1         10/01/2015 17:42           sec-Butyl benzene         2.0         0.50         1         10/01/2015 17:42           sec-Butyl benzene         0.71         0.50         1         10/01/2015 17:42           Carbon Tetrachloride         ND         0.50         1         10/01/2015 17:42           Carbon Tetrachloride         ND         0.50         1         10/01/2015 17:42           Chlorosthane         ND         0.50         1         10/01	tert-Amyl methyl ether (TAME)	ND		0.50	1		10/01/2015 17:42
Bromochloromethane         ND         0.50         1         10/01/2015 17:42           Bromodichloromethane         ND         0.50         1         10/01/2015 17:42           Bromoform         ND         0.50         1         10/01/2015 17:42           Bromomethane         ND         0.50         1         10/01/2015 17:42           2-Butanone (MEK)         ND         2.0         1         10/01/2015 17:42           1-Butyl alcohol (TBA)         ND         2.0         1         10/01/2015 17:42           1-Butyl benzene         1.4         0.50         1         10/01/2015 17:42           sec-Butyl benzene         2.0         0.50         1         10/01/2015 17:42           sec-Butyl benzene         0.71         0.50         1         10/01/2015 17:42           Carbon Disulfide         ND         0.50         1         10/01/2015 17:42           Carbon Tetrachloride         ND         0.50         1         10/01/2015 17:42           Chlorobenzene         ND         0.50         1         10/01/2015 17:42           Chlorobenzene         ND         0.50         1         10/01/2015 17:42           Chlorobenzene         ND         0.50         1         10/01/	Benzene	ND		0.50	1		10/01/2015 17:42
Bromodichloromethane         ND         0.50         1         10/01/2015 17:42           Bromoform         ND         0.50         1         10/01/2015 17:42           Bromomethane         ND         0.50         1         10/01/2015 17:42           2-Butanone (MEK)         ND         2.0         1         10/01/2015 17:42           t-Butyl alcohol (TBA)         ND         2.0         1         10/01/2015 17:42           t-Butyl benzene         1.4         0.50         1         10/01/2015 17:42           tert-Butyl benzene         2.0         0.50         1         10/01/2015 17:42           tert-Butyl benzene         0.71         0.50         1         10/01/2015 17:42           Carbon Disulfide         ND         0.50         1         10/01/2015 17:42           Carbon Disulfide         ND         0.50         1         10/01/2015 17:42           Carbon Tetrachloride         ND         0.50         1         10/01/2015 17:42           Chlorobenzene         ND         0.50         1         10/01/2015 17:42           Chlorodenae         ND         0.50         1         10/01/2015 17:42           Chloroderbane         ND         0.50         1         10/01/20	Bromobenzene	ND		0.50	1		10/01/2015 17:42
Bromoform         ND         0.50         1         10/01/2015 17:42           Bromomethane         ND         0.50         1         10/01/2015 17:42           2-Butanone (MEK)         ND         2.0         1         10/01/2015 17:42           Ebutyl obol (TBA)         ND         2.0         1         10/01/2015 17:42           r-Butyl benzene         1.4         0.50         1         10/01/2015 17:42           sec-Butyl benzene         2.0         0.50         1         10/01/2015 17:42           sec-Butyl benzene         2.0         0.50         1         10/01/2015 17:42           Carbon Disulfide         ND         0.50         1         10/01/2015 17:42           Carbon Disulfide         ND         0.50         1         10/01/2015 17:42           Carbon Tetrachloride         ND         0.50         1         10/01/2015 17:42           Chlorobenzene         ND         0.50         1         10/01/2015 17:42           Chlorothane         ND         0.50         1         10/01/2015 17:42           Chlorothane         ND         0.50         1         10/01/2015 17:42           Chlorotothane         ND         0.50         1         10/01/2015 17:42	Bromochloromethane	ND		0.50	1		10/01/2015 17:42
Bromomethane	Bromodichloromethane	ND		0.50	1		10/01/2015 17:42
2-Butanone (MEK)         ND         2.0         1         10/01/2015 17:42           t-Butyl alcohol (TBA)         ND         2.0         1         10/01/2015 17:42           n-Butyl benzene         1.4         0.50         1         10/01/2015 17:42           sec-Butyl benzene         2.0         0.50         1         10/01/2015 17:42           tert-Butyl benzene         0.71         0.50         1         10/01/2015 17:42           Carbon Disulfide         ND         0.50         1         10/01/2015 17:42           Carbon Disulfide         ND         0.50         1         10/01/2015 17:42           Carbon Tetrachloride         ND         0.50         1         10/01/2015 17:42           Chlorosthane         ND         0.50         1         10/01/2015 17:42           Chlorosthane         ND         0.50         1         10/01/2015 17:42           Chloromethane         ND         0.50         1         10/01/2015 17:42           Chloromethane         ND         0.50         1         10/01/2015 17:42           2-Chlorotoluene         ND         0.50         1         10/01/2015 17:42           2-Chlorotoluene         ND         0.50         1         10/01/2	Bromoform	ND		0.50	1		10/01/2015 17:42
t-Butyl alcohol (TBA) ND 2.0 1 1001/2015 17:42 sec-Butyl benzene 1.4 0.50 1 1001/2015 17:42 sec-Butyl benzene 2.0 0.50 1 1001/2015 17:42 sec-Butyl benzene 2.0 0.50 1 1001/2015 17:42 sec-Butyl benzene 2.0 0.50 1 1001/2015 17:42 Carbon Disulfide ND 0.50 1 1001/2015 17:42 Carbon Disulfide ND 0.50 1 1001/2015 17:42 Carbon Tosulfide ND 0.50 1 1001/2015 17:42 Carbon Tetrachloride ND 0.50 1 1001/2015 17:42 Chlorobenzene ND 0.50 1 1001/2015 17:42 Chlorobenzene ND 0.50 1 1001/2015 17:42 Chloroethane (EDB) ND 0.50 1 1001/2015 17:42 Chloroethane ND 0.50 1 1001/2015 17:	Bromomethane	ND		0.50	1		10/01/2015 17:42
n-Butyl benzene         1.4         0.50         1         10/01/2015 17:42           sec-Butyl benzene         2.0         0.50         1         10/01/2015 17:42           tert-Butyl benzene         0.71         0.50         1         10/01/2015 17:42           Carbon Disulfide         ND         0.50         1         10/01/2015 17:42           Carbon Tetrachloride         ND         0.50         1         10/01/2015 17:42           Chlorobenzene         ND         0.50         1         10/01/2015 17:42           Chloroethane         ND         0.50         1         10/01/2015 17:42           Chloroform         ND         0.50         1         10/01/2015 17:42           Chloroform         ND         0.50         1         10/01/2015 17:42           Chloroformethane         ND         0.50         1         10/01/2015 17:42           2-Chlorotoluene         ND         0.50         1         10/01/2015 17:42           2-Chlorotoluene         ND         0.50         1         10/01/2015 17:42           2-Chlorotoluene         ND         0.50         1         10/01/2015 17:42           1,2-Dibromo-S-chloropropane         ND         0.50         1         10/01	2-Butanone (MEK)	ND		2.0	1		10/01/2015 17:42
sec-Butyl benzene         2.0         0.50         1         10/01/2015 17:42           tert-Butyl benzene         0.71         0.50         1         10/01/2015 17:42           Carbon Disulfide         ND         0.50         1         10/01/2015 17:42           Carbon Tetrachloride         ND         0.50         1         10/01/2015 17:42           Chloroberacene         ND         0.50         1         10/01/2015 17:42           Chloroethane         ND         0.50         1         10/01/2015 17:42           Chloroform         ND         0.50         1         10/01/2015 17:42           Chloromethane         ND         0.50         1         10/01/2015 17:42           Chloromethane         ND         0.50         1         10/01/2015 17:42           Chloromethane         ND         0.50         1         10/01/2015 17:42           Chlorotoluene         ND         0.50         1         10/01/2015 17:42           2-Chlorotoluene         ND         0.50         1         10/01/2015 17:42           2-Chlorotoluene         ND         0.50         1         10/01/2015 17:42           2-Chlorotoluene         ND         0.50         1         10/01/2015 17:42	t-Butyl alcohol (TBA)	ND		2.0	1		10/01/2015 17:42
tert-Butyl benzene         0.71         0.50         1         10/01/2015 17:42           Carbon Disulfide         ND         0.50         1         10/01/2015 17:42           Carbon Tetrachloride         ND         0.50         1         10/01/2015 17:42           Chlorobenzene         ND         0.50         1         10/01/2015 17:42           Chloroethane         ND         0.50         1         10/01/2015 17:42           Chloroform         ND         0.50         1         10/01/2015 17:42           Chloromethane         ND         0.50         1         10/01/2015 17:42           Chlorotoluene         ND         0.50         1         10/01/2015 17:42           2-Chlorotoluene         ND         0.50         1         10/01/2015 17:42           2-Chlorotoluene         ND         0.50         1         10/01/2015 17:42           2-Chloromethane         ND         0.50         1         10/01/2015 17:42           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/01/2015 17:42           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/01/2015 17:42           1,2-Dibromoethane (EDB)         ND         0.50         1	n-Butyl benzene	1.4		0.50	1		10/01/2015 17:42
Carbon Disulfide         ND         0.50         1         10/01/2015 17:42           Carbon Tetrachloride         ND         0.50         1         10/01/2015 17:42           Chlorobenzene         ND         0.50         1         10/01/2015 17:42           Chloroethane         ND         0.50         1         10/01/2015 17:42           Chloroform         ND         0.50         1         10/01/2015 17:42           Chloromethane         ND         0.50         1         10/01/2015 17:42           2-Chlorotoluene         ND         0.50         1         10/01/2015 17:42           4-Chlorotoluene         ND         0.50         1         10/01/2015 17:42           1/2-Dibromoethane         ND         0.50         1         10/01/2015 17:42           1/2-Dibromoethane         (EDB)         ND         0.50         1         10/01/2015 17:42           1/2-Dichlorobenzene         ND         0.50         1	sec-Butyl benzene	2.0		0.50	1		10/01/2015 17:42
Carbon Tetrachloride         ND         0.50         1         10/01/2015 17:42           Chlorobenzene         ND         0.50         1         10/01/2015 17:42           Chloroethane         ND         0.50         1         10/01/2015 17:42           Chloroform         ND         0.50         1         10/01/2015 17:42           Chloromethane         ND         0.50         1         10/01/2015 17:42           2-Chlorotoluene         ND         0.50         1         10/01/2015 17:42           4-Chlorotoluene         ND         0.50         1         10/01/2015 17:42           4-Chlorotoluene         ND         0.50         1         10/01/2015 17:42           4-Chlorotoluene         ND         0.50         1         10/01/2015 17:42           1-Chloroborenee         ND         0.50         1         10/01/2015 17:42           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/01/2015 17:42           1,2-Dibromoethane (EDB)         ND         0.50         1         10/01/2015 17:42           1,2-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           1,4-Dichlorobenzene         ND         0.50         1         <	tert-Butyl benzene	0.71		0.50	1		10/01/2015 17:42
Chlorobenzene         ND         0.50         1         10/01/2015 17:42           Chloroethane         ND         0.50         1         10/01/2015 17:42           Chloroform         ND         0.50         1         10/01/2015 17:42           Chloroformethane         ND         0.50         1         10/01/2015 17:42           2-Chlorotoluene         ND         0.50         1         10/01/2015 17:42           4-Chlorotoluene         ND         0.50         1         10/01/2015 17:42           1,2-Dibromo-3-chloropropane         ND         0.50 <t< td=""><td>Carbon Disulfide</td><td>ND</td><td></td><td>0.50</td><td>1</td><td></td><td>10/01/2015 17:42</td></t<>	Carbon Disulfide	ND		0.50	1		10/01/2015 17:42
Chloroethane         ND         0.50         1         10/01/2015 17:42           Chloroform         ND         0.50         1         10/01/2015 17:42           Chloromethane         ND         0.50         1         10/01/2015 17:42           2-Chlorotoluene         ND         0.50         1         10/01/2015 17:42           4-Chlorotoluene         ND         0.50         1         10/01/2015 17:42           4-Chlorotoluene         ND         0.50         1         10/01/2015 17:42           Dibromochloromethane         ND         0.50         1         10/01/2015 17:42           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/01/2015 17:42           1,2-Dibromoethane (EDB)         ND         0.50         1         10/01/2015 17:42           1,2-Dibromoethane (EDB)         ND         0.50         1         10/01/2015 17:42           1,2-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           1,2-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           1,4-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           1,1-Dichlorothane         ND         0.50	Carbon Tetrachloride	ND		0.50	1		10/01/2015 17:42
Chloroform         ND         0.50         1         10/01/2015 17:42           Chloromethane         ND         0.50         1         10/01/2015 17:42           2-Chlorotoluene         ND         0.50         1         10/01/2015 17:42           4-Chlorotoluene         ND         0.50         1         10/01/2015 17:42           4-Chlorotoluene         ND         0.50         1         10/01/2015 17:42           Dibromochloromethane         ND         0.50         1         10/01/2015 17:42           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/01/2015 17:42           1,2-Dibromoethane (EDB)         ND         0.50         1         10/01/2015 17:42           1,2-Dibromoethane         ND         0.50         1         10/01/2015 17:42           1,2-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           1,3-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           1,4-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           1,1-Dichloroethane         ND         0.50         1         10/01/2015 17:42           1,1-Dichloroethane         ND         0.50 <td< td=""><td>Chlorobenzene</td><td>ND</td><td></td><td>0.50</td><td>1</td><td></td><td>10/01/2015 17:42</td></td<>	Chlorobenzene	ND		0.50	1		10/01/2015 17:42
Chloromethane	Chloroethane	ND		0.50	1		10/01/2015 17:42
2-Chlorotoluene         ND         0.50         1         10/01/2015 17:42           4-Chlorotoluene         ND         0.50         1         10/01/2015 17:42           Dibromochloromethane         ND         0.50         1         10/01/2015 17:42           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/01/2015 17:42           1,2-Dibromoethane (EDB)         ND         0.50         1         10/01/2015 17:42           1,2-Dibrlomoethane         ND         0.50         1         10/01/2015 17:42           1,2-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           1,3-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           1,4-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           1,4-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           1,1-Dichloroethane         ND         0.50         1         10/01/2015 17:42           1,1-Dichloroethane         ND         0.50         1         10/01/2015 17:42           1,1-Dichloroethane         ND         0.50         1         10/01/2015 17:42           1,1-Dichloroethene         ND         0.5	Chloroform	ND		0.50	1		10/01/2015 17:42
4-Chlorotoluene         ND         0.50         1         10/01/2015 17:42           Dibromochloromethane         ND         0.50         1         10/01/2015 17:42           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/01/2015 17:42           1,2-Dibromoethane (EDB)         ND         0.50         1         10/01/2015 17:42           1,2-Dibromomethane         ND         0.50         1         10/01/2015 17:42           1,2-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           1,3-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           1,4-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           1,1-Dichloroethane         ND         0.50         1         10/01/2015 17:42           1,1-Dichloroethane         ND         0.50         1         10/01/2015 17:42           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/01/2015 17:42           1,1-Dichloroethene         ND         0.50         1         10/01/2015 17:42           1,2-Dichloroethene         ND         0.50         1         10/01/2015 17:42           trans-1,2-Dichloroethene         ND <td>Chloromethane</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td></td> <td>10/01/2015 17:42</td>	Chloromethane	ND		0.50	1		10/01/2015 17:42
Dibromochloromethane         ND         0.50         1         10/01/2015 17:42           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/01/2015 17:42           1,2-Dibromoethane (EDB)         ND         0.50         1         10/01/2015 17:42           Dibromomethane         ND         0.50         1         10/01/2015 17:42           1,2-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           1,3-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           1,4-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           1,4-Dichlorothane         ND         0.50         1         10/01/2015 17:42           1,1-Dichloroethane         ND         0.50         1         10/01/2015 17:42           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/01/2015 17:42           1,1-Dichloroethene         ND         0.50         1         10/01/2015 17:42           1,2-Dichloroethene         ND         0.50         1         10/01/2015 17:42           1,2-Dichloroethene         ND         0.50         1         10/01/2015 17:42           trans-1,2-Dichloroethene         ND	2-Chlorotoluene	ND		0.50	1		10/01/2015 17:42
1,2-Dibromo-3-chloropropane         ND         0.20         1         10/01/2015 17:42           1,2-Dibromoethane (EDB)         ND         0.50         1         10/01/2015 17:42           Dibromomethane         ND         0.50         1         10/01/2015 17:42           1,2-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           1,3-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           1,4-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           1,1-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           1,1-Dichloroethane         ND         0.50         1         10/01/2015 17:42           1,2-Dichloroethane         ND         0.50         1         10/01/2015 17:42           1,1-Dichloroethane         ND         0.50         1         10/01/2015 17:42           1,1-Dichloroethene         ND         0.50         1         10/01/2015 17:42           1cis-1,2-Dichloroethene         ND         0.50         1         10/01/2015 17:42           trans-1,2-Dichloroethene         ND         0.50         1         10/01/2015 17:42           1,2-Dichloropropane         ND	4-Chlorotoluene	ND		0.50	1		10/01/2015 17:42
1,2-Dibromoethane (EDB)         ND         0.50         1         10/01/2015 17:42           Dibromomethane         ND         0.50         1         10/01/2015 17:42           1,2-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           1,3-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           1,4-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           Dichlorodifluoromethane         ND         0.50         1         10/01/2015 17:42           1,1-Dichloroethane         ND         0.50         1         10/01/2015 17:42           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/01/2015 17:42           1,1-Dichloroethene         ND         0.50         1         10/01/2015 17:42           cis-1,2-Dichloroethene         ND         0.50         1         10/01/2015 17:42           trans-1,2-Dichloroethene         ND         0.50         1         10/01/2015 17:42           1,2-Dichloropropane         ND         0.50         1         10/01/2015 17:42           1,3-Dichloropropane         ND         0.50         1         10/01/2015 17:42	Dibromochloromethane	ND		0.50	1		10/01/2015 17:42
Dibromomethane         ND         0.50         1         10/01/2015 17:42           1,2-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           1,3-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           1,4-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           Dichlorodifluoromethane         ND         0.50         1         10/01/2015 17:42           1,1-Dichloroethane         ND         0.50         1         10/01/2015 17:42           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/01/2015 17:42           1,1-Dichloroethene         ND         0.50         1         10/01/2015 17:42           cis-1,2-Dichloroethene         ND         0.50         1         10/01/2015 17:42           trans-1,2-Dichloroethene         ND         0.50         1         10/01/2015 17:42           1,2-Dichloropropane         ND         0.50         1         10/01/2015 17:42           1,3-Dichloropropane         ND         0.50         1         10/01/2015 17:42           1,3-Dichloropropane         ND         0.50         1         10/01/2015 17:42	1,2-Dibromo-3-chloropropane	ND		0.20	1		10/01/2015 17:42
1,2-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           1,3-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           1,4-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           Dichlorodifluoromethane         ND         0.50         1         10/01/2015 17:42           1,1-Dichloroethane         ND         0.50         1         10/01/2015 17:42           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/01/2015 17:42           1,1-Dichloroethene         ND         0.50         1         10/01/2015 17:42           cis-1,2-Dichloroethene         1.0         0.50         1         10/01/2015 17:42           trans-1,2-Dichloroethene         ND         0.50         1         10/01/2015 17:42           1,2-Dichloropropane         ND         0.50         1         10/01/2015 17:42           1,3-Dichloropropane         ND         0.50         1         10/01/2015 17:42	1,2-Dibromoethane (EDB)	ND		0.50	1		10/01/2015 17:42
1,3-Dichlorobenzene       ND       0.50       1       10/01/2015 17:42         1,4-Dichlorobenzene       ND       0.50       1       10/01/2015 17:42         Dichlorodifluoromethane       ND       0.50       1       10/01/2015 17:42         1,1-Dichloroethane       ND       0.50       1       10/01/2015 17:42         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/01/2015 17:42         1,1-Dichloroethene       ND       0.50       1       10/01/2015 17:42         cis-1,2-Dichloroethene       1.0       0.50       1       10/01/2015 17:42         trans-1,2-Dichloroethene       ND       0.50       1       10/01/2015 17:42         1,2-Dichloropropane       ND       0.50       1       10/01/2015 17:42         1,3-Dichloropropane       ND       0.50       1       10/01/2015 17:42	Dibromomethane	ND		0.50	1		10/01/2015 17:42
1,4-Dichlorobenzene         ND         0.50         1         10/01/2015 17:42           Dichlorodifluoromethane         ND         0.50         1         10/01/2015 17:42           1,1-Dichloroethane         ND         0.50         1         10/01/2015 17:42           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/01/2015 17:42           1,1-Dichloroethene         ND         0.50         1         10/01/2015 17:42           cis-1,2-Dichloroethene         1.0         0.50         1         10/01/2015 17:42           trans-1,2-Dichloroethene         ND         0.50         1         10/01/2015 17:42           1,2-Dichloropropane         ND         0.50         1         10/01/2015 17:42           1,3-Dichloropropane         ND         0.50         1         10/01/2015 17:42	1,2-Dichlorobenzene	ND		0.50	1		10/01/2015 17:42
Dichlorodifluoromethane         ND         0.50         1         10/01/2015 17:42           1,1-Dichloroethane         ND         0.50         1         10/01/2015 17:42           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/01/2015 17:42           1,1-Dichloroethene         ND         0.50         1         10/01/2015 17:42           cis-1,2-Dichloroethene         1.0         0.50         1         10/01/2015 17:42           trans-1,2-Dichloroethene         ND         0.50         1         10/01/2015 17:42           1,2-Dichloropropane         ND         0.50         1         10/01/2015 17:42           1,3-Dichloropropane         ND         0.50         1         10/01/2015 17:42	1,3-Dichlorobenzene	ND		0.50	1		10/01/2015 17:42
1,1-Dichloroethane       ND       0.50       1       10/01/2015 17:42         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/01/2015 17:42         1,1-Dichloroethene       ND       0.50       1       10/01/2015 17:42         cis-1,2-Dichloroethene       1.0       0.50       1       10/01/2015 17:42         trans-1,2-Dichloroethene       ND       0.50       1       10/01/2015 17:42         1,2-Dichloropropane       ND       0.50       1       10/01/2015 17:42         1,3-Dichloropropane       ND       0.50       1       10/01/2015 17:42	1,4-Dichlorobenzene	ND		0.50	1		10/01/2015 17:42
1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/01/2015 17:42         1,1-Dichloroethene       ND       0.50       1       10/01/2015 17:42         cis-1,2-Dichloroethene       1.0       0.50       1       10/01/2015 17:42         trans-1,2-Dichloroethene       ND       0.50       1       10/01/2015 17:42         1,2-Dichloropropane       ND       0.50       1       10/01/2015 17:42         1,3-Dichloropropane       ND       0.50       1       10/01/2015 17:42	Dichlorodifluoromethane	ND		0.50	1		10/01/2015 17:42
1,1-Dichloroethene         ND         0.50         1         10/01/2015 17:42           cis-1,2-Dichloroethene         1.0         0.50         1         10/01/2015 17:42           trans-1,2-Dichloroethene         ND         0.50         1         10/01/2015 17:42           1,2-Dichloropropane         ND         0.50         1         10/01/2015 17:42           1,3-Dichloropropane         ND         0.50         1         10/01/2015 17:42	1,1-Dichloroethane	ND		0.50	1		10/01/2015 17:42
cis-1,2-Dichloroethene         1.0         0.50         1         10/01/2015 17:42           trans-1,2-Dichloroethene         ND         0.50         1         10/01/2015 17:42           1,2-Dichloropropane         ND         0.50         1         10/01/2015 17:42           1,3-Dichloropropane         ND         0.50         1         10/01/2015 17:42	1,2-Dichloroethane (1,2-DCA)	ND		0.50	1		10/01/2015 17:42
trans-1,2-Dichloroethene         ND         0.50         1         10/01/2015 17:42           1,2-Dichloropropane         ND         0.50         1         10/01/2015 17:42           1,3-Dichloropropane         ND         0.50         1         10/01/2015 17:42	1,1-Dichloroethene	ND		0.50	1		10/01/2015 17:42
1,2-Dichloropropane         ND         0.50         1         10/01/2015 17:42           1,3-Dichloropropane         ND         0.50         1         10/01/2015 17:42	cis-1,2-Dichloroethene	1.0		0.50	1		10/01/2015 17:42
1,3-Dichloropropane         ND         0.50         1         10/01/2015 17:42	trans-1,2-Dichloroethene	ND		0.50	1		10/01/2015 17:42
1,3-Dichloropropane         ND         0.50         1         10/01/2015 17:42	1,2-Dichloropropane	ND		0.50	1		10/01/2015 17:42
2,2-Dichloropropane         ND         0.50         1         10/01/2015 17:42	1,3-Dichloropropane	ND		0.50	1		10/01/2015 17:42
	2,2-Dichloropropane	ND		0.50	1		10/01/2015 17:42

(Cont.)



# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30 **Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

Client ID	Lab ID	Matrix	Date C	ollected	Instrument	Batch ID
W-ECB4	1509A62-002B	Water	09/24/20	015 16:51	GC28	111001
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>		Date Analyzed
1,1-Dichloropropene	ND		0.50	1		10/01/2015 17:42
cis-1,3-Dichloropropene	ND		0.50	1		10/01/2015 17:42
trans-1,3-Dichloropropene	ND		0.50	1		10/01/2015 17:42
Diisopropyl ether (DIPE)	ND		0.50	1		10/01/2015 17:42
Ethylbenzene	ND		0.50	1		10/01/2015 17:42
Ethyl tert-butyl ether (ETBE)	ND		0.50	1		10/01/2015 17:42
Freon 113	ND		0.50	1		10/01/2015 17:42
Hexachlorobutadiene	ND		0.50	1		10/01/2015 17:42
Hexachloroethane	ND		0.50	1		10/01/2015 17:42
2-Hexanone	ND		0.50	1		10/01/2015 17:42
Isopropylbenzene	2.0		0.50	1		10/01/2015 17:42
4-Isopropyl toluene	ND		0.50	1		10/01/2015 17:42
Methyl-t-butyl ether (MTBE)	ND		0.50	1		10/01/2015 17:42
Methylene chloride	ND		0.50	1		10/01/2015 17:42
4-Methyl-2-pentanone (MIBK)	ND		0.50	1		10/01/2015 17:42
Naphthalene	ND		0.50	1		10/01/2015 17:42
n-Propyl benzene	1.8		0.50	1		10/01/2015 17:42
Styrene	ND		0.50	1		10/01/2015 17:42
1,1,1,2-Tetrachloroethane	ND		0.50	1		10/01/2015 17:42
1,1,2,2-Tetrachloroethane	ND		0.50	1		10/01/2015 17:42
Tetrachloroethene	ND		0.50	1		10/01/2015 17:42
Toluene	ND		0.50	1		10/01/2015 17:42
1,2,3-Trichlorobenzene	ND		0.50	1		10/01/2015 17:42
1,2,4-Trichlorobenzene	ND		0.50	1		10/01/2015 17:42
1,1,1-Trichloroethane	ND		0.50	1		10/01/2015 17:42
1,1,2-Trichloroethane	ND		0.50	1		10/01/2015 17:42
Trichloroethene	ND		0.50	1		10/01/2015 17:42
Trichlorofluoromethane	ND		0.50	1		10/01/2015 17:42
1,2,3-Trichloropropane	ND		0.50	1		10/01/2015 17:42
1,2,4-Trimethylbenzene	ND		0.50	1		10/01/2015 17:42
1,3,5-Trimethylbenzene	ND		0.50	1		10/01/2015 17:42
Vinyl Chloride	0.67		0.50	1		10/01/2015 17:42
Xylenes, Total	ND		0.50	1		10/01/2015 17:42

# **Analytical Report**

Client: Essel Environmental Consulting

15166; EBALDC

Date Received: 9/25/15 19:30

**Date Prepared:** 10/1/15-10/3/15

**Project:** 

**WorkOrder:** 1509A62

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

02B Water	09/24/20 RL	15 16:51 GC28 DF	111001  Date Analyzed
	<u>RL</u>	<u>DF</u>	Date Analyzed
<b>Qualifiers</b>	<u>Limits</u>		
S	70-130		10/01/2015 17:42
	70-130		10/01/2015 17:42
S	70-130		10/01/2015 17:42
	S	S 70-130 70-130 S 70-130	S 70-130 70-130



# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30 **Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

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

Benzene         ND         0.50         1         10/02/2015 18:45           Bromobenzene         ND         0.50         1         10/02/2015 18:45           Bromochloromethane         ND         0.50         1         10/02/2015 18:45           Bromoclichloromethane         ND         0.50         1         10/02/2015 18:45           Bromodern         ND         0.50         1         10/02/2015 18:45           Bromodern         ND         0.50         1         10/02/2015 18:45           Bromomethane         ND         0.50         1         10/02/2015 18:45           2-Butanone (MEK)         2.8         2.0         1         10/02/2015 18:45           1-Butyl alcohol (TBA)         ND         2.0         1         10/02/2015 18:45           1-Butyl benzene         ND         0.50         1         10/02/2015 18:45 <th>Client ID</th> <th>Lab ID</th> <th>Matrix</th> <th>Date C</th> <th>ollected</th> <th>Instrument</th> <th>Batch ID</th>	Client ID	Lab ID	Matrix	Date C	ollected	Instrument	Batch ID
Acetone	W-ECB13	1509A62-003B	Water	09/24/20	15 17:13	GC10	111091
tert-Amyl methyl ether (TAME)         ND         0.50         1         10/02/2015 18:45           Benzene         ND         0.50         1         10/02/2015 18:45           Bromobenzene         ND         0.50         1         10/02/2015 18:45           Bromochloromethane         ND         0.50         1         10/02/2015 18:45           Bromodichloromethane         ND         0.50         1         10/02/2015 18:45           Bromomethane         ND         0.50         1         10/02/2015 18:45           Brown Disable Architecture         ND         0.50         1         10/02/2015 18:45           Brown Disable Architecture         ND         0.50         1         10/02/	<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
Benzene         ND         0.50         1         10/02/2015 18:45           Bromobenzene         ND         0.50         1         10/02/2015 18:45           Bromochloromethane         ND         0.50         1         10/02/2015 18:45           Bromochloromethane         ND         0.50         1         10/02/2015 18:45           Bromodichloromethane         ND         0.50         1         10/02/2015 18:45           Bromoderhane         ND         0.50         1         10/02/2015 18:45           Bromoderhane         ND         0.50         1         10/02/2015 18:45           Bromoder (MEK)         2.8         2.0         1         10/02/2015 18:45           2-Butanone (MEK)         2.8         2.0         1         10/02/2015 18:45           1-Butyl alcohol (TBA)         ND         0.50         1         10/02/2015 18:45           1-Butyl benzene         ND         0.50         1         10/02/2015 18:45           1-Butyl benzene         ND         0.50         1         10/02/2015 18:45           tert-Butyl benzene         ND         0.50         1         10/02/2015 18:45           tert-Butyl benzene         ND         0.50         1         10/02/2015 1	Acetone	11		10	1		10/02/2015 18:45
Bromobenzene   ND	tert-Amyl methyl ether (TAME)	ND		0.50	1		10/02/2015 18:45
Bromochloromethane         ND         0.50         1         10/02/2015 18:45           Bromodichloromethane         ND         0.50         1         10/02/2015 18:45           Bromoform         ND         0.50         1         10/02/2015 18:45           Bromomethane         ND         0.50         1         10/02/2015 18:45           2-Butanone (MEK)         2.8         2.0         1         10/02/2015 18:45           1-Butyl alcohol (TBA)         ND         2.0         1         10/02/2015 18:45           1-Butyl alcohol (TBA)         ND         0.50         1         10/02/2015 18:45           1-Butyl benzene         ND         0.50         1         10/02/2015 18:45           Carbon Tetrachloride         ND         0.50         1         10/02/2015 18:45           Carbon Tetrachloride         ND         0.50         1         <	Benzene	ND		0.50	1		10/02/2015 18:45
Bromodichloromethane         ND         0.50         1         10/02/2015 18:45           Bromoform         ND         0.50         1         10/02/2015 18:45           Bromomethane         ND         0.50         1         10/02/2015 18:45           Bromomethane         ND         0.50         1         10/02/2015 18:45           t-Butyl alcohol (TBA)         ND         2.0         1         10/02/2015 18:45           t-Butyl benzene         ND         0.50         1         10/02/2015 18:45           ter-Butyl benzene         ND         0.50         1         10/02/2015 18:45           tert-Butyl benzene         ND         0.50         1         10/02/2015 18:45           tert-Butyl benzene         ND         0.50         1         10/02/2015 18:45           Carbon Disulfide         ND         0.50         1         10/02/2015 18:45           Chlorotholocon         ND         0.50         1         10/02/201	Bromobenzene	ND		0.50	1		10/02/2015 18:45
Bromoform   ND   0.50	Bromochloromethane	ND		0.50	1		10/02/2015 18:45
Bromomethane	Bromodichloromethane	ND		0.50	1		10/02/2015 18:45
2-Butanone (MEK)         2.8         2.0         1         10/02/2015 18:45           t-Butyl alcohol (TBA)         ND         2.0         1         10/02/2015 18:45           n-Butyl benzene         ND         0.50         1         10/02/2015 18:45           sec-Butyl benzene         ND         0.50         1         10/02/2015 18:45           tert-Butyl benzene         ND         0.50         1         10/02/2015 18:45           Carbon Disulfide         ND         0.50         1         10/02/2015 18:45           Carbon Disulfide         ND         0.50         1         10/02/2015 18:45           Carbon Tetrachloride         ND         0.50         1         10/02/2015 18:45           Chlorothane         ND         0.50         1         10/02/2015 18:45           Chlorotoluene         ND         0.50         1         10/02/2015 18:45           Chlorotoluene         ND         0.50         1         10/02/2015 18:45 <td>Bromoform</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td></td> <td>10/02/2015 18:45</td>	Bromoform	ND		0.50	1		10/02/2015 18:45
t-Butyl alcohol (TBA) ND 2.0 1 10/02/2015 18:45 sec-Butyl benzene ND 0.50 1 10/02/2015 18:45 sec-Butyl benzene ND 0.50 1 10/02/2015 18:45 sec-Butyl benzene ND 0.50 1 10/02/2015 18:45 Carbon Disulfide ND 0.50 1 10/02/2015 18:45 Carbon Disulfide ND 0.50 1 10/02/2015 18:45 Carbon Disulfide ND 0.50 1 10/02/2015 18:45 Carbon Tetrachloride ND 0.50 1 10/02/2015 18:45 Chlorobenzene ND 0.50 1 10/02/2015 18:45 Chlorobenzene ND 0.50 1 10/02/2015 18:45 Chlorobenzene ND 0.50 1 10/02/2015 18:45 Chlorochtane (EDB) ND 0.50 1 10/02/2015 18:45 Chlorochtane (EDB) ND 0.50 1 10/02/2015 18:45 Chlorochtane ND 0.50 1 10/02	Bromomethane	ND		0.50	1		10/02/2015 18:45
n-Butyl benzene ND 0.50 1 10/02/2015 18:45 sec-Butyl benzene ND 0.50 1 10/02/2015 18:45 tert-Butyl benzene ND 0.50 1 10/02/2015 18:45 Carbon Disulfide ND 0.50 1 10/02/2015 18:45 Chlorobenzene ND 0.50 1 10/02/2015 18:45 Chloroethane ND 0.50 1 10/02/2015 18:45 Chloromethane ND 0.50 1 10/02/2015 18:45 Chloromethane ND 0.50 1 10/02/2015 18:45 Chlorotoluene ND 0.50 1 10/02/2015 18:45 Chlorotoluene ND 0.50 1 10/02/2015 18:45 Chloromethane (EDB) ND 0.50 1 10/02/2015 18:45 Chloromethane ND 0.50 1 10/02/2015 18:45 Chloromethan	2-Butanone (MEK)	2.8		2.0	1		10/02/2015 18:45
sec-Butyl benzene         ND         0.50         1         10/02/2015 18:45           tert-Butyl benzene         ND         0.50         1         10/02/2015 18:45           Carbon Disulfide         ND         0.50         1         10/02/2015 18:45           Carbon Tetrachloride         ND         0.50         1         10/02/2015 18:45           Chlorobenzene         ND         0.50         1         10/02/2015 18:45           Chlorotethane         ND         0.50         1         10/02/2015 18:45           Chlorotoluene         ND         0.50         1         10/02/2015 18:45           Dibromochloromethane         ND         0.50         1         10/02/2015 18:45 <td>t-Butyl alcohol (TBA)</td> <td>ND</td> <td></td> <td>2.0</td> <td>1</td> <td></td> <td>10/02/2015 18:45</td>	t-Butyl alcohol (TBA)	ND		2.0	1		10/02/2015 18:45
tert-Butyl benzene         ND         0.50         1         10/02/2015 18:45           Carbon Disulfide         ND         0.50         1         10/02/2015 18:45           Carbon Tetrachloride         ND         0.50         1         10/02/2015 18:45           Chlorobenzene         ND         0.50         1         10/02/2015 18:45           Chlorotehane         ND         0.50         1         10/02/2015 18:45           Chloroform         ND         0.50         1         10/02/2015 18:45           Chlorotehane         ND         0.50         1         10/02/2015 18:45           Chlorotehane         ND         0.50         1         10/02/2015 18:45           Chlorotehane         ND         0.50         1         10/02/2015 18:45           2-Chlorotoluene         ND         0.50         1         10/02/2015 18:45           1,2-Dibromoethane         ND         0.50         1         10/02/2015 18:45	n-Butyl benzene	ND		0.50	1		10/02/2015 18:45
Carbon Disulfide         ND         0.50         1         10/02/2015 18:45           Carbon Tetrachloride         ND         0.50         1         10/02/2015 18:45           Chlorobenzene         ND         0.50         1         10/02/2015 18:45           Chloroethane         ND         0.50         1         10/02/2015 18:45           Chloroform         ND         0.50         1         10/02/2015 18:45           Chloromethane         ND         0.50         1         10/02/2015 18:45           Chlorotoluene         ND         0.50         1         10/02/2015 18:45           4-Chlorotoluene         ND         0.50         1         10/02/2015 18:45           4-Chlorotoluene         ND         0.50         1         10/02/2015 18:45           Dibromochloromethane         ND         0.50         1         10/02/2015 18:45           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/02/2015 18:45           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 18:45           Dibromomethane         ND         0.50         1         10/02/2015 18:45           Dibromomethane         ND         0.50         1         10/	sec-Butyl benzene	ND		0.50	1		10/02/2015 18:45
Carbon Tetrachloride         ND         0.50         1         10/02/2015 18:45           Chlorobenzene         ND         0.50         1         10/02/2015 18:45           Chloroethane         ND         0.50         1         10/02/2015 18:45           Chloroform         ND         0.50         1         10/02/2015 18:45           Chloromethane         ND         0.50         1         10/02/2015 18:45           C-Chlorotoluene         ND         0.50         1         10/02/2015 18:45           2-Chlorotoluene         ND         0.50         1         10/02/2015 18:45           2-Chlorotoluene         ND         0.50         1         10/02/2015 18:45           Dibromochloromethane         ND         0.50         1         10/02/2015 18:45           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/02/2015 18:45           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 18:45           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           1,4-Dichlorobenzene         ND         0.50         1	tert-Butyl benzene	ND		0.50	1		10/02/2015 18:45
Chlorobenzene         ND         0.50         1         10/02/2015 18:45           Chloroethane         ND         0.50         1         10/02/2015 18:45           Chloroform         ND         0.50         1         10/02/2015 18:45           Chloromethane         ND         0.50         1         10/02/2015 18:45           2-Chlorotoluene         ND         0.50         1         10/02/2015 18:45           4-Chlorotoluene         ND         0.50         1         10/02/2015 18:45           Dibromochloromethane         ND         0.50         1         10/02/2015 18:45           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/02/2015 18:45           1,2-Dibromo-shane (EDB)         ND         0.50         1         10/02/2015 18:45           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           1,4-Dichloroethane         ND         0.50         1 <t< td=""><td>Carbon Disulfide</td><td>ND</td><td></td><td>0.50</td><td>1</td><td></td><td>10/02/2015 18:45</td></t<>	Carbon Disulfide	ND		0.50	1		10/02/2015 18:45
Chloroethane         ND         0.50         1         10/02/2015 18:45           Chloroform         ND         0.50         1         10/02/2015 18:45           Chloromethane         ND         0.50         1         10/02/2015 18:45           2-Chlorotoluene         ND         0.50         1         10/02/2015 18:45           4-Chlorotoluene         ND         0.50         1         10/02/2015 18:45           Dibromochloromethane         ND         0.50         1         10/02/2015 18:45           Dibromochloromethane         ND         0.50         1         10/02/2015 18:45           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/02/2015 18:45           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 18:45           Dibromomethane         ND         0.50         1         10/02/2015 18:45           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           1,4-Dichloroethane         ND         0.50         1         10/02/2015 18:45           1,1-Dichloroethane         ND         0.50         1 <td>Carbon Tetrachloride</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td></td> <td>10/02/2015 18:45</td>	Carbon Tetrachloride	ND		0.50	1		10/02/2015 18:45
Chloroform         ND         0.50         1         10/02/2015 18:45           Chloromethane         ND         0.50         1         10/02/2015 18:45           2-Chlorotoluene         ND         0.50         1         10/02/2015 18:45           4-Chlorotoluene         ND         0.50         1         10/02/2015 18:45           Dibromochloromethane         ND         0.50         1         10/02/2015 18:45           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/02/2015 18:45           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 18:45           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 18:45           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           1,1-Dichlorodifluoromethane         ND         0.50         1         10/02/2015 18:45           1,2-Dichlorotethane         ND         0.50         1         10/02/2015 18:45           1,1-Dichlorotethane         ND         0	Chlorobenzene	ND		0.50	1		10/02/2015 18:45
Chloromethane         ND         0.50         1         10/02/2015 18:45           2-Chlorotoluene         ND         0.50         1         10/02/2015 18:45           4-Chlorotoluene         ND         0.50         1         10/02/2015 18:45           Dibromochloromethane         ND         0.50         1         10/02/2015 18:45           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/02/2015 18:45           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 18:45           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 18:45           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           1,1-Dichloroethane         ND         0.50         1         10/02/2015 18:45           1,1-Dichloroethane         ND         0.50         1         10/02/2015 18:45           1,1-Dichloroethane         ND         0.50         1         10/02/2015 18:45           1,1-Dichloroethene         ND         0.50	Chloroethane	ND		0.50	1		10/02/2015 18:45
2-Chlorotoluene         ND         0.50         1         10/02/2015 18:45           4-Chlorotoluene         ND         0.50         1         10/02/2015 18:45           Dibromochloromethane         ND         0.50         1         10/02/2015 18:45           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/02/2015 18:45           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 18:45           1,2-Dibrlomoethane         ND         0.50         1         10/02/2015 18:45           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           1,1-Dichloroethane         ND         0.50         1         10/02/2015 18:45           1,1-Dichloroethene         ND         0.50	Chloroform	ND		0.50	1		10/02/2015 18:45
4-Chlorotoluene         ND         0.50         1         10/02/2015 18:45           Dibromochloromethane         ND         0.50         1         10/02/2015 18:45           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/02/2015 18:45           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 18:45           Dibromomethane         ND         0.50         1         10/02/2015 18:45           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           1,4-Dichloroethane         ND         0.50         1         10/02/2015 18:45           1,1-Dichloroethane         ND         0.50         1         10/02/2015 18:45           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 18:45           1,1-Dichloroethene         ND         0.50         1         10/02/2015 18:45           1,2-Dichloroethene         ND         0.50         1         10/02/2015 18:45           trans-1,2-Dichloroethene         ND	Chloromethane	ND		0.50	1		10/02/2015 18:45
Dibromochloromethane         ND         0.50         1         10/02/2015 18:45           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/02/2015 18:45           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 18:45           Dibromomethane         ND         0.50         1         10/02/2015 18:45           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           1,1-Dichloroethane         ND         0.50         1         10/02/2015 18:45           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 18:45           1,1-Dichloroethene         ND         0.50         1         10/02/2015 18:45           1,1-Dichloroethene         ND         0.50         1         10/02/2015 18:45           1,2-Dichloroethene         ND         0.50         1         10/02/2015 18:45           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 18:45           1,2-Dichloropropane         ND <td>2-Chlorotoluene</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td></td> <td>10/02/2015 18:45</td>	2-Chlorotoluene	ND		0.50	1		10/02/2015 18:45
1,2-Dibromo-3-chloropropane         ND         0.20         1         10/02/2015 18:45           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 18:45           Dibromomethane         ND         0.50         1         10/02/2015 18:45           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           1,4-Dichlorodifluoromethane         ND         0.50         1         10/02/2015 18:45           1,1-Dichloroethane         ND         0.50         1         10/02/2015 18:45           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 18:45           1,1-Dichloroethene         ND         0.50         1         10/02/2015 18:45           1,2-Dichloroethene         ND         0.50         1         10/02/2015 18:45           1,2-Dichloroethene         ND         0.50         1         10/02/2015 18:45           1,2-Dichloropropane         ND         0.50         1         10/02/2015 18:45           1,3-Dichloropropane         ND<	4-Chlorotoluene	ND		0.50	1		10/02/2015 18:45
1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 18:45           Dibromomethane         ND         0.50         1         10/02/2015 18:45           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           Dichlorodifluoromethane         ND         0.50         1         10/02/2015 18:45           1,1-Dichloroethane         ND         0.50         1         10/02/2015 18:45           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 18:45           1,1-Dichloroethene         ND         0.50         1         10/02/2015 18:45           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 18:45           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 18:45           1,2-Dichloropropane         ND         0.50         1         10/02/2015 18:45           1,3-Dichloropropane         ND         0.50         1         10/02/2015 18:45	Dibromochloromethane	ND		0.50	1		10/02/2015 18:45
Dibromomethane         ND         0.50         1         10/02/2015 18:45           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           Dichlorodifluoromethane         ND         0.50         1         10/02/2015 18:45           1,1-Dichloroethane         ND         0.50         1         10/02/2015 18:45           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 18:45           1,1-Dichloroethene         ND         0.50         1         10/02/2015 18:45           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 18:45           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 18:45           1,2-Dichloropropane         ND         0.50         1         10/02/2015 18:45           1,3-Dichloropropane         ND         0.50         1         10/02/2015 18:45	1,2-Dibromo-3-chloropropane	ND		0.20	1		10/02/2015 18:45
1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 18:45           Dichlorodifluoromethane         ND         0.50         1         10/02/2015 18:45           1,1-Dichloroethane         ND         0.50         1         10/02/2015 18:45           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 18:45           1,1-Dichloroethene         ND         0.50         1         10/02/2015 18:45           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 18:45           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 18:45           1,2-Dichloropropane         ND         0.50         1         10/02/2015 18:45           1,3-Dichloropropane         ND         0.50         1         10/02/2015 18:45	1,2-Dibromoethane (EDB)	ND		0.50	1		10/02/2015 18:45
1,3-Dichlorobenzene       ND       0.50       1       10/02/2015 18:45         1,4-Dichlorobenzene       ND       0.50       1       10/02/2015 18:45         Dichlorodifluoromethane       ND       0.50       1       10/02/2015 18:45         1,1-Dichloroethane       ND       0.50       1       10/02/2015 18:45         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/02/2015 18:45         1,1-Dichloroethene       ND       0.50       1       10/02/2015 18:45         cis-1,2-Dichloroethene       ND       0.50       1       10/02/2015 18:45         trans-1,2-Dichloroethene       ND       0.50       1       10/02/2015 18:45         1,2-Dichloropropane       ND       0.50       1       10/02/2015 18:45         1,3-Dichloropropane       ND       0.50       1       10/02/2015 18:45	Dibromomethane	ND		0.50	1		10/02/2015 18:45
1,4-Dichlorobenzene       ND       0.50       1       10/02/2015 18:45         Dichlorodifluoromethane       ND       0.50       1       10/02/2015 18:45         1,1-Dichloroethane       ND       0.50       1       10/02/2015 18:45         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/02/2015 18:45         1,1-Dichloroethene       ND       0.50       1       10/02/2015 18:45         cis-1,2-Dichloroethene       ND       0.50       1       10/02/2015 18:45         trans-1,2-Dichloroethene       ND       0.50       1       10/02/2015 18:45         1,2-Dichloropropane       ND       0.50       1       10/02/2015 18:45         1,3-Dichloropropane       ND       0.50       1       10/02/2015 18:45	1,2-Dichlorobenzene	ND		0.50	1		10/02/2015 18:45
Dichlorodifluoromethane         ND         0.50         1         10/02/2015 18:45           1,1-Dichloroethane         ND         0.50         1         10/02/2015 18:45           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 18:45           1,1-Dichloroethene         ND         0.50         1         10/02/2015 18:45           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 18:45           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 18:45           1,2-Dichloropropane         ND         0.50         1         10/02/2015 18:45           1,3-Dichloropropane         ND         0.50         1         10/02/2015 18:45	1,3-Dichlorobenzene	ND		0.50	1		10/02/2015 18:45
1,1-Dichloroethane       ND       0.50       1       10/02/2015 18:45         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/02/2015 18:45         1,1-Dichloroethene       ND       0.50       1       10/02/2015 18:45         cis-1,2-Dichloroethene       ND       0.50       1       10/02/2015 18:45         trans-1,2-Dichloroethene       ND       0.50       1       10/02/2015 18:45         1,2-Dichloropropane       ND       0.50       1       10/02/2015 18:45         1,3-Dichloropropane       ND       0.50       1       10/02/2015 18:45	1,4-Dichlorobenzene	ND		0.50	1		10/02/2015 18:45
1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/02/2015 18:45         1,1-Dichloroethene       ND       0.50       1       10/02/2015 18:45         cis-1,2-Dichloroethene       ND       0.50       1       10/02/2015 18:45         trans-1,2-Dichloroethene       ND       0.50       1       10/02/2015 18:45         1,2-Dichloropropane       ND       0.50       1       10/02/2015 18:45         1,3-Dichloropropane       ND       0.50       1       10/02/2015 18:45	Dichlorodifluoromethane	ND		0.50	1		10/02/2015 18:45
1,1-Dichloroethene         ND         0.50         1         10/02/2015 18:45           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 18:45           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 18:45           1,2-Dichloropropane         ND         0.50         1         10/02/2015 18:45           1,3-Dichloropropane         ND         0.50         1         10/02/2015 18:45	1,1-Dichloroethane	ND		0.50	1		10/02/2015 18:45
cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 18:45           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 18:45           1,2-Dichloropropane         ND         0.50         1         10/02/2015 18:45           1,3-Dichloropropane         ND         0.50         1         10/02/2015 18:45	1,2-Dichloroethane (1,2-DCA)	ND		0.50	1		10/02/2015 18:45
trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 18:45           1,2-Dichloropropane         ND         0.50         1         10/02/2015 18:45           1,3-Dichloropropane         ND         0.50         1         10/02/2015 18:45	1,1-Dichloroethene	ND		0.50	1		10/02/2015 18:45
1,2-Dichloropropane         ND         0.50         1         10/02/2015 18:45           1,3-Dichloropropane         ND         0.50         1         10/02/2015 18:45	cis-1,2-Dichloroethene	ND		0.50	1		10/02/2015 18:45
1,3-Dichloropropane         ND         0.50         1         10/02/2015 18:45	trans-1,2-Dichloroethene	ND		0.50	1		10/02/2015 18:45
	1,2-Dichloropropane	ND		0.50	1		10/02/2015 18:45
2,2-Dichloropropane ND 0.50 1 10/02/2015 18:45	1,3-Dichloropropane	ND		0.50	1		10/02/2015 18:45
	2,2-Dichloropropane	ND		0.50	1		10/02/2015 18:45

(Cont.)



# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30 **Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
W-ECB13	1509A62-003B	Water	09/24/20	015 17:13 GC10	111091
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
1,1-Dichloropropene	ND		0.50	1	10/02/2015 18:45
cis-1,3-Dichloropropene	ND		0.50	1	10/02/2015 18:45
trans-1,3-Dichloropropene	ND		0.50	1	10/02/2015 18:45
Diisopropyl ether (DIPE)	ND		0.50	1	10/02/2015 18:45
Ethylbenzene	ND		0.50	1	10/02/2015 18:45
Ethyl tert-butyl ether (ETBE)	ND		0.50	1	10/02/2015 18:45
Freon 113	ND		0.50	1	10/02/2015 18:45
Hexachlorobutadiene	ND		0.50	1	10/02/2015 18:45
Hexachloroethane	ND		0.50	1	10/02/2015 18:45
2-Hexanone	ND		0.50	1	10/02/2015 18:45
Isopropylbenzene	ND		0.50	1	10/02/2015 18:45
4-Isopropyl toluene	ND		0.50	1	10/02/2015 18:45
Methyl-t-butyl ether (MTBE)	ND		0.50	1	10/02/2015 18:45
Methylene chloride	ND		0.50	1	10/02/2015 18:45
4-Methyl-2-pentanone (MIBK)	ND		0.50	1	10/02/2015 18:45
Naphthalene	ND		0.50	1	10/02/2015 18:45
n-Propyl benzene	ND		0.50	1	10/02/2015 18:45
Styrene	ND		0.50	1	10/02/2015 18:45
1,1,1,2-Tetrachloroethane	ND		0.50	1	10/02/2015 18:45
1,1,2,2-Tetrachloroethane	ND		0.50	1	10/02/2015 18:45
Tetrachloroethene	ND		0.50	1	10/02/2015 18:45
Toluene	ND		0.50	1	10/02/2015 18:45
1,2,3-Trichlorobenzene	ND		0.50	1	10/02/2015 18:45
1,2,4-Trichlorobenzene	ND		0.50	1	10/02/2015 18:45
1,1,1-Trichloroethane	ND		0.50	1	10/02/2015 18:45
1,1,2-Trichloroethane	ND		0.50	1	10/02/2015 18:45
Trichloroethene	ND		0.50	1	10/02/2015 18:45
Trichlorofluoromethane	ND		0.50	1	10/02/2015 18:45
1,2,3-Trichloropropane	ND		0.50	1	10/02/2015 18:45
1,2,4-Trimethylbenzene	ND		0.50	1	10/02/2015 18:45
1,3,5-Trimethylbenzene	ND		0.50	1	10/02/2015 18:45
Vinyl Chloride	ND		0.50	1	10/02/2015 18:45
Xylenes, Total	ND		0.50	1	10/02/2015 18:45

# **Analytical Report**

Client: Essel Environmental Consulting

Date Received: 9/25/15 19:30

**Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC

**WorkOrder:** 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

**Unit:** μg/L

Client ID	Lab ID Ma	ntrix Date Collected Instrument	Batch ID
W-ECB13	1509A62-003B Wa	ter 09/24/2015 17:13 GC10	111091
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
Dibromofluoromethane	92	70-130	10/02/2015 18:45
Toluene-d8	84	70-130	10/02/2015 18:45
4-BFB	103	70-130	10/02/2015 18:45



# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 10/1/15-10/3/15 **Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

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

tert-Amyl methyl ether (TAME)         ND         0.50         1         10/02/2015 19:26           Benzane         ND         0.50         1         10/02/2015 19:26           Bromobenzene         ND         0.50         1         10/02/2015 19:26           Bromochloromethane         ND         0.50         1         10/02/2015 19:26           Bromodichloromethane         ND         0.50         1         10/02/2015 19:26           Bromomethane         ND         0.50         1         10/02/2015 19:26           Browl benzene         ND         0.50         1         10/02/2015 19:26           Browl benzene         ND         0.50         1         10/02/20	Client ID	Lab ID	Matrix	Date C	ollected Instrumen	t Batch ID
Acetone	W-ECB14	1509A62-004B	Water	09/24/20	015 17:01 GC10	111091
tert-Amyl methyl ether (TAME)         ND         0.50         1         10/02/2015 19:26           Benzene         ND         0.50         1         10/02/2015 19:26           Bromobenzene         ND         0.50         1         10/02/2015 19:26           Bromochloromethane         ND         0.50         1         10/02/2015 19:26           Bromodichloromethane         ND         0.50         1         10/02/2015 19:26           Browl Jack         ND         0.50         1         10/02/2015 19:26           Lett-Butyl Jenzene         ND         0.50	<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Benzene	Acetone	ND		10	1	10/02/2015 19:26
Bromobenzene         ND         0.50         1         10/02/2015 19:26           Bromochloromethane         ND         0.50         1         10/02/2015 19:26           Bromodlohromethane         ND         0.50         1         10/02/2015 19:26           Bromoform         ND         0.50         1         10/02/2015 19:26           Bromomethane         ND         0.50         1         10/02/2015 19:26           2-Butanone (MEK)         ND         2.0         1         10/02/2015 19:26           2-Butyl alcohol (TBA)         ND         2.0         1         10/02/2015 19:26           2-Butyl benzene         ND         0.50         1         10/02/2015 19:26           sec-Butyl benzene         ND         0.50         1         10/02/2015 19:26           sec-Butyl benzene         ND         0.50         1         10/02/2015 19:26           sec-Butyl benzene         ND         0.50         1         10/02/2015 19:26           Carbon Tertachloride         ND         0.50         1         10/02/2015 19:26           Carbon Tetrachloride         ND         0.50         1         10/02/2015 19:26           Chlorochane         ND         0.50         1         10/02/2	tert-Amyl methyl ether (TAME)	ND		0.50	1	10/02/2015 19:26
Bromochloromethane         ND         0.50         1         10/02/2015 19:26           Bromodichloromethane         ND         0.50         1         10/02/2015 19:26           Bromoform         ND         0.50         1         10/02/2015 19:26           Bromomethane         ND         0.50         1         10/02/2015 19:26           2-Butanone (MEK)         ND         2.0         1         10/02/2015 19:26           2-Butyl alcohol (TBA)         ND         2.0         1         10/02/2015 19:26           n-Butyl benzene         ND         0.50         1         10/02/2015 19:26           sec-Butyl benzene         ND         0.50         1         10/02/2015 19:26           Carbon Disulide         ND         0.50         1         10/02/2015 19:26           Carbon Tetrachloride         ND         0.50         1         10/02/2015 19:26           Chlorotehane         ND         0.50         1         10/0	Benzene	ND		0.50	1	10/02/2015 19:26
Bromodichloromethane         ND         0.50         1         10/02/2015 19:26           Bromoform         ND         0.50         1         10/02/2015 19:26           Bromomethane         ND         0.50         1         10/02/2015 19:26           Bromomethane         ND         0.50         1         10/02/2015 19:26           t-Butyl alcohol (TBA)         ND         2.0         1         10/02/2015 19:26           t-Butyl benzene         ND         0.50         1         10/02/2015 19:26           sce-Butyl benzene         ND         0.50         1         10/02/2015 19:26           ser-Butyl benzene         ND         0.50         1         10/02/2015 19:26           ser-Butyl benzene         ND         0.50         1         10/02/2015 19:26           dert-Butyl benzene         ND         0.50         1         10/02/2015 19:26           Carbon Disulfide         ND         0.50         1         10/02/2015 19:26           Carbon Disulfide         ND         0.50         1         10/02/2015 19:26           Carbon Tetrachloride         ND         0.50         1         10/02/2015 19:26           Chlororethane         ND         0.50         1         10/02/	Bromobenzene	ND		0.50	1	10/02/2015 19:26
Bromoform         ND         0.50         1         10/02/2015 19:26           Brommethane         ND         0.50         1         10/02/2015 19:26           2-Butanone (MEK)         ND         2.0         1         10/02/2015 19:26           E-Butyl cohol (TEA)         ND         2.0         1         10/02/2015 19:26           n-Butyl benzene         ND         0.50         1         10/02/2015 19:26           sec-Butyl benzene         ND         0.50         1         10/02/2015 19:26           carbon Disulfide         ND         0.50         1         10/02/2015 19:26           Carbon Disulfide         ND         0.50         1         10/02/2015 19:26           Carbon Tetrachloride         ND         0.50         1         10/02/2015 19:26           Chlorobenzene         ND         0.50         1         10/02/2015 19:26           Chlorothane         ND         0.50         1         10/02/2015 19:26           Chloromethane         ND         0.50         1         10/02/2015 19:26           Chloromethane         ND         0.50         1         10/02/2015 19:26           Chlorotoluene         ND         0.50         1         10/02/2015 19:26 </td <td>Bromochloromethane</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td>10/02/2015 19:26</td>	Bromochloromethane	ND		0.50	1	10/02/2015 19:26
Bromomethane	Bromodichloromethane	ND		0.50	1	10/02/2015 19:26
2-Butanone (MEK)         ND         2.0         1         10/02/2015 19:26           t-Butyl alcohol (TBA)         ND         2.0         1         10/02/2015 19:26           n-Butyl benzene         ND         0.50         1         10/02/2015 19:26           sec-Butyl benzene         ND         0.50         1         10/02/2015 19:26           tert-Butyl benzene         ND         0.50         1         10/02/2015 19:26           Carbon Disulfide         ND         0.50         1         10/02/2015 19:26           Carbon Disulfide         ND         0.50         1         10/02/2015 19:26           Carbon Tetrachloride         ND         0.50         1         10/02/2015 19:26           Chlorostenee         ND         0.50         1         10/02/2015 19:26           Chlorostenee         ND         0.50         1         10/02/2015 19:26           Chloromethane         ND         0.50         1         10/02/2015 19:26           Chlorostenee         ND         0.50         1         10/02/2015 19:26           Chlorostelane         ND         0.50         1         10/02/2015 19:26           Chlorostelane         ND         0.50         1         10/02/2015 19:26	Bromoform	ND		0.50	1	10/02/2015 19:26
t-Butyl alcohol (TBA) ND 2.0 1 10/02/2015 19:26 sec-Butyl benzene ND 0.50 1 10/02/2015 19:26 sec-Butyl benzene ND 0.50 1 10/02/2015 19:26 Carbon Disulfide ND 0.50 1 10/02/2015 19:26 Carbon Tetrachloride ND 0.50 1 10/02/2015 19:26 Chlorobenzene ND 0.50 1 10/02/2015 19:26 Chlorobenzene ND 0.50 1 10/02/2015 19:26 Chlorobenzene ND 0.50 1 10/02/2015 19:26 Chlorotethane ND 0.50 1 10/02/2015 19:26 Chlorotoluene ND 0.50 1 10/02/2015 19:26 Chl	Bromomethane	ND		0.50	1	10/02/2015 19:26
n-Butyl benzene         ND         0.50         1         10/02/2015 19:26           sec-Butyl benzene         ND         0.50         1         10/02/2015 19:26           tert-Butyl benzene         ND         0.50         1         10/02/2015 19:26           Carbon Disulfide         ND         0.50         1         10/02/2015 19:26           Carbon Tetrachloride         ND         0.50         1         10/02/2015 19:26           Chiorobenzene         ND         0.50         1         10/02/2015 19:26           Chiorobethane         ND         0.50         1         10/02/2015 19:26           Chioroform         ND         0.50         1         10/02/2015 19:26           Chioroform         ND         0.50         1         10/02/2015 19:26           Chioroformethane         ND         0.50         1         10/02/2015 19:26           Chlorotoluene         ND         0.50         1         10/02/2015 19:26           4-Chlorotoluene         ND         0.50         1         10/02/2015 19:26           4-Chlorotoluene         ND         0.50         1         10/02/2015 19:26           1,2-Dibromo-Shoropropane         ND         0.50         1         10/02/2015 19	2-Butanone (MEK)	ND		2.0	1	10/02/2015 19:26
sec-Butyl benzene         ND         0.50         1         10/02/2015 19:26           tert-Butyl benzene         ND         0.50         1         10/02/2015 19:26           Carbon Disulfide         ND         0.50         1         10/02/2015 19:26           Carbon Tetrachloride         ND         0.50         1         10/02/2015 19:26           Chlorobenzene         ND         0.50         1         10/02/2015 19:26           Chloroethane         ND         0.50         1         10/02/2015 19:26           Chloroform         ND         0.50         1         10/02/2015 19:26           Chloromethane         ND         0.50         1         10/02/2015 19:26           C-Chlorotoluene         ND         0.50         1         10/02/2015 19:26           2-Chlorotoluene         ND         0.50         1         10/02/2015 19:26           4-Chlorotoluene         ND         0.50         1         10/02/2015 19:26           Dibromochloromethane         ND         0.50         1         10/02/2015 19:26           Dibromochloromethane         ND         0.50         1         10/02/2015 19:26           1,2-Dibromochlaromethane         ND         0.50         1	t-Butyl alcohol (TBA)	ND		2.0	1	10/02/2015 19:26
tert-Buly benzene         ND         0.50         1         10/02/2015 19:26           Carbon Disulfide         ND         0.50         1         10/02/2015 19:26           Carbon Tetrachloride         ND         0.50         1         10/02/2015 19:26           Chlorobenzene         ND         0.50         1         10/02/2015 19:26           Chlorotethane         ND         0.50         1         10/02/2015 19:26           Chloroform         ND         0.50         1         10/02/2015 19:26           Chloroform         ND         0.50         1         10/02/2015 19:26           Chlorotoluene         ND         0.50         1         10/02/2015 19:26           2-Chlorotoluene         ND         0.50         1         10/02/2015 19:26           2-Chlorotoluene         ND         0.50         1         10/02/2015 19:26           2-Chloromoethane         ND         0.50         1         10/02/2015 19:26           Dibromoethoromethane         ND         0.50         1         10/02/2015 19:26           1,2-Dibromoe-3-chloropropane         ND         0.50         1         10/02/2015 19:26           1,2-Dibromoethane (EDB)         ND         0.50         1 <td< td=""><td>n-Butyl benzene</td><td>ND</td><td></td><td>0.50</td><td>1</td><td>10/02/2015 19:26</td></td<>	n-Butyl benzene	ND		0.50	1	10/02/2015 19:26
Carbon Disulfide         ND         0.50         1         10/02/2015 19:26           Carbon Tetrachloride         ND         0.50         1         10/02/2015 19:26           Chlorobenzene         ND         0.50         1         10/02/2015 19:26           Chloroethane         ND         0.50         1         10/02/2015 19:26           Chloroform         ND         0.50         1         10/02/2015 19:26           Chloromethane         ND         0.50         1         10/02/2015 19:26           2-Chlorotoluene         ND         0.50         1         10/02/2015 19:26           4-Chlorotoluene         ND         0.50         1         10/02/2015 19:26           1,2-Dibromoethane         ND         0.50         1         10/02/2015 19:26           1,2-Dibromoethane         ND         0.50         1         10/02/2015 19:26 <td>sec-Butyl benzene</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td>10/02/2015 19:26</td>	sec-Butyl benzene	ND		0.50	1	10/02/2015 19:26
Carbon Tetrachloride         ND         0.50         1         10/02/2015 19:26           Chlorobenzene         ND         0.50         1         10/02/2015 19:26           Chloroethane         ND         0.50         1         10/02/2015 19:26           Chloroform         ND         0.50         1         10/02/2015 19:26           Chloromethane         ND         0.50         1         10/02/2015 19:26           C-Chlorotoluene         ND         0.50         1         10/02/2015 19:26           4-Chlorotoluene         ND         0.50         1         10/02/2015 19:26           4-Chlorotoluene         ND         0.50         1         10/02/2015 19:26           Dibromochloromethane         ND         0.50         1         10/02/2015 19:26           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/02/2015 19:26           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 19:26           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           1,4-Dichlorobenzene         ND         0.50         1	tert-Butyl benzene	ND		0.50	1	10/02/2015 19:26
Chlorobenzene         ND         0.50         1         10/02/2015 19:26           Chloroethane         ND         0.50         1         10/02/2015 19:26           Chloroform         ND         0.50         1         10/02/2015 19:26           Chloromethane         ND         0.50         1         10/02/2015 19:26           2-Chlorotoluene         ND         0.50         1         10/02/2015 19:26           4-Chlorotoluene         ND         0.50         1         10/02/2015 19:26           4-Chlorotoluene         ND         0.50         1         10/02/2015 19:26           Dibromochloromethane         ND         0.50         1         10/02/2015 19:26           Dibromochloromethane         ND         0.50         1         10/02/2015 19:26           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/02/2015 19:26           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 19:26           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 19:26           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           1,3-Dichlorobenzene         ND         0.50         1 </td <td>Carbon Disulfide</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td>10/02/2015 19:26</td>	Carbon Disulfide	ND		0.50	1	10/02/2015 19:26
Chloroethane         ND         0.50         1         10/02/2015 19:26           Chloroform         ND         0.50         1         10/02/2015 19:26           Chloromethane         ND         0.50         1         10/02/2015 19:26           2-Chlorotoluene         ND         0.50         1         10/02/2015 19:26           4-Chlorotoluene         ND         0.50         1         10/02/2015 19:26           4-Chlorotoluene         ND         0.50         1         10/02/2015 19:26           Dibromochloromethane         ND         0.50         1         10/02/2015 19:26           Dibromochloromethane         ND         0.50         1         10/02/2015 19:26           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/02/2015 19:26           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 19:26           Dibromomethane (EDB)         ND         0.50         1         10/02/2015 19:26           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           1,1-Dichloroethane         ND         0.50         1	Carbon Tetrachloride	ND		0.50	1	10/02/2015 19:26
Chloroform         ND         0.50         1         10/02/2015 19:26           Chloromethane         ND         0.50         1         10/02/2015 19:26           2-Chlorotoluene         ND         0.50         1         10/02/2015 19:26           4-Chlorotoluene         ND         0.50         1         10/02/2015 19:26           4-Chlorotoluene         ND         0.50         1         10/02/2015 19:26           Dibromochloromethane         ND         0.50         1         10/02/2015 19:26           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/02/2015 19:26           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 19:26           Dibromomethane         ND         0.50         1         10/02/2015 19:26           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           1,1-Dichlorodifluoromethane         ND         0.50         1         10/02/2015 19:26           1,2-Dichlorodethane         ND         0.50	Chlorobenzene	ND		0.50	1	10/02/2015 19:26
Chloromethane         ND         0.50         1         10/02/2015 19:26           2-Chlorotoluene         ND         0.50         1         10/02/2015 19:26           4-Chlorotoluene         ND         0.50         1         10/02/2015 19:26           4-Chlorotoluene         ND         0.50         1         10/02/2015 19:26           Dibromochloromethane         ND         0.50         1         10/02/2015 19:26           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 19:26           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 19:26           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           1,1-Dichloroethane         ND         0.50         1         10/02/2015 19:26           1,1-Dichloroethane         ND         0.50         1         10/02/2015 19:26           1,1-Dichloroethane         ND         0.50         1         10/02/2015 19:26           cis-1,2-Dichloroethene         ND         0.50	Chloroethane	ND		0.50	1	10/02/2015 19:26
2-Chlorotoluene         ND         0.50         1         10/02/2015 19:26           4-Chlorotoluene         ND         0.50         1         10/02/2015 19:26           Dibromochloromethane         ND         0.50         1         10/02/2015 19:26           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/02/2015 19:26           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 19:26           1,2-Dibromoethane         ND         0.50         1         10/02/2015 19:26           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           1,1-Dichloroethane         ND         0.50         1         10/02/2015 19:26           1,1-Dichloroethane         ND         0.50         1         10/02/2015 19:26           1,1-Dichloroethane         ND         0.50         1         10/02/2015 19:26           1,1-Dichloroethene         ND         0.50	Chloroform	ND		0.50	1	10/02/2015 19:26
4-Chlorotoluene         ND         0.50         1         10/02/2015 19:26           Dibromochloromethane         ND         0.50         1         10/02/2015 19:26           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/02/2015 19:26           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 19:26           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 19:26           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           1,1-Dichloroethane         ND         0.50         1         10/02/2015 19:26           1,1-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 19:26           1,1-Dichloroethene         ND         0.50         1         10/02/2015 19:26           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 19:26           trans-1,2-Dichloroethene	Chloromethane	ND		0.50	1	10/02/2015 19:26
Dibromochloromethane         ND         0.50         1         10/02/2015 19:26           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/02/2015 19:26           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 19:26           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           1,1-Dichloroethane         ND         0.50         1         10/02/2015 19:26           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 19:26           1,1-Dichloroethene         ND         0.50         1         10/02/2015 19:26           1,1-Dichloroethene         ND         0.50         1         10/02/2015 19:26           1,2-Dichloroethene         ND         0.50         1         10/02/2015 19:26           1,2-Dichloroethene         ND         0.50         1         10/02/2015 19:26           1,2-Dichloroptopane         ND <td>2-Chlorotoluene</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td>10/02/2015 19:26</td>	2-Chlorotoluene	ND		0.50	1	10/02/2015 19:26
1,2-Dibromo-3-chloropropane         ND         0.20         1         10/02/2015 19:26           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 19:26           Dibromomethane         ND         0.50         1         10/02/2015 19:26           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           Dichlorodifluoromethane         ND         0.50         1         10/02/2015 19:26           1,1-Dichloroethane         ND         0.50         1         10/02/2015 19:26           1,2-Dichloroethane         ND         0.50         1         10/02/2015 19:26           1,1-Dichloroethene         ND         0.50         1         10/02/2015 19:26           1cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 19:26           1,2-Dichloropropane         ND         0.50         1         10/02/2015 19:26           1,3-Dichloropropane         ND	4-Chlorotoluene	ND		0.50	1	10/02/2015 19:26
1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 19:26           Dibromomethane         ND         0.50         1         10/02/2015 19:26           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           Dichlorodifluoromethane         ND         0.50         1         10/02/2015 19:26           1,1-Dichloroethane         ND         0.50         1         10/02/2015 19:26           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 19:26           1,1-Dichloroethene         ND         0.50         1         10/02/2015 19:26           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 19:26           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 19:26           1,2-Dichloropropane         ND         0.50         1         10/02/2015 19:26           1,3-Dichloropropane         ND         0.50         1         10/02/2015 19:26	Dibromochloromethane	ND		0.50	1	10/02/2015 19:26
Dibromomethane         ND         0.50         1         10/02/2015 19:26           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 19:26           Dichlorodifluoromethane         ND         0.50         1         10/02/2015 19:26           1,1-Dichloroethane         ND         0.50         1         10/02/2015 19:26           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 19:26           1,1-Dichloroethene         ND         0.50         1         10/02/2015 19:26           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 19:26           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 19:26           1,2-Dichloropropane         ND         0.50         1         10/02/2015 19:26           1,3-Dichloropropane         ND         0.50         1         10/02/2015 19:26	1,2-Dibromo-3-chloropropane	ND		0.20	1	10/02/2015 19:26
1,2-Dichlorobenzene       ND       0.50       1       10/02/2015 19:26         1,3-Dichlorobenzene       ND       0.50       1       10/02/2015 19:26         1,4-Dichlorobenzene       ND       0.50       1       10/02/2015 19:26         Dichlorodifluoromethane       ND       0.50       1       10/02/2015 19:26         1,1-Dichloroethane       ND       0.50       1       10/02/2015 19:26         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/02/2015 19:26         1,1-Dichloroethene       ND       0.50       1       10/02/2015 19:26         cis-1,2-Dichloroethene       ND       0.50       1       10/02/2015 19:26         trans-1,2-Dichloroethene       ND       0.50       1       10/02/2015 19:26         1,2-Dichloropropane       ND       0.50       1       10/02/2015 19:26         1,3-Dichloropropane       ND       0.50       1       10/02/2015 19:26	1,2-Dibromoethane (EDB)	ND		0.50	1	10/02/2015 19:26
1,3-Dichlorobenzene       ND       0.50       1       10/02/2015 19:26         1,4-Dichlorobenzene       ND       0.50       1       10/02/2015 19:26         Dichlorodifluoromethane       ND       0.50       1       10/02/2015 19:26         1,1-Dichloroethane       ND       0.50       1       10/02/2015 19:26         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/02/2015 19:26         1,1-Dichloroethene       ND       0.50       1       10/02/2015 19:26         cis-1,2-Dichloroethene       ND       0.50       1       10/02/2015 19:26         trans-1,2-Dichloroethene       ND       0.50       1       10/02/2015 19:26         1,2-Dichloropropane       ND       0.50       1       10/02/2015 19:26         1,3-Dichloropropane       ND       0.50       1       10/02/2015 19:26	Dibromomethane	ND		0.50	1	10/02/2015 19:26
1,4-Dichlorobenzene       ND       0.50       1       10/02/2015 19:26         Dichlorodifluoromethane       ND       0.50       1       10/02/2015 19:26         1,1-Dichloroethane       ND       0.50       1       10/02/2015 19:26         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/02/2015 19:26         1,1-Dichloroethene       ND       0.50       1       10/02/2015 19:26         cis-1,2-Dichloroethene       ND       0.50       1       10/02/2015 19:26         trans-1,2-Dichloroethene       ND       0.50       1       10/02/2015 19:26         1,2-Dichloropropane       ND       0.50       1       10/02/2015 19:26         1,3-Dichloropropane       ND       0.50       1       10/02/2015 19:26	1,2-Dichlorobenzene	ND		0.50	1	10/02/2015 19:26
Dichlorodifluoromethane         ND         0.50         1         10/02/2015 19:26           1,1-Dichloroethane         ND         0.50         1         10/02/2015 19:26           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 19:26           1,1-Dichloroethene         ND         0.50         1         10/02/2015 19:26           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 19:26           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 19:26           1,2-Dichloropropane         ND         0.50         1         10/02/2015 19:26           1,3-Dichloropropane         ND         0.50         1         10/02/2015 19:26	1,3-Dichlorobenzene	ND		0.50	1	10/02/2015 19:26
1,1-Dichloroethane       ND       0.50       1       10/02/2015 19:26         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/02/2015 19:26         1,1-Dichloroethene       ND       0.50       1       10/02/2015 19:26         cis-1,2-Dichloroethene       ND       0.50       1       10/02/2015 19:26         trans-1,2-Dichloroethene       ND       0.50       1       10/02/2015 19:26         1,2-Dichloropropane       ND       0.50       1       10/02/2015 19:26         1,3-Dichloropropane       ND       0.50       1       10/02/2015 19:26	1,4-Dichlorobenzene	ND		0.50	1	10/02/2015 19:26
1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/02/2015 19:26         1,1-Dichloroethene       ND       0.50       1       10/02/2015 19:26         cis-1,2-Dichloroethene       ND       0.50       1       10/02/2015 19:26         trans-1,2-Dichloroethene       ND       0.50       1       10/02/2015 19:26         1,2-Dichloropropane       ND       0.50       1       10/02/2015 19:26         1,3-Dichloropropane       ND       0.50       1       10/02/2015 19:26	Dichlorodifluoromethane	ND		0.50	1	10/02/2015 19:26
1,1-Dichloroethene         ND         0.50         1         10/02/2015 19:26           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 19:26           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 19:26           1,2-Dichloropropane         ND         0.50         1         10/02/2015 19:26           1,3-Dichloropropane         ND         0.50         1         10/02/2015 19:26	1,1-Dichloroethane	ND		0.50	1	10/02/2015 19:26
cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 19:26           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 19:26           1,2-Dichloropropane         ND         0.50         1         10/02/2015 19:26           1,3-Dichloropropane         ND         0.50         1         10/02/2015 19:26	1,2-Dichloroethane (1,2-DCA)	ND		0.50	1	10/02/2015 19:26
trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 19:26           1,2-Dichloropropane         ND         0.50         1         10/02/2015 19:26           1,3-Dichloropropane         ND         0.50         1         10/02/2015 19:26	1,1-Dichloroethene	ND		0.50	1	10/02/2015 19:26
1,2-Dichloropropane         ND         0.50         1         10/02/2015 19:26           1,3-Dichloropropane         ND         0.50         1         10/02/2015 19:26	cis-1,2-Dichloroethene	ND		0.50	1	10/02/2015 19:26
1,3-Dichloropropane ND 0.50 1 10/02/2015 19:26	trans-1,2-Dichloroethene	ND		0.50	1	10/02/2015 19:26
	1,2-Dichloropropane	ND		0.50	1	10/02/2015 19:26
2,2-Dichloropropane ND 0.50 1 10/02/2015 19:26	1,3-Dichloropropane	ND		0.50	1	10/02/2015 19:26
	2,2-Dichloropropane	ND		0.50	1	10/02/2015 19:26

(Cont.)



# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30 **Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

Client ID	Lab ID	Matrix	Date C	ollected	Instrument	ment Batch ID	
W-ECB14	1509A62-004B Water 09/24/2015		15 17:01	7:01 GC10			
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>		Date Analyzed	
1,1-Dichloropropene	ND		0.50	1		10/02/2015 19:26	
cis-1,3-Dichloropropene	ND		0.50	1		10/02/2015 19:26	
trans-1,3-Dichloropropene	ND		0.50	1		10/02/2015 19:26	
Diisopropyl ether (DIPE)	ND		0.50	1		10/02/2015 19:26	
Ethylbenzene	ND		0.50	1		10/02/2015 19:26	
Ethyl tert-butyl ether (ETBE)	ND		0.50	1		10/02/2015 19:26	
Freon 113	ND		0.50	1		10/02/2015 19:26	
Hexachlorobutadiene	ND		0.50	1		10/02/2015 19:26	
Hexachloroethane	ND		0.50	1		10/02/2015 19:26	
2-Hexanone	ND		0.50	1		10/02/2015 19:26	
Isopropylbenzene	ND		0.50	1		10/02/2015 19:26	
4-Isopropyl toluene	ND		0.50	1		10/02/2015 19:26	
Methyl-t-butyl ether (MTBE)	ND		0.50	1		10/02/2015 19:26	
Methylene chloride	ND		0.50	1		10/02/2015 19:26	
4-Methyl-2-pentanone (MIBK)	ND		0.50	1		10/02/2015 19:26	
Naphthalene	ND		0.50	1		10/02/2015 19:26	
n-Propyl benzene	ND		0.50	1		10/02/2015 19:26	
Styrene	ND		0.50	1		10/02/2015 19:26	
1,1,1,2-Tetrachloroethane	ND		0.50	1		10/02/2015 19:26	
1,1,2,2-Tetrachloroethane	ND		0.50	1		10/02/2015 19:26	
Tetrachloroethene	ND		0.50	1		10/02/2015 19:26	
Toluene	ND		0.50	1		10/02/2015 19:26	
1,2,3-Trichlorobenzene	ND		0.50	1		10/02/2015 19:26	
1,2,4-Trichlorobenzene	ND		0.50	1		10/02/2015 19:26	
1,1,1-Trichloroethane	ND		0.50	1		10/02/2015 19:26	
1,1,2-Trichloroethane	ND		0.50	1		10/02/2015 19:26	
Trichloroethene	ND		0.50	1		10/02/2015 19:26	
Trichlorofluoromethane	ND		0.50	1		10/02/2015 19:26	
1,2,3-Trichloropropane	ND		0.50	1		10/02/2015 19:26	
1,2,4-Trimethylbenzene	ND		0.50	1		10/02/2015 19:26	
1,3,5-Trimethylbenzene	ND		0.50	1		10/02/2015 19:26	
Vinyl Chloride	ND		0.50	1		10/02/2015 19:26	
Xylenes, Total	ND		0.50	1		10/02/2015 19:26	

# **Analytical Report**

Client: Essel Environmental Consulting

**Date Received:** 9/25/15 19:30 **Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC

**WorkOrder:** 1509A62

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B **Unit:** μg/L

Client ID	Lab ID	Matrix	Matrix Date Collected Instrument		
W-ECB14	1509A62-004B Water		09/24/2015 17:01	111091	
<u>Analytes</u>	Result		<u>RL</u> <u>DF</u>		Date Analyzed
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	92		70-130		10/02/2015 19:26
Toluene-d8	84		70-130		10/02/2015 19:26
4-BFB	104		70-130		10/02/2015 19:26
Analyst(s): AK			Analytical Comments: b	1	



# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30 **Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

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

March   1509A62-0058   Water   09/25/2015 14-08   GC10   1110091	Client ID	Lab ID	Matrix	Date C	ollected	Instrument	Batch ID
Acetone	W-ECB1	1509A62-005B	Water	09/25/20	15 14:08	GC10	111091
tert-Amyl methyl ether (TAME)         ND         0.50         1         10/02/2015 20:07           Benzene         ND         0.50         1         10/02/2015 20:07           Bromobenzene         ND         0.50         1         10/02/2015 20:07           Bromochloromethane         ND         0.50         1         10/02/2015 20:07           Bromodichloromethane         ND         0.50         1         10/02/2015 20:07           Bromomethane         ND         0.50         1         10/02/2015 20:07           Brown Discover         ND         0.50         1         10/02/2015 20:07           Brown Discover         ND         0.50         1         10/02/2015 20:07 <td><u>Analytes</u></td> <td>Result</td> <td></td> <td colspan="2"><u>RL</u> <u>DF</u></td> <td></td> <td>Date Analyzed</td>	<u>Analytes</u>	Result		<u>RL</u> <u>DF</u>			Date Analyzed
Benzene         ND         0.50         1         10/02/2015 20:07           Bromobenzene         ND         0.50         1         10/02/2015 20:07           Bromochloromethane         ND         0.50         1         10/02/2015 20:07           Bromochloromethane         ND         0.50         1         10/02/2015 20:07           Bromoferm         ND         0.50         1         10/02/2015 20:07           Bromomethane         ND         0.50         1         10/02/2015 20:07           Bromomethane         ND         0.50         1         10/02/2015 20:07           2-Butanone (MEK)         11         2.0         1         10/02/2015 20:07           1-Butyl acohol (TBA)         3.9         2.0         1         10/02/2015 20:07           1-Butyl benzene         ND         0.50         1         10/02/2015 20:07           1-Butyl benzene         ND         0.50         1         10/02/2015 20:07           1etr-Butyl benzene         ND         0.50         1         10/02/2015 20:07           1etr-Butyl benzene         ND         0.50         1         10/02/2015 20:07           1etr-Butyl benzene         ND         0.50         1         10/02/2015 20:07	Acetone	92		10	1		10/02/2015 20:07
Bromobenzene         ND         0.50         1         10/02/2015 20:07           Bromochloromethane         ND         0.50         1         10/02/2015 20:07           Bromodiohromethane         ND         0.50         1         10/02/2015 20:07           Bromoform         ND         0.50         1         10/02/2015 20:07           Bromomethane         ND         0.50         1         10/02/2015 20:07           -Butanone (MEK)         11         2.0         1         10/02/2015 20:07           -Butyl alcohel (TBA)         3.9         2.0         1         10/02/2015 20:07           -Butyl benzene         ND         0.50         1         10/02/2015 20:07           -Butyl benzene         ND         0.50         1         10/02/2015 20:07           sec-Butyl benzene         ND         0.50         1         10/02/2015 20:07           cerbon Tetrachloride         ND         0.50         1         10/02/2015 20:07           Carbon Tetrachloride         ND         0.50         1         10/02/2015 20:07           Chloroberazene         ND         0.50         1         10/02/2015 20:07           Chlorotethane         ND         0.50         1         10/02/2015 20	tert-Amyl methyl ether (TAME)	ND		0.50	1		10/02/2015 20:07
Bromochloromethane         ND         0.50         1         10/02/2015 20:07           Bromodichloromethane         ND         0.50         1         10/02/2015 20:07           Bromoform         ND         0.50         1         10/02/2015 20:07           Bromomethane         ND         0.50         1         10/02/2015 20:07           2-Butanone (MEK)         11         2.0         1         10/02/2015 20:07           2-Butyl alcohol (TBA)         3.9         2.0         1         10/02/2015 20:07           Beutyl alcohol (TBA)         3.9         2.0         1         10/02/2015 20:07           sec-Butyl benzene         ND         0.50         1         10/02/2015 20:07           sec-Butyl benzene         ND         0.50         1         10/02/2015 20:07           sec-Butyl benzene         ND         0.50         1         10/02/2015 20:07           cer-Butyl benzene         ND         0.50         1         10/02/2015 20:07           Carbon Distilide         ND         0.50         1         10/02/2015 20:07           Carbon Tetrachloride         ND         0.50         1         10/02/2015 20:07           Chlorobenzene         ND         0.50         1	Benzene	ND		0.50	1		10/02/2015 20:07
Bromodichloromethane         ND         0.50         1         10/02/2015 20:07           Bromoform         ND         0.50         1         10/02/2015 20:07           Bromomethane         ND         0.50         1         10/02/2015 20:07           Psutanone (MEK)         11         2.0         1         10/02/2015 20:07           t-Butyl benzene         ND         0.50         1         10/02/2015 20:07           r-Butyl benzene         ND         0.50         1         10/02/2015 20:07           sec-Butyl benzene         ND         0.50         1         10/02/2015 20:07           tert-Butyl benzene         ND         0.50         1         10/02/2015 20:07           Carbon Disulfide         ND         0.50         1         10/02/2015 20:07           Carbon Disulfide         ND         0.50         1         10/02/2015 20:07           Carbon Tetrachloride         ND         0.50         1         10/02/2015 20:07           Chlorothane         ND         0.50         1         10/02/2015 20:07           Chlorotofuene         ND         0.50         1         10/02/2015 20:07           Chlorotofuene         ND         0.50         1         10/02/2015 20:07 <td>Bromobenzene</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td></td> <td>10/02/2015 20:07</td>	Bromobenzene	ND		0.50	1		10/02/2015 20:07
Bromoform         ND         0.50         1         10/02/2015 20:07           Brommethane         ND         0.50         1         10/02/2015 20:07           2-Butanone (MEK)         11         2.0         1         10/02/2015 20:07           Haufy Lookol (TBA)         3.9         2.0         1         10/02/2015 20:07           n-Butyl benzene         ND         0.50         1         10/02/2015 20:07           sec-Butyl benzene         ND         0.50         1         10/02/2015 20:07           tert-Butyl benzene         ND         0.50         1         10/02/2015 20:07           Carbon Disulfide         ND         0.50         1         10/02/2015 20:07           Carbon Tetrachloride         ND         0.50         1         10/02/2015 20:07           Chlorobenzene         ND         0.50         1         10/02/2015 20:07           Chlorothane         ND         0.50         1         10/02/2015 20:07           Chlorothane         ND         0.50         1         10/02/2015 20:07           Chlorothane         ND         0.50         1         10/02/2015 20:07           Chlorotoluene         ND         0.50         1         10/02/2015 20:07 <td>Bromochloromethane</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td></td> <td>10/02/2015 20:07</td>	Bromochloromethane	ND		0.50	1		10/02/2015 20:07
Bromomethane   ND	Bromodichloromethane	ND		0.50	1		10/02/2015 20:07
2-Butanone (MEK)         11         2.0         1         10/02/2015 20:07           t-Butyl alcohol (TBA)         3.9         2.0         1         10/02/2015 20:07           n-Butyl benzene         ND         0.50         1         10/02/2015 20:07           sec-Butyl benzene         ND         0.50         1         10/02/2015 20:07           tert-Butyl benzene         ND         0.50         1         10/02/2015 20:07           Carbon Disulfide         ND         0.50         1         10/02/2015 20:07           Carbon Tetrachloride         ND         0.50         1         10/02/2015 20:07           Chlorostenzene         ND         0.50         1         10/02/20	Bromoform	ND		0.50	1		10/02/2015 20:07
t-Butyl alcohol (TBA) 3.9 2.0 1 1002/2015 20:07 n-Butyl benzene ND 0.50 1 1002/2015 20:07 sec-Butyl benzene ND 0.50 1 1002/2015 20:07 sec-Butyl benzene ND 0.50 1 1002/2015 20:07 Sec-Butyl benzene ND 0.50 1 1002/2015 20:07 Carbon Disulfide ND 0.50 1 1002/2015 20:07 Carbon Disulfide ND 0.50 1 1002/2015 20:07 Carbon Tosulfide ND 0.50 1 1002/2015 20:07 Carbon Tetrachloride ND 0.50 1 1002/2015 20:07 Chlorobenzene ND 0.50 1 1002/2015 20:07 Chlorobenzene ND 0.50 1 1002/2015 20:07 Chlorobenzene ND 0.50 1 1002/2015 20:07 Chloroform ND 0.50 1 1002/2015 20:07 Chloroform ND 0.50 1 1002/2015 20:07 Chlorothane ND 0.50 1 1002/2015 20:07 Chlorothan	Bromomethane	ND		0.50	1		10/02/2015 20:07
n-Butyl benzene         ND         0.50         1         10/02/2015 20:07           sec-Butyl benzene         ND         0.50         1         10/02/2015 20:07           tert-Butyl benzene         ND         0.50         1         10/02/2015 20:07           Carbon Disulfide         ND         0.50         1         10/02/2015 20:07           Carbon Tetrachloride         ND         0.50         1         10/02/2015 20:07           Chiorobenzene         ND         0.50         1         10/02/2015 20:07           Chiorotethane         ND         0.50         1         10/02/2015 20:07           Chlorotethane         ND         0.50         1         10/02/2015 20:07           Chlorotethane         ND         0.50         1         10/02/2015 20:07           Chlorotethane         ND         0.50         1         10/02/2015 20:07           Chlorotoluene         ND         0.50         1         10/02/2015 20:07           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:07           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:07           1,2-Dibromo-Shoropropane         ND         0.50         1         10/02/2015	2-Butanone (MEK)	11		2.0	1		10/02/2015 20:07
sec-Butyl benzene         ND         0.50         1         10/02/2015 20:07           tert-Butyl benzene         ND         0.50         1         10/02/2015 20:07           Carbon Disulfide         ND         0.50         1         10/02/2015 20:07           Carbon Tetrachloride         ND         0.50         1         10/02/2015 20:07           Chlorobenzene         ND         0.50         1         10/02/2015 20:07           Chlorotethane         ND         0.50         1         10/02/2015 20:07           Chlorotoform         ND         0.50         1         10/02/2015 20:07           Chlorotofuene         ND         0.50         1         10/02/2015 20:07           Chlorotoluene         ND         0.50         1         10/02/2015 20:07           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:07           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:07           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:07           Dibromochloromethane         ND         0.50         1         10/02/2015 20:07           1,2-Dibromochloropropane         ND         0.50         1         10/0	t-Butyl alcohol (TBA)	3.9		2.0	1		10/02/2015 20:07
tert-Buly benzene         ND         0.50         1         10/02/2015 20:07           Carbon Disulfide         ND         0.50         1         10/02/2015 20:07           Carbon Tetrachloride         ND         0.50         1         10/02/2015 20:07           Chlorobenzene         ND         0.50         1         10/02/2015 20:07           Chlorotehane         ND         0.50         1         10/02/2015 20:07           Chloroform         ND         0.50         1         10/02/2015 20:07           Chlorotelhane         ND         0.50         1         10/02/2015 20:07           Chlorotoluene         ND         0.50         1         10/02/2015 20:07           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:07           1-Chlorotoluene         ND         0.50         1         10/02/2015 20:07           1/2-Dibromoethane         ND         0.50         1         10/02/2015 20:07	n-Butyl benzene	ND		0.50	1		10/02/2015 20:07
Carbon Disulfide         ND         0.50         1         10/02/2015 20:07           Carbon Tetrachloride         ND         0.50         1         10/02/2015 20:07           Chlorobenzene         ND         0.50         1         10/02/2015 20:07           Chloroethane         ND         0.50         1         10/02/2015 20:07           Chloroform         ND         0.50         1         10/02/2015 20:07           Chlorotolurene         ND         0.50         1         10/02/2015 20:07           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:07           1/2-Dibromoethane         ND         0.50         1         10/02/2015 20:07           1/2-Dibromoethane         ND         0.50         1         10/02/2015 20:07 <td>sec-Butyl benzene</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td></td> <td>10/02/2015 20:07</td>	sec-Butyl benzene	ND		0.50	1		10/02/2015 20:07
Carbon Tetrachloride         ND         0.50         1         10/02/2015 20:07           Chlorobenzene         ND         0.50         1         10/02/2015 20:07           Chloroethane         ND         0.50         1         10/02/2015 20:07           Chloroform         ND         0.50         1         10/02/2015 20:07           Chloromethane         ND         0.50         1         10/02/2015 20:07           C-Chlorotoluene         ND         0.50         1         10/02/2015 20:07           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:07           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:07           Dibromochloromethane         ND         0.50         1         10/02/2015 20:07           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/02/2015 20:07           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 20:07           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,4-Dichlorobenzene         ND         0.50         1	tert-Butyl benzene	ND		0.50	1		10/02/2015 20:07
Chlorobenzene         ND         0.50         1         10/02/2015 20:07           Chloroethane         ND         0.50         1         10/02/2015 20:07           Chloroform         ND         0.50         1         10/02/2015 20:07           Chloromethane         ND         0.50         1         10/02/2015 20:07           2-Chlorotoluene         ND         0.50         1         10/02/2015 20:07           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:07           1/2-Dibromo-3-chloropropane         ND         0.50         1         10/02/2015 20:07           1/2-Dibromo-3-chloropropane         ND         0.50         1         10/02/2015 20:07           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/02/2015 20:07           1,2-Dibromo-3-chloropropane         ND         0.50         1	Carbon Disulfide	ND		0.50	1		10/02/2015 20:07
Chloroethane         ND         0.50         1         10/02/2015 20:07           Chloroform         ND         0.50         1         10/02/2015 20:07           Chloromethane         ND         0.50         1         10/02/2015 20:07           2-Chlorotoluene         ND         0.50         1         10/02/2015 20:07           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:07           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:07           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:07           Dibromochloromethane         ND         0.50         1         10/02/2015 20:07           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/02/2015 20:07           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 20:07           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,1-Dichloroethane         ND         0.50         1	Carbon Tetrachloride	ND		0.50	1		10/02/2015 20:07
Chloroform         ND         0.50         1         10/02/2015 20:07           Chloromethane         ND         0.50         1         10/02/2015 20:07           2-Chlorotoluene         ND         0.50         1         10/02/2015 20:07           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:07           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:07           1,2-Dibromochloromethane         ND         0.50         1         10/02/2015 20:07           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/02/2015 20:07           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 20:07           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,4-Dichlorodifluoromethane         ND         0.50         1         10/02/2015 20:07           1,1-Dichloroethane         ND         0.50         1         10/02/2015 20:07           1,2-Dichloroethane         ND         0.50 <td>Chlorobenzene</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td></td> <td>10/02/2015 20:07</td>	Chlorobenzene	ND		0.50	1		10/02/2015 20:07
Chloromethane         ND         0.50         1         10/02/2015 20:07           2-Chlorotoluene         ND         0.50         1         10/02/2015 20:07           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:07           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:07           1,2-Dibromoethane         ND         0.50         1         10/02/2015 20:07           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 20:07           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 20:07           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,1-Dichlorodifluoromethane         ND         0.50         1         10/02/2015 20:07           1,1-Dichlorodethane         ND         0.50         1         10/02/2015 20:07           1,2-Dichlorotethane (1,2-DCA)         ND         0.50         1         10/02/2015 20:07           1,1-Dichlorotethene         ND         <	Chloroethane	ND		0.50	1		10/02/2015 20:07
2-Chlorotoluene         ND         0.50         1         10/02/2015 20:07           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:07           Dibromochloromethane         ND         0.50         1         10/02/2015 20:07           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/02/2015 20:07           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 20:07           1,2-Dibrlomoethane         ND         0.50         1         10/02/2015 20:07           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,1-Dichloroethane         ND         0.50         1         10/02/2015 20:07           1,1-Dichloroethane         ND         0.50         1         10/02/2015 20:07           1,1-Dichloroethane         ND         0.50         1         10/02/2015 20:07           1,1-Dichloroethene         ND         0.5	Chloroform	ND		0.50	1		10/02/2015 20:07
4-Chlorotoluene         ND         0.50         1         10/02/2015 20:07           Dibromochloromethane         ND         0.50         1         10/02/2015 20:07           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/02/2015 20:07           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 20:07           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 20:07           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,1-Dichloroethane         ND         0.50         1         10/02/2015 20:07           1,1-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 20:07           1,1-Dichloroethene         ND         0.50         1         10/02/2015 20:07           1,1-Dichloroethene         ND         0.50         1         10/02/2015 20:07           trans-1,2-Dichloroethene <td< td=""><td>Chloromethane</td><td>ND</td><td></td><td>0.50</td><td>1</td><td></td><td>10/02/2015 20:07</td></td<>	Chloromethane	ND		0.50	1		10/02/2015 20:07
Dibromochloromethane         ND         0.50         1         10/02/2015 20:07           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/02/2015 20:07           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 20:07           Dibromomethane         ND         0.50         1         10/02/2015 20:07           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,4-Dichlorothanene         ND         0.50         1         10/02/2015 20:07           1,1-Dichloroethane         ND         0.50         1         10/02/2015 20:07           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 20:07           1,1-Dichloroethene         ND         0.50         1         10/02/2015 20:07           1,1-Dichloroethene         ND         0.50         1         10/02/2015 20:07           1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:07           trans-1,2-Dichloroethene         ND <td>2-Chlorotoluene</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td></td> <td>10/02/2015 20:07</td>	2-Chlorotoluene	ND		0.50	1		10/02/2015 20:07
1,2-Dibromo-3-chloropropane         ND         0.20         1         10/02/2015 20:07           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 20:07           Dibromomethane         ND         0.50         1         10/02/2015 20:07           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           Dichlorodifluoromethane         ND         0.50         1         10/02/2015 20:07           1,1-Dichloroethane         ND         0.50         1         10/02/2015 20:07           1,2-Dichloroethane         ND         0.50         1         10/02/2015 20:07           1,1-Dichloroethene         ND         0.50         1         10/02/2015 20:07           1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:07           1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:07           1,2-Dichloropropane         ND         <	4-Chlorotoluene	ND		0.50	1		10/02/2015 20:07
1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 20:07           Dibromomethane         ND         0.50         1         10/02/2015 20:07           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           Dichlorodifluoromethane         ND         0.50         1         10/02/2015 20:07           1,1-Dichloroethane         ND         0.50         1         10/02/2015 20:07           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 20:07           1,1-Dichloroethene         ND         0.50         1         10/02/2015 20:07           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:07           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:07           1,2-Dichloropropane         ND         0.50         1         10/02/2015 20:07           1,3-Dichloropropane         ND         0.50         1         10/02/2015 20:07	Dibromochloromethane	ND		0.50	1		10/02/2015 20:07
Dibromomethane         ND         0.50         1         10/02/2015 20:07           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           Dichlorodifluoromethane         ND         0.50         1         10/02/2015 20:07           1,1-Dichloroethane         ND         0.50         1         10/02/2015 20:07           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 20:07           1,1-Dichloroethene         ND         0.50         1         10/02/2015 20:07           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:07           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:07           1,2-Dichloropropane         ND         0.50         1         10/02/2015 20:07           1,3-Dichloropropane         ND         0.50         1         10/02/2015 20:07           1,3-Dichloropropane         ND         0.50         1         10/02/2015 20:07	1,2-Dibromo-3-chloropropane	ND		0.20	1		10/02/2015 20:07
1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           Dichlorodifluoromethane         ND         0.50         1         10/02/2015 20:07           1,1-Dichloroethane         ND         0.50         1         10/02/2015 20:07           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 20:07           1,1-Dichloroethene         ND         0.50         1         10/02/2015 20:07           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:07           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:07           1,2-Dichloropropane         ND         0.50         1         10/02/2015 20:07           1,3-Dichloropropane         ND         0.50         1         10/02/2015 20:07	1,2-Dibromoethane (EDB)	ND		0.50	1		10/02/2015 20:07
1,3-Dichlorobenzene       ND       0.50       1       10/02/2015 20:07         1,4-Dichlorobenzene       ND       0.50       1       10/02/2015 20:07         Dichlorodifluoromethane       ND       0.50       1       10/02/2015 20:07         1,1-Dichloroethane       ND       0.50       1       10/02/2015 20:07         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/02/2015 20:07         1,1-Dichloroethene       ND       0.50       1       10/02/2015 20:07         cis-1,2-Dichloroethene       ND       0.50       1       10/02/2015 20:07         trans-1,2-Dichloroethene       ND       0.50       1       10/02/2015 20:07         1,2-Dichloropropane       ND       0.50       1       10/02/2015 20:07         1,3-Dichloropropane       ND       0.50       1       10/02/2015 20:07	Dibromomethane	ND		0.50	1		10/02/2015 20:07
1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 20:07           Dichlorodifluoromethane         ND         0.50         1         10/02/2015 20:07           1,1-Dichloroethane         ND         0.50         1         10/02/2015 20:07           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 20:07           1,1-Dichloroethene         ND         0.50         1         10/02/2015 20:07           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:07           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:07           1,2-Dichloropropane         ND         0.50         1         10/02/2015 20:07           1,3-Dichloropropane         ND         0.50         1         10/02/2015 20:07	1,2-Dichlorobenzene	ND		0.50	1		10/02/2015 20:07
Dichlorodifluoromethane         ND         0.50         1         10/02/2015 20:07           1,1-Dichloroethane         ND         0.50         1         10/02/2015 20:07           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 20:07           1,1-Dichloroethane         ND         0.50         1         10/02/2015 20:07           cis-1,2-Dichloroethane         ND         0.50         1         10/02/2015 20:07           trans-1,2-Dichloroethane         ND         0.50         1         10/02/2015 20:07           1,2-Dichloropropane         ND         0.50         1         10/02/2015 20:07           1,3-Dichloropropane         ND         0.50         1         10/02/2015 20:07	1,3-Dichlorobenzene	ND		0.50	1		10/02/2015 20:07
1,1-Dichloroethane       ND       0.50       1       10/02/2015 20:07         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/02/2015 20:07         1,1-Dichloroethene       ND       0.50       1       10/02/2015 20:07         cis-1,2-Dichloroethene       ND       0.50       1       10/02/2015 20:07         trans-1,2-Dichloroethene       ND       0.50       1       10/02/2015 20:07         1,2-Dichloropropane       ND       0.50       1       10/02/2015 20:07         1,3-Dichloropropane       ND       0.50       1       10/02/2015 20:07	1,4-Dichlorobenzene	ND		0.50	1		10/02/2015 20:07
1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/02/2015 20:07         1,1-Dichloroethene       ND       0.50       1       10/02/2015 20:07         cis-1,2-Dichloroethene       ND       0.50       1       10/02/2015 20:07         trans-1,2-Dichloroethene       ND       0.50       1       10/02/2015 20:07         1,2-Dichloropropane       ND       0.50       1       10/02/2015 20:07         1,3-Dichloropropane       ND       0.50       1       10/02/2015 20:07	Dichlorodifluoromethane	ND		0.50	1		10/02/2015 20:07
1,1-Dichloroethene         ND         0.50         1         10/02/2015 20:07           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:07           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:07           1,2-Dichloropropane         ND         0.50         1         10/02/2015 20:07           1,3-Dichloropropane         ND         0.50         1         10/02/2015 20:07	1,1-Dichloroethane	ND		0.50	1		10/02/2015 20:07
cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:07           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:07           1,2-Dichloropropane         ND         0.50         1         10/02/2015 20:07           1,3-Dichloropropane         ND         0.50         1         10/02/2015 20:07	1,2-Dichloroethane (1,2-DCA)	ND		0.50	1		10/02/2015 20:07
trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:07           1,2-Dichloropropane         ND         0.50         1         10/02/2015 20:07           1,3-Dichloropropane         ND         0.50         1         10/02/2015 20:07	1,1-Dichloroethene	ND		0.50	1		10/02/2015 20:07
1,2-Dichloropropane         ND         0.50         1         10/02/2015 20:07           1,3-Dichloropropane         ND         0.50         1         10/02/2015 20:07	cis-1,2-Dichloroethene	ND		0.50	1		10/02/2015 20:07
1,3-Dichloropropane ND 0.50 1 10/02/2015 20:07	trans-1,2-Dichloroethene	ND		0.50	1		10/02/2015 20:07
	1,2-Dichloropropane	ND		0.50	1		10/02/2015 20:07
2,2-Dichloropropane         ND         0.50         1         10/02/2015 20:07	1,3-Dichloropropane	ND		0.50	1		10/02/2015 20:07
	2,2-Dichloropropane	ND		0.50	1		10/02/2015 20:07

(Cont.)



# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30 **Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
W-ECB1	1509A62-005B	Water	09/25/20	015 14:08 GC10	111091
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	Date Analyzed
1,1-Dichloropropene	ND		0.50	1	10/02/2015 20:07
cis-1,3-Dichloropropene	ND		0.50	1	10/02/2015 20:07
trans-1,3-Dichloropropene	ND		0.50	1	10/02/2015 20:07
Diisopropyl ether (DIPE)	ND		0.50	1	10/02/2015 20:07
Ethylbenzene	ND		0.50	1	10/02/2015 20:07
Ethyl tert-butyl ether (ETBE)	ND		0.50	1	10/02/2015 20:07
Freon 113	ND		0.50	1	10/02/2015 20:07
Hexachlorobutadiene	ND		0.50	1	10/02/2015 20:07
Hexachloroethane	ND		0.50	1	10/02/2015 20:07
2-Hexanone	2.0		0.50	1	10/02/2015 20:07
Isopropylbenzene	ND		0.50	1	10/02/2015 20:07
4-Isopropyl toluene	ND		0.50	1	10/02/2015 20:07
Methyl-t-butyl ether (MTBE)	ND		0.50	1	10/02/2015 20:07
Methylene chloride	ND		0.50	1	10/02/2015 20:07
4-Methyl-2-pentanone (MIBK)	3.7		0.50	1	10/02/2015 20:07
Naphthalene	ND		0.50	1	10/02/2015 20:07
n-Propyl benzene	ND		0.50	1	10/02/2015 20:07
Styrene	ND		0.50	1	10/02/2015 20:07
1,1,1,2-Tetrachloroethane	ND		0.50	1	10/02/2015 20:07
1,1,2,2-Tetrachloroethane	ND		0.50	1	10/02/2015 20:07
Tetrachloroethene	ND		0.50	1	10/02/2015 20:07
Toluene	ND		0.50	1	10/02/2015 20:07
1,2,3-Trichlorobenzene	ND		0.50	1	10/02/2015 20:07
1,2,4-Trichlorobenzene	ND		0.50	1	10/02/2015 20:07
1,1,1-Trichloroethane	ND		0.50	1	10/02/2015 20:07
1,1,2-Trichloroethane	ND		0.50	1	10/02/2015 20:07
Trichloroethene	ND		0.50	1	10/02/2015 20:07
Trichlorofluoromethane	ND		0.50	1	10/02/2015 20:07
1,2,3-Trichloropropane	ND		0.50	1	10/02/2015 20:07
1,2,4-Trimethylbenzene	ND		0.50	1	10/02/2015 20:07
1,3,5-Trimethylbenzene	ND		0.50	1	10/02/2015 20:07
Vinyl Chloride	ND		0.50	1	10/02/2015 20:07
Xylenes, Total	ND		0.50	1	10/02/2015 20:07

# **Analytical Report**

Client: Essel Environmental Consulting

**Date Received:** 9/25/15 19:30 **Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID
W-ECB1	1509A62-005B	Water	09/25/20	15 14:08 GC10	111091
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Dibromofluoromethane	0	S	70-130		10/02/2015 20:07
Toluene-d8	84		70-130		10/02/2015 20:07
4-BFB	107		70-130		10/02/2015 20:07
Analyst(s): AK			Analytical Comr	ments: c2	



# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30 **Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

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

Benzene         ND         0.50         1         10/02/2015 20:48           Bromobenzene         ND         0.50         1         10/02/2015 20:48           Bromochloromethane         ND         0.50         1         10/02/2015 20:48           Bromoclichloromethane         ND         0.50         1         10/02/2015 20:48           Bromoferm         ND         0.50         1         10/02/2015 20:48           Bromomethane         ND         0.50         1         10/02/2015 20:48           Bromomethane         ND         0.50         1         10/02/2015 20:48           2-Butanone (MEK)         6.6         2.0         1         10/02/2015 20:48           1-Butyl alcohol (TBA)         ND         2.0         1         10/02/2015 20:48           1-Butyl benzene         ND         0.50         1         10/02/2015 20:48	Client ID	Lab ID	Matrix	Date C	collected Instrument	Batch ID
Acetone         42         10         1         10/02/2015 20:48           tert-Mryl methyl ether (TAME)         ND         0.50         1         10/02/2015 20:48           Benzene         ND         0.50         1         10/02/2015 20:48           Bromochloromethane         ND         0.50         1         10/02/2015 20:48           Bromochloromethane         ND         0.50         1         10/02/2015 20:48           Bromofich Commethane         ND         0.50         1         10/02/2015 20:48           Bromomethane         ND         0.50         1         10/02/2015 20:48           Bromomethane         ND         0.50         1         10/02/2015 20:48           Bromomethane         ND         0.50         1         10/02/2015 20:48           E-Butyl alcohol (TBA)         ND         0.50         1         10/02/2015 20:48           E-Butyl benzene         ND         0.50         1 <th< th=""><th>W-ECB2</th><th>1509A62-006B</th><th>Water</th><th>09/25/20</th><th>015 15:15 GC10</th><th>111091</th></th<>	W-ECB2	1509A62-006B	Water	09/25/20	015 15:15 GC10	111091
tert-Amyl methyl ether (TAME)         ND         0.50         1         10/02/2015 20:48           Benzene         ND         0.50         1         10/02/2015 20:48           Bromobenzene         ND         0.50         1         10/02/2015 20:48           Bromochloromethane         ND         0.50         1         10/02/2015 20:48           Bromodichloromethane         ND         0.50         1         10/02/2015 20:48           Bromoderim         ND         0.50         1         10/02/2015 20:48           Bromoderim         ND         0.50         1         10/02/2015 20:48           Bromoderim         ND         0.50         1         10/02/2015 20:48           Bromomethane         ND         0.50         1         10/02/2015 20:48           Bromoderim         ND         0.50         1         10/02/2015 20:48           Brown Distribution         ND         0.50         1         10/02/2015 20:48	<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Benzene         ND         0.50         1         10/02/2015 20:48           Bromobenzene         ND         0.50         1         10/02/2015 20:48           Bromochloromethane         ND         0.50         1         10/02/2015 20:48           Bromochloromethane         ND         0.50         1         10/02/2015 20:48           Bromoferm         ND         0.50         1         10/02/2015 20:48           Bromomethane         ND         0.50         1         10/02/2015 20:48           Bromomethane         ND         0.50         1         10/02/2015 20:48           2-Butanone (MEK)         6.6         2.0         1         10/02/2015 20:48           1-Butyl alcohol (TBA)         ND         2.0         1         10/02/2015 20:48           1-Butyl benzene         ND         0.50         1         10/02/2015 20:48 <td>Acetone</td> <td>42</td> <td></td> <td>10</td> <td>1</td> <td>10/02/2015 20:48</td>	Acetone	42		10	1	10/02/2015 20:48
Bromobenzene         ND         0.50         1         10/02/2015 20:48           Bromochloromethane         ND         0.50         1         10/02/2015 20:48           Bromodichloromethane         ND         0.50         1         10/02/2015 20:48           Bromoform         ND         0.50         1         10/02/2015 20:48           Bromomethane         ND         0.50         1         10/02/2015 20:48           Bromomethane         ND         0.50         1         10/02/2015 20:48           2-Butanone (MEK)         6.6         2.0         1         10/02/2015 20:48           2-Butyl denote (TBA)         ND         0.50         1         10/02/2015 20:48           Sec-Butyl benzene         ND         0.50         1         10/02/2015 20:48           sec-Butyl benzene         ND         0.50         1         10/02/2015 20:48           sec-Butyl benzene         ND         0.50         1         10/02/2015 20:48           Carbon Tetrachloride         ND         0.50         1         10/02/2015 20:48           Carbon Tetrachloride         ND         0.50         1         10/02/2015 20:48           Chlorochane         ND         0.50         1         10/02/2	tert-Amyl methyl ether (TAME)	ND		0.50	1	10/02/2015 20:48
Bromochloromethane         ND         0.50         1         10/02/2015 20:48           Bromodichloromethane         ND         0.50         1         10/02/2015 20:48           Bromoform         ND         0.50         1         10/02/2015 20:48           Bromomethane         ND         0.50         1         10/02/2015 20:48           2-Butanone (MEK)         6.6         2.0         1         10/02/2015 20:48           2-Butanone (MEK)         6.6         2.0         1         10/02/2015 20:48           8-Butyl alcohol (TBA)         ND         2.0         1         10/02/2015 20:48           8-Butyl benzene         ND         0.50         1         10/02/2015 20:48           8cc-Butyl benzene         ND         0.50         1         10/02/2015 20:48           4 tert-Butyl benzene         ND         0.50         1         10/02/2015 20:48           Carbon Tetrachloride         ND         0.50         1         10/02/2015 20:48           Carbon Tetrachloride         ND         0.50         1         10/02/2015 20:48           Chlorobenzene         ND         0.50         1         10/02/2015 20:48           Chlorobenzene         ND         0.50         1 <td< td=""><td>Benzene</td><td>ND</td><td></td><td>0.50</td><td>1</td><td>10/02/2015 20:48</td></td<>	Benzene	ND		0.50	1	10/02/2015 20:48
Bromodichloromethane         ND         0.50         1         10/02/2015 20:48           Bromoform         ND         0.50         1         10/02/2015 20:48           Bromomethane         ND         0.50         1         10/02/2015 20:48           Bromomethane         ND         0.50         1         10/02/2015 20:48           t-Butyl alcohol (TBA)         ND         2.0         1         10/02/2015 20:48           t-Butyl benzene         ND         0.50         1         10/02/2015 20:48           ser-Butyl benzene         ND         0.50         1         10/02/2015 20:48           ser-Butyl benzene         ND         0.50         1         10/02/2015 20:48           dert-Butyl benzene         ND         0.50         1         10/02/2015 20:48           dert-Butyl benzene         ND         0.50         1         10/02/2015 20:48           Carbon Disulfide         ND         0.50         1         10/02/2015 20:48           Carbon Disulfide         ND         0.50         1         10/02/2015 20:48           Chlorothane         ND         0.50         1         10/02/2015 20:48           Chlorothane         ND         0.50         1         10/02/2015 20:48	Bromobenzene	ND		0.50	1	10/02/2015 20:48
Bromoform         ND         0.50         1         10/02/2015 20:48           Bromomethane         ND         0.50         1         10/02/2015 20:48           2-Butanone (MEK)         6.6         2.0         1         10/02/2015 20:48           Ebutyl cohol (TEA)         ND         2.0         1         10/02/2015 20:48           Butyl benzene         ND         0.50         1         10/02/2015 20:48           sec-Butyl benzene         ND         0.50         1         10/02/2015 20:48           Carbun Disulfide         ND         0.50         1         10/02/2015 20:48           Carbon Disulfide         ND         0.50         1         10/02/2015 20:48           Carbon Tetrachloride         ND         0.50         1         10/02/2015 20:48           Chlorobenzene         ND         0.50         1         10/02/2015 20:48           Chlorothane         ND         0.50         1         10/02/2015 20:48           Chloromethane         ND         0.50         1         10/02/2015 20:48           Chloromethane         ND         0.50         1         10/02/2015 20:48           Chlorotoluene         ND         0.50         1         10/02/2015 20:48 <td>Bromochloromethane</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td>10/02/2015 20:48</td>	Bromochloromethane	ND		0.50	1	10/02/2015 20:48
Bromomethane	Bromodichloromethane	ND		0.50	1	10/02/2015 20:48
2-Butanone (MEK)         6.6         2.0         1         10/02/2015 20:48           L-Butyl alcohol (TBA)         ND         2.0         1         10/02/2015 20:48           n-Butyl benzene         ND         0.50         1         10/02/2015 20:48           ser-Butyl benzene         ND         0.50         1         10/02/2015 20:48           Carbon Disulfide         ND         0.50         1         10/02/2015 20:48           Carbon Disulfide         ND         0.50         1         10/02/2015 20:48           Carbon Tetrachloride         ND         0.50         1         10/02/2015 20:48           Chlorothane         ND         0.50         1         10/02/2015 20:48           Chlorothane         ND         0.50         1         10/02/2015 20:48           Chlorotorm         ND         0.50         1         10/02/2015 20:48           Chlorotorm         ND         0.50         1         10/02/2015 20:48           Chlorotorm         ND         0.50         1         10/02/2015 20:48           Chlorotoluene         ND         0.50         1         10/02/2015 20:48           Chlorotoluene         ND         0.50         1         10/02/2015 20:48 <td>Bromoform</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td>10/02/2015 20:48</td>	Bromoform	ND		0.50	1	10/02/2015 20:48
t-Butyl alcohol (TBA) ND 2.0 1 100/2/2015 20:48 n-Butyl benzene ND 0.50 1 100/2/2015 20:48 sec-Butyl benzene ND 0.50 1 100/2/2015 20:48 sec-Butyl benzene ND 0.50 1 100/2/2015 20:48 sec-Butyl benzene ND 0.50 1 100/2/2015 20:48 tetr-Butyl benzene ND 0.50 1 100/2/2015 20:48 Carbon Disulfide ND 0.50 1 100/2/2015 20:48 Carbon Disulfide ND 0.50 1 100/2/2015 20:48 Carbon Tetrachloride ND 0.50 1 100/2/2015 20:48 Carbon Tetrachloride ND 0.50 1 100/2/2015 20:48 Chlorobenzene ND 0.50 1 100/2/2015 20:48 Chlorobenzene ND 0.50 1 100/2/2015 20:48 Chloroform ND 0.50 1 100/2/2015 20:48 Chloroform ND 0.50 1 100/2/2015 20:48 Chloromethane ND 0.50 1 100/2/2015 20:48 Chlorotoluene ND 0.50 1 100/2/2015 20:48 Chloromethane ND 0.50 1 100/2/2015 20:48 Chlorobenzene ND 0.50 1 100/2/2015 20:	Bromomethane	ND		0.50	1	10/02/2015 20:48
n-Butyl benzene         ND         0.50         1         10/02/2015 20:48           sec-Butyl benzene         ND         0.50         1         10/02/2015 20:48           tert-Butyl benzene         ND         0.50         1         10/02/2015 20:48           Carbon Disulfide         ND         0.50         1         10/02/2015 20:48           Carbon Tetrachloride         ND         0.50         1         10/02/2015 20:48           Chlorobenzene         ND         0.50         1         10/02/2015 20:48           Chloroethane         ND         0.50         1         10/02/2015 20:48           Chloroform         ND         0.50         1         10/02/2015 20:48           Chloroform         ND         0.50         1         10/02/2015 20:48           Chloroformethane         ND         0.50         1         10/02/2015 20:48           Chlorotoluene         ND         0.50         1         10/02/2015 20:48           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:48           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:48           Ji-Dibromo-Shoropropane         ND         0.50         1         10/02/2015 20:4	2-Butanone (MEK)	6.6		2.0	1	10/02/2015 20:48
sec-Butyl benzene         ND         0.50         1         10/02/2015 20:48           tert-Butyl benzene         ND         0.50         1         10/02/2015 20:48           Carbon Disulfide         ND         0.50         1         10/02/2015 20:48           Carbon Tetrachloride         ND         0.50         1         10/02/2015 20:48           Chlorobenzene         ND         0.50         1         10/02/2015 20:48           Chloroethane         ND         0.50         1         10/02/2015 20:48           Chloroform         ND         0.50         1         10/02/2015 20:48           Chloromethane         ND         0.50         1         10/02/2015 20:48           Chlorotoluene         ND         0.50         1         10/02/2015 20:48           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:48           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:48           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:48           Dibromochloromethane         ND         0.50         1         10/02/2015 20:48           1,2-Diibromoethane (EDB)         ND         0.50         1         10/02/2	t-Butyl alcohol (TBA)	ND		2.0	1	10/02/2015 20:48
tert-Buly benzene         ND         0.50         1         10/02/2015 20:48           Carbon Disulfide         ND         0.50         1         10/02/2015 20:48           Carbon Tetrachloride         ND         0.50         1         10/02/2015 20:48           Chlorobenzene         ND         0.50         1         10/02/2015 20:48           Chlorotethane         ND         0.50         1         10/02/2015 20:48           Chloroform         ND         0.50         1         10/02/2015 20:48           Chlorotethane         ND         0.50         1         10/02/2015 20:48           Chlorotoluene         ND         0.50         1         10/02/2015 20:48           2-Chlorotoluene         ND         0.50         1         10/02/2015 20:48           2-Chlorotoluene         ND         0.50         1         10/02/2015 20:48           2-Chloromethane         ND         0.50         1         10/02/2015 20:48           Dibromochloromethane         ND         0.50         1         10/02/2015 20:48           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/02/2015 20:48           1,2-Dibromoethane (EDB)         ND         0.50         1 <t< td=""><td>n-Butyl benzene</td><td>ND</td><td></td><td>0.50</td><td>1</td><td>10/02/2015 20:48</td></t<>	n-Butyl benzene	ND		0.50	1	10/02/2015 20:48
Carbon Disulfide         ND         0.50         1         10/02/2015 20:48           Carbon Tetrachloride         ND         0.50         1         10/02/2015 20:48           Chlorobenzene         ND         0.50         1         10/02/2015 20:48           Chloroethane         ND         0.50         1         10/02/2015 20:48           Chloroform         ND         0.50         1         10/02/2015 20:48           Chlorotofuene         ND         0.50         1         10/02/2015 20:48           Chlorotoluene         ND         0.50         1         10/02/2015 20:48           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:48           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:48           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:48           1,2-Dibromochloromethane         ND         0.50         1         10/02/2015 20:48           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 20:48           1,2-Dibromoethane         ND         0.50         1         10/02/2015 20:48           Dibromomethane         ND         0.50         1         10/02/20	sec-Butyl benzene	ND		0.50	1	10/02/2015 20:48
Carbon Tetrachloride         ND         0.50         1         10/02/2015 20:48           Chlorobenzene         ND         0.50         1         10/02/2015 20:48           Chloroethane         ND         0.50         1         10/02/2015 20:48           Chloroform         ND         0.50         1         10/02/2015 20:48           Chloromethane         ND         0.50         1         10/02/2015 20:48           Chlorotoluene         ND         0.50         1         10/02/2015 20:48           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:48           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:48           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:48           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/02/2015 20:48           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 20:48           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,4-Dichlorobenzene         ND         0.50         1	tert-Butyl benzene	ND		0.50	1	10/02/2015 20:48
Chlorobenzene         ND         0.50         1         10/02/2015 20:48           Chloroethane         ND         0.50         1         10/02/2015 20:48           Chloroform         ND         0.50         1         10/02/2015 20:48           Chlorothane         ND         0.50         1         10/02/2015 20:48           Chlorotoluene         ND         0.50         1         10/02/2015 20:48           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:48           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:48           Dibromochloromethane         ND         0.50         1         10/02/2015 20:48           Dibromochloromethane         ND         0.50         1         10/02/2015 20:48           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/02/2015 20:48           1,2-Dibromo-share (EDB)         ND         0.50         1         10/02/2015 20:48           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,4-Dichloroethane         ND         0.50         1	Carbon Disulfide	ND		0.50	1	10/02/2015 20:48
Chloroethane         ND         0.50         1         10/02/2015 20:48           Chloroform         ND         0.50         1         10/02/2015 20:48           Chloromethane         ND         0.50         1         10/02/2015 20:48           2-Chlorotoluene         ND         0.50         1         10/02/2015 20:48           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:48           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:48           Dibromochloromethane         ND         0.50         1         10/02/2015 20:48           Dibromochloromethane         ND         0.50         1         10/02/2015 20:48           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/02/2015 20:48           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 20:48           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,4-Dichloroethane         ND         0.50         1         10/02/2015 20:48           1,1-Dichloroethane         ND         0.50         1 </td <td>Carbon Tetrachloride</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td>10/02/2015 20:48</td>	Carbon Tetrachloride	ND		0.50	1	10/02/2015 20:48
Chloroform         ND         0.50         1         10/02/2015 20:48           Chloromethane         ND         0.50         1         10/02/2015 20:48           2-Chlorotoluene         ND         0.50         1         10/02/2015 20:48           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:48           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:48           Dibromochloromethane         ND         0.50         1         10/02/2015 20:48           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/02/2015 20:48           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 20:48           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,4-Dichlorodifluoromethane         ND         0.50         1         10/02/2015 20:48           1,1-Dichlorodthane         ND         0.50	Chlorobenzene	ND		0.50	1	10/02/2015 20:48
Chloromethane         ND         0.50         1         10/02/2015 20:48           2-Chlorotoluene         ND         0.50         1         10/02/2015 20:48           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:48           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:48           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/02/2015 20:48           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 20:48           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 20:48           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,1-Dichloroethane         ND         0.50         1         10/02/2015 20:48           1,2-Dichloroethane         ND         0.50         1         10/02/2015 20:48           1,1-Dichloroethene         ND         0.50 <td>Chloroethane</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td>10/02/2015 20:48</td>	Chloroethane	ND		0.50	1	10/02/2015 20:48
2-Chlorotoluene         ND         0.50         1         10/02/2015 20:48           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:48           4-Chlorotoluene         ND         0.50         1         10/02/2015 20:48           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/02/2015 20:48           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 20:48           1,2-Dibrlomoethane         ND         0.50         1         10/02/2015 20:48           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,1-Dichloroethane         ND         0.50         1         10/02/2015 20:48           1,1-Dichloroethane         ND         0.50         1         10/02/2015 20:48           1,1-Dichloroethane         ND         0.50         1         10/02/2015 20:48           1,1-Dichloroethene         ND         0.50 <td>Chloroform</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td>10/02/2015 20:48</td>	Chloroform	ND		0.50	1	10/02/2015 20:48
4-Chlorotoluene         ND         0.50         1         10/02/2015 20:48           Dibromochloromethane         ND         0.50         1         10/02/2015 20:48           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/02/2015 20:48           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 20:48           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,1-Dichloroethane         ND         0.50         1         10/02/2015 20:48           1,1-Dichloroethane         ND         0.50         1         10/02/2015 20:48           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 20:48           1,1-Dichloroethene         ND         0.50         1         10/02/2015 20:48           1,1-Dichloroethene         ND         0.50         1         10/02/2015 20:48           1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:48           1,2-Dichloroethene         ND	Chloromethane	ND		0.50	1	10/02/2015 20:48
Dibromochloromethane         ND         0.50         1         10/02/2015 20:48           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/02/2015 20:48           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 20:48           Dibromomethane         ND         0.50         1         10/02/2015 20:48           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,1-Dichloroethane         ND         0.50         1         10/02/2015 20:48           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 20:48           1,1-Dichloroethene         ND         0.50         1         10/02/2015 20:48           1,1-Dichloroethene         ND         0.50         1         10/02/2015 20:48           1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:48           1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:48           1,2-Dichloroethene         ND	2-Chlorotoluene	ND		0.50	1	10/02/2015 20:48
1,2-Dibromo-3-chloropropane         ND         0.20         1         10/02/2015 20:48           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 20:48           Dibromomethane         ND         0.50         1         10/02/2015 20:48           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,1-Dichloroethane         ND         0.50         1         10/02/2015 20:48           1,2-Dichloroethane         ND         0.50         1         10/02/2015 20:48           1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:48           1,1-Dichloroethene         ND         0.50         1         10/02/2015 20:48           1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:48           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:48           1,2-Dichloropropane         ND	4-Chlorotoluene	ND		0.50	1	10/02/2015 20:48
1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 20:48           Dibromomethane         ND         0.50         1         10/02/2015 20:48           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           Dichlorodifluoromethane         ND         0.50         1         10/02/2015 20:48           1,1-Dichloroethane         ND         0.50         1         10/02/2015 20:48           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 20:48           1,1-Dichloroethene         ND         0.50         1         10/02/2015 20:48           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:48           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:48           1,2-Dichloropropane         ND         0.50         1         10/02/2015 20:48           1,3-Dichloropropane         ND         0.50         1         10/02/2015 20:48	Dibromochloromethane	ND		0.50	1	10/02/2015 20:48
Dibromomethane         ND         0.50         1         10/02/2015 20:48           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           Dichlorodifluoromethane         ND         0.50         1         10/02/2015 20:48           1,1-Dichloroethane         ND         0.50         1         10/02/2015 20:48           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 20:48           1,1-Dichloroethene         ND         0.50         1         10/02/2015 20:48           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:48           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:48           1,2-Dichloropropane         ND         0.50         1         10/02/2015 20:48           1,3-Dichloropropane         ND         0.50         1         10/02/2015 20:48           1,3-Dichloropropane         ND         0.50         1         10/02/2015 20:48	1,2-Dibromo-3-chloropropane	ND		0.20	1	10/02/2015 20:48
1,2-Dichlorobenzene       ND       0.50       1       10/02/2015 20:48         1,3-Dichlorobenzene       ND       0.50       1       10/02/2015 20:48         1,4-Dichlorobenzene       ND       0.50       1       10/02/2015 20:48         Dichlorodifluoromethane       ND       0.50       1       10/02/2015 20:48         1,1-Dichloroethane       ND       0.50       1       10/02/2015 20:48         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/02/2015 20:48         1,1-Dichloroethene       ND       0.50       1       10/02/2015 20:48         cis-1,2-Dichloroethene       ND       0.50       1       10/02/2015 20:48         trans-1,2-Dichloroethene       ND       0.50       1       10/02/2015 20:48         1,2-Dichloropropane       ND       0.50       1       10/02/2015 20:48         1,3-Dichloropropane       ND       0.50       1       10/02/2015 20:48	1,2-Dibromoethane (EDB)	ND		0.50	1	10/02/2015 20:48
1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 20:48           Dichlorodifluoromethane         ND         0.50         1         10/02/2015 20:48           1,1-Dichloroethane         ND         0.50         1         10/02/2015 20:48           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 20:48           1,1-Dichloroethene         ND         0.50         1         10/02/2015 20:48           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:48           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:48           1,2-Dichloropropane         ND         0.50         1         10/02/2015 20:48           1,3-Dichloropropane         ND         0.50         1         10/02/2015 20:48	Dibromomethane	ND		0.50	1	10/02/2015 20:48
1,4-Dichlorobenzene       ND       0.50       1       10/02/2015 20:48         Dichlorodifluoromethane       ND       0.50       1       10/02/2015 20:48         1,1-Dichloroethane       ND       0.50       1       10/02/2015 20:48         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/02/2015 20:48         1,1-Dichloroethene       ND       0.50       1       10/02/2015 20:48         cis-1,2-Dichloroethene       ND       0.50       1       10/02/2015 20:48         trans-1,2-Dichloroethene       ND       0.50       1       10/02/2015 20:48         1,2-Dichloropropane       ND       0.50       1       10/02/2015 20:48         1,3-Dichloropropane       ND       0.50       1       10/02/2015 20:48	1,2-Dichlorobenzene	ND		0.50	1	10/02/2015 20:48
Dichlorodifluoromethane         ND         0.50         1         10/02/2015 20:48           1,1-Dichloroethane         ND         0.50         1         10/02/2015 20:48           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 20:48           1,1-Dichloroethene         ND         0.50         1         10/02/2015 20:48           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:48           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:48           1,2-Dichloropropane         ND         0.50         1         10/02/2015 20:48           1,3-Dichloropropane         ND         0.50         1         10/02/2015 20:48	1,3-Dichlorobenzene	ND		0.50	1	10/02/2015 20:48
1,1-Dichloroethane       ND       0.50       1       10/02/2015 20:48         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/02/2015 20:48         1,1-Dichloroethene       ND       0.50       1       10/02/2015 20:48         cis-1,2-Dichloroethene       ND       0.50       1       10/02/2015 20:48         trans-1,2-Dichloroethene       ND       0.50       1       10/02/2015 20:48         1,2-Dichloropropane       ND       0.50       1       10/02/2015 20:48         1,3-Dichloropropane       ND       0.50       1       10/02/2015 20:48	1,4-Dichlorobenzene	ND		0.50	1	10/02/2015 20:48
1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/02/2015 20:48         1,1-Dichloroethene       ND       0.50       1       10/02/2015 20:48         cis-1,2-Dichloroethene       ND       0.50       1       10/02/2015 20:48         trans-1,2-Dichloroethene       ND       0.50       1       10/02/2015 20:48         1,2-Dichloropropane       ND       0.50       1       10/02/2015 20:48         1,3-Dichloropropane       ND       0.50       1       10/02/2015 20:48	Dichlorodifluoromethane	ND		0.50	1	10/02/2015 20:48
1,1-Dichloroethene         ND         0.50         1         10/02/2015 20:48           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:48           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:48           1,2-Dichloropropane         ND         0.50         1         10/02/2015 20:48           1,3-Dichloropropane         ND         0.50         1         10/02/2015 20:48	1,1-Dichloroethane	ND		0.50	1	10/02/2015 20:48
cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:48           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:48           1,2-Dichloropropane         ND         0.50         1         10/02/2015 20:48           1,3-Dichloropropane         ND         0.50         1         10/02/2015 20:48	1,2-Dichloroethane (1,2-DCA)	ND		0.50	1	10/02/2015 20:48
trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 20:48           1,2-Dichloropropane         ND         0.50         1         10/02/2015 20:48           1,3-Dichloropropane         ND         0.50         1         10/02/2015 20:48	1,1-Dichloroethene	ND		0.50	1	10/02/2015 20:48
1,2-Dichloropropane         ND         0.50         1         10/02/2015 20:48           1,3-Dichloropropane         ND         0.50         1         10/02/2015 20:48	cis-1,2-Dichloroethene	ND		0.50	1	10/02/2015 20:48
1,3-Dichloropropane ND 0.50 1 10/02/2015 20:48	trans-1,2-Dichloroethene	ND		0.50	1	10/02/2015 20:48
	1,2-Dichloropropane	ND		0.50	1	10/02/2015 20:48
2,2-Dichloropropane         ND         0.50         1         10/02/2015 20:48	1,3-Dichloropropane	ND		0.50	1	10/02/2015 20:48
	2,2-Dichloropropane	ND		0.50	1	10/02/2015 20:48

(Cont.)



## **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30 **Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
W-ECB2	1509A62-006B	Water	09/25/20	015 15:15 GC10	111091
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	Date Analyzed
1,1-Dichloropropene	ND		0.50	1	10/02/2015 20:48
cis-1,3-Dichloropropene	ND		0.50	1	10/02/2015 20:48
trans-1,3-Dichloropropene	ND		0.50	1	10/02/2015 20:48
Diisopropyl ether (DIPE)	ND		0.50	1	10/02/2015 20:48
Ethylbenzene	ND		0.50	1	10/02/2015 20:48
Ethyl tert-butyl ether (ETBE)	ND		0.50	1	10/02/2015 20:48
Freon 113	ND		0.50	1	10/02/2015 20:48
Hexachlorobutadiene	ND		0.50	1	10/02/2015 20:48
Hexachloroethane	ND		0.50	1	10/02/2015 20:48
2-Hexanone	ND		0.50	1	10/02/2015 20:48
Isopropylbenzene	ND		0.50	1	10/02/2015 20:48
4-Isopropyl toluene	ND		0.50	1	10/02/2015 20:48
Methyl-t-butyl ether (MTBE)	ND		0.50	1	10/02/2015 20:48
Methylene chloride	ND		0.50	1	10/02/2015 20:48
4-Methyl-2-pentanone (MIBK)	0.78		0.50	1	10/02/2015 20:48
Naphthalene	ND		0.50	1	10/02/2015 20:48
n-Propyl benzene	ND		0.50	1	10/02/2015 20:48
Styrene	ND		0.50	1	10/02/2015 20:48
1,1,1,2-Tetrachloroethane	ND		0.50	1	10/02/2015 20:48
1,1,2,2-Tetrachloroethane	ND		0.50	1	10/02/2015 20:48
Tetrachloroethene	ND		0.50	1	10/02/2015 20:48
Toluene	ND		0.50	1	10/02/2015 20:48
1,2,3-Trichlorobenzene	ND		0.50	1	10/02/2015 20:48
1,2,4-Trichlorobenzene	ND		0.50	1	10/02/2015 20:48
1,1,1-Trichloroethane	ND		0.50	1	10/02/2015 20:48
1,1,2-Trichloroethane	ND		0.50	1	10/02/2015 20:48
Trichloroethene	ND		0.50	1	10/02/2015 20:48
Trichlorofluoromethane	ND		0.50	1	10/02/2015 20:48
1,2,3-Trichloropropane	ND		0.50	1	10/02/2015 20:48
1,2,4-Trimethylbenzene	ND		0.50	1	10/02/2015 20:48
1,3,5-Trimethylbenzene	ND		0.50	1	10/02/2015 20:48
Vinyl Chloride	ND		0.50	1	10/02/2015 20:48
Xylenes, Total	ND		0.50	1	10/02/2015 20:48

# **Analytical Report**

Client: Essel Environmental Consulting

**Date Received:** 9/25/15 19:30 **Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC

**WorkOrder:** 1509A62

**Extraction Method:** SW5030B

Analytical Method: SW8260B

Unit:  $\mu g/L$ 

			·		
Client ID	Lab ID	Matrix	Date Collec	cted Instrument	Batch ID
W-ECB2	1509A62-006B	Water	09/25/2015 1	5:15 GC10	111091
Analytes	Result		<u>RL</u> D	<u>)F</u>	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	91		70-130		10/02/2015 20:48
Toluene-d8	84		70-130		10/02/2015 20:48
4-BFB	101		70-130		10/02/2015 20:48
Analyst(s): AK			Analytical Comment	ts: b1	



**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30 **Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

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

Marce   1509A62-007B   Water   09/25/2015 17:02   CG10   111091	Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
Acetone         12         10         1         10/03/2015 15:01           tert-Amyl methyl ether (TAME)         ND         0.50         1         10/03/2015 15:01           Benzene         ND         0.50         1         10/03/2015 15:01           Bromocheromethane         ND         0.50         1         10/03/2015 15:01           Bromochloromethane         ND         0.50         1         10/03/2015 15:01           Broth Tetrachloride         ND         0.50         1         10/03/2015 15:01           Bert-Butyl benzene         ND         0.50         1	W-ECB5	1509A62-007B	Water	09/25/20	015 17:02 GC10	111091
tert-Amyl methyl ether (TAME)         ND         0.50         1         10/03/2015 15:01           Benzene         ND         0.50         1         10/03/2015 15:01           Bromobenzene         ND         0.50         1         10/03/2015 15:01           Bromochloromethane         ND         0.50         1         10/03/2015 15:01           Bromodichloromethane         ND         0.50         1         10/03/2015 15:01           Bromoderim         ND         0.50         1         10/03/2015 15:01           Bromoderim         ND         0.50         1         10/03/2015 15:01           Bromomethane         ND         0.50         1         10/03/2015 15:01           Brotyl Brothere         0.92         0.50         1         10/03/2015 15:01	<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Benzene         ND         0.50         1         10/03/2015 15:01           Bromobenzene         ND         0.50         1         10/03/2015 15:01           Bromochloromethane         ND         0.50         1         10/03/2015 15:01           Bromochloromethane         ND         0.50         1         10/03/2015 15:01           Bromodichloromethane         ND         0.50         1         10/03/2015 15:01           Bromoderm         ND         0.50         1         10/03/2015 15:01           Browneam         0.92         0.50         1         10/03/2015 15:01           Bertalian	Acetone	12		10	1	10/03/2015 15:01
Bromobenzene         ND         0.50         1         10/03/2015 15:01           Bromochloromethane         ND         0.50         1         10/03/2015 15:01           Bromochloromethane         ND         0.50         1         10/03/2015 15:01           Bromoform         ND         0.50         1         10/03/2015 15:01           Bromomethane         ND         0.50         1         10/03/2015 15:01           Bromomethane         ND         0.50         1         10/03/2015 15:01           2-Butanone (MEK)         3.6         2.0         1         10/03/2015 15:01           1-Butyl alcohel (TBA)         ND         2.0         1         10/03/2015 15:01           1-Butyl benzene         0.92         0.50         1         10/03/2015 15:01           1-Butyl benzene         1.4         0.50         1         10/03/2015 15:01           1-Butyl benzene         ND         0.50         1         10/03/2015 15:01 </td <td>tert-Amyl methyl ether (TAME)</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td>10/03/2015 15:01</td>	tert-Amyl methyl ether (TAME)	ND		0.50	1	10/03/2015 15:01
Bromochloromethane         ND         0.50         1         10/03/2015 15:01           Bromodichloromethane         ND         0.50         1         10/03/2015 15:01           Bromoform         ND         0.50         1         10/03/2015 15:01           Bromomethane         ND         0.50         1         10/03/2015 15:01           2-Butanone (MEK)         3.6         2.0         1         10/03/2015 15:01           1-Butyl alcohol (TBA)         ND         2.0         1         10/03/2015 15:01           1-Butyl alcohol (TBA)         ND         2.0         1         10/03/2015 15:01           1-Butyl benzene         0.92         0.50         1         10/03/2015 15:01           1 sec-Butyl benzene         1.4         0.50         1         10/03/2015 15:01           1 sec-Butyl benzene         ND         0.50         1         10/03/2015 15:01           1 sec-Butyl benzene         ND         0.50         1         10/03/2015 15:01           1 sec-Butyl benzene         ND         0.50         1         10/03/2015 15:01           2 carbon Tetrachloride         ND         0.50         1         10/03/2015 15:01           Carbon Tetrachloride         ND         0.50	Benzene	ND		0.50	1	10/03/2015 15:01
Bromodichloromethane         ND         0.50         1         10/03/2015 15:01           Bromoform         ND         0.50         1         10/03/2015 15:01           Bromomethane         ND         0.50         1         10/03/2015 15:01           2-Butanone (MEK)         3.6         2.0         1         10/03/2015 15:01           t-Butyl alcohol (TBA)         ND         2.0         1         10/03/2015 15:01           t-Butyl benzene         0.92         0.50         1         10/03/2015 15:01           sec-Butyl benzene         1.4         0.50         1         10/03/2015 15:01           tert-Butyl benzene         ND         0.50         1         10/03/2015 15:01           Carbon Disulfide         ND         0.50         1         10/03/2015 15:01           Carbon Tetrachloride         ND         0.50         1         10/03/2015 15:01           Chlorothane         ND         0.50         1         10/03/2015 15:01           Chlorothane         ND         0.50         1         10/03/2015 15:01           Chlorotofuene         ND         0.50         1         10/03/2015 15:01           Chlorotofuene         ND         0.50         1         10/03/2015 15:	Bromobenzene	ND		0.50	1	10/03/2015 15:01
Bromoform         ND         0.50         1         10/03/2015 15:01           Brommethane         ND         0.50         1         10/03/2015 15:01           2-Butanone (MEK)         3.6         2.0         1         10/03/2015 15:01           Hautyl Lordon (TEA)         ND         2.0         1         10/03/2015 15:01           n-Butyl benzene         0.92         0.50         1         10/03/2015 15:01           sec-Butyl benzene         1.4         0.50         1         10/03/2015 15:01           tert-Butyl benzene         ND         0.50         1         10/03/2015 15:01           Carbon Disulfide         ND         0.50         1         10/03/2015 15:01           Carbon Tetrachloride         ND         0.50         1         10/03/2015 15:01           Chlorobenzene         ND         0.50         1         10/03/2015 15:01           Chlorothane         ND         0.50         1         10/03/2015 15:01           Chlorothane         ND         0.50         1         10/03/2015 15:01           Chlorotoluene         ND         0.50         1         10/03/2015 15:01           Chlorotoluene         ND         0.50         1         10/03/2015 15:01	Bromochloromethane	ND		0.50	1	10/03/2015 15:01
Bromomethane	Bromodichloromethane	ND		0.50	1	10/03/2015 15:01
2-Butanone (MEK)         3.6         2.0         1         10/03/2015 15:01           L-Butyl alcohol (TBA)         ND         2.0         1         10/03/2015 15:01           n-Butyl benzene         0.92         0.50         1         10/03/2015 15:01           sec-Butyl benzene         1.4         0.50         1         10/03/2015 15:01           tert-Butyl benzene         ND         0.50         1         10/03/2015 15:01           Carbon Disulfide         ND         0.50         1         10/03/2015 15:01           Carbon Disulfide         ND         0.50         1         10/03/2015 15:01           Carbon Tetrachloride         ND         0.50         1         10/03/2015 15:01           Chlorothane         ND         0.50         1         10/03/2015 15:01           Chlorotorm         ND         0.50         1         10/03/2015 15:01           Chlorotorm         ND         0.50         1         10/03/2015 15:01           Chlorotormethane         ND         0.50         1         10/03/2015 15:01           Chlorotoluene         ND         0.50         1         10/03/2015 15:01           Dibromochloromethane         ND         0.50         1         10/03/2	Bromoform	ND		0.50	1	10/03/2015 15:01
t-Butyl alcohol (TBA) ND 2.0 1 10/03/2015 15:01 n-Butyl benzene 0.92 0.50 1 10/03/2015 15:01 sec-Butyl benzene 1.4 0.50 1 10/03/2015 15:01 sec-Butyl benzene ND 0.50 1 10/03/2015 15:01 Carbon Disulfide ND 0.50 1 10/03/2015 15:01 Carbon Disulfide ND 0.50 1 10/03/2015 15:01 Carbon Tetrachloride ND 0.50 1 10/03/2015 15:01 Carbon Tetrachloride ND 0.50 1 10/03/2015 15:01 Chlorobenzene ND 0.50 1 10/03/2015 15:01 Chlorobenzene ND 0.50 1 10/03/2015 15:01 Chlorotethane ND 0.50 1 10/03/2015 15:01 Chlorotoluene ND 0.50 1 10/03/2015 15:	Bromomethane	ND		0.50	1	10/03/2015 15:01
n-Butyl benzene         0.92         0.50         1         10/03/2015 15:01           sec-Butyl benzene         1.4         0.50         1         10/03/2015 15:01           tert-Butyl benzene         ND         0.50         1         10/03/2015 15:01           Carbon Disulfide         ND         0.50         1         10/03/2015 15:01           Carbon Tetrachloride         ND         0.50         1         10/03/2015 15:01           Chlorobenzene         ND         0.50         1         10/03/2015 15:01           Chloroethane         ND         0.50         1         10/03/2015 15:01           4-Chlorotoluene         ND         0.50         1         10/03/2015 15:01           4-Chlorotoluene         ND         0.50         1         10/03/2015 15:01           1/2-Dibromo-Shoropropane         ND         0.50         1         10/03/2015 1	2-Butanone (MEK)	3.6		2.0	1	10/03/2015 15:01
sec-Butyl benzene         1.4         0.50         1         10/03/2015 15:01           tert-Butyl benzene         ND         0.50         1         10/03/2015 15:01           Carbon Disulfide         ND         0.50         1         10/03/2015 15:01           Carbon Tetrachloride         ND         0.50         1         10/03/2015 15:01           Chlorobenzene         ND         0.50         1         10/03/2015 15:01           Chloroethane         ND         0.50         1         10/03/2015 15:01           Chloroform         ND         0.50         1         10/03/2015 15:01           Chlorotofuren         ND         0.50         1         10/03/2015 15:01           Chlorotoluene         ND         0.50         1         10/03/2015 15:01           C-Chlorotoluene         ND         0.50         1         10/03/2015 15:01           4-Chlorotoluene         ND         0.50         1         10/03/2015 15:01           Dibromochloromethane         ND         0.50         1         10/03/2015 15:01           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 15:01           1,2-Dibromoethane (EDB)         ND         0.50         1 <td< td=""><td>t-Butyl alcohol (TBA)</td><td>ND</td><td></td><td>2.0</td><td>1</td><td>10/03/2015 15:01</td></td<>	t-Butyl alcohol (TBA)	ND		2.0	1	10/03/2015 15:01
tert-Buly benzene         ND         0.50         1         10/03/2015 15:01           Carbon Disulfide         ND         0.50         1         10/03/2015 15:01           Carbon Tetrachloride         ND         0.50         1         10/03/2015 15:01           Chlorobenzene         ND         0.50         1         10/03/2015 15:01           Chlorotethane         ND         0.50         1         10/03/2015 15:01           Chloroform         ND         0.50         1         10/03/2015 15:01           Chlorotethane         ND         0.50         1         10/03/2015 15:01           Chlorotoluene         ND         0.50         1         10/03/2015 15:01           2-Chlorotoluene         ND         0.50         1         10/03/2015 15:01           4-Chlorotoluene         ND         0.50         1         10/03/2015 15:01           2-Chloromoethane         ND         0.50         1         10/03/2015 15:01           1/2-Dibromoethane         ND         0.50         1         10/03/2015 15:01           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 15:01           1,2-Dibromoethane         ND         0.50         1         10/03/2015	n-Butyl benzene	0.92		0.50	1	10/03/2015 15:01
Carbon Disulfide         ND         0.50         1         10/03/2015 15:01           Carbon Tetrachloride         ND         0.50         1         10/03/2015 15:01           Chlorobenzene         ND         0.50         1         10/03/2015 15:01           Chloroethane         ND         0.50         1         10/03/2015 15:01           Chloroform         ND         0.50         1         10/03/2015 15:01           Chlorotolurene         ND         0.50         1         10/03/2015 15:01           2-Chlorotolurene         ND         0.50         1         10/03/2015 15:01           4-Chlorotolurene         ND         0.50         1         10/03/2015 15:01           1/2-Dibromoethane         ND         0.50         1         10/03/2015 15:01           1/2-Dibromoethane         (EDB)         ND         0.50         1         10/03/2015 15:01           1/2-Diblorobenzene         ND         0.50         1	sec-Butyl benzene	1.4		0.50	1	10/03/2015 15:01
Carbon Tetrachloride         ND         0.50         1         10/03/2015 15:01           Chlorobenzene         ND         0.50         1         10/03/2015 15:01           Chloroethane         ND         0.50         1         10/03/2015 15:01           Chloroform         ND         0.50         1         10/03/2015 15:01           Chloromethane         ND         0.50         1         10/03/2015 15:01           2-Chlorotoluene         ND         0.50         1         10/03/2015 15:01           4-Chlorotoluene         ND         0.50         1         10/03/2015 15:01           4-Chlorotoluene         ND         0.50         1         10/03/2015 15:01           1-Chlorotoluene         ND         0.50         1         10/03/2015 15:01	tert-Butyl benzene	ND		0.50	1	10/03/2015 15:01
Chlorobenzene         ND         0.50         1         10/03/2015 15:01           Chloroethane         ND         0.50         1         10/03/2015 15:01           Chloroform         ND         0.50         1         10/03/2015 15:01           Chlorotoluene         ND         0.50         1         10/03/2015 15:01           2-Chlorotoluene         ND         0.50         1         10/03/2015 15:01           4-Chlorotoluene         ND         0.50         1         10/03/2015 15:01           1/2-Dibromo-3-chloropropane         ND         0.50         1         10/03/2015 15:01           1/2-Dibromo-3-chloropropane         ND         0.50         1         10/03/2015 15:01           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 15:01           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           1,3-Dichlorobenzene         ND         0.50         1	Carbon Disulfide	ND		0.50	1	10/03/2015 15:01
Chloroethane         ND         0.50         1         10/03/2015 15:01           Chloroform         ND         0.50         1         10/03/2015 15:01           Chloromethane         ND         0.50         1         10/03/2015 15:01           2-Chlorotoluene         ND         0.50         1         10/03/2015 15:01           4-Chlorotoluene         ND         0.50         1         10/03/2015 15:01           4-Chlorotoluene         ND         0.50         1         10/03/2015 15:01           4-Chlorotoluene         ND         0.50         1         10/03/2015 15:01           Dibromochloromethane         ND         0.50         1         10/03/2015 15:01           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/03/2015 15:01           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 15:01           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 15:01           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           1,4-Dichloroethane         ND         0.50         1 </td <td>Carbon Tetrachloride</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td>10/03/2015 15:01</td>	Carbon Tetrachloride	ND		0.50	1	10/03/2015 15:01
Chloroform         ND         0.50         1         10/03/2015 15:01           Chloromethane         ND         0.50         1         10/03/2015 15:01           2-Chlorotoluene         ND         0.50         1         10/03/2015 15:01           4-Chlorotoluene         ND         0.50         1         10/03/2015 15:01           4-Chlorotoluene         ND         0.50         1         10/03/2015 15:01           1,2-Dibromochloromethane         ND         0.50         1         10/03/2015 15:01           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/03/2015 15:01           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 15:01           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           1,4-Dichlorodifluoromethane         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethane         ND         0.50         1         10/03/2015 15:01           1,2-Dichloroethane         ND         0.50 <td>Chlorobenzene</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td>10/03/2015 15:01</td>	Chlorobenzene	ND		0.50	1	10/03/2015 15:01
Chloromethane         ND         0.50         1         10/03/2015 15:01           2-Chlorotoluene         ND         0.50         1         10/03/2015 15:01           4-Chlorotoluene         ND         0.50         1         10/03/2015 15:01           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/03/2015 15:01           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/03/2015 15:01           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 15:01           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 15:01           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethane         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethane         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethane         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethene         ND         <	Chloroethane	ND		0.50	1	10/03/2015 15:01
2-Chlorotoluene         ND         0.50         1         10/03/2015 15:01           4-Chlorotoluene         ND         0.50         1         10/03/2015 15:01           Dibromochloromethane         ND         0.50         1         10/03/2015 15:01           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/03/2015 15:01           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 15:01           1,2-Dibrlomoethane         ND         0.50         1         10/03/2015 15:01           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethane         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethane         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethane         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethene         ND         0.5	Chloroform	ND		0.50	1	10/03/2015 15:01
4-Chlorotoluene         ND         0.50         1         10/03/2015 15:01           Dibromochloromethane         ND         0.50         1         10/03/2015 15:01           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/03/2015 15:01           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 15:01           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 15:01           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           1,4-Dichlorodifluoromethane         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethane         ND         0.50         1         10/03/2015 15:01           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethene         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethene         ND         0.50         1         10/03/2015 15:01           1,2-Dichloroethene         <	Chloromethane	ND		0.50	1	10/03/2015 15:01
Dibromochloromethane         ND         0.50         1         10/03/2015 15:01           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/03/2015 15:01           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 15:01           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethane         ND         0.50         1         10/03/2015 15:01           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethene         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethene         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethene         ND         0.50         1         10/03/2015 15:01           1,2-Dichloroethene         ND         0.50         1         10/03/2015 15:01           trans-1,2-Dichloroethene         N	2-Chlorotoluene	ND		0.50	1	10/03/2015 15:01
1,2-Dibromo-3-chloropropane         ND         0.20         1         10/03/2015 15:01           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 15:01           Dibromomethane         ND         0.50         1         10/03/2015 15:01           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           Dichlorodifluoromethane         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethane         ND         0.50         1         10/03/2015 15:01           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethene         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethene         ND         0.50         1         10/03/2015 15:01           1,2-Dichloroethene         ND         0.50         1         10/03/2015 15:01           1,2-Dichloropropane         ND         0.50         1         10/03/2015 15:01           1,3-Dichloropropane         ND	4-Chlorotoluene	ND		0.50	1	10/03/2015 15:01
1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 15:01           Dibromomethane         ND         0.50         1         10/03/2015 15:01           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           Dichlorodifluoromethane         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethane         ND         0.50         1         10/03/2015 15:01           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethene         ND         0.50         1         10/03/2015 15:01           cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 15:01           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 15:01           1,2-Dichloropropane         ND         0.50         1         10/03/2015 15:01           1,3-Dichloropropane         ND         0.50         1         10/03/2015 15:01	Dibromochloromethane	ND		0.50	1	10/03/2015 15:01
Dibromomethane         ND         0.50         1         10/03/2015 15:01           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           Dichlorodifluoromethane         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethane         ND         0.50         1         10/03/2015 15:01           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethene         ND         0.50         1         10/03/2015 15:01           cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 15:01           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 15:01           1,2-Dichloropropane         ND         0.50         1         10/03/2015 15:01           1,3-Dichloropropane         ND         0.50         1         10/03/2015 15:01	1,2-Dibromo-3-chloropropane	ND		0.20	1	10/03/2015 15:01
1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           Dichlorodifluoromethane         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethane         ND         0.50         1         10/03/2015 15:01           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethene         ND         0.50         1         10/03/2015 15:01           cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 15:01           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 15:01           1,2-Dichloropropane         ND         0.50         1         10/03/2015 15:01           1,3-Dichloropropane         ND         0.50         1         10/03/2015 15:01	1,2-Dibromoethane (EDB)	ND		0.50	1	10/03/2015 15:01
1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           Dichlorodifluoromethane         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethane         ND         0.50         1         10/03/2015 15:01           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethene         ND         0.50         1         10/03/2015 15:01           cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 15:01           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 15:01           1,2-Dichloropropane         ND         0.50         1         10/03/2015 15:01           1,3-Dichloropropane         ND         0.50         1         10/03/2015 15:01	Dibromomethane	ND		0.50	1	10/03/2015 15:01
1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 15:01           Dichlorodifluoromethane         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethane         ND         0.50         1         10/03/2015 15:01           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethene         ND         0.50         1         10/03/2015 15:01           cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 15:01           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 15:01           1,2-Dichloropropane         ND         0.50         1         10/03/2015 15:01           1,3-Dichloropropane         ND         0.50         1         10/03/2015 15:01	1,2-Dichlorobenzene	ND		0.50	1	10/03/2015 15:01
Dichlorodifluoromethane         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethane         ND         0.50         1         10/03/2015 15:01           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 15:01           1,1-Dichloroethane         ND         0.50         1         10/03/2015 15:01           cis-1,2-Dichloroethane         ND         0.50         1         10/03/2015 15:01           trans-1,2-Dichloroethane         ND         0.50         1         10/03/2015 15:01           1,2-Dichloropropane         ND         0.50         1         10/03/2015 15:01           1,3-Dichloropropane         ND         0.50         1         10/03/2015 15:01	1,3-Dichlorobenzene	ND		0.50	1	10/03/2015 15:01
1,1-Dichloroethane       ND       0.50       1       10/03/2015 15:01         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/03/2015 15:01         1,1-Dichloroethene       ND       0.50       1       10/03/2015 15:01         cis-1,2-Dichloroethene       ND       0.50       1       10/03/2015 15:01         trans-1,2-Dichloroethene       ND       0.50       1       10/03/2015 15:01         1,2-Dichloropropane       ND       0.50       1       10/03/2015 15:01         1,3-Dichloropropane       ND       0.50       1       10/03/2015 15:01	1,4-Dichlorobenzene	ND		0.50	1	10/03/2015 15:01
1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/03/2015 15:01         1,1-Dichloroethene       ND       0.50       1       10/03/2015 15:01         cis-1,2-Dichloroethene       ND       0.50       1       10/03/2015 15:01         trans-1,2-Dichloroethene       ND       0.50       1       10/03/2015 15:01         1,2-Dichloropropane       ND       0.50       1       10/03/2015 15:01         1,3-Dichloropropane       ND       0.50       1       10/03/2015 15:01	Dichlorodifluoromethane	ND		0.50	1	10/03/2015 15:01
1,1-Dichloroethene         ND         0.50         1         10/03/2015 15:01           cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 15:01           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 15:01           1,2-Dichloropropane         ND         0.50         1         10/03/2015 15:01           1,3-Dichloropropane         ND         0.50         1         10/03/2015 15:01	1,1-Dichloroethane	ND		0.50	1	10/03/2015 15:01
cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 15:01           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 15:01           1,2-Dichloropropane         ND         0.50         1         10/03/2015 15:01           1,3-Dichloropropane         ND         0.50         1         10/03/2015 15:01	1,2-Dichloroethane (1,2-DCA)	ND		0.50	1	10/03/2015 15:01
trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 15:01           1,2-Dichloropropane         ND         0.50         1         10/03/2015 15:01           1,3-Dichloropropane         ND         0.50         1         10/03/2015 15:01	1,1-Dichloroethene	ND		0.50	1	10/03/2015 15:01
1,2-Dichloropropane         ND         0.50         1         10/03/2015 15:01           1,3-Dichloropropane         ND         0.50         1         10/03/2015 15:01	cis-1,2-Dichloroethene	ND		0.50	1	10/03/2015 15:01
1,3-Dichloropropane         ND         0.50         1         10/03/2015 15:01	trans-1,2-Dichloroethene	ND		0.50	1	10/03/2015 15:01
1,3-Dichloropropane         ND         0.50         1         10/03/2015 15:01	1,2-Dichloropropane	ND		0.50	1	10/03/2015 15:01
2,2-Dichloropropane ND 0.50 1 10/03/2015 15:01	1,3-Dichloropropane	ND		0.50	1	
	2,2-Dichloropropane	ND		0.50	1	10/03/2015 15:01



# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30 **Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID
W-ECB5	1509A62-007B	Water	09/25/20	15 17:02 GC10	111091
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
1,1-Dichloropropene	ND		0.50	1	10/03/2015 15:01
cis-1,3-Dichloropropene	ND		0.50	1	10/03/2015 15:01
trans-1,3-Dichloropropene	ND		0.50	1	10/03/2015 15:01
Diisopropyl ether (DIPE)	ND		0.50	1	10/03/2015 15:01
Ethylbenzene	ND		0.50	1	10/03/2015 15:01
Ethyl tert-butyl ether (ETBE)	ND		0.50	1	10/03/2015 15:01
Freon 113	ND		0.50	1	10/03/2015 15:01
Hexachlorobutadiene	ND		0.50	1	10/03/2015 15:01
Hexachloroethane	ND		0.50	1	10/03/2015 15:01
2-Hexanone	ND		0.50	1	10/03/2015 15:01
Isopropylbenzene	1.1		0.50	1	10/03/2015 15:01
4-Isopropyl toluene	ND		0.50	1	10/03/2015 15:01
Methyl-t-butyl ether (MTBE)	ND		0.50	1	10/03/2015 15:01
Methylene chloride	ND		0.50	1	10/03/2015 15:01
4-Methyl-2-pentanone (MIBK)	ND		0.50	1	10/03/2015 15:01
Naphthalene	ND		0.50	1	10/03/2015 15:01
n-Propyl benzene	1.3		0.50	1	10/03/2015 15:01
Styrene	ND		0.50	1	10/03/2015 15:01
1,1,1,2-Tetrachloroethane	ND		0.50	1	10/03/2015 15:01
1,1,2,2-Tetrachloroethane	ND		0.50	1	10/03/2015 15:01
Tetrachloroethene	ND		0.50	1	10/03/2015 15:01
Toluene	ND		0.50	1	10/03/2015 15:01
1,2,3-Trichlorobenzene	ND		0.50	1	10/03/2015 15:01
1,2,4-Trichlorobenzene	ND		0.50	1	10/03/2015 15:01
1,1,1-Trichloroethane	ND		0.50	1	10/03/2015 15:01
1,1,2-Trichloroethane	ND		0.50	1	10/03/2015 15:01
Trichloroethene	ND		0.50	1	10/03/2015 15:01
Trichlorofluoromethane	ND		0.50	1	10/03/2015 15:01
1,2,3-Trichloropropane	ND		0.50	1	10/03/2015 15:01
1,2,4-Trimethylbenzene	0.62		0.50	1	10/03/2015 15:01
1,3,5-Trimethylbenzene	ND		0.50	1	10/03/2015 15:01
Vinyl Chloride	ND		0.50	1	10/03/2015 15:01
Xylenes, Total	0.56		0.50	1	10/03/2015 15:01

# **Analytical Report**

Client: Essel Environmental Consulting

**Date Received:** 9/25/15 19:30 **Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

**Unit:** μg/L

Client ID	Lab ID	Matrix	Date Collec	cted Instrument	Batch ID	
W-ECB5	1509A62-007B	1509A62-007B Water		7:02 GC10	111091	
<u>Analytes</u>	Result		<u>RL</u> <u>D</u>	<u>DF</u>	Date Analyzed	
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
Dibromofluoromethane	89		70-130		10/03/2015 15:01	
Toluene-d8	82		70-130		10/03/2015 15:01	
4-BFB	112		70-130		10/03/2015 15:01	
Analyst(s): AK			Analytical Comment	<u>ts:</u> b1		



**Client:** Essel Environmental Consulting

Date Received: 9/25/15 19:30

**Date Prepared:** 10/1/15-10/3/15 **Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

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

tert-Amyl methyl ether (TAME)         ND         0.50         1         10/02/2015 23:05           Benzane         ND         0.50         1         10/02/2015 23:05           Bromobenzene         ND         0.50         1         10/02/2015 23:05           Bromochloromethane         ND         0.50         1         10/02/2015 23:05           Bromodichloromethane         ND         0.50         1         10/02/2015 23:05           Bromomethane         ND         0.50         1         10/02/2015 23:05           Brown Displace         ND         0.50         1         10/02/2015 23:05           Brown Displace         ND         0.50         1         10/02/2015 23:05 <th>Client ID</th> <th>Lab ID</th> <th>Matrix</th> <th>Date C</th> <th>ollected</th> <th>Instrument</th> <th>Batch ID</th>	Client ID	Lab ID	Matrix	Date C	ollected	Instrument	Batch ID
Acetone	W-ECB6	1509A62-008B	Water	09/25/20	15 15:34	GC10	111091
tert-Amyl methyl ether (TAME)         ND         0.50         1         10/02/2015 23:05           Benzene         ND         0.50         1         10/02/2015 23:05           Bromobenzene         ND         0.50         1         10/02/2015 23:05           Bromochloromethane         ND         0.50         1         10/02/2015 23:05           Bromodichloromethane         ND         0.50         1         10/02/2015 23:05           Brown District         ND         0.50         1         10/02/2015 23:05           Leth-Butyl Benzene         ND         0.50	<u>Analytes</u>	Result		<u>RL</u>	DF		Date Analyzed
Benzene         ND         0.50         1         10/02/2015 23:05           Bromobenzene         ND         0.50         1         10/02/2015 23:05           Bromochloromethane         ND         0.50         1         10/02/2015 23:05           Bromoclichloromethane         ND         0.50         1         10/02/2015 23:05           Bromoferm         ND         0.50         1         10/02/2015 23:05           Bromomethane         ND         0.50         1         10/02/2015 23:05           Bromomethane         ND         0.50         1         10/02/2015 23:05           2-Butanone (MEK)         ND         0.50         1         10/02/2015 23:05           1-Butyl alcohol (TBA)         ND         2.0         1         10/02/2015 23:05           1-Butyl benzene         ND         0.50         1         10/02/2015 23:05	Acetone	ND		10	1		10/02/2015 23:05
Bromobenzene         ND         0.50         1         10/02/2015 23:05           Bromochloromethane         ND         0.50         1         10/02/2015 23:05           Bromodichloromethane         ND         0.50         1         10/02/2015 23:05           Bromoform         ND         0.50         1         10/02/2015 23:05           Bromomethane         ND         0.50         1         10/02/2015 23:05           Bromomethane         ND         0.50         1         10/02/2015 23:05           2-Butanone (MEK)         ND         2.0         1         10/02/2015 23:05           1-Butyl alcohol (TBA)         ND         2.0         1         10/02/2015 23:05           1-Butyl benzene         ND         0.50         1         10/02/2015 23:05           8ce-Butyl benzene         ND         0.50         1         10/02/2015 23:05           8ce-Butyl benzene         ND         0.50         1         10/02/2015 23:05           Carbon Tetrachloride         ND         0.50         1         10/02/2015 23:05           Carbon Tetrachloride         ND         0.50         1         10/02/2015 23:05           Chlorothane         ND         0.50         1         10/02/2015	tert-Amyl methyl ether (TAME)	ND		0.50	1		10/02/2015 23:05
Bromochloromethane         ND         0.50         1         10/02/2015 23:05           Bromodichloromethane         ND         0.50         1         10/02/2015 23:05           Bromoform         ND         0.50         1         10/02/2015 23:05           Bromomethane         ND         0.50         1         10/02/2015 23:05           2-Butanone (MEK)         ND         2.0         1         10/02/2015 23:05           1-Butyl alcohol (TBA)         ND         2.0         1         10/02/2015 23:05           1-Butyl alcohol (TBA)         ND         0.50         1         10/02/2015 23:05           1-Butyl benzene         ND         0.50         1         10/02/2015 23:05           1 sec-Butyl benzene         ND         0.50         1         10/02/2015 23:05           1 sec-Butyl benzene         ND         0.50         1         10/02/2015 23:05           1 sec-Butyl benzene         ND         0.50         1         10/02/2015 23:05           1 cer-Butyl benzene         ND         0.50         1         10/02/2015 23:05           Carbon Tetrachloride         ND         0.50         1         10/02/2015 23:05           Carbon Tetrachloride         ND         0.50         1	Benzene	ND		0.50	1		10/02/2015 23:05
Bromodichloromethane         ND         0.50         1         10/02/2015 23:05           Bromoform         ND         0.50         1         10/02/2015 23:05           Bromomethane         ND         0.50         1         10/02/2015 23:05           Bromomethane         ND         0.50         1         10/02/2015 23:05           t-Butyl alcohol (TBA)         ND         2.0         1         10/02/2015 23:05           t-Butyl benzene         ND         0.50         1         10/02/2015 23:05           sec-Butyl benzene         ND         0.50         1         10/02/2015 23:05           sec-Butyl benzene         ND         0.50         1         10/02/2015 23:05           Sec-Butyl benzene         ND         0.50         1         10/02/2015 23:05           Carbon Disulfide         ND         0.50         1         10/02/201	Bromobenzene	ND		0.50	1		10/02/2015 23:05
Bromoform         ND         0.50         1         10/02/2015 23:05           Brommethane         ND         0.50         1         10/02/2015 23:05           2-Butanone (MEK)         ND         2.0         1         10/02/2015 23:05           E-Butyl cohol (TEA)         ND         2.0         1         10/02/2015 23:05           n-Butyl benzene         ND         0.50         1         10/02/2015 23:05           sec-Butyl benzene         ND         0.50         1         10/02/2015 23:05           sec-Butyl benzene         ND         0.50         1         10/02/2015 23:05           Carbon Disulfide         ND         0.50         1         10/02/2015 23:05           Carbon Disulfide         ND         0.50         1         10/02/2015 23:05           Carbon Tetrachloride         ND         0.50         1         10/02/2015 23:05           Chlorobenzene         ND         0.50         1         10/02/2015 23:05           Chlorothane         ND         0.50         1         10/02/2015 23:05           Chlorothane         ND         0.50         1         10/02/2015 23:05           Chlorotoluene         ND         0.50         1         10/02/2015 23:05	Bromochloromethane	ND		0.50	1		10/02/2015 23:05
Bromomethane   ND	Bromodichloromethane	ND		0.50	1		10/02/2015 23:05
2-Butanone (MEK)         ND         2.0         1         10/02/2015 23:05           t-Butyl alcohol (TBA)         ND         2.0         1         10/02/2015 23:05           n-Butyl benzene         ND         0.50         1         10/02/2015 23:05           sec-Butyl benzene         ND         0.50         1         10/02/2015 23:05           tert-Butyl benzene         ND         0.50         1         10/02/2015 23:05           Carbon Disulfide         ND         0.50         1         10/02/2015 23:05           Carbon Tetrachloride         ND         0.50         1         10/02/2015 23:05           Chlorothane         ND         0.50         1         10/02/2015 23:05           Chlorotoluene         ND         0.50         1         10/02/2015 23:05           Chlorotoluene         ND         0.50         1         10/02/2015 23:05	Bromoform	ND		0.50	1		10/02/2015 23:05
t-Butyl alcohol (TBA) ND 2.0 1 10/02/2015 23:05 sec-Butyl benzene ND 0.50 1 10/02/2015 23:05 sec-Butyl benzene ND 0.50 1 10/02/2015 23:05 sec-Butyl benzene ND 0.50 1 10/02/2015 23:05 Carbon Disulfide ND 0.50 1 10/02/2015 23:05 Carbon Disulfide ND 0.50 1 10/02/2015 23:05 Carbon Disulfide ND 0.50 1 10/02/2015 23:05 Carbon Tetrachloride ND 0.50 1 10/02/2015 23:05 Carbon Tetrachloride ND 0.50 1 10/02/2015 23:05 Chlorobenzene ND 0.50 1 10/02/2015 23:05 Chlorobenzene ND 0.50 1 10/02/2015 23:05 Chlorotethane ND 0.50 1 10/02/2015 23:05 Chlorotoluene ND 0.50 1 10/02/2015 23:05 1 10/02/2015	Bromomethane	ND		0.50	1		10/02/2015 23:05
n-Butyl benzene         ND         0.50         1         10/02/2015 23:05           sec-Butyl benzene         ND         0.50         1         10/02/2015 23:05           sec-Butyl benzene         ND         0.50         1         10/02/2015 23:05           Carbon Disulfide         ND         0.50         1         10/02/2015 23:05           Carbon Tetrachloride         ND         0.50         1         10/02/2015 23:05           Chiorobenzene         ND         0.50         1         10/02/2015 23:05           Chiorobetane         ND         0.50         1         10/02/2015 23:05           Chiorotethane         ND         0.50         1         10/02/2015 23:05           Chioromethane         ND         0.50         1         10/02/2015 23:05           Chlorotoluene         ND         0.50         1         10/02/2015 23:05           4-Chlorotoluene         ND         0.50         1         10/02/2015 23:05           4-Chlorotoluene         ND         0.50         1         10/02/2015 23:05           4-Chlorotoluene         ND         0.50         1         10/02/2015 23:05           1/2-Dibromo-Alloropropane         ND         0.50         1         10/02/201	2-Butanone (MEK)	ND		2.0	1		10/02/2015 23:05
sec-Butyl benzene         ND         0.50         1         10/02/2015 23:05           tert-Butyl benzene         ND         0.50         1         10/02/2015 23:05           Carbon Disulfide         ND         0.50         1         10/02/2015 23:05           Carbon Tetrachloride         ND         0.50         1         10/02/2015 23:05           Chlorobenzene         ND         0.50         1         10/02/2015 23:05           Chlorotethane         ND         0.50         1         10/02/2015 23:05           Chloroform         ND         0.50         1         10/02/2015 23:05           Chlorotethane         ND         0.50         1         10/02/2015 23:05           4-Chlorotoluene         ND         0.50         1         10/02/2015 23:05           1,2-Dibromoethane         ND         0.50         1         10/02/2015 23:05	t-Butyl alcohol (TBA)	ND		2.0	1		10/02/2015 23:05
tert-Butyl benzene         ND         0.50         1         10/02/2015 23:05           Carbon Disulfide         ND         0.50         1         10/02/2015 23:05           Carbon Tetrachloride         ND         0.50         1         10/02/2015 23:05           Chlorobenzene         ND         0.50         1         10/02/2015 23:05           Chlorobenzene         ND         0.50         1         10/02/2015 23:05           Chloroform         ND         0.50         1         10/02/2015 23:05           Chloroform         ND         0.50         1         10/02/2015 23:05           Chlorotoluene         ND         0.50         1         10/02/2015 23:05           2-Chlorotoluene         ND         0.50         1         10/02/2015 23:05           4-Chlorotoluene         ND         0.50         1         10/02/2015 23:05           4-Chlorotoluene         ND         0.50         1         10/02/2015 23:05           4-Chlorotoluene         ND         0.50         1         10/02/2015 23:05           1,2-Dibromochloromethane         ND         0.50         1         10/02/2015 23:05           1,2-Dibromochloromethane         ND         0.20         1         10/02/2	n-Butyl benzene	ND		0.50	1		10/02/2015 23:05
Carbon Disulfide         ND         0.50         1         10/02/2015 23:05           Carbon Tetrachloride         ND         0.50         1         10/02/2015 23:05           Chlorobenzene         ND         0.50         1         10/02/2015 23:05           Chloroethane         ND         0.50         1         10/02/2015 23:05           Chloroform         ND         0.50         1         10/02/2015 23:05           Chlorotolure         ND         0.50         1         10/02/2015 23:05           Chlorotolure         ND         0.50         1         10/02/2015 23:05           4-Chlorotolure         ND         0.50         1         10/02/2015 23:05           Dibromochloromethane         ND         0.50         1         10/02/2015 23:05           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 23:05           Dibromomethane         ND         0.50         1         10/02/2015 23:05 <td>sec-Butyl benzene</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td></td> <td>10/02/2015 23:05</td>	sec-Butyl benzene	ND		0.50	1		10/02/2015 23:05
Carbon Tetrachloride         ND         0.50         1         10/02/2015 23:05           Chlorobenzene         ND         0.50         1         10/02/2015 23:05           Chloroethane         ND         0.50         1         10/02/2015 23:05           Chloroform         ND         0.50         1         10/02/2015 23:05           Chloromethane         ND         0.50         1         10/02/2015 23:05           C-Chlorotoluene         ND         0.50         1         10/02/2015 23:05           4-Chlorotoluene         ND         0.50         1         10/02/2015 23:05           4-Chlorotoluene         ND         0.50         1         10/02/2015 23:05           Dibromochloromethane         ND         0.50         1         10/02/2015 23:05           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/02/2015 23:05           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 23:05           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,4-Dichlorobenzene         ND         0.50         1	tert-Butyl benzene	ND		0.50	1		10/02/2015 23:05
Chlorobenzene         ND         0.50         1         10/02/2015 23:05           Chloroethane         ND         0.50         1         10/02/2015 23:05           Chloroform         ND         0.50         1         10/02/2015 23:05           Chloromethane         ND         0.50         1         10/02/2015 23:05           2-Chlorotoluene         ND         0.50         1         10/02/2015 23:05           4-Chlorotoluene         ND         0.50         1         10/02/2015 23:05           Dibromochloromethane         ND         0.50         1         10/02/2015 23:05           Dibromochloromethane (EDB)         ND         0.50         1         10/02/2015 23:05           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,4-Dichloroethane         ND         0.50         1         10/	Carbon Disulfide	ND		0.50	1		10/02/2015 23:05
Chloroethane         ND         0.50         1         10/02/2015 23:05           Chloroform         ND         0.50         1         10/02/2015 23:05           Chloromethane         ND         0.50         1         10/02/2015 23:05           2-Chlorotoluene         ND         0.50         1         10/02/2015 23:05           4-Chlorotoluene         ND         0.50         1         10/02/2015 23:05           Dibromochloromethane         ND         0.50         1         10/02/2015 23:05           Dibromochloromethane         ND         0.50         1         10/02/2015 23:05           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/02/2015 23:05           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 23:05           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 23:05           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,1-Dichloroethane         ND         0.50	Carbon Tetrachloride	ND		0.50	1		10/02/2015 23:05
Chloroform         ND         0.50         1         10/02/2015 23:05           Chloromethane         ND         0.50         1         10/02/2015 23:05           2-Chlorotoluene         ND         0.50         1         10/02/2015 23:05           4-Chlorotoluene         ND         0.50         1         10/02/2015 23:05           4-Chlorotoluene         ND         0.50         1         10/02/2015 23:05           Dibromochloromethane         ND         0.50         1         10/02/2015 23:05           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/02/2015 23:05           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 23:05           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,1-Dichlorodifluoromethane         ND         0.50         1         10/02/2015 23:05           1,1-Dichloroethane         ND         0.50         1         10/02/2015 23:05           1,1-Dichloroethane         ND         0.50	Chlorobenzene	ND		0.50	1		10/02/2015 23:05
Chloromethane         ND         0.50         1         10/02/2015 23:05           2-Chlorotoluene         ND         0.50         1         10/02/2015 23:05           4-Chlorotoluene         ND         0.50         1         10/02/2015 23:05           Dibromochloromethane         ND         0.50         1         10/02/2015 23:05           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/02/2015 23:05           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 23:05           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 23:05           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,1-Dichloroethane         ND         0.50         1         10/02/2015 23:05           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 23:05           1,1-Dichloroethene         ND	Chloroethane	ND		0.50	1		10/02/2015 23:05
2-Chlorotoluene         ND         0.50         1         10/02/2015 23:05           4-Chlorotoluene         ND         0.50         1         10/02/2015 23:05           Dibromochloromethane         ND         0.50         1         10/02/2015 23:05           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/02/2015 23:05           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 23:05           1,2-Dibrlomoethane         ND         0.50         1         10/02/2015 23:05           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,1-Dichloroethane         ND         0.50         1         10/02/2015 23:05           1,1-Dichloroethane         ND         0.50         1         10/02/2015 23:05           1,1-Dichloroethane         ND         0.50         1         10/02/2015 23:05           1,1-Dichloroethene         ND         0.5	Chloroform	ND		0.50	1		10/02/2015 23:05
4-Chlorotoluene         ND         0.50         1         10/02/2015 23:05           Dibromochloromethane         ND         0.50         1         10/02/2015 23:05           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/02/2015 23:05           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 23:05           Dibromomethane         ND         0.50         1         10/02/2015 23:05           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,4-Dichlorodifluoromethane         ND         0.50         1         10/02/2015 23:05           1,1-Dichloroethane         ND         0.50         1         10/02/2015 23:05           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 23:05           1,1-Dichloroethene         ND         0.50         1         10/02/2015 23:05           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 23:05           trans-1,2-Dichloroethene	Chloromethane	ND		0.50	1		10/02/2015 23:05
Dibromochloromethane         ND         0.50         1         10/02/2015 23:05           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/02/2015 23:05           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 23:05           Dibromomethane         ND         0.50         1         10/02/2015 23:05           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,1-Dichloroethane         ND         0.50         1         10/02/2015 23:05           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 23:05           1,1-Dichloroethene         ND         0.50         1         10/02/2015 23:05           1,1-Dichloroethene         ND         0.50         1         10/02/2015 23:05           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 23:05           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 23:05           1,2-Dichloropropane         N	2-Chlorotoluene	ND		0.50	1		10/02/2015 23:05
1,2-Dibromo-3-chloropropane         ND         0.20         1         10/02/2015 23:05           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 23:05           Dibromomethane         ND         0.50         1         10/02/2015 23:05           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           Dichlorodifluoromethane         ND         0.50         1         10/02/2015 23:05           1,1-Dichloroethane         ND         0.50         1         10/02/2015 23:05           1,2-Dichloroethane         ND         0.50         1         10/02/2015 23:05           1,1-Dichloroethene         ND         0.50         1         10/02/2015 23:05           1,2-Dichloroethene         ND         0.50         1         10/02/2015 23:05           1,2-Dichloropropane         ND         0.50         1         10/02/2015 23:05           1,3-Dichloropropane         ND	4-Chlorotoluene	ND		0.50	1		10/02/2015 23:05
1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 23:05           Dibromomethane         ND         0.50         1         10/02/2015 23:05           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           Dichlorodifluoromethane         ND         0.50         1         10/02/2015 23:05           1,1-Dichloroethane         ND         0.50         1         10/02/2015 23:05           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 23:05           1,1-Dichloroethene         ND         0.50         1         10/02/2015 23:05           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 23:05           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 23:05           1,2-Dichloropropane         ND         0.50         1         10/02/2015 23:05           1,3-Dichloropropane         ND         0.50         1         10/02/2015 23:05	Dibromochloromethane	ND		0.50	1		10/02/2015 23:05
Dibromomethane         ND         0.50         1         10/02/2015 23:05           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           Dichlorodifluoromethane         ND         0.50         1         10/02/2015 23:05           1,1-Dichloroethane         ND         0.50         1         10/02/2015 23:05           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 23:05           1,1-Dichloroethene         ND         0.50         1         10/02/2015 23:05           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 23:05           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 23:05           1,2-Dichloropropane         ND         0.50         1         10/02/2015 23:05           1,3-Dichloropropane         ND         0.50         1         10/02/2015 23:05	1,2-Dibromo-3-chloropropane	ND		0.20	1		10/02/2015 23:05
1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           Dichlorodifluoromethane         ND         0.50         1         10/02/2015 23:05           1,1-Dichloroethane         ND         0.50         1         10/02/2015 23:05           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 23:05           1,1-Dichloroethene         ND         0.50         1         10/02/2015 23:05           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 23:05           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 23:05           1,2-Dichloropropane         ND         0.50         1         10/02/2015 23:05           1,3-Dichloropropane         ND         0.50         1         10/02/2015 23:05	1,2-Dibromoethane (EDB)	ND		0.50	1		10/02/2015 23:05
1,3-Dichlorobenzene       ND       0.50       1       10/02/2015 23:05         1,4-Dichlorobenzene       ND       0.50       1       10/02/2015 23:05         Dichlorodifluoromethane       ND       0.50       1       10/02/2015 23:05         1,1-Dichloroethane       ND       0.50       1       10/02/2015 23:05         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/02/2015 23:05         1,1-Dichloroethene       ND       0.50       1       10/02/2015 23:05         cis-1,2-Dichloroethene       ND       0.50       1       10/02/2015 23:05         trans-1,2-Dichloroethene       ND       0.50       1       10/02/2015 23:05         1,2-Dichloropropane       ND       0.50       1       10/02/2015 23:05         1,3-Dichloropropane       ND       0.50       1       10/02/2015 23:05	Dibromomethane	ND		0.50	1		10/02/2015 23:05
1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 23:05           Dichlorodifluoromethane         ND         0.50         1         10/02/2015 23:05           1,1-Dichloroethane         ND         0.50         1         10/02/2015 23:05           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 23:05           1,1-Dichloroethene         ND         0.50         1         10/02/2015 23:05           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 23:05           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 23:05           1,2-Dichloropropane         ND         0.50         1         10/02/2015 23:05           1,3-Dichloropropane         ND         0.50         1         10/02/2015 23:05	1,2-Dichlorobenzene	ND		0.50	1		10/02/2015 23:05
Dichlorodifluoromethane         ND         0.50         1         10/02/2015 23:05           1,1-Dichloroethane         ND         0.50         1         10/02/2015 23:05           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 23:05           1,1-Dichloroethene         ND         0.50         1         10/02/2015 23:05           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 23:05           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 23:05           1,2-Dichloropropane         ND         0.50         1         10/02/2015 23:05           1,3-Dichloropropane         ND         0.50         1         10/02/2015 23:05	1,3-Dichlorobenzene	ND		0.50	1		10/02/2015 23:05
1,1-Dichloroethane       ND       0.50       1       10/02/2015 23:05         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/02/2015 23:05         1,1-Dichloroethene       ND       0.50       1       10/02/2015 23:05         cis-1,2-Dichloroethene       ND       0.50       1       10/02/2015 23:05         trans-1,2-Dichloroethene       ND       0.50       1       10/02/2015 23:05         1,2-Dichloropropane       ND       0.50       1       10/02/2015 23:05         1,3-Dichloropropane       ND       0.50       1       10/02/2015 23:05	1,4-Dichlorobenzene	ND		0.50	1		10/02/2015 23:05
1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/02/2015 23:05         1,1-Dichloroethene       ND       0.50       1       10/02/2015 23:05         cis-1,2-Dichloroethene       ND       0.50       1       10/02/2015 23:05         trans-1,2-Dichloroethene       ND       0.50       1       10/02/2015 23:05         1,2-Dichloropropane       ND       0.50       1       10/02/2015 23:05         1,3-Dichloropropane       ND       0.50       1       10/02/2015 23:05	Dichlorodifluoromethane	ND		0.50	1		10/02/2015 23:05
1,1-Dichloroethene         ND         0.50         1         10/02/2015 23:05           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 23:05           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 23:05           1,2-Dichloropropane         ND         0.50         1         10/02/2015 23:05           1,3-Dichloropropane         ND         0.50         1         10/02/2015 23:05	1,1-Dichloroethane	ND		0.50	1		10/02/2015 23:05
cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 23:05           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 23:05           1,2-Dichloropropane         ND         0.50         1         10/02/2015 23:05           1,3-Dichloropropane         ND         0.50         1         10/02/2015 23:05	1,2-Dichloroethane (1,2-DCA)	ND		0.50	1		10/02/2015 23:05
trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 23:05           1,2-Dichloropropane         ND         0.50         1         10/02/2015 23:05           1,3-Dichloropropane         ND         0.50         1         10/02/2015 23:05	1,1-Dichloroethene	ND		0.50	1		10/02/2015 23:05
1,2-Dichloropropane         ND         0.50         1         10/02/2015 23:05           1,3-Dichloropropane         ND         0.50         1         10/02/2015 23:05	cis-1,2-Dichloroethene	ND		0.50	1		10/02/2015 23:05
1,3-Dichloropropane ND 0.50 1 10/02/2015 23:05	trans-1,2-Dichloroethene	ND		0.50	1		10/02/2015 23:05
	1,2-Dichloropropane	ND		0.50	1		10/02/2015 23:05
2,2-Dichloropropane         ND         0.50         1         10/02/2015 23:05	1,3-Dichloropropane	ND		0.50	1		10/02/2015 23:05
	2,2-Dichloropropane	ND		0.50	1		10/02/2015 23:05



# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30 **Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID
W-ECB6	1509A62-008B	Water	09/25/20	15 15:34 GC10	111091
<u>Analytes</u>	Result		<u>RL</u>	DF	Date Analyzed
1,1-Dichloropropene	ND		0.50	1	10/02/2015 23:05
cis-1,3-Dichloropropene	ND		0.50	1	10/02/2015 23:05
trans-1,3-Dichloropropene	ND		0.50	1	10/02/2015 23:05
Diisopropyl ether (DIPE)	ND		0.50	1	10/02/2015 23:05
Ethylbenzene	ND		0.50	1	10/02/2015 23:05
Ethyl tert-butyl ether (ETBE)	ND		0.50	1	10/02/2015 23:05
Freon 113	ND		0.50	1	10/02/2015 23:05
Hexachlorobutadiene	ND		0.50	1	10/02/2015 23:05
Hexachloroethane	ND		0.50	1	10/02/2015 23:05
2-Hexanone	ND		0.50	1	10/02/2015 23:05
Isopropylbenzene	ND		0.50	1	10/02/2015 23:05
4-Isopropyl toluene	ND		0.50	1	10/02/2015 23:05
Methyl-t-butyl ether (MTBE)	ND		0.50	1	10/02/2015 23:05
Methylene chloride	ND		0.50	1	10/02/2015 23:05
4-Methyl-2-pentanone (MIBK)	ND		0.50	1	10/02/2015 23:05
Naphthalene	ND		0.50	1	10/02/2015 23:05
n-Propyl benzene	ND		0.50	1	10/02/2015 23:05
Styrene	ND		0.50	1	10/02/2015 23:05
1,1,1,2-Tetrachloroethane	ND		0.50	1	10/02/2015 23:05
1,1,2,2-Tetrachloroethane	ND		0.50	1	10/02/2015 23:05
Tetrachloroethene	ND		0.50	1	10/02/2015 23:05
Toluene	ND		0.50	1	10/02/2015 23:05
1,2,3-Trichlorobenzene	ND		0.50	1	10/02/2015 23:05
1,2,4-Trichlorobenzene	ND		0.50	1	10/02/2015 23:05
1,1,1-Trichloroethane	ND		0.50	1	10/02/2015 23:05
1,1,2-Trichloroethane	ND		0.50	1	10/02/2015 23:05
Trichloroethene	ND		0.50	1	10/02/2015 23:05
Trichlorofluoromethane	ND		0.50	1	10/02/2015 23:05
1,2,3-Trichloropropane	ND		0.50	1	10/02/2015 23:05
1,2,4-Trimethylbenzene	ND		0.50	1	10/02/2015 23:05
1,3,5-Trimethylbenzene	ND		0.50	1	10/02/2015 23:05
Vinyl Chloride	ND		0.50	1	10/02/2015 23:05
Xylenes, Total	ND		0.50	1	10/02/2015 23:05

# **Analytical Report**

**Client: Essel Environmental Consulting** 

WorkOrder: 1509A62 **Date Received:** 9/25/15 19:30 **Extraction Method: SW5030B Date Prepared:** 10/1/15-10/3/15 **Analytical Method: SW8260B** 

**Project:** 15166; EBALDC Unit: μg/L

Client ID	Lab ID I	Matrix Date Collected Instrument	Batch ID
W-ECB6		Nater 09/25/2015 15:34 GC10	111091
Analytes	Result	<u>RL</u> <u>DF</u>	Date Analyzed
Surrogates	REC (%)	<u>Limits</u>	
Dibromofluoromethane	90	70-130	10/02/2015 23:05
Toluene-d8	84	70-130	10/02/2015 23:05
4-BFB	101	70-130	10/02/2015 23:05
Analyst(s): AK		Analytical Comments: b1	



**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 10/1/15-10/3/15 **Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

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

Marce   Marc	Client ID	Lab ID	Matrix	Date C	collected Instrument	Batch ID
Acetone         14         10         1         10/03/2015 19:11           tert-Mryll methyl either (TAME)         ND         0.50         1         10/03/2015 19:11           Benzene         ND         0.50         1         10/03/2015 19:11           Bromochbromethane         ND         0.50         1         10/03/2015 19:11           Bromochbromethane         ND         0.50         1         10/03/2015 19:11           Bromofich (Temperature)         ND         0.50         1         10/03/2015 19:11           Bromofich (Temperature)         ND         0.50         1         10/03/2015 19:11           Bromomethane         0.59         0.50         1         10/03/2015 19:11           Butyl alcohol (TBA)         ND         0.50         1         10/03/2015 19:11           Butyl benzene         ND         0.50         1         10/	W-ECB7	1509A62-009B	Water	09/25/20	015 17:16 GC16	111088
tert-Amyl methyl ether (TAME)         ND         0.50         1         10/03/2015 19:11           Benzene         ND         0.50         1         10/03/2015 19:11           Bromobenzene         ND         0.50         1         10/03/2015 19:11           Bromochloromethane         ND         0.50         1         10/03/2015 19:11           Bromodrichloromethane         ND         0.50         1         10/03/2015 19:11           Bromodrichloromethane         ND         0.50         1         10/03/2015 19:11           Bromodrichloromethane         0.59         0.50         1         10/03/2015 19:11           Bromodrichloromethane         0.50         1         10/03/2015 19:11           Brown Discolate         ND         0.50         1         10/03/2015 19:11           Bectyl Denzene         ND         0.50         1         10/03/2015 19:11           Carbon Disulfide         ND         0.50         1	Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Benzene         ND         0.50         1         10/03/2015 19:11           Bromochloromethane         ND         0.50         1         10/03/2015 19:11           Bromochloromethane         ND         0.50         1         10/03/2015 19:11           Bromodichloromethane         ND         0.50         1         10/03/2015 19:11           Bromoderm         ND         0.50         1         10/03/2015 19:11           Bromomethane         0.59         0.50         1         10/03/2015 19:11           2-Butanone (MEK)         3.8         2.0         1         10/03/2015 19:11           2-Butanone (MEK)         3.8         2.0         1         10/03/2015 19:11           1-Butyl alcohol (TBA)         ND         2.0         1         10/03/2015 19:11           1-Butyl benzene         ND         0.50         1         10/03/2015 19:11           1-Butyl benzene         ND         0.50         1         10/03/2015 19:11           tert-Butyl benzene         ND         0.50         1         10/03/2015 19:11           tert-Butyl benzene         ND         0.50         1         10/03/2015 19:11           tert-Butyl benzene         ND         0.50         1         10/03/	Acetone	14		10	1	10/03/2015 19:11
Bromobenzene         ND         0.50         1         10/03/2015 19:11           Bromochloromethane         ND         0.50         1         10/03/2015 19:11           Bromodiohromethane         ND         0.50         1         10/03/2015 19:11           Bromoform         ND         0.50         1         10/03/2015 19:11           Bromomethane         0.59         0.50         1         10/03/2015 19:11           Pstudione (MEK)         3.8         2.0         1         10/03/2015 19:11           1-Butyl alcohel (TBA)         ND         2.0         1         10/03/2015 19:11           1-Butyl benzene         ND         0.50         1         10/03/2015 19:11           Carbon Tetrachloride         ND         0.50         1         10/03/2015 19:11           Carbon Tetrachloride         ND         0.50         1         10/03/2015 19:11           Chlorochane         ND         0.50         1         10/03/2015	tert-Amyl methyl ether (TAME)	ND		0.50	1	10/03/2015 19:11
Bromochloromethane         ND         0.50         1         10/03/2015 19:11           Bromodichloromethane         ND         0.50         1         10/03/2015 19:11           Bromoform         ND         0.50         1         10/03/2015 19:11           Bromoform         ND         0.50         1         10/03/2015 19:11           Bulanone (MEK)         3.8         2.0         1         10/03/2015 19:11           L-Butyl alcohol (TBA)         ND         2.0         1         10/03/2015 19:11           Beturyl benzene         ND         0.50         1         10/03/2015 19:11           sec-Butyl benzene         ND         0.50         1         10/03/2015 19:11           tert-Butyl benzene         ND         0.50         1         10/03/2015 19:11           tert-Butyl benzene         ND         0.50         1         10/03/2015 19:11           tert-Butyl benzene         ND         0.50         1         10/03/2015 19:11           Carbon Disulfide         ND         0.50         1         10/03/2015 19:11           Carbon Disulfide         ND         0.50         1         10/03/2015 19:11           Chlorobenzene         ND         0.50         1         10/03/2	Benzene	ND		0.50	1	10/03/2015 19:11
Bromodichloromethane         ND         0.50         1         10/03/2015 19:11           Bromoform         ND         0.50         1         10/03/2015 19:11           Bromomethane         0.59         0.50         1         10/03/2015 19:11           Z-Butanone (MEK)         3.8         2.0         1         10/03/2015 19:11           t-Butyl benzene         ND         2.0         1         10/03/2015 19:11           t-Butyl benzene         ND         0.50         1         10/03/2015 19:11           sce-Butyl benzene         ND         0.50         1         10/03/2015 19:11           tert-Butyl benzene         ND         0.50         1         10/03/2015 19:11           Carbon Disulfide         ND         0.50         1         10/03/2015 19:11           Carbon Disulfide         ND         0.50         1         10/03/2015 19:11           Carbon Tetrachloride         ND         0.50         1         10/03/2015 19:11           Chlorothane         ND         0.50         1         10/03/2015 19:11           Chlorotofuene         ND         0.50         1         10/03/2015 19:11           Chlorotofuene         ND         0.50         1         10/03/2015 19:11	Bromobenzene	ND		0.50	1	10/03/2015 19:11
Bromoform         ND         0.50         1         10/03/2015 19:11           Brommethane         0.59         0.50         1         10/03/2015 19:11           2-Butanone (MEK)         3.8         2.0         1         10/03/2015 19:11           Butyl benzene         ND         2.0         1         10/03/2015 19:11           n-Butyl benzene         ND         0.50         1         10/03/2015 19:11           sec-Butyl benzene         ND         0.50         1         10/03/2015 19:11           cerbutyl benzene         ND         0.50         1         10/03/2015 19:11           Carbon Disulfide         ND         0.50         1         10/03/2015 19:11           Carbon Disulfide         ND         0.50         1         10/03/2015 19:11           Carbon Tetrachloride         ND         0.50         1         10/03/2015 19:11           Chlorobenzene         ND         0.50         1         10/03/2015 19:11           Chlorothane         ND         0.50         1         10/03/2015 19:11           Chlorothane         ND         0.50         1         10/03/2015 19:11           Chlorotoluene         ND         0.50         1         10/03/2015 19:11 <td>Bromochloromethane</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td>10/03/2015 19:11</td>	Bromochloromethane	ND		0.50	1	10/03/2015 19:11
Bromomethane	Bromodichloromethane	ND		0.50	1	10/03/2015 19:11
2-Butanone (MEK)         3.8         2.0         1         10/03/2015 19:11           t-Butyl alcohol (TBA)         ND         2.0         1         10/03/2015 19:11           n-Butyl benzene         ND         0.50         1         10/03/2015 19:11           sec-Butyl benzene         ND         0.50         1         10/03/2015 19:11           tert-Butyl benzene         ND         0.50         1         10/03/2015 19:11           Carbon Disulfide         ND         0.50         1         10/03/2015 19:11           Carbon Disulfide         ND         0.50         1         10/03/2015 19:11           Carbon Tetrachloride         ND         0.50         1         10/03/2015 19:11           Chlorosthane         ND         0.50         1         10/03/2015 19:11           Chlorostoluene         ND         0.50         1         10/03/2015 19:11           2-Chlorotoluene         ND         0.50         1         10/03/2015 19	Bromoform	ND		0.50	1	10/03/2015 19:11
t-Butyl alcohol (TBA) ND 2.0 1 10/03/2015 19:11 n-Butyl benzene ND 0.50 1 10/03/2015 19:11 sec-Butyl benzene ND 0.50 1 10/03/2015 19:11 carbon Disulfide ND 0.50 1 10/03/2015 19:11 Carbon Disulfide ND 0.50 1 10/03/2015 19:11 Carbon Disulfide ND 0.50 1 10/03/2015 19:11 Carbon Tetrachloride ND 0.50 1 10/03/2015 19:11 Chlorobenzene ND 0.50 1 10/03/2015 19:11 Chlorobenzene ND 0.50 1 10/03/2015 19:11 Chlorobenzene ND 0.50 1 10/03/2015 19:11 Chlorocethane ND 0.50 1 10/03/2015 19:11 Chloroce	Bromomethane	0.59		0.50	1	10/03/2015 19:11
n-Butyl benzene         ND         0.50         1         10/03/2015 19:11           sec-Butyl benzene         ND         0.50         1         10/03/2015 19:11           tert-Butyl benzene         ND         0.50         1         10/03/2015 19:11           Carbon Disulfide         ND         0.50         1         10/03/2015 19:11           Carbon Tetrachloride         ND         0.50         1         10/03/2015 19:11           Chlorobenzene         ND         0.50         1         10/03/2015 19:11           Chlorotethane         ND         0.50         1         10/03/2015 19:11           Chlorotethane         ND         0.50         1         10/03/2015 19:11           Chlorotethane         ND         0.50         1         10/03/2015 19:11           Chlorotoluene         ND         0.50         1         10/03/2015 19:11           4-Chlorotoluene         ND         0.50         1         10/03/2015 19:11           4-Chlorotoluene         ND         0.50         1         10/03/2015 19:11           4-Chlorotoluene         ND         0.50         1         10/03/2015 19:11           1,2-Dibromo-shane         ND         0.50         1         10/03/2015 19:1	2-Butanone (MEK)	3.8		2.0	1	10/03/2015 19:11
sec-Butyl benzene         ND         0.50         1         10/03/2015 19:11           tert-Butyl benzene         ND         0.50         1         10/03/2015 19:11           Carbon Disulfide         ND         0.50         1         10/03/2015 19:11           Carbon Tetrachloride         ND         0.50         1         10/03/2015 19:11           Chlorobenzene         ND         0.50         1         10/03/2015 19:11           Chloroterme         ND         0.50         1         10/03/2015 19:11           Chlorotofrem         ND         0.50         1         10/03/2015 19:11           Chlorotofrem         ND         0.50         1         10/03/2015 19:11           Chlorotoluene         ND         0.50         1         10/03/2015 19:11           4-Chlorotoluene         ND         0.50         1         10/03/2015 19:11           4-Chlorotoluene         ND         0.50         1         10/03/2015 19:11           Dibromochloromethane         ND         0.50         1         10/03/2015 19:11           1,2-Dibromochloropropane         ND         0.50         1         10/03/2015 19:11           1,2-Dibromochlane (EDB)         ND         0.50         1 <td< td=""><td>t-Butyl alcohol (TBA)</td><td>ND</td><td></td><td>2.0</td><td>1</td><td>10/03/2015 19:11</td></td<>	t-Butyl alcohol (TBA)	ND		2.0	1	10/03/2015 19:11
tert-Butyl benzene         ND         0.50         1         10/03/2015 19:11           Carbon Disulfide         ND         0.50         1         10/03/2015 19:11           Carbon Tetrachloride         ND         0.50         1         10/03/2015 19:11           Chlorobenzene         ND         0.50         1         10/03/2015 19:11           Chlorotehane         ND         0.50         1         10/03/2015 19:11           Chloroform         ND         0.50         1         10/03/2015 19:11           Chlorotelhane         ND         0.50         1         10/03/2015 19:11           Chlorotelhane         ND         0.50         1         10/03/2015 19:11           2-Chlorotoluene         ND         0.50         1         10/03/2015 19:11           4-Chlorotoluene         ND         0.50         1         10/03/2015 19:11           4-Chlorotoluene         ND         0.50         1         10/03/2015 19:11           1,2-Dibromochloromethane         ND         0.50         1         10/03/2015 19:11           1,2-Dibromochloromethane         ND         0.50         1         10/03/2015 19:11           1,2-Dibromoethane (EDB)         ND         0.50         1         <	n-Butyl benzene	ND		0.50	1	10/03/2015 19:11
Carbon Disulfide         ND         0.50         1         10/03/2015 19:11           Carbon Tetrachloride         ND         0.50         1         10/03/2015 19:11           Chlorobenzene         ND         0.50         1         10/03/2015 19:11           Chloroethane         ND         0.50         1         10/03/2015 19:11           Chloroform         ND         0.50         1         10/03/2015 19:11           Chlorotoluene         ND         0.50         1         10/03/2015 19:11           2-Chlorotoluene         ND         0.50         1         10/03/2015 19:11           4-Chlorotoluene         ND         0.50         1         10/03/2015 19:11           4-Chlorotoluene         ND         0.50         1         10/03/2015 19:11           1,2-Dibromo-3-chloropropane         ND         0.50<	sec-Butyl benzene	ND		0.50	1	10/03/2015 19:11
Carbon Tetrachloride         ND         0.50         1         10/03/2015 19:11           Chlorobenzene         ND         0.50         1         10/03/2015 19:11           Chloroethane         ND         0.50         1         10/03/2015 19:11           Chloroform         ND         0.50         1         10/03/2015 19:11           Chloromethane         ND         0.50         1         10/03/2015 19:11           2-Chlorotoluene         ND         0.50         1         10/03/2015 19:11           4-Chlorotoluene         ND         0.50         1         10/03/2015 19:11           1-2-Dibromochloromethane         ND         0.50         1         10/03/2015 19:11           1-2-Dibromochlane         ND         0.50         1         10/03/2015 19:11           1-2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 19:11           1-2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 19:11           1-2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1-2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1-4-Dichloroethane         ND         0.50         1	tert-Butyl benzene	ND		0.50	1	10/03/2015 19:11
Chlorobenzene         ND         0.50         1         10/03/2015 19:11           Chloroethane         ND         0.50         1         10/03/2015 19:11           Chloroform         ND         0.50         1         10/03/2015 19:11           Chlorotoluene         ND         0.50         1         10/03/2015 19:11           2-Chlorotoluene         ND         0.50         1         10/03/2015 19:11           4-Chlorotoluene         ND         0.50         1         10/03/2015 19:11           12-Dibromo-Sholropropane         ND         0.50         1         10/03/2015 19:11           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/03/2015 19:11           1,2-Dibromo-shlane (EDB)         ND         0.50         1         10/03/2015 19:11           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 19:11           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1,4-Dichloroethane         ND         0.50	Carbon Disulfide	ND		0.50	1	10/03/2015 19:11
Chloroethane         ND         0.50         1         10/03/2015 19:11           Chloroform         ND         0.50         1         10/03/2015 19:11           Chloromethane         ND         0.50         1         10/03/2015 19:11           2-Chlorotoluene         ND         0.50         1         10/03/2015 19:11           4-Chlorotoluene         ND         0.50         1         10/03/2015 19:11           4-Chlorotoluene         ND         0.50         1         10/03/2015 19:11           Dibromochloromethane         ND         0.50         1         10/03/2015 19:11           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/03/2015 19:11           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 19:11           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 19:11           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1,4-Dichloroethane         ND         0.50         1         10/03/2015 19:11           1,1-Dichloroethane         ND         0.50	Carbon Tetrachloride	ND		0.50	1	10/03/2015 19:11
Chloroform         ND         0.50         1         10/03/2015 19:11           Chloromethane         ND         0.50         1         10/03/2015 19:11           2-Chlorotoluene         ND         0.50         1         10/03/2015 19:11           4-Chlorotoluene         ND         0.50         1         10/03/2015 19:11           4-Chlorotoluene         ND         0.50         1         10/03/2015 19:11           1,2-Dibromochloromethane         ND         0.50         1         10/03/2015 19:11           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/03/2015 19:11           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 19:11           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1,4-Dichlorodifluoromethane         ND         0.50         1         10/03/2015 19:11           1,1-Dichloroethane         ND         0.50         1         10/03/2015 19:11           1,2-Dichloroethane         ND         0.50 <td>Chlorobenzene</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td>10/03/2015 19:11</td>	Chlorobenzene	ND		0.50	1	10/03/2015 19:11
Chloromethane         ND         0.50         1         10/03/2015 19:11           2-Chlorotoluene         ND         0.50         1         10/03/2015 19:11           4-Chlorotoluene         ND         0.50         1         10/03/2015 19:11           1-Chlorotoluene         ND         0.50         1         10/03/2015 19:11           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/03/2015 19:11           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 19:11           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 19:11           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1,1-Dichloroethane         ND         0.50         1         10/03/2015 19:11           1,2-Dichloroethane         ND         0.50         1         10/03/2015 19:11           1,1-Dichloroethane         ND         0.50         1         10/03/2015 19:11           1,1-Dichloroethene         ND         0.50	Chloroethane	ND		0.50	1	10/03/2015 19:11
2-Chlorotoluene         ND         0.50         1         10/03/2015 19:11           4-Chlorotoluene         ND         0.50         1         10/03/2015 19:11           Dibromochloromethane         ND         0.50         1         10/03/2015 19:11           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/03/2015 19:11           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 19:11           1,2-Dibrlomoethane         ND         0.50         1         10/03/2015 19:11           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1,1-Dichloroethane         ND         0.50         1         10/03/2015 19:11           1,1-Dichloroethane         ND         0.50         1         10/03/2015 19:11           1,2-Dichloroethane         ND         0.50         1         10/03/2015 19:11           1,1-Dichloroethene         ND         0.5	Chloroform	ND		0.50	1	10/03/2015 19:11
4-Chlorotoluene         ND         0.50         1         10/03/2015 19:11           Dibromochloromethane         ND         0.50         1         10/03/2015 19:11           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/03/2015 19:11           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 19:11           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 19:11           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1,1-Dichloroethane         ND         0.50         1         10/03/2015 19:11           1,1-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 19:11           1,1-Dichloroethene         ND         0.50         1         10/03/2015 19:11           1,1-Dichloroethene         ND         0.50         1         10/03/2015 19:11           1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:11           1,2-Dichloroethene         ND <td>Chloromethane</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td>10/03/2015 19:11</td>	Chloromethane	ND		0.50	1	10/03/2015 19:11
Dibromochloromethane         ND         0.50         1         10/03/2015 19:11           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/03/2015 19:11           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 19:11           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1,1-Dichloroethane         ND         0.50         1         10/03/2015 19:11           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 19:11           1,1-Dichloroethene         ND         0.50         1         10/03/2015 19:11           1,1-Dichloroethene         ND         0.50         1         10/03/2015 19:11           1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:11           1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:11           1,2-Dichloropethene         ND <td>2-Chlorotoluene</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td>10/03/2015 19:11</td>	2-Chlorotoluene	ND		0.50	1	10/03/2015 19:11
1,2-Dibromo-3-chloropropane         ND         0.20         1         10/03/2015 19:11           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 19:11           Dibromomethane         ND         0.50         1         10/03/2015 19:11           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1,1-Dichlorodifluoromethane         ND         0.50         1         10/03/2015 19:11           1,2-Dichloroethane         ND         0.50         1         10/03/2015 19:11           1,2-Dichloroethane         ND         0.50         1         10/03/2015 19:11           1,1-Dichloroethene         ND         0.50         1         10/03/2015 19:11           1,1-Dichloroethene         ND         0.50         1         10/03/2015 19:11           1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:11           1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:11           1,2-Dichloropropane         ND	4-Chlorotoluene	ND		0.50	1	10/03/2015 19:11
1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 19:11           Dibromomethane         ND         0.50         1         10/03/2015 19:11           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           Dichlorodifluoromethane         ND         0.50         1         10/03/2015 19:11           1,1-Dichloroethane         ND         0.50         1         10/03/2015 19:11           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 19:11           1,1-Dichloroethene         ND         0.50         1         10/03/2015 19:11           cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:11           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:11           1,2-Dichloropropane         ND         0.50         1         10/03/2015 19:11           1,3-Dichloropropane         ND         0.50         1         10/03/2015 19:11	Dibromochloromethane	ND		0.50	1	10/03/2015 19:11
Dibromomethane         ND         0.50         1         10/03/2015 19:11           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 19:11           Dichlorodifluoromethane         ND         0.50         1         10/03/2015 19:11           1,1-Dichloroethane         ND         0.50         1         10/03/2015 19:11           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 19:11           1,1-Dichloroethene         ND         0.50         1         10/03/2015 19:11           cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:11           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:11           1,2-Dichloropropane         ND         0.50         1         10/03/2015 19:11           1,3-Dichloropropane         ND         0.50         1         10/03/2015 19:11	1,2-Dibromo-3-chloropropane	ND		0.20	1	10/03/2015 19:11
1,2-Dichlorobenzene       ND       0.50       1       10/03/2015 19:11         1,3-Dichlorobenzene       ND       0.50       1       10/03/2015 19:11         1,4-Dichlorobenzene       ND       0.50       1       10/03/2015 19:11         Dichlorodifluoromethane       ND       0.50       1       10/03/2015 19:11         1,1-Dichloroethane       ND       0.50       1       10/03/2015 19:11         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/03/2015 19:11         1,1-Dichloroethene       ND       0.50       1       10/03/2015 19:11         cis-1,2-Dichloroethene       ND       0.50       1       10/03/2015 19:11         trans-1,2-Dichloroethene       ND       0.50       1       10/03/2015 19:11         1,2-Dichloropropane       ND       0.50       1       10/03/2015 19:11         1,3-Dichloropropane       ND       0.50       1       10/03/2015 19:11	1,2-Dibromoethane (EDB)	ND		0.50	1	10/03/2015 19:11
1,3-Dichlorobenzene       ND       0.50       1       10/03/2015 19:11         1,4-Dichlorobenzene       ND       0.50       1       10/03/2015 19:11         Dichlorodifluoromethane       ND       0.50       1       10/03/2015 19:11         1,1-Dichloroethane       ND       0.50       1       10/03/2015 19:11         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/03/2015 19:11         1,1-Dichloroethene       ND       0.50       1       10/03/2015 19:11         cis-1,2-Dichloroethene       ND       0.50       1       10/03/2015 19:11         trans-1,2-Dichloroethene       ND       0.50       1       10/03/2015 19:11         1,2-Dichloropropane       ND       0.50       1       10/03/2015 19:11         1,3-Dichloropropane       ND       0.50       1       10/03/2015 19:11	Dibromomethane	ND		0.50	1	10/03/2015 19:11
1,4-Dichlorobenzene       ND       0.50       1       10/03/2015 19:11         Dichlorodifluoromethane       ND       0.50       1       10/03/2015 19:11         1,1-Dichloroethane       ND       0.50       1       10/03/2015 19:11         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/03/2015 19:11         1,1-Dichloroethene       ND       0.50       1       10/03/2015 19:11         cis-1,2-Dichloroethene       ND       0.50       1       10/03/2015 19:11         trans-1,2-Dichloroethene       ND       0.50       1       10/03/2015 19:11         1,2-Dichloropropane       ND       0.50       1       10/03/2015 19:11         1,3-Dichloropropane       ND       0.50       1       10/03/2015 19:11	1,2-Dichlorobenzene	ND		0.50	1	10/03/2015 19:11
Dichlorodifluoromethane         ND         0.50         1         10/03/2015 19:11           1,1-Dichloroethane         ND         0.50         1         10/03/2015 19:11           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 19:11           1,1-Dichloroethane         ND         0.50         1         10/03/2015 19:11           cis-1,2-Dichloroethane         ND         0.50         1         10/03/2015 19:11           trans-1,2-Dichloroethane         ND         0.50         1         10/03/2015 19:11           1,2-Dichloropropane         ND         0.50         1         10/03/2015 19:11           1,3-Dichloropropane         ND         0.50         1         10/03/2015 19:11	1,3-Dichlorobenzene	ND		0.50	1	10/03/2015 19:11
1,1-Dichloroethane       ND       0.50       1       10/03/2015 19:11         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/03/2015 19:11         1,1-Dichloroethene       ND       0.50       1       10/03/2015 19:11         cis-1,2-Dichloroethene       ND       0.50       1       10/03/2015 19:11         trans-1,2-Dichloroethene       ND       0.50       1       10/03/2015 19:11         1,2-Dichloropropane       ND       0.50       1       10/03/2015 19:11         1,3-Dichloropropane       ND       0.50       1       10/03/2015 19:11	1,4-Dichlorobenzene	ND		0.50	1	10/03/2015 19:11
1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/03/2015 19:11         1,1-Dichloroethene       ND       0.50       1       10/03/2015 19:11         cis-1,2-Dichloroethene       ND       0.50       1       10/03/2015 19:11         trans-1,2-Dichloroethene       ND       0.50       1       10/03/2015 19:11         1,2-Dichloropropane       ND       0.50       1       10/03/2015 19:11         1,3-Dichloropropane       ND       0.50       1       10/03/2015 19:11	Dichlorodifluoromethane	ND		0.50	1	10/03/2015 19:11
1,1-Dichloroethene         ND         0.50         1         10/03/2015 19:11           cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:11           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:11           1,2-Dichloropropane         ND         0.50         1         10/03/2015 19:11           1,3-Dichloropropane         ND         0.50         1         10/03/2015 19:11	1,1-Dichloroethane	ND		0.50	1	10/03/2015 19:11
cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:11           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:11           1,2-Dichloropropane         ND         0.50         1         10/03/2015 19:11           1,3-Dichloropropane         ND         0.50         1         10/03/2015 19:11	1,2-Dichloroethane (1,2-DCA)	ND		0.50	1	10/03/2015 19:11
trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:11           1,2-Dichloropropane         ND         0.50         1         10/03/2015 19:11           1,3-Dichloropropane         ND         0.50         1         10/03/2015 19:11	1,1-Dichloroethene	ND		0.50	1	10/03/2015 19:11
1,2-Dichloropropane         ND         0.50         1         10/03/2015 19:11           1,3-Dichloropropane         ND         0.50         1         10/03/2015 19:11	cis-1,2-Dichloroethene	ND		0.50	1	10/03/2015 19:11
1,3-Dichloropropane         ND         0.50         1         10/03/2015 19:11	trans-1,2-Dichloroethene	ND		0.50	1	10/03/2015 19:11
	1,2-Dichloropropane	ND		0.50	1	10/03/2015 19:11
2,2-Dichloropropane ND 0.50 1 10/03/2015 19:11	1,3-Dichloropropane	ND		0.50	1	10/03/2015 19:11
	2,2-Dichloropropane	ND		0.50	1	10/03/2015 19:11



# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30 **Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
W-ECB7	1509A62-009B	Water	09/25/20	015 17:16 GC16	111088
Analytes	<u>Result</u>		<u>RL</u>	<u>DF</u>	Date Analyzed
1,1-Dichloropropene	ND		0.50	1	10/03/2015 19:11
cis-1,3-Dichloropropene	ND		0.50	1	10/03/2015 19:11
trans-1,3-Dichloropropene	ND		0.50	1	10/03/2015 19:11
Diisopropyl ether (DIPE)	ND		0.50	1	10/03/2015 19:11
Ethylbenzene	ND		0.50	1	10/03/2015 19:11
Ethyl tert-butyl ether (ETBE)	ND		0.50	1	10/03/2015 19:11
Freon 113	ND		0.50	1	10/03/2015 19:11
Hexachlorobutadiene	ND		0.50	1	10/03/2015 19:11
Hexachloroethane	ND		0.50	1	10/03/2015 19:11
2-Hexanone	ND		0.50	1	10/03/2015 19:11
Isopropylbenzene	ND		0.50	1	10/03/2015 19:11
4-Isopropyl toluene	ND		0.50	1	10/03/2015 19:11
Methyl-t-butyl ether (MTBE)	ND		0.50	1	10/03/2015 19:11
Methylene chloride	ND		0.50	1	10/03/2015 19:11
4-Methyl-2-pentanone (MIBK)	ND		0.50	1	10/03/2015 19:11
Naphthalene	ND		0.50	1	10/03/2015 19:11
n-Propyl benzene	ND		0.50	1	10/03/2015 19:11
Styrene	ND		0.50	1	10/03/2015 19:11
1,1,1,2-Tetrachloroethane	ND		0.50	1	10/03/2015 19:11
1,1,2,2-Tetrachloroethane	ND		0.50	1	10/03/2015 19:11
Tetrachloroethene	ND		0.50	1	10/03/2015 19:11
Toluene	ND		0.50	1	10/03/2015 19:11
1,2,3-Trichlorobenzene	ND		0.50	1	10/03/2015 19:11
1,2,4-Trichlorobenzene	ND		0.50	1	10/03/2015 19:11
1,1,1-Trichloroethane	ND		0.50	1	10/03/2015 19:11
1,1,2-Trichloroethane	ND		0.50	1	10/03/2015 19:11
Trichloroethene	ND		0.50	1	10/03/2015 19:11
Trichlorofluoromethane	ND		0.50	1	10/03/2015 19:11
1,2,3-Trichloropropane	ND		0.50	1	10/03/2015 19:11
1,2,4-Trimethylbenzene	ND		0.50	1	10/03/2015 19:11
1,3,5-Trimethylbenzene	ND		0.50	1	10/03/2015 19:11
Vinyl Chloride	ND		0.50	1	10/03/2015 19:11
Xylenes, Total	ND		0.50	1	10/03/2015 19:11

# **Analytical Report**

Client: Essel Environmental Consulting

**Date Received:** 9/25/15 19:30 **Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID	
W-ECB7	1509A62-009B	1509A62-009B Water		15 17:16 GC16	111088	
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed	
<u>Surrogates</u>	REC (%)		<u>Limits</u>			
Dibromofluoromethane	95		70-130		10/03/2015 19:11	
Toluene-d8	90		70-130		10/03/2015 19:11	
4-BFB	85		70-130		10/03/2015 19:11	
Analyst(s): KF			Analytical Com	ments: b1		

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30 **Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

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

MeEGB8	Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
Acetone         25         10         1         10/03/2015 19:54           tart-Mryl methyl ether (TAME)         ND         0.50         1         10/03/2015 19:54           Benzene         ND         0.50         1         10/03/2015 19:54           Bromochloromethane         ND         0.50         1         10/03/2015 19:54           Bromomethane         ND         0.50         1         10/03/2015 19:54           Bromomethane         ND         0.50         1         10/03/2015 19:54           L-Butyl alcohol (TBA)         ND         0.50         1         10/03/2015 19:54           L-Butyl alcohol (TBA)         ND         0.50         1         10/03/2015 19:54           L-Butyl alcohol (TBA)         ND         0.50         1	W-ECB8	1509A62-010B	Water	09/25/20	015 16:50 GC16	111088
tert-Amyl methyl ether (TAME)         ND         0.50         1         10/03/2015 19:54           Benzene         ND         0.50         1         10/03/2015 19:54           Bromobenzene         ND         0.50         1         10/03/2015 19:54           Bromochloromethane         ND         0.50         1         10/03/2015 19:54           Bromodichloromethane         ND         0.50         1         10/03/2015 19:54           Bromomethane         ND         0.50         1         10/03/2015 19:54           Brown Disable Mark         4.7         2.0         1         10/03/2015 19:54           Beatyl benzene         ND         0.50         1         10	<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Benzene	Acetone	25		10	1	10/03/2015 19:54
Bromobenzene         ND         0.50         1         10/03/2015 19:54           Bromochloromethane         ND         0.50         1         10/03/2015 19:54           Bromodichloromethane         ND         0.50         1         10/03/2015 19:54           Bromoform         ND         0.50         1         10/03/2015 19:54           Bromomethane         ND         0.50         1         10/03/2015 19:54           L-Butanone (MEK)         4.7         2.0         1         10/03/2015 19:54           L-Butyl alcohol (TBA)         ND         2.0         1         10/03/2015 19:54           L-Butyl benzene         ND         0.50         1         10/03/2015 19:54           L-Butyl benzene         ND         0.50         1         10/03/2015 19:54           sec-Butyl benzene         ND         0.50         1         10/03/2015 19:54           sec-Butyl benzene         ND         0.50         1         10/03/2015 19:54           Carbon Tetrachloride         ND         0.50         1         10/03/2015 19:54           Carbon Tetrachloride         ND         0.50         1         10/03/2015 19:54           Chlorosthane         ND         0.50         1         10/03	tert-Amyl methyl ether (TAME)	ND		0.50	1	10/03/2015 19:54
Bromochloromethane         ND         0.50         1         10/03/2015 19:54           Bromodichloromethane         ND         0.50         1         10/03/2015 19:54           Bromoform         ND         0.50         1         10/03/2015 19:54           Bromomethane         ND         0.50         1         10/03/2015 19:54           2-Butanone (MEK)         4.7         2.0         1         10/03/2015 19:54           1-Butyl alcohol (TBA)         ND         2.0         1         10/03/2015 19:54           1-Butyl alcohol (TBA)         ND         0.50         1         10/03/2015 19:54           1-Butyl benzene         ND         0.50         1         10/03/2	Benzene	ND		0.50	1	10/03/2015 19:54
Bromodichloromethane         ND         0.50         1         10/03/2015 19:54           Bromoform         ND         0.50         1         10/03/2015 19:54           Bromomethane         ND         0.50         1         10/03/2015 19:54           Bromomethane         ND         0.50         1         10/03/2015 19:54           I-Butyl alcohol (TBA)         ND         2.0         1         10/03/2015 19:54           I-Butyl benzene         ND         0.50         1         10/03/2015 19:54           sec-Butyl benzene         ND         0.50         1         10/03/2015 19:54           tert-Butyl benzene         ND         0.50         1         10/03/2015 19:54           tert-Butyl benzene         ND         0.50         1         10/03/2015 19:54           Carbon Disulfide         ND         0.50         1         10/03/2015 19:54           Carbon Tetrachloride         ND         0.50         1         10/03/2015 19:54           Chlorobenzene         ND         0.50         1         10/03/2015 19:54           Chlorothane         ND         0.50         1         10/03/2015 19:54           Chlorotofuene         ND         0.50         1         10/03/2015 19:	Bromobenzene	ND		0.50	1	10/03/2015 19:54
Bromoform         ND         0.50         1         10/03/2015 19:54           Bromomethane         ND         0.50         1         10/03/2015 19:54           2-Butanone (MEK)         4.7         2.0         1         10/03/2015 19:54           Ebutyl cohol (TEA)         ND         2.0         1         10/03/2015 19:54           n-Butyl benzene         ND         0.50         1         10/03/2015 19:54           n-Butyl benzene         ND         0.50         1         10/03/2015 19:54           Carbon Disulfide         ND         0.50         1         10/03/2015 19:54           Carbon Tetrachloride         ND         0.50         1         10/03/2015 19:54           Carbon Tetrachloride         ND         0.50         1         10/03/2015 19:54           Chloroethane         ND         0.50         1         10/03/2015 19:54           Chloroethane         ND         0.50         1         10/03/2015 19:54           Chloromethane         ND         0.50         1         10/03/2015 19:54           Chloromethane         ND         0.50         1         10/03/2015 19:54           4-Chlorotoluene         ND         0.50         1         10/03/2015 19:54	Bromochloromethane	ND		0.50	1	10/03/2015 19:54
Bromomethane	Bromodichloromethane	ND		0.50	1	10/03/2015 19:54
2-Butanone (MEK)         4.7         2.0         1         10/03/2015 19:54           t-Butyl alcohol (TBA)         ND         2.0         1         10/03/2015 19:54           n-Butyl benzene         ND         0.50         1         10/03/2015 19:54           sec-Butyl benzene         ND         0.50         1         10/03/2015 19:54           tert-Butyl benzene         ND         0.50         1         10/03/2015 19:54           Carbon Disulfide         ND         0.50         1         10/03/2015 19:54           Carbon Disulfide         ND         0.50         1         10/03/2015 19:54           Chlorofter         ND         0.50         1         10/03/2015 19:54           Chloroftane         ND         0.50         1         10/03/2015 19:54	Bromoform	ND		0.50	1	10/03/2015 19:54
t-Butyl alcohol (TBA) ND 2.0 1 10/03/2015 19:54 n-Butyl benzene ND 0.50 1 10/03/2015 19:54 sec-Butyl benzene ND 0.50 1 10/03/2015 19:54 sec-Butyl benzene ND 0.50 1 10/03/2015 19:54 tert-Butyl benzene ND 0.50 1 10/03/2015 19:54 Carbon Disulfide ND 0.50 1 10/03/2015 19:54 Carbon Disulfide ND 0.50 1 10/03/2015 19:54 Carbon Tetrachloride ND 0.50 1 10/03/2015 19:54 Carbon Tetrachloride ND 0.50 1 10/03/2015 19:54 Chlorobenzene ND 0.50 1 10/03/2015 19:54 Chlorobenzene ND 0.50 1 10/03/2015 19:54 Chloroform ND 0.50 1 10/03/2015 19:54 Chloroform ND 0.50 1 10/03/2015 19:54 Chloromethane ND 0.50 1 10/03/2015 19:54 Chlorotoluene ND 0.50 1 10/03/2015 19:54 C	Bromomethane	ND		0.50	1	10/03/2015 19:54
n-Butyl benzene         ND         0.50         1         10/03/2015 19:54           sec-Butyl benzene         ND         0.50         1         10/03/2015 19:54           tert-Butyl benzene         ND         0.50         1         10/03/2015 19:54           Carbon Disulfide         ND         0.50         1         10/03/2015 19:54           Carbon Tetrachloride         ND         0.50         1         10/03/2015 19:54           Chlorobenzene         ND         0.50         1         10/03/2015 19:54           Chlorotethane         ND         0.50         1         10/03/2015 19:54           Chloroform         ND         0.50         1         10/03/2015 19:54           Chloromethane         ND         0.50         1         10/03/2015 19:54           Chlorotoluene         ND         0.50         1         10/03/2015 19:54           4-Chlorotoluene         ND         0.50         1         10/03/2015 19:54 <td>2-Butanone (MEK)</td> <td>4.7</td> <td></td> <td>2.0</td> <td>1</td> <td>10/03/2015 19:54</td>	2-Butanone (MEK)	4.7		2.0	1	10/03/2015 19:54
sec-Butyl benzene         ND         0.50         1         10/03/2015 19:54           tert-Butyl benzene         ND         0.50         1         10/03/2015 19:54           Carbon Disulfide         ND         0.50         1         10/03/2015 19:54           Carbon Tetrachloride         ND         0.50         1         10/03/2015 19:54           Chlorobenzene         ND         0.50         1         10/03/2015 19:54           Chlorotethane         ND         0.50         1         10/03/2015 19:54           Chloroform         ND         0.50         1         10/03/2015 19:54           Chloromethane         ND         0.50         1         10/03/2015 19:54           Chloromethane         ND         0.50         1         10/03/2015 19:54           4-Chlorotoluene         ND         0.50         1         10/03/2015 19:54           Dibromomethane         ND         0.50         1         10/03/2015 19:54	t-Butyl alcohol (TBA)	ND		2.0	1	10/03/2015 19:54
tert-Butyl benzene         ND         0.50         1         10/03/2015 19:54           Carbon Disulfide         ND         0.50         1         10/03/2015 19:54           Carbon Tetrachloride         ND         0.50         1         10/03/2015 19:54           Chlorobenzene         ND         0.50         1         10/03/2015 19:54           Chlorotethane         ND         0.50         1         10/03/2015 19:54           Chloroform         ND         0.50         1         10/03/2015 19:54           Chlorotoluene         ND         0.50         1         10/03/2015 19:54           4-Chlorotoluene         ND         0.50         1         10/03/2015 19:54 <td>n-Butyl benzene</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td>10/03/2015 19:54</td>	n-Butyl benzene	ND		0.50	1	10/03/2015 19:54
Carbon Disulfide         ND         0.50         1         10/03/2015 19:54           Carbon Tetrachloride         ND         0.50         1         10/03/2015 19:54           Chlorobenzene         ND         0.50         1         10/03/2015 19:54           Chloroethane         ND         0.50         1         10/03/2015 19:54           Chloroform         ND         0.50         1         10/03/2015 19:54           Chlorotolurene         ND         0.50         1         10/03/2015 19:54           2-Chlorotolurene         ND         0.50         1         10/03/2015 19:54           4-Chlorotolurene         ND         0.50         1         10/03/2015 19:54           1,2-Dibromoethane         ND         0.50         1         10/03/2015 19:54           1,2-Dibromoethane         ND         0.50         1         10/03/2015 19	sec-Butyl benzene	ND		0.50	1	10/03/2015 19:54
Carbon Tetrachloride         ND         0.50         1         10/03/2015 19:54           Chlorobenzene         ND         0.50         1         10/03/2015 19:54           Chloroethane         ND         0.50         1         10/03/2015 19:54           Chloroform         ND         0.50         1         10/03/2015 19:54           Chlorodoluene         ND         0.50         1         10/03/2015 19:54           2-Chlorotoluene         ND         0.50         1         10/03/2015 19:54           4-Chlorotoluene         ND         0.50         1         10/03/2015 19:54           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/03/2015 19:54           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 19:54           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,4-Dichlorobenzene         ND         0.50         1         <	tert-Butyl benzene	ND		0.50	1	10/03/2015 19:54
Chlorobenzene         ND         0.50         1         10/03/2015 19:54           Chloroethane         ND         0.50         1         10/03/2015 19:54           Chloroform         ND         0.50         1         10/03/2015 19:54           Chloromethane         ND         0.50         1         10/03/2015 19:54           2-Chlorotoluene         ND         0.50         1         10/03/2015 19:54           4-Chlorotoluene         ND         0.50         1         10/03/2015 19:54           Dibromochloromethane         ND         0.50         1         10/03/2015 19:54           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/03/2015 19:54           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 19:54           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,3-Dichlorobenzene         ND         0.50         1         <	Carbon Disulfide	ND		0.50	1	10/03/2015 19:54
Chloroethane         ND         0.50         1         10/03/2015 19:54           Chloroform         ND         0.50         1         10/03/2015 19:54           Chloromethane         ND         0.50         1         10/03/2015 19:54           2-Chlorotoluene         ND         0.50         1         10/03/2015 19:54           4-Chlorotoluene         ND         0.50         1         10/03/2015 19:54           4-Chlorotoluene         ND         0.50         1         10/03/2015 19:54           Dibromochloromethane         ND         0.50         1         10/03/2015 19:54           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/03/2015 19:54           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 19:54           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 19:54           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,1-Dichlorothane         ND         0.50	Carbon Tetrachloride	ND		0.50	1	10/03/2015 19:54
Chloroform         ND         0.50         1         10/03/2015 19:54           Chloromethane         ND         0.50         1         10/03/2015 19:54           2-Chlorotoluene         ND         0.50         1         10/03/2015 19:54           4-Chlorotoluene         ND         0.50         1         10/03/2015 19:54           4-Chlorotoluene         ND         0.50         1         10/03/2015 19:54           Dibromochloromethane         ND         0.50         1         10/03/2015 19:54           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/03/2015 19:54           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 19:54           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,1-Dichloroethane         ND         0.50         1         10/03/2015 19:54           1,1-Dichloroethane         ND         0.50         <	Chlorobenzene	ND		0.50	1	10/03/2015 19:54
Chloromethane         ND         0.50         1         10/03/2015 19:54           2-Chlorotoluene         ND         0.50         1         10/03/2015 19:54           4-Chlorotoluene         ND         0.50         1         10/03/2015 19:54           4-Chlorotoluene         ND         0.50         1         10/03/2015 19:54           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/03/2015 19:54           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 19:54           1,2-Dibrlorobenzene         ND         0.50         1         10/03/2015 19:54           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,1-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,1-Dichloroethane         ND         0.50         1         10/03/2015 19:54           1,2-Dichloroethane         ND         0.50         1         10/03/2015 19:54           1,1-Dichloroethane         ND         0.50	Chloroethane	ND		0.50	1	10/03/2015 19:54
2-Chlorotoluene         ND         0.50         1         10/03/2015 19:54           4-Chlorotoluene         ND         0.50         1         10/03/2015 19:54           Dibromochloromethane         ND         0.50         1         10/03/2015 19:54           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/03/2015 19:54           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 19:54           1,2-Dibrlomoethane         ND         0.50         1         10/03/2015 19:54           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,1-Dichloroethane         ND         0.50         1         10/03/2015 19:54           1,1-Dichloroethane         ND         0.50         1         10/03/2015 19:54           1,1-Dichloroethane         ND         0.50         1         10/03/2015 19:54           1,1-Dichloroethene         ND         0.5	Chloroform	ND		0.50	1	10/03/2015 19:54
4-Chlorotoluene         ND         0.50         1         10/03/2015 19:54           Dibromochloromethane         ND         0.50         1         10/03/2015 19:54           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/03/2015 19:54           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 19:54           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,1-Dichloroethane         ND         0.50         1         10/03/2015 19:54           1,1-Dichloroethane         ND         0.50         1         10/03/2015 19:54           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 19:54           1,1-Dichloroethene         ND         0.50         1         10/03/2015 19:54           1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:54           trans-1,2-Dichloroethene         ND </td <td>Chloromethane</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td>10/03/2015 19:54</td>	Chloromethane	ND		0.50	1	10/03/2015 19:54
Dibromochloromethane         ND         0.50         1         10/03/2015 19:54           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/03/2015 19:54           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 19:54           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,1-Dichloroethane         ND         0.50         1         10/03/2015 19:54           1,1-Dichloroethane         ND         0.50         1         10/03/2015 19:54           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 19:54           1,1-Dichloroethene         ND         0.50         1         10/03/2015 19:54           1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:54           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:54           trans-1,2-Dichloroethene	2-Chlorotoluene	ND		0.50	1	10/03/2015 19:54
1,2-Dibromo-3-chloropropane         ND         0.20         1         10/03/2015 19:54           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 19:54           Dibromomethane         ND         0.50         1         10/03/2015 19:54           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           Dichlorodifluoromethane         ND         0.50         1         10/03/2015 19:54           1,1-Dichloroethane         ND         0.50         1         10/03/2015 19:54           1,2-Dichloroethane         ND         0.50         1         10/03/2015 19:54           1,1-Dichloroethene         ND         0.50         1         10/03/2015 19:54           1,1-Dichloroethene         ND         0.50         1         10/03/2015 19:54           1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:54           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:54           1,2-Dichloropropane         ND	4-Chlorotoluene	ND		0.50	1	10/03/2015 19:54
1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 19:54           Dibromomethane         ND         0.50         1         10/03/2015 19:54           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           Dichlorodifluoromethane         ND         0.50         1         10/03/2015 19:54           1,1-Dichloroethane         ND         0.50         1         10/03/2015 19:54           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 19:54           1,1-Dichloroethene         ND         0.50         1         10/03/2015 19:54           cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:54           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:54           1,2-Dichloropropane         ND         0.50         1         10/03/2015 19:54           1,3-Dichloropropane         ND         0.50         1         10/03/2015 19:54	Dibromochloromethane	ND		0.50	1	10/03/2015 19:54
Dibromomethane         ND         0.50         1         10/03/2015 19:54           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           Dichlorodifluoromethane         ND         0.50         1         10/03/2015 19:54           1,1-Dichloroethane         ND         0.50         1         10/03/2015 19:54           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 19:54           1,1-Dichloroethene         ND         0.50         1         10/03/2015 19:54           cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:54           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:54           1,2-Dichloropropane         ND         0.50         1         10/03/2015 19:54           1,3-Dichloropropane         ND         0.50         1         10/03/2015 19:54           1,3-Dichloropropane         ND         0.50         1         10/03/2015 19:54	1,2-Dibromo-3-chloropropane	ND		0.20	1	10/03/2015 19:54
1,2-Dichlorobenzene       ND       0.50       1       10/03/2015 19:54         1,3-Dichlorobenzene       ND       0.50       1       10/03/2015 19:54         1,4-Dichlorobenzene       ND       0.50       1       10/03/2015 19:54         Dichlorodifluoromethane       ND       0.50       1       10/03/2015 19:54         1,1-Dichloroethane       ND       0.50       1       10/03/2015 19:54         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/03/2015 19:54         1,1-Dichloroethene       ND       0.50       1       10/03/2015 19:54         cis-1,2-Dichloroethene       ND       0.50       1       10/03/2015 19:54         trans-1,2-Dichloroethene       ND       0.50       1       10/03/2015 19:54         1,2-Dichloropropane       ND       0.50       1       10/03/2015 19:54         1,3-Dichloropropane       ND       0.50       1       10/03/2015 19:54	1,2-Dibromoethane (EDB)	ND		0.50	1	10/03/2015 19:54
1,3-Dichlorobenzene       ND       0.50       1       10/03/2015 19:54         1,4-Dichlorobenzene       ND       0.50       1       10/03/2015 19:54         Dichlorodifluoromethane       ND       0.50       1       10/03/2015 19:54         1,1-Dichloroethane       ND       0.50       1       10/03/2015 19:54         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/03/2015 19:54         1,1-Dichloroethene       ND       0.50       1       10/03/2015 19:54         cis-1,2-Dichloroethene       ND       0.50       1       10/03/2015 19:54         trans-1,2-Dichloroethene       ND       0.50       1       10/03/2015 19:54         1,2-Dichloropropane       ND       0.50       1       10/03/2015 19:54         1,3-Dichloropropane       ND       0.50       1       10/03/2015 19:54	Dibromomethane	ND		0.50	1	10/03/2015 19:54
1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 19:54           Dichlorodifluoromethane         ND         0.50         1         10/03/2015 19:54           1,1-Dichloroethane         ND         0.50         1         10/03/2015 19:54           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 19:54           1,1-Dichloroethene         ND         0.50         1         10/03/2015 19:54           cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:54           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:54           1,2-Dichloropropane         ND         0.50         1         10/03/2015 19:54           1,3-Dichloropropane         ND         0.50         1         10/03/2015 19:54	1,2-Dichlorobenzene	ND		0.50	1	10/03/2015 19:54
Dichlorodifluoromethane         ND         0.50         1         10/03/2015 19:54           1,1-Dichloroethane         ND         0.50         1         10/03/2015 19:54           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 19:54           1,1-Dichloroethene         ND         0.50         1         10/03/2015 19:54           cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:54           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:54           1,2-Dichloropropane         ND         0.50         1         10/03/2015 19:54           1,3-Dichloropropane         ND         0.50         1         10/03/2015 19:54	1,3-Dichlorobenzene	ND		0.50	1	10/03/2015 19:54
1,1-Dichloroethane       ND       0.50       1       10/03/2015 19:54         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/03/2015 19:54         1,1-Dichloroethene       ND       0.50       1       10/03/2015 19:54         cis-1,2-Dichloroethene       ND       0.50       1       10/03/2015 19:54         trans-1,2-Dichloroethene       ND       0.50       1       10/03/2015 19:54         1,2-Dichloropropane       ND       0.50       1       10/03/2015 19:54         1,3-Dichloropropane       ND       0.50       1       10/03/2015 19:54	1,4-Dichlorobenzene	ND		0.50	1	10/03/2015 19:54
1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/03/2015 19:54         1,1-Dichloroethene       ND       0.50       1       10/03/2015 19:54         cis-1,2-Dichloroethene       ND       0.50       1       10/03/2015 19:54         trans-1,2-Dichloroethene       ND       0.50       1       10/03/2015 19:54         1,2-Dichloropropane       ND       0.50       1       10/03/2015 19:54         1,3-Dichloropropane       ND       0.50       1       10/03/2015 19:54	Dichlorodifluoromethane	ND		0.50	1	10/03/2015 19:54
1,1-Dichloroethene         ND         0.50         1         10/03/2015 19:54           cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:54           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:54           1,2-Dichloropropane         ND         0.50         1         10/03/2015 19:54           1,3-Dichloropropane         ND         0.50         1         10/03/2015 19:54	1,1-Dichloroethane	ND		0.50	1	10/03/2015 19:54
cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:54           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:54           1,2-Dichloropropane         ND         0.50         1         10/03/2015 19:54           1,3-Dichloropropane         ND         0.50         1         10/03/2015 19:54	1,2-Dichloroethane (1,2-DCA)	ND		0.50	1	10/03/2015 19:54
trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 19:54           1,2-Dichloropropane         ND         0.50         1         10/03/2015 19:54           1,3-Dichloropropane         ND         0.50         1         10/03/2015 19:54	1,1-Dichloroethene	ND		0.50	1	10/03/2015 19:54
1,2-Dichloropropane         ND         0.50         1         10/03/2015 19:54           1,3-Dichloropropane         ND         0.50         1         10/03/2015 19:54	cis-1,2-Dichloroethene	ND		0.50	1	10/03/2015 19:54
1,3-Dichloropropane         ND         0.50         1         10/03/2015 19:54	trans-1,2-Dichloroethene	ND		0.50	1	10/03/2015 19:54
	1,2-Dichloropropane	ND		0.50	1	10/03/2015 19:54
2,2-Dichloropropane ND 0.50 1 10/03/2015 19:54	1,3-Dichloropropane	ND		0.50	1	10/03/2015 19:54
	2,2-Dichloropropane	ND		0.50	1	10/03/2015 19:54



# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30 **Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

Client ID	Lab ID	Matrix	Date Co	ollected	Instrument	Batch ID
W-ECB8	1509A62-010B	Water	09/25/20	15 16:50	GC16	111088
Analytes	Result		<u>RL</u>	<u>DF</u>		Date Analyzed
1,1-Dichloropropene	ND		0.50	1		10/03/2015 19:54
cis-1,3-Dichloropropene	ND		0.50	1		10/03/2015 19:54
trans-1,3-Dichloropropene	ND		0.50	1		10/03/2015 19:54
Diisopropyl ether (DIPE)	ND		0.50	1		10/03/2015 19:54
Ethylbenzene	ND		0.50	1		10/03/2015 19:54
Ethyl tert-butyl ether (ETBE)	ND		0.50	1		10/03/2015 19:54
Freon 113	ND		0.50	1		10/03/2015 19:54
Hexachlorobutadiene	ND		0.50	1		10/03/2015 19:54
Hexachloroethane	ND		0.50	1		10/03/2015 19:54
2-Hexanone	ND		0.50	1		10/03/2015 19:54
Isopropylbenzene	ND		0.50	1		10/03/2015 19:54
4-Isopropyl toluene	ND		0.50	1		10/03/2015 19:54
Methyl-t-butyl ether (MTBE)	ND		0.50	1		10/03/2015 19:54
Methylene chloride	ND		0.50	1		10/03/2015 19:54
4-Methyl-2-pentanone (MIBK)	ND		0.50	1		10/03/2015 19:54
Naphthalene	ND		0.50	1		10/03/2015 19:54
n-Propyl benzene	ND		0.50	1		10/03/2015 19:54
Styrene	ND		0.50	1		10/03/2015 19:54
1,1,1,2-Tetrachloroethane	ND		0.50	1		10/03/2015 19:54
1,1,2,2-Tetrachloroethane	ND		0.50	1		10/03/2015 19:54
Tetrachloroethene	ND		0.50	1		10/03/2015 19:54
Toluene	ND		0.50	1		10/03/2015 19:54
1,2,3-Trichlorobenzene	ND		0.50	1		10/03/2015 19:54
1,2,4-Trichlorobenzene	ND		0.50	1		10/03/2015 19:54
1,1,1-Trichloroethane	ND		0.50	1		10/03/2015 19:54
1,1,2-Trichloroethane	ND		0.50	1		10/03/2015 19:54
Trichloroethene	ND		0.50	1		10/03/2015 19:54
Trichlorofluoromethane	ND		0.50	1		10/03/2015 19:54
1,2,3-Trichloropropane	ND		0.50	1		10/03/2015 19:54
1,2,4-Trimethylbenzene	ND		0.50	1		10/03/2015 19:54
1,3,5-Trimethylbenzene	ND		0.50	1		10/03/2015 19:54
Vinyl Chloride	ND		0.50	1		10/03/2015 19:54
Xylenes, Total	ND		0.50	1		10/03/2015 19:54

# **Analytical Report**

Client: Essel Environmental Consulting

15166; EBALDC

**Date Received:** 9/25/15 19:30

**Date Prepared:** 10/1/15-10/3/15

**Project:** 

**WorkOrder:** 1509A62

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID
W-ECB8	1509A62-010B Water	09/25/2015 16:50 GC16	111088
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
<u>Surrogates</u>	REC (%)	<u>Limits</u>	
Dibromofluoromethane	94	70-130	10/03/2015 19:54
Toluene-d8	91	70-130	10/03/2015 19:54
4-BFB	89	70-130	10/03/2015 19:54



**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30 **Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC

**WorkOrder:** 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

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

Mescrope	Client ID	Lab ID	Matrix	Date C	collected Instrument	Batch ID
Acetone         27         10         1         10/03/2015 20:37           tart-Mryl methyl ether (TAME)         ND         0.50         1         10/03/2015 20:37           Benzene         ND         0.50         1         10/03/2015 20:37           Bromochloromethane         ND         0.50         1         10/03/2015 20:37           Brothyl secretary         ND         0.50         1	W-ECB9	1509A62-011B	Water	09/25/20	015 16:40 GC16	111088
tert-Amyl methyl ether (TAME)         ND         0.50         1         10/03/2015 20:37           Benzene         ND         0.50         1         10/03/2015 20:37           Bromobenzene         ND         0.50         1         10/03/2015 20:37           Bromochloromethane         ND         0.50         1         10/03/2015 20:37           Bromodichloromethane         ND         0.50         1         10/03/2015 20:37           Brown Disable Mice         ND         0.50         1         10/03/2015 20:37           Brown Disable Mice         ND         0.50 <th><u>Analytes</u></th> <th>Result</th> <th></th> <th><u>RL</u></th> <th><u>DF</u></th> <th>Date Analyzed</th>	<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Benzene         ND         0.50         1         10/03/2015 20:37           Bromobenzene         ND         0.50         1         10/03/2015 20:37           Bromochloromethane         ND         0.50         1         10/03/2015 20:37           Bromoclichloromethane         ND         0.50         1         10/03/2015 20:37           Bromoferm         ND         0.50         1         10/03/2015 20:37           Bromomethane         ND         0.50         1         10/03/2015 20:37           Browley Benzene         ND         0.50         1         10/03/2015 20:37           Brotyl benzene         ND         0.50         1         10/03/2015 20:37           tert-Butyl benzene         ND         0.50         1         10/03/2015 20:37	Acetone	27		10	1	10/03/2015 20:37
Bromobenzene         ND         0.50         1         10/03/2015 20:37           Bromochloromethane         ND         0.50         1         10/03/2015 20:37           Bromodichloromethane         ND         0.50         1         10/03/2015 20:37           Bromoform         ND         0.50         1         10/03/2015 20:37           Bromomethane         ND         0.50         1         10/03/2015 20:37           Serbanone (MEK)         4.9         2.0         1         10/03/2015 20:37           1-Butyl alcohol (TBA)         ND         2.0         1         10/03/2015 20:37           1-Butyl benzene         ND         0.50         1         10/03/2015 20:37           9ce-Butyl benzene         ND         0.50         1         10/03/2015 20:37           9ce-Butyl benzene         ND         0.50         1         10/03/2015 20:37           9ce-Butyl benzene         ND         0.50         1         10/03/2015 20:37           6crbon Disulfide         ND         0.50         1         10/03/2015 20:37           Carbon Tetrachloride         ND         0.50         1         10/03/2015 20:37           Chlorothane         ND         0.50         1         10/03/201	tert-Amyl methyl ether (TAME)	ND		0.50	1	10/03/2015 20:37
Bromochloromethane         ND         0.50         1         10/03/2015 20:37           Bromodichloromethane         ND         0.50         1         10/03/2015 20:37           Bromoform         ND         0.50         1         10/03/2015 20:37           Bromomethane         ND         0.50         1         10/03/2015 20:37           2-Butanone (MEK)         4.9         2.0         1         10/03/2015 20:37           1-Butyl alcohol (TBA)         ND         0.50         1         10/03/2015 20:37           n-Butyl benzene         ND         0.50         1         10/03/2015 20:37           sec-Butyl benzene         ND         0.50         1         10/03/2015 20:37           Carbon Tetrachloride         ND         0.50         1         10/03/2015 20:37           Carbon Tetrachloride         ND         0.50         1         10/03/2015 20:37           Chlorobenzene         ND         0.50         1         10/03/2015 20:37           Chlorotethane         ND         0.50         1         10/03/2015 20:37           Chlorotethane         ND         0.50         1         10/03/2015 20:37           Chlorototluene         ND         0.50         1         10/03/2	Benzene	ND		0.50	1	10/03/2015 20:37
Bromodichloromethane         ND         0.50         1         10/03/2015 20:37           Bromoform         ND         0.50         1         10/03/2015 20:37           Bromomethane         ND         0.50         1         10/03/2015 20:37           Bromomethane         ND         0.50         1         10/03/2015 20:37           t-Butlanone (MEK)         4.9         2.0         1         10/03/2015 20:37           t-Butyl benzene         ND         0.50         1         10/03/2015 20:37           t-Butyl benzene         ND         0.50         1         10/03/2015 20:37           tert-Butyl benzene         ND         0.50         1         10/03/2015 20:37           Carbon Disulfide         ND         0.50         1         10/03/2015 20:37           Carbon Disulfide         ND         0.50         1         10/03/2015 20:37           Carbon Tetrachloride         ND         0.50         1         10/03/2015 20:37           Chlorobenzene         ND         0.50         1         10/03/2015 20:37           Chlorotofuene         ND         0.50         1         10/03/2015 20:37           Chlorotofuene         ND         0.50         1         10/03/2015 20:37 <td>Bromobenzene</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td>10/03/2015 20:37</td>	Bromobenzene	ND		0.50	1	10/03/2015 20:37
Bromoform         ND         0.50         1         10/03/2015 20:37           Bromomethane         ND         0.50         1         10/03/2015 20:37           2-Butanone (MEK)         4.9         2.0         1         10/03/2015 20:37           I-Butyl obol (TBA)         ND         2.0         1         10/03/2015 20:37           I-Butyl benzene         ND         0.50         1         10/03/2015 20:37           re-Butyl benzene         ND         0.50         1         10/03/2015 20:37           re-Butyl benzene         ND         0.50         1         10/03/2015 20:37           Carben Disulfide         ND         0.50         1         10/03/2015 20:37           Carbon Tetrachloride         ND         0.50         1         10/03/2015 20:37           Chlorothane         ND         0.50         1         10/03/2015 20:37	Bromochloromethane	ND		0.50	1	10/03/2015 20:37
Bromomethane	Bromodichloromethane	ND		0.50	1	10/03/2015 20:37
2-Butanone (MEK)         4.9         2.0         1         10/03/2015 20:37           t-Butyl alcohol (TBA)         ND         2.0         1         10/03/2015 20:37           n-Butyl benzene         ND         0.50         1         10/03/2015 20:37           sec-Butyl benzene         ND         0.50         1         10/03/2015 20:37           Carbon Disulfide         ND         0.50         1         10/03/2015 20:37           Carbon Disulfide         ND         0.50         1         10/03/2015 20:37           Carbon Tetrachloride         ND         0.50         1         10/03/2015 20:37           Chlorobenzene         ND         0.50         1         10/03/2015 20:37           Chlorotethane         ND         0.50         1         10/03/2015 20:37           Chlorotethane         ND         0.50         1         10/03/2015 20:37           Chlorotethane         ND         0.50         1         10/03/2015 20:37           Chlorotoluene         ND         0.50         1         10/03/2015 20:37           Chlorotoluene         ND         0.50         1         10/03/2015 20:37           Dibromochloromethane         ND         0.50         1         10/03/2015	Bromoform	ND		0.50	1	10/03/2015 20:37
t-Butyl alcohol (TBA) ND 2.0 1 10/03/2015 20:37 n-Butyl benzene ND 0.50 1 10/03/2015 20:37 sec-Butyl benzene ND 0.50 1 10/03/2015 20:37 sec-Butyl benzene ND 0.50 1 10/03/2015 20:37 Carbon Disulfide ND 0.50 1 10/03/2015 20:37 Carbon Disulfide ND 0.50 1 10/03/2015 20:37 Carbon Disulfide ND 0.50 1 10/03/2015 20:37 Carbon Tetrachloride ND 0.50 1 10/03/2015 20:37 Chlorobenzene ND 0.50 1 10/03/2015 20:37 Chlorobenzene ND 0.50 1 10/03/2015 20:37 Chlorobenzene ND 0.50 1 10/03/2015 20:37 Chloroform ND 0.50 1 10/03/2015 20:37 Chloroform ND 0.50 1 10/03/2015 20:37 Chlorothane ND 0.50 1 10/03/2015 20:37 Chlo	Bromomethane	ND		0.50	1	10/03/2015 20:37
n-Butyl benzene         ND         0.50         1         10/03/2015 20:37           sec-Butyl benzene         ND         0.50         1         10/03/2015 20:37           tert-Butyl benzene         ND         0.50         1         10/03/2015 20:37           Carbon Disulfide         ND         0.50         1         10/03/2015 20:37           Carbon Tetrachloride         ND         0.50         1         10/03/2015 20:37           Chlorobenzene         ND         0.50         1         10/03/2015 20:37           Chlorotethane         ND         0.50         1         10/03/2015 20:37           Chloroform         ND         0.50         1         10/03/2015 20:37           Chlorotofuene         ND         0.50         1         10/03/2015 20:37           4-Chlorotoluene         ND         0.50         1         10/03/2015 20:37           4-Chlorotoluene         ND         0.50         1         10/03/2015 20:37           4-Chlorotoluene         ND         0.50         1         10/03/2015 20:37           1/2-Dibromo-Shoropropane         ND         0.50         1         10/03/2015 20:37           1/2-Dibromo-Shoropropane         ND         0.50         1	2-Butanone (MEK)	4.9		2.0	1	10/03/2015 20:37
sec-Butyl benzene         ND         0.50         1         10/03/2015 20:37           tert-Butyl benzene         ND         0.50         1         10/03/2015 20:37           Carbon Disulfide         ND         0.50         1         10/03/2015 20:37           Carbon Tetrachloride         ND         0.50         1         10/03/2015 20:37           Chlorobenzene         ND         0.50         1         10/03/2015 20:37           Chlorotethane         ND         0.50         1         10/03/2015 20:37           Chlorotofrem         ND         0.50         1         10/03/2015 20:37           Chlorotofrem         ND         0.50         1         10/03/2015 20:37           Chlorotoluene         ND         0.50         1         10/03/2015 20:37           2-Chlorotoluene         ND         0.50         1         10/03/2015 20:37           4-Chlorotoluene         ND         0.50         1         10/03/2015 20:37           2-Chlorotoluene         ND         0.50         1         10/03/2015 20:37           Dibromochloromethane         ND         0.50         1         10/03/2015 20:37           1,2-Dibromochloromethane         ND         0.50         1         10/03	t-Butyl alcohol (TBA)	ND		2.0	1	10/03/2015 20:37
tert-Butyl benzene         ND         0.50         1         10/03/2015 20:37           Carbon Disulfide         ND         0.50         1         10/03/2015 20:37           Carbon Tetrachloride         ND         0.50         1         10/03/2015 20:37           Chlorobenzene         ND         0.50         1         10/03/2015 20:37           Chlorobenzene         ND         0.50         1         10/03/2015 20:37           Chloroform         ND         0.50         1         10/03/2015 20:37           Chloroform         ND         0.50         1         10/03/2015 20:37           Chlorotoluene         ND         0.50         1         10/03/2015 20:37           4-Chlorotoluene         ND         0.50         1         10/03/2015 20:37           1,2-Dibromochloromethane         ND         0.50         1         10/03/2015 20:37	n-Butyl benzene	ND		0.50	1	10/03/2015 20:37
Carbon Disulfide         ND         0.50         1         10/03/2015 20:37           Carbon Tetrachloride         ND         0.50         1         10/03/2015 20:37           Chlorobenzene         ND         0.50         1         10/03/2015 20:37           Chloroethane         ND         0.50         1         10/03/2015 20:37           Chloroform         ND         0.50         1         10/03/2015 20:37           Chlorotolurene         ND         0.50         1         10/03/2015 20:37           2-Chlorotolurene         ND         0.50         1         10/03/2015 20:37           4-Chlorotolurene         ND         0.50         1         10/03/2015 20:37           4-Chlorotolurene         ND         0.50         1         10/03/2015 20:37           4-Chlorotolurene         ND         0.50         1         10/03/2015 20:37           1/2-Dibromoethane         ND         0.50         1         10/03/2015 20:37           1/2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 20:37           1/2-Dibromoethane         ND         0.50         1         10/03/2015 20:37           1/2-Dichlorobenzene         ND         0.50         1         10/	sec-Butyl benzene	ND		0.50	1	10/03/2015 20:37
Carbon Tetrachloride         ND         0.50         1         10/03/2015 20:37           Chlorobenzene         ND         0.50         1         10/03/2015 20:37           Chloroethane         ND         0.50         1         10/03/2015 20:37           Chloroform         ND         0.50         1         10/03/2015 20:37           Chlorotoluene         ND         0.50         1         10/03/2015 20:37           2-Chlorotoluene         ND         0.50         1         10/03/2015 20:37           4-Chlorotoluene         ND         0.50         1         10/03/2015 20:37           2-Chlorotoluene         ND         0.50         1         10/03/2015 20:37           Dibromochloromethane         ND         0.50         1         10/03/2015 20:37           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/03/2015 20:37           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 20:37           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           1,4-Dichlorobenzene         ND         0.50         1	tert-Butyl benzene	ND		0.50	1	10/03/2015 20:37
Chlorobenzene         ND         0.50         1         10/03/2015 20:37           Chloroethane         ND         0.50         1         10/03/2015 20:37           Chloroform         ND         0.50         1         10/03/2015 20:37           Chloroform         ND         0.50         1         10/03/2015 20:37           2-Chlorotoluene         ND         0.50         1         10/03/2015 20:37           2-Chlorotoluene         ND         0.50         1         10/03/2015 20:37           4-Chlorotoluene         ND         0.50         1         10/03/2015 20:37           1/2-Dibromo-3-chloropropane         ND         0.50         1 <td>Carbon Disulfide</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td>10/03/2015 20:37</td>	Carbon Disulfide	ND		0.50	1	10/03/2015 20:37
Chloroethane         ND         0.50         1         10/03/2015 20:37           Chloroform         ND         0.50         1         10/03/2015 20:37           Chloromethane         ND         0.50         1         10/03/2015 20:37           2-Chlorotoluene         ND         0.50         1         10/03/2015 20:37           4-Chlorotoluene         ND         0.50         1         10/03/2015 20:37           4-Chlorotoluene         ND         0.50         1         10/03/2015 20:37           Dibromochloromethane         ND         0.50         1         10/03/2015 20:37           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/03/2015 20:37           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 20:37           Dibromomethane         ND         0.50         1         10/03/2015 20:37           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           1,1-Dichloroethane         ND         0.50         1	Carbon Tetrachloride	ND		0.50	1	10/03/2015 20:37
Chloroform         ND         0.50         1         10/03/2015 20:37           Chloromethane         ND         0.50         1         10/03/2015 20:37           2-Chlorotoluene         ND         0.50         1         10/03/2015 20:37           4-Chlorotoluene         ND         0.50         1         10/03/2015 20:37           4-Chlorotoluene         ND         0.50         1         10/03/2015 20:37           1,2-Dibromochloromethane         ND         0.50         1         10/03/2015 20:37           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/03/2015 20:37           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 20:37           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           1,4-Dichlorodifluoromethane         ND         0.50         1         10/03/2015 20:37           1,1-Dichloroethane         ND         0.50         1         10/03/2015 20:37           1,2-Dichloroethane         ND         0.50 <td>Chlorobenzene</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td>10/03/2015 20:37</td>	Chlorobenzene	ND		0.50	1	10/03/2015 20:37
Chloromethane         ND         0.50         1         10/03/2015 20:37           2-Chlorotoluene         ND         0.50         1         10/03/2015 20:37           4-Chlorotoluene         ND         0.50         1         10/03/2015 20:37           Dibromochloromethane         ND         0.50         1         10/03/2015 20:37           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/03/2015 20:37           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 20:37           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 20:37           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           1,1-Dichloroethane         ND         0.50         1         10/03/2015 20:37           1,1-Dichloroethane         ND         0.50         1         10/03/2015 20:37           1,1-Dichloroethane         ND         0.50         1         10/03/2015 20:37           1,1-Dichloroethene         ND         0.50	Chloroethane	ND		0.50	1	10/03/2015 20:37
2-Chlorotoluene         ND         0.50         1         10/03/2015 20:37           4-Chlorotoluene         ND         0.50         1         10/03/2015 20:37           Dibromochloromethane         ND         0.50         1         10/03/2015 20:37           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/03/2015 20:37           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 20:37           1,2-Dibrlomoethane         ND         0.50         1         10/03/2015 20:37           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           1,1-Dichloroethane         ND         0.50         1         10/03/2015 20:37           1,1-Dichloroethane         ND         0.50         1         10/03/2015 20:37           1,1-Dichloroethane         ND         0.50         1         10/03/2015 20:37           1,1-Dichloroethene         ND         0.5	Chloroform	ND		0.50	1	10/03/2015 20:37
4-Chlorotoluene         ND         0.50         1         10/03/2015 20:37           Dibromochloromethane         ND         0.50         1         10/03/2015 20:37           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/03/2015 20:37           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 20:37           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 20:37           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           1,1-Dichloroethane         ND         0.50         1         10/03/2015 20:37           1,1-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 20:37           1,1-Dichloroethene         ND         0.50         1         10/03/2015 20:37           1,1-Dichloroethene         ND         0.50         1         10/03/2015 20:37           trans-1,2-Dichloroethene <td< td=""><td>Chloromethane</td><td>ND</td><td></td><td>0.50</td><td>1</td><td>10/03/2015 20:37</td></td<>	Chloromethane	ND		0.50	1	10/03/2015 20:37
Dibromochloromethane         ND         0.50         1         10/03/2015 20:37           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/03/2015 20:37           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 20:37           Dibromomethane         ND         0.50         1         10/03/2015 20:37           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           1,1-Dichloroethane         ND         0.50         1         10/03/2015 20:37           1,1-Dichloroethane         ND         0.50         1         10/03/2015 20:37           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 20:37           1,1-Dichloroethene         ND         0.50         1         10/03/2015 20:37           1,2-Dichloroethene         ND         0.50         1         10/03/2015 20:37           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 20:37           trans-1,2-Dichloroethene	2-Chlorotoluene	ND		0.50	1	10/03/2015 20:37
1,2-Dibromo-3-chloropropane         ND         0.20         1         10/03/2015 20:37           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 20:37           Dibromomethane         ND         0.50         1         10/03/2015 20:37           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           Dichlorodifluoromethane         ND         0.50         1         10/03/2015 20:37           1,1-Dichloroethane         ND         0.50         1         10/03/2015 20:37           1,2-Dichloroethane         ND         0.50         1         10/03/2015 20:37           1,1-Dichloroethene         ND         0.50         1         10/03/2015 20:37           1,1-Dichloroethene         ND         0.50         1         10/03/2015 20:37           1,2-Dichloroethene         ND         0.50         1         10/03/2015 20:37           1,2-Dichloropropane         ND         0.50         1         10/03/2015 20:37           1,3-Dichloropropane         ND         <	4-Chlorotoluene	ND		0.50	1	10/03/2015 20:37
1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 20:37           Dibromomethane         ND         0.50         1         10/03/2015 20:37           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           Dichlorodifluoromethane         ND         0.50         1         10/03/2015 20:37           1,1-Dichloroethane         ND         0.50         1         10/03/2015 20:37           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 20:37           1,1-Dichloroethene         ND         0.50         1         10/03/2015 20:37           cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 20:37           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 20:37           1,2-Dichloropropane         ND         0.50         1         10/03/2015 20:37           1,3-Dichloropropane         ND         0.50         1         10/03/2015 20:37	Dibromochloromethane	ND		0.50	1	10/03/2015 20:37
Dibromomethane         ND         0.50         1         10/03/2015 20:37           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           Dichlorodifluoromethane         ND         0.50         1         10/03/2015 20:37           1,1-Dichloroethane         ND         0.50         1         10/03/2015 20:37           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 20:37           1,1-Dichloroethene         ND         0.50         1         10/03/2015 20:37           cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 20:37           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 20:37           1,2-Dichloropropane         ND         0.50         1         10/03/2015 20:37           1,3-Dichloropropane         ND         0.50         1         10/03/2015 20:37	1,2-Dibromo-3-chloropropane	ND		0.20	1	10/03/2015 20:37
1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           Dichlorodifluoromethane         ND         0.50         1         10/03/2015 20:37           1,1-Dichloroethane         ND         0.50         1         10/03/2015 20:37           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 20:37           1,1-Dichloroethene         ND         0.50         1         10/03/2015 20:37           cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 20:37           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 20:37           1,2-Dichloropropane         ND         0.50         1         10/03/2015 20:37           1,3-Dichloropropane         ND         0.50         1         10/03/2015 20:37	1,2-Dibromoethane (EDB)	ND		0.50	1	10/03/2015 20:37
1,3-Dichlorobenzene       ND       0.50       1       10/03/2015 20:37         1,4-Dichlorobenzene       ND       0.50       1       10/03/2015 20:37         Dichlorodifluoromethane       ND       0.50       1       10/03/2015 20:37         1,1-Dichloroethane       ND       0.50       1       10/03/2015 20:37         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/03/2015 20:37         1,1-Dichloroethene       ND       0.50       1       10/03/2015 20:37         cis-1,2-Dichloroethene       ND       0.50       1       10/03/2015 20:37         trans-1,2-Dichloroethene       ND       0.50       1       10/03/2015 20:37         1,2-Dichloropropane       ND       0.50       1       10/03/2015 20:37         1,3-Dichloropropane       ND       0.50       1       10/03/2015 20:37	Dibromomethane	ND		0.50	1	10/03/2015 20:37
1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 20:37           Dichlorodifluoromethane         ND         0.50         1         10/03/2015 20:37           1,1-Dichloroethane         ND         0.50         1         10/03/2015 20:37           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 20:37           1,1-Dichloroethene         ND         0.50         1         10/03/2015 20:37           cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 20:37           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 20:37           1,2-Dichloropropane         ND         0.50         1         10/03/2015 20:37           1,3-Dichloropropane         ND         0.50         1         10/03/2015 20:37	1,2-Dichlorobenzene	ND		0.50	1	10/03/2015 20:37
Dichlorodifluoromethane         ND         0.50         1         10/03/2015 20:37           1,1-Dichloroethane         ND         0.50         1         10/03/2015 20:37           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 20:37           1,1-Dichloroethene         ND         0.50         1         10/03/2015 20:37           cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 20:37           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 20:37           1,2-Dichloropropane         ND         0.50         1         10/03/2015 20:37           1,3-Dichloropropane         ND         0.50         1         10/03/2015 20:37	1,3-Dichlorobenzene	ND		0.50	1	10/03/2015 20:37
1,1-Dichloroethane       ND       0.50       1       10/03/2015 20:37         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/03/2015 20:37         1,1-Dichloroethene       ND       0.50       1       10/03/2015 20:37         cis-1,2-Dichloroethene       ND       0.50       1       10/03/2015 20:37         trans-1,2-Dichloroethene       ND       0.50       1       10/03/2015 20:37         1,2-Dichloropropane       ND       0.50       1       10/03/2015 20:37         1,3-Dichloropropane       ND       0.50       1       10/03/2015 20:37	1,4-Dichlorobenzene	ND		0.50	1	10/03/2015 20:37
1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/03/2015 20:37         1,1-Dichloroethene       ND       0.50       1       10/03/2015 20:37         cis-1,2-Dichloroethene       ND       0.50       1       10/03/2015 20:37         trans-1,2-Dichloroethene       ND       0.50       1       10/03/2015 20:37         1,2-Dichloropropane       ND       0.50       1       10/03/2015 20:37         1,3-Dichloropropane       ND       0.50       1       10/03/2015 20:37	Dichlorodifluoromethane	ND		0.50	1	10/03/2015 20:37
1,1-Dichloroethene         ND         0.50         1         10/03/2015 20:37           cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 20:37           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 20:37           1,2-Dichloropropane         ND         0.50         1         10/03/2015 20:37           1,3-Dichloropropane         ND         0.50         1         10/03/2015 20:37	1,1-Dichloroethane	ND		0.50	1	10/03/2015 20:37
cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 20:37           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 20:37           1,2-Dichloropropane         ND         0.50         1         10/03/2015 20:37           1,3-Dichloropropane         ND         0.50         1         10/03/2015 20:37	1,2-Dichloroethane (1,2-DCA)	ND		0.50	1	10/03/2015 20:37
trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 20:37           1,2-Dichloropropane         ND         0.50         1         10/03/2015 20:37           1,3-Dichloropropane         ND         0.50         1         10/03/2015 20:37	1,1-Dichloroethene	ND		0.50	1	10/03/2015 20:37
1,2-Dichloropropane         ND         0.50         1         10/03/2015 20:37           1,3-Dichloropropane         ND         0.50         1         10/03/2015 20:37	cis-1,2-Dichloroethene	ND		0.50	1	10/03/2015 20:37
1,3-Dichloropropane         ND         0.50         1         10/03/2015 20:37	trans-1,2-Dichloroethene	ND		0.50	1	10/03/2015 20:37
1,3-Dichloropropane         ND         0.50         1         10/03/2015 20:37	1,2-Dichloropropane	ND		0.50	1	10/03/2015 20:37
2,2-Dichloropropane         ND         0.50         1         10/03/2015 20:37	1,3-Dichloropropane	ND		0.50	1	10/03/2015 20:37
	2,2-Dichloropropane	ND		0.50	1	10/03/2015 20:37



# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30 **Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
W-ECB9	1509A62-011B	Water	09/25/20	015 16:40 GC16	111088
Analytes	<u>Result</u>		<u>RL</u>	<u>DF</u>	Date Analyzed
1,1-Dichloropropene	ND		0.50	1	10/03/2015 20:37
cis-1,3-Dichloropropene	ND		0.50	1	10/03/2015 20:37
trans-1,3-Dichloropropene	ND		0.50	1	10/03/2015 20:37
Diisopropyl ether (DIPE)	ND		0.50	1	10/03/2015 20:37
Ethylbenzene	ND		0.50	1	10/03/2015 20:37
Ethyl tert-butyl ether (ETBE)	ND		0.50	1	10/03/2015 20:37
Freon 113	ND		0.50	1	10/03/2015 20:37
Hexachlorobutadiene	ND		0.50	1	10/03/2015 20:37
Hexachloroethane	ND		0.50	1	10/03/2015 20:37
2-Hexanone	ND		0.50	1	10/03/2015 20:37
Isopropylbenzene	ND		0.50	1	10/03/2015 20:37
4-Isopropyl toluene	ND		0.50	1	10/03/2015 20:37
Methyl-t-butyl ether (MTBE)	ND		0.50	1	10/03/2015 20:37
Methylene chloride	ND		0.50	1	10/03/2015 20:37
4-Methyl-2-pentanone (MIBK)	ND		0.50	1	10/03/2015 20:37
Naphthalene	ND		0.50	1	10/03/2015 20:37
n-Propyl benzene	ND		0.50	1	10/03/2015 20:37
Styrene	ND		0.50	1	10/03/2015 20:37
1,1,1,2-Tetrachloroethane	ND		0.50	1	10/03/2015 20:37
1,1,2,2-Tetrachloroethane	ND		0.50	1	10/03/2015 20:37
Tetrachloroethene	ND		0.50	1	10/03/2015 20:37
Toluene	ND		0.50	1	10/03/2015 20:37
1,2,3-Trichlorobenzene	ND		0.50	1	10/03/2015 20:37
1,2,4-Trichlorobenzene	ND		0.50	1	10/03/2015 20:37
1,1,1-Trichloroethane	ND		0.50	1	10/03/2015 20:37
1,1,2-Trichloroethane	ND		0.50	1	10/03/2015 20:37
Trichloroethene	ND		0.50	1	10/03/2015 20:37
Trichlorofluoromethane	ND		0.50	1	10/03/2015 20:37
1,2,3-Trichloropropane	ND		0.50	1	10/03/2015 20:37
1,2,4-Trimethylbenzene	ND		0.50	1	10/03/2015 20:37
1,3,5-Trimethylbenzene	ND		0.50	1	10/03/2015 20:37
Vinyl Chloride	ND		0.50	1	10/03/2015 20:37
Xylenes, Total	ND		0.50	1	10/03/2015 20:37

# **Analytical Report**

**Client: Essel Environmental Consulting** 

**Date Received:** 9/25/15 19:30

**Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC WorkOrder: 1509A62

**Extraction Method: SW5030B** 

**Analytical Method: SW8260B** 

Unit: μg/L

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID
W-ECB9	1509A62-011B	Water	09/25/20	15 16:40 GC16	111088
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	95		70-130		10/03/2015 20:37
Toluene-d8	91		70-130		10/03/2015 20:37
4-BFB	85		70-130		10/03/2015 20:37



**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30 **Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

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

Client ID	Lab ID	Matrix	Date C	collected Instrument	Batch ID
W-ECB10	1509A62-012B	Water	09/25/20	015 16:17 GC16	111088
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Acetone	19		10	1	10/03/2015 21:19
tert-Amyl methyl ether (TAME)	ND		0.50	1	10/03/2015 21:19
Benzene	ND		0.50	1	10/03/2015 21:19
Bromobenzene	ND		0.50	1	10/03/2015 21:19
Bromochloromethane	ND		0.50	1	10/03/2015 21:19
Bromodichloromethane	ND		0.50	1	10/03/2015 21:19
Bromoform	ND		0.50	1	10/03/2015 21:19
Bromomethane	ND		0.50	1	10/03/2015 21:19
2-Butanone (MEK)	4.8		2.0	1	10/03/2015 21:19
t-Butyl alcohol (TBA)	ND		2.0	1	10/03/2015 21:19
n-Butyl benzene	ND		0.50	1	10/03/2015 21:19
sec-Butyl benzene	0.67		0.50	1	10/03/2015 21:19
tert-Butyl benzene	ND		0.50	1	10/03/2015 21:19
Carbon Disulfide	ND		0.50	1	10/03/2015 21:19
Carbon Tetrachloride	ND		0.50	1	10/03/2015 21:19
Chlorobenzene	ND		0.50	1	10/03/2015 21:19
Chloroethane	ND		0.50	1	10/03/2015 21:19
Chloroform	ND		0.50	1	10/03/2015 21:19
Chloromethane	ND		0.50	1	10/03/2015 21:19
2-Chlorotoluene	ND		0.50	1	10/03/2015 21:19
4-Chlorotoluene	ND		0.50	1	10/03/2015 21:19
Dibromochloromethane	ND		0.50	1	10/03/2015 21:19
1,2-Dibromo-3-chloropropane	ND		0.20	1	10/03/2015 21:19
1,2-Dibromoethane (EDB)	ND		0.50	1	10/03/2015 21:19
Dibromomethane	ND		0.50	1	10/03/2015 21:19
1,2-Dichlorobenzene	ND		0.50	1	10/03/2015 21:19
1,3-Dichlorobenzene	ND		0.50	1	10/03/2015 21:19
1,4-Dichlorobenzene	ND		0.50	1	10/03/2015 21:19
Dichlorodifluoromethane	ND		0.50	1	10/03/2015 21:19
1,1-Dichloroethane	ND		0.50	1	10/03/2015 21:19
1,2-Dichloroethane (1,2-DCA)	ND		0.50	1	10/03/2015 21:19
1,1-Dichloroethene	ND		0.50	1	10/03/2015 21:19
cis-1,2-Dichloroethene	ND		0.50	1	10/03/2015 21:19
trans-1,2-Dichloroethene	ND		0.50	1	10/03/2015 21:19
1,2-Dichloropropane	ND		0.50	1	10/03/2015 21:19
1,3-Dichloropropane	ND		0.50	1	10/03/2015 21:19
2,2-Dichloropropane	ND		0.50	1	10/03/2015 21:19



# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 10/1/15-10/3/15 **Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID
W-ECB10	1509A62-012B	Water	09/25/20	15 16:17 GC16	111088
Analytes	Result		<u>RL</u>	DF	Date Analyzed
1,1-Dichloropropene	ND		0.50	1	10/03/2015 21:19
cis-1,3-Dichloropropene	ND		0.50	1	10/03/2015 21:19
trans-1,3-Dichloropropene	ND		0.50	1	10/03/2015 21:19
Diisopropyl ether (DIPE)	ND		0.50	1	10/03/2015 21:19
Ethylbenzene	ND		0.50	1	10/03/2015 21:19
Ethyl tert-butyl ether (ETBE)	ND		0.50	1	10/03/2015 21:19
Freon 113	ND		0.50	1	10/03/2015 21:19
Hexachlorobutadiene	ND		0.50	1	10/03/2015 21:19
Hexachloroethane	ND		0.50	1	10/03/2015 21:19
2-Hexanone	ND		0.50	1	10/03/2015 21:19
Isopropylbenzene	ND		0.50	1	10/03/2015 21:19
4-Isopropyl toluene	ND		0.50	1	10/03/2015 21:19
Methyl-t-butyl ether (MTBE)	ND		0.50	1	10/03/2015 21:19
Methylene chloride	ND		0.50	1	10/03/2015 21:19
4-Methyl-2-pentanone (MIBK)	0.99		0.50	1	10/03/2015 21:19
Naphthalene	ND		0.50	1	10/03/2015 21:19
n-Propyl benzene	ND		0.50	1	10/03/2015 21:19
Styrene	ND		0.50	1	10/03/2015 21:19
1,1,1,2-Tetrachloroethane	ND		0.50	1	10/03/2015 21:19
1,1,2,2-Tetrachloroethane	ND		0.50	1	10/03/2015 21:19
Tetrachloroethene	ND		0.50	1	10/03/2015 21:19
Toluene	ND		0.50	1	10/03/2015 21:19
1,2,3-Trichlorobenzene	ND		0.50	1	10/03/2015 21:19
1,2,4-Trichlorobenzene	ND		0.50	1	10/03/2015 21:19
1,1,1-Trichloroethane	ND		0.50	1	10/03/2015 21:19
1,1,2-Trichloroethane	ND		0.50	1	10/03/2015 21:19
Trichloroethene	ND		0.50	1	10/03/2015 21:19
Trichlorofluoromethane	ND		0.50	1	10/03/2015 21:19
1,2,3-Trichloropropane	ND		0.50	1	10/03/2015 21:19
1,2,4-Trimethylbenzene	ND		0.50	1	10/03/2015 21:19
1,3,5-Trimethylbenzene	ND		0.50	1	10/03/2015 21:19
Vinyl Chloride	ND		0.50	1	10/03/2015 21:19
Xylenes, Total	ND		0.50	1	10/03/2015 21:19

# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 10/1/15-10/3/15 **Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

**Unit:** μg/L

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID
W-ECB10	1509A62-012B	Water	09/25/20	15 16:17 GC16	111088
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
<u>Surrogates</u>	REC (%)		<u>Limits</u>		
Dibromofluoromethane	95		70-130		10/03/2015 21:19
Toluene-d8	90		70-130		10/03/2015 21:19
4-BFB	91		70-130		10/03/2015 21:19
Analyst(s): KF			Analytical Comr	ments: b1	

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30 **Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

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

WECBI1         1509A62-013B         Water         09/25/2015 16:02         GC16         111088           Analytes         Result         RL         DE         Date Analyzed           Acetone         ND         10         1         10/02/2015 22:32           Bername         ND         0.50         1         10/02/2015 22:32           Bromoben Erene         ND         0.50         1         10/02/2015 22:32           Bromodelitoromethane         ND         0.50         1         10/02/2015 22:32           Bromodelitoromethane         ND         0.50         1         10/02/2015 22:32           Bromoderitoromethane         0.67         0.50         1         10/02/2015 22:32           Bromoderitoromethane         0.67         0.50         1         10/02/2015 22:32           Puttanioromethane         0.67         0.50 <th>Client ID</th> <th>Lab ID</th> <th>Matrix</th> <th>Date C</th> <th>collected Instrument</th> <th>Batch ID</th>	Client ID	Lab ID	Matrix	Date C	collected Instrument	Batch ID
Acetone         ND         10         1         10/02/2015 22:23           tart-Mryl methyl ether (TAME)         ND         0.50         1         10/02/2015 22:32           Benzene         ND         0.50         1         10/02/2015 22:32           Bromochloromethane         ND         0.50         1         10/02/2015 22:32           Bromochloromethane         ND         0.50         1         10/02/2015 22:32           Bromofich (TAME)         ND         0.50         1         10/02/2015 22:32           Butyl alcohol (TBA)         ND         2.0         1         10/02/2015 22:32           Butyl benzene         ND         0.50         1         10/02/2015 22:32           ter-Butyl benzene         ND         0.50         1         10/02/2015 22:32           ter-Butyl benzene         ND         0.50         1         10/02/2015 22:32           ter-Butyl benzene         ND         0.50         1         10/02	W-ECB11	1509A62-013B	Water	09/25/20	015 16:02 GC16	111088
tert-Amyl methyl ether (TAME)         ND         0.50         1         10/02/2015 22:23           Benzene         ND         0.50         1         10/02/2015 22:23           Bromobenzene         ND         0.50         1         10/02/2015 22:23           Bromochloromethane         ND         0.50         1         10/02/2015 22:23           Bromodichloromethane         ND         0.50         1         10/02/2015 22:23           Bromodichloromethane         ND         0.50         1         10/02/2015 22:23           Bromodichloromethane         0.67         0.50         1         10/02/2015 22:23           Brown Dissiphide         ND         0.50         1         10/02/2015 22:23           Carbon Dissiphide         ND <t< th=""><th><u>Analytes</u></th><th>Result</th><th></th><th><u>RL</u></th><th><u>DF</u></th><th>Date Analyzed</th></t<>	<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Benzene	Acetone	ND		10	1	10/02/2015 22:23
Bromobenzene         ND         0.50         1         10/02/2015 22:23           Bromochloromethane         ND         0.50         1         10/02/2015 22:23           Bromodichloromethane         ND         0.50         1         10/02/2015 22:23           Bromoform         ND         0.50         1         10/02/2015 22:23           Bromomethane         0.67         0.50         1         10/02/2015 22:23           Bromomethane         0.67         0.50         1         10/02/2015 22:23           Butyl alcohol (TBA)         ND         2.0         1         10/02/2015 22:23           1-Butyl benzene         ND         0.50         1         10/02/2015 22:23           sec-Butyl benzene         ND         0.50         1         10/02/2015 22:23           sec-Butyl benzene         ND         0.50         1         10/02/2015 22:23           sec-Butyl benzene         ND         0.50         1         10/02/2015 22:23           carbon Tetrachloride         ND         0.50         1         10/02/2015 22:23           Carbon Tetrachloride         ND         0.50         1         10/02/2015 22:23           Chlorothane         ND         0.50         1         10/02/	tert-Amyl methyl ether (TAME)	ND		0.50	1	10/02/2015 22:23
Bromochloromethane         ND         0.50         1         10/02/2015 22:23           Bromodichloromethane         ND         0.50         1         10/02/2015 22:23           Bromoform         ND         0.50         1         10/02/2015 22:23           Bromomethane         0.67         0.50         1         10/02/2015 22:23           2-Butanone (MEK)         2.6         2.0         1         10/02/2015 22:23           1-Butyl alcohol (TBA)         ND         2.0         1         10/02/2015 22:23           sec-Butyl benzene         ND         0.50         1         10/02/2015 22:23           sec-Butyl benzene         ND         0.50         1         10/02/2015 22:23           cer-Butyl benzene         ND         0.50         1         10/02/2015 22:23           cer-Butyl benzene         ND         0.50         1         10/02/2015 22:23           cer-Butyl benzene         ND         0.50         1         10/02/2015 22:23           Carbon Tetrachloride         ND         0.50         1         10/02/2015 22:23           Chlorobenzene         ND         0.50         1         10/02/2015 22:23           Chlorobenzene         ND         0.50         1	Benzene	ND		0.50	1	10/02/2015 22:23
Bromodichloromethane         ND         0.50         1         10/02/2015 22:23           Bromoform         ND         0.50         1         10/02/2015 22:23           Bromomethane         0.67         0.50         1         10/02/2015 22:23           Z-Butanone (MEK)         2.6         2.0         1         10/02/2015 22:23           t-Butyl alcohol (TBA)         ND         2.0         1         10/02/2015 22:23           t-Butyl benzene         ND         0.50         1         10/02/2015 22:23           sec-Butyl benzene         ND         0.50         1         10/02/2015 22:23           tert-Butyl benzene         ND         0.50         1         10/02/2015 22:23           Carbon Disulfide         ND         0.50         1         10/02/2015 22:23           Carbon Disulfide         ND         0.50         1         10/02/2015 22:23           Carbon Tetrachloride         ND         0.50         1         10/02/2015 22:23           Carbon Tetrachloride         ND         0.50         1         10/02/2015 22:23           Chlorodenzene         ND         0.50         1         10/02/2015 22:23           Chloroderbane         ND         0.50         1         1	Bromobenzene	ND		0.50	1	10/02/2015 22:23
Bromoform         ND         0.50         1         10/02/2015 22:23           Bromomethane         0.67         0.50         1         10/02/2015 22:23           2-Butanone (MEK)         2.6         2.0         1         10/02/2015 22:23           I-Butyl obol (TBA)         ND         2.0         1         10/02/2015 22:23           n-Butyl benzene         ND         0.50         1         10/02/2015 22:23           sec-Butyl benzene         ND         0.50         1         10/02/2015 22:23           sec-Butyl benzene         ND         0.50         1         10/02/2015 22:23           Carbon Disulfide         ND         0.50         1         10/02/2015 22:23           Carbon Tetrachloride         ND         0.50         1         10/02/2015 22:3           Chlorothane         ND         0.50         1         10/02/2015 22	Bromochloromethane	ND		0.50	1	10/02/2015 22:23
Bromomethane	Bromodichloromethane	ND		0.50	1	10/02/2015 22:23
2-Butanone (MEK)         2.6         2.0         1         10/02/2015 22:23           t-Butyl alcohol (TBA)         ND         2.0         1         10/02/2015 22:23           n-Butyl benzene         ND         0.50         1         10/02/2015 22:23           sec-Butyl benzene         ND         0.50         1         10/02/2015 22:23           tert-Butyl benzene         ND         0.50         1         10/02/2015 22:23           Carbon Disulfide         ND         0.50         1         10/02/2015 22:23           Carbon Disulfide         ND         0.50         1         10/02/2015 22:23           Carbon Tetrachloride         ND         0.50         1         10/02/2015 22:23           Chlorothane         ND         0.50         1         10/02/2015 22:23           Chlorotoluene         ND         0.50         1         10/02/2015 22:23           2-Chlorotoluene         ND         0.50         1         10/02/2015 22:23 </td <td>Bromoform</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td>10/02/2015 22:23</td>	Bromoform	ND		0.50	1	10/02/2015 22:23
t-Butyl alcohol (TBA) ND 2.0 1 10/02/2015 22:23 n-Butyl benzene ND 0.50 1 10/02/2015 22:23 sec-Butyl benzene ND 0.50 1 10/02/2015 22:23 sec-Butyl benzene ND 0.50 1 10/02/2015 22:23 sec-Butyl benzene ND 0.50 1 10/02/2015 22:23 Carbon Disulfide ND 0.50 1 10/02/2015 22:23 Carbon Disulfide ND 0.50 1 10/02/2015 22:23 Carbon Tosulfide ND 0.50 1 10/02/2015 22:23 Carbon Tetrachloride ND 0.50 1 10/02/2015 22:23 Chlorobenzene ND 0.50 1 10/02/2015 22:23 Chlorobenzene ND 0.50 1 10/02/2015 22:23 Chloroform ND 0.50 1 10/02/2015 22:23 Chloroform ND 0.50 1 10/02/2015 22:23 Chloroform ND 0.50 1 10/02/2015 22:23 Chlorothane ND 0.50 1 10/02/2015 22:23 1,2-Dibromochloromethane ND 0.50 1 10/02/2015 22:23 1,2-Dibromo-3-chloropropane ND 0.50 1 10/02/2015 22:23 1,2-Dibromo-3-chloropropane ND 0.50 1 10/02/2015 22:23 1,2-Dibromoethane (EDB) ND 0.50 1 10/02/2015 22:23 1,2-Dibromoethane ND 0.50 1 10/02/2015 22:23 1,2-Dichlorobenzene ND 0.50 1 10/02/2015 22:23 1,2-Dichlorothane ND 0.50 1 10/0	Bromomethane	0.67		0.50	1	10/02/2015 22:23
n-Butyl benzene         ND         0.50         1         10/02/2015 22:23           sec-Butyl benzene         ND         0.50         1         10/02/2015 22:23           tert-Butyl benzene         ND         0.50         1         10/02/2015 22:23           Carbon Disulfide         ND         0.50         1         10/02/2015 22:23           Carbon Disulfide         ND         0.50         1         10/02/2015 22:23           Carbon Tetrachloride         ND         0.50         1         10/02/2015 22:23           Chlorobenzene         ND         0.50         1         10/02/2015 22:23           Chlorotethane         ND         0.50         1         10/02/2015 22:23           Chloroform         ND         0.50         1         10/02/2015 22:23           Chlorotoluene         ND         0.50         1         10/02/2015 22:23           4-Chlorotoluene         ND         0.50         1         10/02/2015 22:23           4-Chlorotoluene         ND         0.50         1         10/02/2015 22:23           Ji-Dibromochloromethane         ND         0.50         1         10/02/2015 22:23           J,2-Dibromochloropropane         ND         0.50         1	2-Butanone (MEK)	2.6		2.0	1	10/02/2015 22:23
sec-Butyl benzene         ND         0.50         1         10/02/2015 22:23           tert-Butyl benzene         ND         0.50         1         10/02/2015 22:23           Carbon Disulfide         ND         0.50         1         10/02/2015 22:23           Carbon Tetrachloride         ND         0.50         1         10/02/2015 22:23           Chlorobenzene         ND         0.50         1         10/02/2015 22:23           Chlorotethane         ND         0.50         1         10/02/2015 22:23           Chlorotofrem         ND         0.50         1         10/02/2015 22:23           Chlorotofrem         ND         0.50         1         10/02/2015 22:23           Chlorotoluene         ND         0.50         1         10/02/2015 22:23           2-Chlorotoluene         ND         0.50         1         10/02/2015 22:23           4-Chlorotoluene         ND         0.50         1         10/02/2015 22:23           Dibromochloromethane         ND         0.50         1         10/02/2015 22:23           Dibromochloromethane         ND         0.50         1         10/02/2015 22:23           1,2-Dibromochlane (EDB)         ND         0.50         1         1	t-Butyl alcohol (TBA)	ND		2.0	1	10/02/2015 22:23
tert-Butyl benzene         ND         0.50         1         10/02/2015 22:23           Carbon Disulfide         ND         0.50         1         10/02/2015 22:23           Carbon Tetrachloride         ND         0.50         1         10/02/2015 22:23           Chlorobenzene         ND         0.50         1         10/02/2015 22:23           Chlorotehane         ND         0.50         1         10/02/2015 22:23           Chloroform         ND         0.50         1         10/02/2015 22:23           Chloroform         ND         0.50         1         10/02/2015 22:23           Chlorotoluene         ND         0.50         1         10/02/2015 22:23           4-Chlorotoluene         ND         0.50         1         10/02/2015 22:23           4-Chlorotoluene         ND         0.50         1         10/02/2015 22:23           Dibromochloromethane         ND         0.50         1         10/02/2015 22:23           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/02/2015 22:23           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 22:23           1,2-Dibromoethane         ND         0.50         1 <td< td=""><td>n-Butyl benzene</td><td>ND</td><td></td><td>0.50</td><td>1</td><td>10/02/2015 22:23</td></td<>	n-Butyl benzene	ND		0.50	1	10/02/2015 22:23
Carbon Disulfide         ND         0.50         1         10/02/2015 22:23           Carbon Tetrachloride         ND         0.50         1         10/02/2015 22:23           Chlorobenzene         ND         0.50         1         10/02/2015 22:23           Chloroethane         ND         0.50         1         10/02/2015 22:23           Chloroform         ND         0.50         1         10/02/2015 22:23           Chlorotofume         ND         0.50         1         10/02/2015 22:23           2-Chlorotoluene         ND         0.50         1         10/02/2015 22:23           4-Chlorotoluene         ND         0.50         1         10/02/2015 22:23           4-Chlorotoluene         ND         0.50         1         10/02/2015 22:23           1/2-Dibromochloromethane         ND         0.50         1         10/02/2015 22:23           1/2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 22:23           1/2-Dibromoethane         ND         0.50         1         10/02/2015 22:23           1/2-Dibromoethane         ND         0.50         1         10/02/2015 22:23           1/2-Dichlorobenzene         ND         0.50         1	sec-Butyl benzene	ND		0.50	1	10/02/2015 22:23
Carbon Tetrachloride         ND         0.50         1         10/02/2015 22:23           Chlorobenzene         ND         0.50         1         10/02/2015 22:23           Chloroethane         ND         0.50         1         10/02/2015 22:23           Chloroform         ND         0.50         1         10/02/2015 22:23           Chloromethane         ND         0.50         1         10/02/2015 22:23           2-Chlorotoluene         ND         0.50         1         10/02/2015 22:23           4-Chlorotoluene         ND         0.50         1         10/02/2015 22:23           4-Chlorotoluene         ND         0.50         1         10/02/2015 22:23           Dibromochloromethane         ND         0.50         1         10/02/2015 22:23           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/02/2015 22:23           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 22:23           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 22:23           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 22:23           1,4-Dichlorobenzene         ND         0.50         1	tert-Butyl benzene	ND		0.50	1	10/02/2015 22:23
Chlorobenzene         ND         0.50         1         10/02/2015 22:23           Chloroethane         ND         0.50         1         10/02/2015 22:23           Chloroform         ND         0.50         1         10/02/2015 22:23           Chlorotoluene         ND         0.50         1         10/02/2015 22:23           2-Chlorotoluene         ND         0.50         1         10/02/2015 22:23           4-Chlorotoluene         ND         0.50         1         10/02/2015 22:23           1/2-Dibromo-3-chloropropane         ND         0.50         1         10/02/2015 22:23           1/2-Dibromo-3-chloropropane         ND         0.50         1         10/02/2015 22:23           1/2-Dibromo-s-chloropropane         ND         0.50         1         10/02/2015 22:23           1/2-Dibromo-s-chloropropane         ND         0.50         1         10/02/2015 22:23           1/2-Dichlorobenzene         ND         0.50         <	Carbon Disulfide	ND		0.50	1	10/02/2015 22:23
Chloroethane         ND         0.50         1         10/02/2015 22:23           Chloroform         ND         0.50         1         10/02/2015 22:23           Chloromethane         ND         0.50         1         10/02/2015 22:23           2-Chlorotoluene         ND         0.50         1         10/02/2015 22:23           4-Chlorotoluene         ND         0.50         1         10/02/2015 22:23           4-Chlorotoluene         ND         0.50         1         10/02/2015 22:23           Dibromochloromethane         ND         0.50         1         10/02/2015 22:23           Dibromochloromethane         ND         0.50         1         10/02/2015 22:23           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/02/2015 22:23           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 22:23           Dibromomethane (EDB)         ND         0.50         1         10/02/2015 22:23           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 22:23           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 22:23           1,4-Dichlorobenzene         ND         0.50	Carbon Tetrachloride	ND		0.50	1	10/02/2015 22:23
Chloroform         ND         0.50         1         10/02/2015 22:23           Chloromethane         ND         0.50         1         10/02/2015 22:23           2-Chlorotoluene         ND         0.50         1         10/02/2015 22:23           4-Chlorotoluene         ND         0.50         1         10/02/2015 22:23           4-Chlorotoluene         ND         0.50         1         10/02/2015 22:23           1,2-Dibromochloromethane         ND         0.50         1         10/02/2015 22:23           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/02/2015 22:23           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 22:23           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 22:23           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 22:23           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 22:23           1,4-Dichlorodifluoromethane         ND         0.50         1         10/02/2015 22:23           1,1-Dichloroethane         ND         0.50         1         10/02/2015 22:23           1,2-Dichloroethane         ND         0.50 <td>Chlorobenzene</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td>10/02/2015 22:23</td>	Chlorobenzene	ND		0.50	1	10/02/2015 22:23
Chloromethane ND 0.50 1 10/02/2015 22:23 2-Chlorotoluene ND 0.50 1 10/02/2015 22:23 4-Chlorotoluene ND 0.50 1 10/02/2015 22:23 4-Chlorotoluene ND 0.50 1 10/02/2015 22:23 Dibromochloromethane ND 0.50 1 10/02/2015 22:23 1,2-Dibromo-3-chloropropane ND 0.20 1 10/02/2015 22:23 1,2-Dibromoethane (EDB) ND 0.50 1 10/02/2015 22:23 1,2-Dibromoethane (EDB) ND 0.50 1 10/02/2015 22:23 1,2-Dichlorobenzene ND 0.50 1 10/02/2015 22:23 1,3-Dichlorobenzene ND 0.50 1 10/02/2015 22:23 1,3-Dichlorobenzene ND 0.50 1 10/02/2015 22:23 1,4-Dichlorobenzene ND 0.50 1 10/02/2015 22:23 1,4-Dichlorobenzene ND 0.50 1 10/02/2015 22:23 1,1-Dichlorodifluoromethane ND 0.50 1 10/02/2015 22:23 1,1-Dichloroethane ND 0.50 1 10/02/2015 22:23 1,1-Dichloroethene ND 0.50 1 10/02/2015 22:23 1,2-Dichloroethene ND 0.50 1 10/02/2015 22:23 1,3-Dichloropropane ND 0.50 1 10/02/2015 22:23	Chloroethane	ND		0.50	1	10/02/2015 22:23
2-Chlorotoluene         ND         0.50         1         10/02/2015 22:23           4-Chlorotoluene         ND         0.50         1         10/02/2015 22:23           Dibromochloromethane         ND         0.50         1         10/02/2015 22:23           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/02/2015 22:23           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 22:23           1,2-Dibromoethane         ND         0.50         1         10/02/2015 22:23           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 22:23           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 22:23           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 22:23           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 22:23           1,1-Dichloroethane         ND         0.50         1         10/02/2015 22:23           1,1-Dichloroethane         ND         0.50         1         10/02/2015 22:23           1,1-Dichloroethane         ND         0.50         1         10/02/2015 22:23           1,1-Dichloroethene         ND         0.50	Chloroform	ND		0.50	1	10/02/2015 22:23
4-Chlorotoluene         ND         0.50         1         10/02/2015 22:23           Dibromochloromethane         ND         0.50         1         10/02/2015 22:23           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/02/2015 22:23           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 22:23           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 22:23           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 22:23           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 22:23           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 22:23           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 22:23           1,1-Dichloroethane         ND         0.50         1         10/02/2015 22:23           1,1-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 22:23           1,1-Dichloroethene         ND         0.50         1         10/02/2015 22:23           1,1-Dichloroethene         ND         0.50         1         10/02/2015 22:23           trans-1,2-Dichloroethene <td< td=""><td>Chloromethane</td><td>ND</td><td></td><td>0.50</td><td>1</td><td>10/02/2015 22:23</td></td<>	Chloromethane	ND		0.50	1	10/02/2015 22:23
Dibromochloromethane         ND         0.50         1         10/02/2015 22:23           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/02/2015 22:23           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 22:23           Dibromomethane         ND         0.50         1         10/02/2015 22:23           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 22:23           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 22:23           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 22:23           1,1-Dichloroethane         ND         0.50         1         10/02/2015 22:23           1,1-Dichloroethane         ND         0.50         1         10/02/2015 22:23           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 22:23           1,1-Dichloroethene         ND         0.50         1         10/02/2015 22:23           1,2-Dichloroethene         ND         0.50         1         10/02/2015 22:23           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 22:23           1,2-Dichloropropane         ND <td>2-Chlorotoluene</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td>10/02/2015 22:23</td>	2-Chlorotoluene	ND		0.50	1	10/02/2015 22:23
1,2-Dibromo-3-chloropropane         ND         0.20         1         10/02/2015 22:23           1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 22:23           Dibromomethane         ND         0.50         1         10/02/2015 22:23           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 22:23           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 22:23           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 22:23           Dichlorodifluoromethane         ND         0.50         1         10/02/2015 22:23           1,1-Dichloroethane         ND         0.50         1         10/02/2015 22:23           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 22:23           1,1-Dichloroethene         ND         0.50         1         10/02/2015 22:23           1,2-Dichloroethene         ND         0.50         1         10/02/2015 22:23           1,2-Dichloroethene         ND         0.50         1         10/02/2015 22:23           1,2-Dichloropropane         ND         0.50         1         10/02/2015 22:23           1,3-Dichloropropane         ND	4-Chlorotoluene	ND		0.50	1	10/02/2015 22:23
1,2-Dibromoethane (EDB)         ND         0.50         1         10/02/2015 22:23           Dibromomethane         ND         0.50         1         10/02/2015 22:23           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 22:23           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 22:23           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 22:23           Dichlorodifluoromethane         ND         0.50         1         10/02/2015 22:23           1,1-Dichloroethane         ND         0.50         1         10/02/2015 22:23           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 22:23           1,1-Dichloroethene         ND         0.50         1         10/02/2015 22:23           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 22:23           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 22:23           1,2-Dichloropropane         ND         0.50         1         10/02/2015 22:23           1,3-Dichloropropane         ND         0.50         1         10/02/2015 22:23	Dibromochloromethane	ND		0.50	1	10/02/2015 22:23
Dibromomethane         ND         0.50         1         10/02/2015 22:23           1,2-Dichlorobenzene         ND         0.50         1         10/02/2015 22:23           1,3-Dichlorobenzene         ND         0.50         1         10/02/2015 22:23           1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 22:23           Dichlorodifluoromethane         ND         0.50         1         10/02/2015 22:23           1,1-Dichloroethane         ND         0.50         1         10/02/2015 22:23           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 22:23           1,1-Dichloroethene         ND         0.50         1         10/02/2015 22:23           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 22:23           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 22:23           1,2-Dichloropropane         ND         0.50         1         10/02/2015 22:23           1,3-Dichloropropane         ND         0.50         1         10/02/2015 22:23	1,2-Dibromo-3-chloropropane	ND		0.20	1	10/02/2015 22:23
1,2-Dichlorobenzene       ND       0.50       1       10/02/2015 22:23         1,3-Dichlorobenzene       ND       0.50       1       10/02/2015 22:23         1,4-Dichlorobenzene       ND       0.50       1       10/02/2015 22:23         Dichlorodifluoromethane       ND       0.50       1       10/02/2015 22:23         1,1-Dichloroethane       ND       0.50       1       10/02/2015 22:23         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/02/2015 22:23         1,1-Dichloroethene       ND       0.50       1       10/02/2015 22:23         cis-1,2-Dichloroethene       ND       0.50       1       10/02/2015 22:23         trans-1,2-Dichloroethene       ND       0.50       1       10/02/2015 22:23         1,2-Dichloropropane       ND       0.50       1       10/02/2015 22:23         1,3-Dichloropropane       ND       0.50       1       10/02/2015 22:23	1,2-Dibromoethane (EDB)	ND		0.50	1	10/02/2015 22:23
1,3-Dichlorobenzene       ND       0.50       1       10/02/2015 22:23         1,4-Dichlorobenzene       ND       0.50       1       10/02/2015 22:23         Dichlorodifluoromethane       ND       0.50       1       10/02/2015 22:23         1,1-Dichloroethane       ND       0.50       1       10/02/2015 22:23         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/02/2015 22:23         1,1-Dichloroethene       ND       0.50       1       10/02/2015 22:23         cis-1,2-Dichloroethene       ND       0.50       1       10/02/2015 22:23         trans-1,2-Dichloroethene       ND       0.50       1       10/02/2015 22:23         1,2-Dichloropropane       ND       0.50       1       10/02/2015 22:23         1,3-Dichloropropane       ND       0.50       1       10/02/2015 22:23	Dibromomethane	ND		0.50	1	10/02/2015 22:23
1,4-Dichlorobenzene         ND         0.50         1         10/02/2015 22:23           Dichlorodifluoromethane         ND         0.50         1         10/02/2015 22:23           1,1-Dichloroethane         ND         0.50         1         10/02/2015 22:23           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 22:23           1,1-Dichloroethene         ND         0.50         1         10/02/2015 22:23           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 22:23           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 22:23           1,2-Dichloropropane         ND         0.50         1         10/02/2015 22:23           1,3-Dichloropropane         ND         0.50         1         10/02/2015 22:23	1,2-Dichlorobenzene	ND		0.50	1	10/02/2015 22:23
Dichlorodifluoromethane         ND         0.50         1         10/02/2015 22:23           1,1-Dichloroethane         ND         0.50         1         10/02/2015 22:23           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/02/2015 22:23           1,1-Dichloroethene         ND         0.50         1         10/02/2015 22:23           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 22:23           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 22:23           1,2-Dichloropropane         ND         0.50         1         10/02/2015 22:23           1,3-Dichloropropane         ND         0.50         1         10/02/2015 22:23	1,3-Dichlorobenzene	ND		0.50	1	10/02/2015 22:23
1,1-Dichloroethane       ND       0.50       1       10/02/2015 22:23         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/02/2015 22:23         1,1-Dichloroethene       ND       0.50       1       10/02/2015 22:23         cis-1,2-Dichloroethene       ND       0.50       1       10/02/2015 22:23         trans-1,2-Dichloroethene       ND       0.50       1       10/02/2015 22:23         1,2-Dichloropropane       ND       0.50       1       10/02/2015 22:23         1,3-Dichloropropane       ND       0.50       1       10/02/2015 22:23	1,4-Dichlorobenzene	ND		0.50	1	10/02/2015 22:23
1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/02/2015 22:23         1,1-Dichloroethene       ND       0.50       1       10/02/2015 22:23         cis-1,2-Dichloroethene       ND       0.50       1       10/02/2015 22:23         trans-1,2-Dichloroethene       ND       0.50       1       10/02/2015 22:23         1,2-Dichloropropane       ND       0.50       1       10/02/2015 22:23         1,3-Dichloropropane       ND       0.50       1       10/02/2015 22:23	Dichlorodifluoromethane	ND		0.50	1	10/02/2015 22:23
1,1-Dichloroethene         ND         0.50         1         10/02/2015 22:23           cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 22:23           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 22:23           1,2-Dichloropropane         ND         0.50         1         10/02/2015 22:23           1,3-Dichloropropane         ND         0.50         1         10/02/2015 22:23	1,1-Dichloroethane	ND		0.50	1	10/02/2015 22:23
cis-1,2-Dichloroethene         ND         0.50         1         10/02/2015 22:23           trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 22:23           1,2-Dichloropropane         ND         0.50         1         10/02/2015 22:23           1,3-Dichloropropane         ND         0.50         1         10/02/2015 22:23	1,2-Dichloroethane (1,2-DCA)	ND		0.50	1	10/02/2015 22:23
trans-1,2-Dichloroethene         ND         0.50         1         10/02/2015 22:23           1,2-Dichloropropane         ND         0.50         1         10/02/2015 22:23           1,3-Dichloropropane         ND         0.50         1         10/02/2015 22:23	1,1-Dichloroethene	ND		0.50	1	10/02/2015 22:23
1,2-Dichloropropane         ND         0.50         1         10/02/2015 22:23           1,3-Dichloropropane         ND         0.50         1         10/02/2015 22:23	cis-1,2-Dichloroethene	ND		0.50	1	10/02/2015 22:23
1,3-Dichloropropane         ND         0.50         1         10/02/2015 22:23	trans-1,2-Dichloroethene	ND		0.50	1	10/02/2015 22:23
	1,2-Dichloropropane	ND		0.50	1	10/02/2015 22:23
2,2-Dichloropropane ND 0.50 1 10/02/2015 22:23	1,3-Dichloropropane	ND		0.50	1	10/02/2015 22:23
	2,2-Dichloropropane	ND		0.50	1	10/02/2015 22:23



# **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30 **Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
W-ECB11	1509A62-013B	Water	09/25/20	015 16:02 GC16	111088
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
1,1-Dichloropropene	ND		0.50	1	10/02/2015 22:23
cis-1,3-Dichloropropene	ND		0.50	1	10/02/2015 22:23
trans-1,3-Dichloropropene	ND		0.50	1	10/02/2015 22:23
Diisopropyl ether (DIPE)	ND		0.50	1	10/02/2015 22:23
Ethylbenzene	ND		0.50	1	10/02/2015 22:23
Ethyl tert-butyl ether (ETBE)	ND		0.50	1	10/02/2015 22:23
Freon 113	ND		0.50	1	10/02/2015 22:23
Hexachlorobutadiene	ND		0.50	1	10/02/2015 22:23
Hexachloroethane	ND		0.50	1	10/02/2015 22:23
2-Hexanone	ND		0.50	1	10/02/2015 22:23
Isopropylbenzene	ND		0.50	1	10/02/2015 22:23
4-Isopropyl toluene	ND		0.50	1	10/02/2015 22:23
Methyl-t-butyl ether (MTBE)	ND		0.50	1	10/02/2015 22:23
Methylene chloride	ND		0.50	1	10/02/2015 22:23
4-Methyl-2-pentanone (MIBK)	ND		0.50	1	10/02/2015 22:23
Naphthalene	ND		0.50	1	10/02/2015 22:23
n-Propyl benzene	ND		0.50	1	10/02/2015 22:23
Styrene	ND		0.50	1	10/02/2015 22:23
1,1,1,2-Tetrachloroethane	ND		0.50	1	10/02/2015 22:23
1,1,2,2-Tetrachloroethane	ND		0.50	1	10/02/2015 22:23
Tetrachloroethene	ND		0.50	1	10/02/2015 22:23
Toluene	ND		0.50	1	10/02/2015 22:23
1,2,3-Trichlorobenzene	ND		0.50	1	10/02/2015 22:23
1,2,4-Trichlorobenzene	ND		0.50	1	10/02/2015 22:23
1,1,1-Trichloroethane	ND		0.50	1	10/02/2015 22:23
1,1,2-Trichloroethane	ND		0.50	1	10/02/2015 22:23
Trichloroethene	ND		0.50	1	10/02/2015 22:23
Trichlorofluoromethane	ND		0.50	1	10/02/2015 22:23
1,2,3-Trichloropropane	ND		0.50	1	10/02/2015 22:23
1,2,4-Trimethylbenzene	ND		0.50	1	10/02/2015 22:23
1,3,5-Trimethylbenzene	ND		0.50	1	10/02/2015 22:23
Vinyl Chloride	ND		0.50	1	10/02/2015 22:23
Xylenes, Total	ND		0.50	1	10/02/2015 22:23

# **Analytical Report**

Client: Essel Environmental Consulting

**Date Received:** 9/25/15 19:30 **Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC

**WorkOrder:** 1509A62

**Analytical Method: SW8260B** 

**Extraction Method:** SW5030B

**Unit:** μg/L

Client ID	Lab ID	Matrix	Date Col	llected Instrument	Batch ID
W-ECB11	1509A62-013B	Water	09/25/201	5 16:02 GC16	111088
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	96		70-130		10/02/2015 22:23
Toluene-d8	94		70-130		10/02/2015 22:23
4-BFB	91		70-130		10/02/2015 22:23



**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30 **Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

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

Analytes         Result         RL         DE         Date Analyzed           Acatone         ND         10         1         10032015 22:02           Bername         ND         0.50         1         10032015 22:02           Bername         ND         0.50         1         10032015 22:02           Bername         ND         0.50         1         10032015 22:02           Bromobenzene         ND         0.50         1         10032015 22:02           Bromodichloromethane         ND         0.50         1         10032015 22:02           2-butanone (MEK)         2.2         2.0         1         10032015 22:02 <td< th=""><th>Client ID</th><th>Lab ID</th><th>Matrix</th><th>Date C</th><th>ollected</th><th>Instrument</th><th>Batch ID</th></td<>	Client ID	Lab ID	Matrix	Date C	ollected	Instrument	Batch ID
Acetone	W-ECB12	1509A62-014B	Water	09/25/20	15 15:54	GC16	111088
tert-Amyl methyl ether (TAME)         ND         0.50         1         10/03/2015 22:02           Benzene         ND         0.50         1         10/03/2015 22:02           Bromobenzene         ND         0.50         1         10/03/2015 22:02           Bromochloromethane         ND         0.50         1         10/03/2015 22:02           Bromodichloromethane         ND         0.50         1         10/03/2015 22:02           Bromomethane         ND         0.50         1         10/03/2015 22:02           Browner         ND         0.50         1         10/03/2015 22:02 <tr< td=""><td><u>Analytes</u></td><td>Result</td><td></td><td><u>RL</u></td><td>DF</td><td></td><td>Date Analyzed</td></tr<>	<u>Analytes</u>	Result		<u>RL</u>	DF		Date Analyzed
Benzene         ND         0.50         1         10/03/2015 22:02           Bromobenzene         ND         0.50         1         10/03/2015 22:02           Bromochloromethane         ND         0.50         1         10/03/2015 22:02           Bromodichloromethane         ND         0.50         1         10/03/2015 22:02           Bromoderm         ND         0.50         1         10/03/2015 22:02           Bromodethane         ND         0.50         1         10/03/2015 22:02           Bromomethane         ND         0.50         1         10/03/2015 22:02           2-Butanone (MEK)         2.2         2.0         1         10/03/2015 22:02           2-Butanone (MEK)         2.2         2.0         1         10/03/2015 22:02           1-Butyl lacchol (TBA)         ND         0.50         1         10/03/2015 22:02           1-Butyl benzene         ND         0.50         1         10/03/2015 22:02	Acetone	ND		10	1		10/03/2015 22:02
Bromobenzene         ND         0.50         1         10/03/2015 22:02           Bromochloromethane         ND         0.50         1         10/03/2015 22:02           Bromodichloromethane         ND         0.50         1         10/03/2015 22:02           Bromodichloromethane         ND         0.50         1         10/03/2015 22:02           Bromomethane         ND         0.50         1         10/03/2015 22:02           2-Butanone (MEK)         2.2         2.0         1         10/03/2015 22:02           2-Butyl denoh (TBA)         ND         2.0         1         10/03/2015 22:02           2-Butyl benzene         ND         0.50         1         10/03/2015 22:02           sec-Butyl benzene         ND         0.50         1         10/03/2015 22:02           sec-Butyl benzene         ND         0.50         1         10/03/2015 22:02           sec-Butyl benzene         ND         0.50         1         10/03/2015 22:02           carbon Disulfide         ND         0.50         1         10/03/2015 22:02           Carbon Disulfide         ND         0.50         1         10/03/2015 22:02           Chlorothane         ND         0.50         1         10/	tert-Amyl methyl ether (TAME)	ND		0.50	1		10/03/2015 22:02
Bromochloromethane         ND         0.50         1         10/03/2015 22:02           Bromodichloromethane         ND         0.50         1         10/03/2015 22:02           Bromoform         ND         0.50         1         10/03/2015 22:02           Bromomethane         ND         0.50         1         10/03/2015 22:02           2-Butanone (MEK)         2.2         2.0         1         10/03/2015 22:02           2-Butyl alcohol (TBA)         ND         2.0         1         10/03/2015 22:02           sec-Butyl benzene         ND         0.50         1         10/03/2015 22:02           sec-Butyl benzene         ND         0.50         1         10/03/2015 22:02           sec-Butyl benzene         ND         0.50         1         10/03/2015 22:02           cerbutyl benzene         ND         0.50         1         10/03/2015 22:02           Carbon Tetrachloride         ND         0.50         1         10/03/2015 22:02           Carbon Tetrachloride         ND         0.50         1         10/03/2015 22:02           Chlorothane         ND         0.50         1         10/03/2015 22:02           Chlorothane         ND         0.50         1         10/0	Benzene	ND		0.50	1		10/03/2015 22:02
Bromodichloromethane         ND         0.50         1         10/03/2015 22:02           Bromoform         ND         0.50         1         10/03/2015 22:02           Bromomethane         ND         0.50         1         10/03/2015 22:02           Z-Butanone (MEK)         2.2         2.0         1         10/03/2015 22:02           t-Butyl alcohol (TBA)         ND         2.0         1         10/03/2015 22:02           t-Butyl benzene         ND         0.50         1         10/03/2015 22:02           sec-Butyl benzene         ND         0.50         1         10/03/2015 22:02           tert-Butyl benzene         ND         0.50         1         10/03/2015 22:02           Carbon Disulfide         ND         0.50         1         10/03/2015 22:02           Carbon Disulfide         ND         0.50         1         10/03/2015 22:02           Carbon Tetrachloride         ND         0.50         1         10/03/2015 22:02           Chlorothane         ND         0.50         1         10/03/2015 22:02           Chloroterm         ND         0.50         1         10/03/2015 22:02           Chlorotoluene         ND         0.50         1         10/03/2015 22:0	Bromobenzene	ND		0.50	1		10/03/2015 22:02
Bromoform         ND         0.50         1         10/03/2015 22:02           Brommethane         ND         0.50         1         10/03/2015 22:02           2-Butanone (MEK)         2.2         2.0         1         10/03/2015 22:02           Ebutyl cohol (TBA)         ND         2.0         1         10/03/2015 22:02           n-Butyl benzene         ND         0.50         1         10/03/2015 22:02           sec-Butyl benzene         ND         0.50         1         10/03/2015 22:02           sec-Butyl benzene         ND         0.50         1         10/03/2015 22:02           Carbon Disulfide         ND         0.50         1         10/03/2015 22:02           Carbon Disulfide         ND         0.50         1         10/03/2015 22:02           Carbon Disulfide         ND         0.50         1         10/03/2015 22:02           Carbon Tetrachloride         ND         0.50         1         10/03/2015 22:02           Chlorotene         ND         0.50         1         10/03/2015 22:02           Chlorotenae         ND         0.50         1         10/03/2015 22:02           Chlorotenae         ND         0.50         1         10/03/2015 22:02	Bromochloromethane	ND		0.50	1		10/03/2015 22:02
Bromomethane	Bromodichloromethane	ND		0.50	1		10/03/2015 22:02
2-Butanone (MEK)         2.2         2.0         1         10/03/2015 22:02           t-Butyl alcohol (TBA)         ND         2.0         1         10/03/2015 22:02           n-Butyl benzene         ND         0.50         1         10/03/2015 22:02           sec-Butyl benzene         ND         0.50         1         10/03/2015 22:02           tert-Butyl benzene         ND         0.50         1         10/03/2015 22:02           Carbon Disulfide         ND         0.50         1         10/03/2015 22:02           Carbon Tetrachloride         ND         0.50         1         10/03/2015 22:02           Chlorobenzene         ND         0.50         1         10/03/2015 22:02           Chlorotelhane         ND         0.50         1         10/03/2015 22:02           Chloroterm         ND         0.50         1         10/03/2015 22:02           Chloroterm         ND         0.50         1         10/03/2015 22:02           Chloroterme         ND         0.50         1         10/03/2015 22:02           Chlorotoluene         ND         0.50         1         10/03/2015 22:02           2-Chlorotoluene         ND         0.50         1         10/03/2015 22:02	Bromoform	ND		0.50	1		10/03/2015 22:02
t-Butyl alcohol (TBA) ND 2.0 1 10/03/2015 22:02 sec-Butyl benzene ND 0.50 1 10/03/2015 22:02 sec-Butyl benzene ND 0.50 1 10/03/2015 22:02 sec-Butyl benzene ND 0.50 1 10/03/2015 22:02 Carbon Disulfide ND 0.50 1 10/03/2015 22:02 Carbon Disulfide ND 0.50 1 10/03/2015 22:02 Carbon Disulfide ND 0.50 1 10/03/2015 22:02 Carbon Tetrachloride ND 0.50 1 10/03/2015 22:02 Carbon Tetrachloride ND 0.50 1 10/03/2015 22:02 Chlorobenzene ND 0.50 1 10/03/2015 22:02 Chlorobenzene ND 0.50 1 10/03/2015 22:02 Chloroform ND 0.50 1 10/03/2015 22:02 Chloroform ND 0.50 1 10/03/2015 22:02 Chloromethane ND 0.50 1 10/03/2015 22:02 Chlorotoluene ND 0.50 1 10/03/2015 22:02 1,2-Dibromo-3-chloropropane ND 0.50 1 10/03/2015 22:02 1,2-Dibromo-3-chloropropane ND 0.50 1 10/03/2015 22:02 1,2-Dibromoethane (EDB) ND 0.50 1 10/03/2015 22:02 1,2-Dichlorobenzene ND 0.50 1 10/03/2015 22:02 1,2-Dichlorobenzene ND 0.50 1 10/03/2015 22:02 1,2-Dichlorobenzene ND 0.50 1 10/03/2015 22:02 1,3-Dichlorobenzene ND 0.50 1 10/03/2015 22:02 1,1-Dichlorobenzene ND 0.50 1 10/03/2015 22:02 1,1-Dichlorob	Bromomethane	ND		0.50	1		10/03/2015 22:02
n-Butyl benzene         ND         0.50         1         10/03/2015 22:02           sec-Butyl benzene         ND         0.50         1         10/03/2015 22:02           tert-Butyl benzene         ND         0.50         1         10/03/2015 22:02           Carbon Disulfide         ND         0.50         1         10/03/2015 22:02           Carbon Disulfide         ND         0.50         1         10/03/2015 22:02           Carbon Tetrachloride         ND         0.50         1         10/03/2015 22:02           Chlorobenzene         ND         0.50         1         10/03/2015 22:02           Chloroethane         ND         0.50         1         10/03/2015 22:02           Chloroform         ND         0.50         1         10/03/2015 22:02           Chloromethane         ND         0.50         1         10/03/2015 22:02           Chlorotoluene         ND         0.50         1         10/03/2015 22:02           2-Chlorotoluene         ND         0.50         1         10/03/2015 22:02           4-Chlorotoluene         ND         0.50         1         10/03/2015 22:02           2-Dibromochloromethane         ND         0.50         1         10/03/2015 22	2-Butanone (MEK)	2.2		2.0	1		10/03/2015 22:02
sec-Butyl benzene         ND         0.50         1         10/03/2015 22:02           tert-Butyl benzene         ND         0.50         1         10/03/2015 22:02           Carbon Disulfide         ND         0.50         1         10/03/2015 22:02           Carbon Tetrachloride         ND         0.50         1         10/03/2015 22:02           Chlorobenzene         ND         0.50         1         10/03/2015 22:02           Chloroethane         ND         0.50         1         10/03/2015 22:02           Chloroform         ND         0.50         1         10/03/2015 22:02           Chloromethane         ND         0.50         1         10/03/2015 22:02           Chlorotoluene         ND         0.50         1         10/03/2015 22:02           2-Chlorotoluene         ND         0.50         1         10/03/2015 22:02           4-Chlorotoluene         ND         0.50         1         10/03/2015 22:02           2-Chlorotoluene         ND         0.50         1         10/03/2015 22:02           Dibromochloromethane         ND         0.50         1         10/03/2015 22:02           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/20	t-Butyl alcohol (TBA)	ND		2.0	1		10/03/2015 22:02
tert-Butyl benzene         ND         0.50         1         10/03/2015 22:02           Carbon Disulfide         ND         0.50         1         10/03/2015 22:02           Carbon Tetrachloride         ND         0.50         1         10/03/2015 22:02           Chlorobenzene         ND         0.50         1         10/03/2015 22:02           Chlorobenzene         ND         0.50         1         10/03/2015 22:02           Chloroform         ND         0.50         1         10/03/2015 22:02           Chloroform         ND         0.50         1         10/03/2015 22:02           Chlorotoluene         ND         0.50         1         10/03/2015 22:02           2-Chlorotoluene         ND         0.50         1         10/03/2015 22:02           4-Chlorotoluene         ND         0.50         1         10/03/2015 22:02           1,2-Dibromoethane         ND         0.50         1         10/03/2015 22:02	n-Butyl benzene	ND		0.50	1		10/03/2015 22:02
Carbon Disulfide         ND         0.50         1         10/03/2015 22:02           Carbon Tetrachloride         ND         0.50         1         10/03/2015 22:02           Chlorobenzene         ND         0.50         1         10/03/2015 22:02           Chloroethane         ND         0.50         1         10/03/2015 22:02           Chloroform         ND         0.50         1         10/03/2015 22:02           Chloromethane         ND         0.50         1         10/03/2015 22:02           2-Chlorotoluene         ND         0.50         1         10/03/2015 22:02           4-Chlorotoluene         ND         0.50         1         10/03/2015 22:02           1/2-Dibromoethane         ND         0.50         1         10/03/2015 22:02           1/2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 22:	sec-Butyl benzene	ND		0.50	1		10/03/2015 22:02
Carbon Tetrachloride         ND         0.50         1         10/03/2015 22:02           Chlorobenzene         ND         0.50         1         10/03/2015 22:02           Chloroethane         ND         0.50         1         10/03/2015 22:02           Chloroform         ND         0.50         1         10/03/2015 22:02           Chloromethane         ND         0.50         1         10/03/2015 22:02           2-Chlorotoluene         ND         0.50         1         10/03/2015 22:02           2-Chlorotoluene         ND         0.50         1         10/03/2015 22:02           4-Chlorotoluene         ND         0.50         1         10/03/2015 22:02           2-Chlorotoluene         ND         0.50         1         10/03/2015 22:02           Dibromochloromethane         ND         0.50         1         10/03/2015 22:02           1,2-Dibromores-3-chloropropane         ND         0.50         1         10/03/2015 22:02           1,2-Dibromorethane (EDB)         ND         0.50         1         10/03/2015 22:02           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           1,4-Dichlorobenzene         ND         0.50         1	tert-Butyl benzene	ND		0.50	1		10/03/2015 22:02
Chlorobenzene         ND         0.50         1         10/03/2015 22:02           Chloroethane         ND         0.50         1         10/03/2015 22:02           Chloroform         ND         0.50         1         10/03/2015 22:02           Chloromethane         ND         0.50         1         10/03/2015 22:02           2-Chlorotoluene         ND         0.50         1         10/03/2015 22:02           4-Chlorotoluene         ND         0.50         1         10/03/2015 22:02           4-Chlorotoluene         ND         0.50         1         10/03/2015 22:02           4-Chlorotoluene         ND         0.50         1         10/03/2015 22:02           Dibromochloromethane         ND         0.50         1         10/03/2015 22:02           Dibromochloromethane (EDB)         ND         0.20         1         10/03/2015 22:02           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 22:02           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           1,4-Dichloroethane         ND         0.50         1	Carbon Disulfide	ND		0.50	1		10/03/2015 22:02
Chloroethane         ND         0.50         1         10/03/2015 22:02           Chloroform         ND         0.50         1         10/03/2015 22:02           Chloromethane         ND         0.50         1         10/03/2015 22:02           2-Chlorotoluene         ND         0.50         1         10/03/2015 22:02           4-Chlorotoluene         ND         0.50         1         10/03/2015 22:02           4-Chlorotoluene         ND         0.50         1         10/03/2015 22:02           Dibromochloromethane         ND         0.50         1         10/03/2015 22:02           Dibromochloromethane         ND         0.50         1         10/03/2015 22:02           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/03/2015 22:02           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 22:02           Dibromomethane         ND         0.50         1         10/03/2015 22:02           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           1,1-Dichloroethane         ND         0.50         1	Carbon Tetrachloride	ND		0.50	1		10/03/2015 22:02
Chloroform         ND         0.50         1         10/03/2015 22:02           Chloromethane         ND         0.50         1         10/03/2015 22:02           2-Chlorotoluene         ND         0.50         1         10/03/2015 22:02           4-Chlorotoluene         ND         0.50         1         10/03/2015 22:02           4-Chlorotoluene         ND         0.50         1         10/03/2015 22:02           Dibromochloromethane         ND         0.50         1         10/03/2015 22:02           1,2-Dibromo-3-chloropropane         ND         0.50         1         10/03/2015 22:02           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 22:02           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           1,1-Dichlorodifluoromethane         ND         0.50         1         10/03/2015 22:02           1,1-Dichlorothane         ND         0.50         1         10/03/2015 22:02           1,2-Dichlorotethane (1,2-DCA)         ND         0	Chlorobenzene	ND		0.50	1		10/03/2015 22:02
Chloromethane         ND         0.50         1         10/03/2015 22:02           2-Chlorotoluene         ND         0.50         1         10/03/2015 22:02           4-Chlorotoluene         ND         0.50         1         10/03/2015 22:02           4-Chlorotoluene         ND         0.50         1         10/03/2015 22:02           1,2-Dibromoethane         ND         0.50         1         10/03/2015 22:02           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 22:02           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 22:02           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           1,4-Dichlorodifluoromethane         ND         0.50         1         10/03/2015 22:02           1,1-Dichloroethane         ND         0.50         1         10/03/2015 22:02           1,2-Dichloroethane         ND         0.50         1         10/03/2015 22:02           1,1-Dichloroethene         ND         0.50	Chloroethane	ND		0.50	1		10/03/2015 22:02
2-Chlorotoluene         ND         0.50         1         10/03/2015 22:02           4-Chlorotoluene         ND         0.50         1         10/03/2015 22:02           Dibromochloromethane         ND         0.50         1         10/03/2015 22:02           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/03/2015 22:02           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 22:02           Dibromomethane         ND         0.50         1         10/03/2015 22:02           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           1,1-Dichloroethane         ND         0.50         1         10/03/2015 22:02           1,1-Dichloroethane         ND         0.50         1         10/03/2015 22:02           1,1-Dichloroethane         ND         0.50         1         10/03/2015 22:02           1,1-Dichloroethene         ND         0.50 <td>Chloroform</td> <td>ND</td> <td></td> <td>0.50</td> <td>1</td> <td></td> <td>10/03/2015 22:02</td>	Chloroform	ND		0.50	1		10/03/2015 22:02
4-Chlorotoluene         ND         0.50         1         10/03/2015 22:02           Dibromochloromethane         ND         0.50         1         10/03/2015 22:02           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/03/2015 22:02           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 22:02           Dibromomethane         ND         0.50         1         10/03/2015 22:02           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           1,4-Dichlorodifluoromethane         ND         0.50         1         10/03/2015 22:02           1,1-Dichloroethane         ND         0.50         1         10/03/2015 22:02           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 22:02           1,1-Dichloroethene         ND         0.50         1         10/03/2015 22:02           cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 22:02           trans-1,2-Dichloroethene	Chloromethane	ND		0.50	1		10/03/2015 22:02
Dibromochloromethane         ND         0.50         1         10/03/2015 22:02           1,2-Dibromo-3-chloropropane         ND         0.20         1         10/03/2015 22:02           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 22:02           1,2-Dibromomethane         ND         0.50         1         10/03/2015 22:02           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           1,4-Dichloroethane         ND         0.50         1         10/03/2015 22:02           1,1-Dichloroethane         ND         0.50         1         10/03/2015 22:02           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 22:02           1,1-Dichloroethene         ND         0.50         1         10/03/2015 22:02           cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 22:02           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 22:02           1,2-Dichloropropane         <	2-Chlorotoluene	ND		0.50	1		10/03/2015 22:02
1,2-Dibromo-3-chloropropane         ND         0.20         1         10/03/2015 22:02           1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 22:02           Dibromomethane         ND         0.50         1         10/03/2015 22:02           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           Dichlorodifluoromethane         ND         0.50         1         10/03/2015 22:02           1,1-Dichloroethane         ND         0.50         1         10/03/2015 22:02           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 22:02           1,1-Dichloroethene         ND         0.50         1         10/03/2015 22:02           1,2-Dichloroethene         ND         0.50         1         10/03/2015 22:02           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 22:02           trans-1,2-Dichloropropane         ND         0.50         1         10/03/2015 22:02           1,3-Dichloropropane	4-Chlorotoluene	ND		0.50	1		10/03/2015 22:02
1,2-Dibromoethane (EDB)         ND         0.50         1         10/03/2015 22:02           Dibromomethane         ND         0.50         1         10/03/2015 22:02           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           Dichlorodifluoromethane         ND         0.50         1         10/03/2015 22:02           1,1-Dichloroethane         ND         0.50         1         10/03/2015 22:02           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 22:02           1,1-Dichloroethene         ND         0.50         1         10/03/2015 22:02           cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 22:02           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 22:02           1,2-Dichloropropane         ND         0.50         1         10/03/2015 22:02           1,3-Dichloropropane         ND         0.50         1         10/03/2015 22:02	Dibromochloromethane	ND		0.50	1		10/03/2015 22:02
Dibromomethane         ND         0.50         1         10/03/2015 22:02           1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           Dichlorodifluoromethane         ND         0.50         1         10/03/2015 22:02           1,1-Dichloroethane         ND         0.50         1         10/03/2015 22:02           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 22:02           1,1-Dichloroethene         ND         0.50         1         10/03/2015 22:02           cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 22:02           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 22:02           1,2-Dichloropropane         ND         0.50         1         10/03/2015 22:02           1,3-Dichloropropane         ND         0.50         1         10/03/2015 22:02	1,2-Dibromo-3-chloropropane	ND		0.20	1		10/03/2015 22:02
1,2-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           1,3-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           Dichlorodifluoromethane         ND         0.50         1         10/03/2015 22:02           1,1-Dichloroethane         ND         0.50         1         10/03/2015 22:02           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 22:02           1,1-Dichloroethene         ND         0.50         1         10/03/2015 22:02           cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 22:02           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 22:02           1,2-Dichloropropane         ND         0.50         1         10/03/2015 22:02           1,3-Dichloropropane         ND         0.50         1         10/03/2015 22:02	1,2-Dibromoethane (EDB)	ND		0.50	1		10/03/2015 22:02
1,3-Dichlorobenzene       ND       0.50       1       10/03/2015 22:02         1,4-Dichlorobenzene       ND       0.50       1       10/03/2015 22:02         Dichlorodifluoromethane       ND       0.50       1       10/03/2015 22:02         1,1-Dichloroethane       ND       0.50       1       10/03/2015 22:02         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/03/2015 22:02         1,1-Dichloroethene       ND       0.50       1       10/03/2015 22:02         cis-1,2-Dichloroethene       ND       0.50       1       10/03/2015 22:02         trans-1,2-Dichloroethene       ND       0.50       1       10/03/2015 22:02         1,2-Dichloropropane       ND       0.50       1       10/03/2015 22:02         1,3-Dichloropropane       ND       0.50       1       10/03/2015 22:02	Dibromomethane	ND		0.50	1		10/03/2015 22:02
1,4-Dichlorobenzene         ND         0.50         1         10/03/2015 22:02           Dichlorodifluoromethane         ND         0.50         1         10/03/2015 22:02           1,1-Dichloroethane         ND         0.50         1         10/03/2015 22:02           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 22:02           1,1-Dichloroethene         ND         0.50         1         10/03/2015 22:02           cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 22:02           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 22:02           1,2-Dichloropropane         ND         0.50         1         10/03/2015 22:02           1,3-Dichloropropane         ND         0.50         1         10/03/2015 22:02	1,2-Dichlorobenzene	ND		0.50	1		10/03/2015 22:02
Dichlorodifluoromethane         ND         0.50         1         10/03/2015 22:02           1,1-Dichloroethane         ND         0.50         1         10/03/2015 22:02           1,2-Dichloroethane (1,2-DCA)         ND         0.50         1         10/03/2015 22:02           1,1-Dichloroethene         ND         0.50         1         10/03/2015 22:02           cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 22:02           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 22:02           1,2-Dichloropropane         ND         0.50         1         10/03/2015 22:02           1,3-Dichloropropane         ND         0.50         1         10/03/2015 22:02	1,3-Dichlorobenzene	ND		0.50	1		10/03/2015 22:02
1,1-Dichloroethane       ND       0.50       1       10/03/2015 22:02         1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/03/2015 22:02         1,1-Dichloroethene       ND       0.50       1       10/03/2015 22:02         cis-1,2-Dichloroethene       ND       0.50       1       10/03/2015 22:02         trans-1,2-Dichloroethene       ND       0.50       1       10/03/2015 22:02         1,2-Dichloropropane       ND       0.50       1       10/03/2015 22:02         1,3-Dichloropropane       ND       0.50       1       10/03/2015 22:02	1,4-Dichlorobenzene	ND		0.50	1		10/03/2015 22:02
1,2-Dichloroethane (1,2-DCA)       ND       0.50       1       10/03/2015 22:02         1,1-Dichloroethene       ND       0.50       1       10/03/2015 22:02         cis-1,2-Dichloroethene       ND       0.50       1       10/03/2015 22:02         trans-1,2-Dichloroethene       ND       0.50       1       10/03/2015 22:02         1,2-Dichloropropane       ND       0.50       1       10/03/2015 22:02         1,3-Dichloropropane       ND       0.50       1       10/03/2015 22:02	Dichlorodifluoromethane	ND		0.50	1		10/03/2015 22:02
1,1-Dichloroethene         ND         0.50         1         10/03/2015 22:02           cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 22:02           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 22:02           1,2-Dichloropropane         ND         0.50         1         10/03/2015 22:02           1,3-Dichloropropane         ND         0.50         1         10/03/2015 22:02	1,1-Dichloroethane	ND		0.50	1		10/03/2015 22:02
cis-1,2-Dichloroethene         ND         0.50         1         10/03/2015 22:02           trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 22:02           1,2-Dichloropropane         ND         0.50         1         10/03/2015 22:02           1,3-Dichloropropane         ND         0.50         1         10/03/2015 22:02	1,2-Dichloroethane (1,2-DCA)	ND		0.50	1		10/03/2015 22:02
trans-1,2-Dichloroethene         ND         0.50         1         10/03/2015 22:02           1,2-Dichloropropane         ND         0.50         1         10/03/2015 22:02           1,3-Dichloropropane         ND         0.50         1         10/03/2015 22:02	1,1-Dichloroethene	ND		0.50	1		10/03/2015 22:02
1,2-Dichloropropane         ND         0.50         1         10/03/2015 22:02           1,3-Dichloropropane         ND         0.50         1         10/03/2015 22:02	cis-1,2-Dichloroethene	ND		0.50	1		10/03/2015 22:02
1,3-Dichloropropane         ND         0.50         1         10/03/2015 22:02	trans-1,2-Dichloroethene	ND		0.50	1		10/03/2015 22:02
1,3-Dichloropropane         ND         0.50         1         10/03/2015 22:02	1,2-Dichloropropane	ND		0.50	1		10/03/2015 22:02
2,2-Dichloropropane ND 0.50 1 10/03/2015 22:02	1,3-Dichloropropane	ND		0.50	1		
	2,2-Dichloropropane	ND		0.50	1		10/03/2015 22:02



## **Analytical Report**

**Client:** Essel Environmental Consulting

**Date Received:** 9/25/15 19:30 **Date Prepared:** 10/1/15-10/3/15

**Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B **Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
W-ECB12	1509A62-014B	Water	09/25/20	15 15:54 GC16	111088
Analytes	<u>Result</u>		<u>RL</u>	<u>DF</u>	Date Analyzed
1,1-Dichloropropene	ND		0.50	1	10/03/2015 22:02
cis-1,3-Dichloropropene	ND		0.50	1	10/03/2015 22:02
trans-1,3-Dichloropropene	ND		0.50	1	10/03/2015 22:02
Diisopropyl ether (DIPE)	ND		0.50	1	10/03/2015 22:02
Ethylbenzene	ND		0.50	1	10/03/2015 22:02
Ethyl tert-butyl ether (ETBE)	ND		0.50	1	10/03/2015 22:02
Freon 113	ND		0.50	1	10/03/2015 22:02
Hexachlorobutadiene	ND		0.50	1	10/03/2015 22:02
Hexachloroethane	ND		0.50	1	10/03/2015 22:02
2-Hexanone	ND		0.50	1	10/03/2015 22:02
Isopropylbenzene	ND		0.50	1	10/03/2015 22:02
4-Isopropyl toluene	0.99		0.50	1	10/03/2015 22:02
Methyl-t-butyl ether (MTBE)	ND		0.50	1	10/03/2015 22:02
Methylene chloride	ND		0.50	1	10/03/2015 22:02
4-Methyl-2-pentanone (MIBK)	ND		0.50	1	10/03/2015 22:02
Naphthalene	ND		0.50	1	10/03/2015 22:02
n-Propyl benzene	ND		0.50	1	10/03/2015 22:02
Styrene	ND		0.50	1	10/03/2015 22:02
1,1,1,2-Tetrachloroethane	ND		0.50	1	10/03/2015 22:02
1,1,2,2-Tetrachloroethane	ND		0.50	1	10/03/2015 22:02
Tetrachloroethene	ND		0.50	1	10/03/2015 22:02
Toluene	ND		0.50	1	10/03/2015 22:02
1,2,3-Trichlorobenzene	ND		0.50	1	10/03/2015 22:02
1,2,4-Trichlorobenzene	ND		0.50	1	10/03/2015 22:02
1,1,1-Trichloroethane	ND		0.50	1	10/03/2015 22:02
1,1,2-Trichloroethane	ND		0.50	1	10/03/2015 22:02
Trichloroethene	ND		0.50	1	10/03/2015 22:02
Trichlorofluoromethane	ND		0.50	1	10/03/2015 22:02
1,2,3-Trichloropropane	ND		0.50	1	10/03/2015 22:02
1,2,4-Trimethylbenzene	ND		0.50	1	10/03/2015 22:02
1,3,5-Trimethylbenzene	ND		0.50	1	10/03/2015 22:02
Vinyl Chloride	ND		0.50	1	10/03/2015 22:02
Xylenes, Total	ND		0.50	1	10/03/2015 22:02

# **Analytical Report**

**Client: Essel Environmental Consulting** 

15166; EBALDC

1509A62

**Date Received:** 9/25/15 19:30

**Extraction Method: SW5030B** 

**Date Prepared:** 10/1/15-10/3/15

**Project:** 

**Analytical Method: SW8260B** 

Unit: μg/L

WorkOrder:

Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
W-ECB12	1509A62-014B	Water	09/25/20	015 15:54 GC16	111088
<u>Analytes</u>	Result		<u>RL</u>	DF	Date Analyzed
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
Dibromofluoromethane	95		70-130		10/03/2015 22:02
Toluene-d8	93		70-130		10/03/2015 22:02
4-BFB	91		70-130		10/03/2015 22:02

1509A62

# **Analytical Report**

Client: Essel Environmental Consulting WorkOrder:

Date Received:9/25/15 19:30Extraction Method:SW3510CDate Prepared:9/29/15Analytical Method:SW8270C-SIM

Project: 15166; EBALDC Unit: μg/L

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID
W-ECB3	1509A62-001	C Water	09/24/20	15 16:35 GC35	110857
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Acenaphthene	1.9		0.50	1	09/29/2015 22:18
Acenaphthylene	ND		0.50	1	09/29/2015 22:18
Anthracene	ND		0.50	1	09/29/2015 22:18
Benzo (a) anthracene	ND		0.50	1	09/29/2015 22:18
Benzo (b) fluoranthene	ND		0.50	1	09/29/2015 22:18
Benzo (k) fluoranthene	ND		0.50	1	09/29/2015 22:18
Benzo (g,h,i) perylene	ND		0.50	1	09/29/2015 22:18
Benzo (a) pyrene	ND		0.50	1	09/29/2015 22:18
Chrysene	ND		0.50	1	09/29/2015 22:18
Dibenzo (a,h) anthracene	ND		0.50	1	09/29/2015 22:18
Fluoranthene	ND		0.50	1	09/29/2015 22:18
Fluorene	ND		0.50	1	09/29/2015 22:18
Indeno (1,2,3-cd) pyrene	ND		0.50	1	09/29/2015 22:18
1-Methylnaphthalene	ND		0.50	1	09/29/2015 22:18
2-Methylnaphthalene	ND		0.50	1	09/29/2015 22:18
Naphthalene	ND		0.50	1	09/29/2015 22:18
Phenanthrene	3.3		0.50	1	09/29/2015 22:18
Pyrene	ND		0.50	1	09/29/2015 22:18
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
1-Fluoronaphthalene	88		30-130		09/29/2015 22:18
2-Fluorobiphenyl	69		30-130		09/29/2015 22:18
Analyst(s): HK			Analytical Comr	ments: b1	

# **Analytical Report**

Client: Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/29/15

**Project:** 15166; EBALDC

**WorkOrder:** 1509A62

**Extraction Method:** SW3510C

**Analytical Method:** SW8270C-SIM

**Unit:** μg/L

Client ID	Lab ID	Matrix	Date C	collected Instrument	Batch ID
W-ECB2	1509A62-0060	C Water	09/25/20	015 15:15 GC35	110857
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	Date Analyzed
Acenaphthene	ND		0.50	1	09/29/2015 22:42
Acenaphthylene	ND		0.50	1	09/29/2015 22:42
Anthracene	ND		0.50	1	09/29/2015 22:42
Benzo (a) anthracene	ND		0.50	1	09/29/2015 22:42
Benzo (b) fluoranthene	ND		0.50	1	09/29/2015 22:42
Benzo (k) fluoranthene	ND		0.50	1	09/29/2015 22:42
Benzo (g,h,i) perylene	ND		0.50	1	09/29/2015 22:42
Benzo (a) pyrene	ND		0.50	1	09/29/2015 22:42
Chrysene	ND		0.50	1	09/29/2015 22:42
Dibenzo (a,h) anthracene	ND		0.50	1	09/29/2015 22:42
Fluoranthene	ND		0.50	1	09/29/2015 22:42
Fluorene	ND		0.50	1	09/29/2015 22:42
Indeno (1,2,3-cd) pyrene	ND		0.50	1	09/29/2015 22:42
1-Methylnaphthalene	ND		0.50	1	09/29/2015 22:42
2-Methylnaphthalene	ND		0.50	1	09/29/2015 22:42
Naphthalene	ND		0.50	1	09/29/2015 22:42
Phenanthrene	ND		0.50	1	09/29/2015 22:42
Pyrene	ND		0.50	1	09/29/2015 22:42
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
1-Fluoronaphthalene	80		30-130		09/29/2015 22:42
2-Fluorobiphenyl	70		30-130		09/29/2015 22:42
Analyst(s): HK			Analytical Com	ments: b1	

# **Analytical Report**

Client: Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/29/15

**Project:** 15166; EBALDC

WorkOrder: 1509A62 Extraction Method: SW3510C

**Analytical Method:** SW8270C-SIM

Unit:  $\mu g/L$ 

Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
W-ECB5	1509A62-007C	Water	09/25/20	15 17:02 GC35	110857
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Acenaphthene	ND		0.50	1	09/29/2015 23:07
Acenaphthylene	ND		0.50	1	09/29/2015 23:07
Anthracene	ND		0.50	1	09/29/2015 23:07
Benzo (a) anthracene	ND		0.50	1	09/29/2015 23:07
Benzo (b) fluoranthene	ND		0.50	1	09/29/2015 23:07
Benzo (k) fluoranthene	ND		0.50	1	09/29/2015 23:07
Benzo (g,h,i) perylene	ND		0.50	1	09/29/2015 23:07
Benzo (a) pyrene	ND		0.50	1	09/29/2015 23:07
Chrysene	ND		0.50	1	09/29/2015 23:07
Dibenzo (a,h) anthracene	ND		0.50	1	09/29/2015 23:07
Fluoranthene	ND		0.50	1	09/29/2015 23:07
Fluorene	ND		0.50	1	09/29/2015 23:07
Indeno (1,2,3-cd) pyrene	ND		0.50	1	09/29/2015 23:07
1-Methylnaphthalene	ND		0.50	1	09/29/2015 23:07
2-Methylnaphthalene	ND		0.50	1	09/29/2015 23:07
Naphthalene	ND		0.50	1	09/29/2015 23:07
Phenanthrene	ND		0.50	1	09/29/2015 23:07
Pyrene	ND		0.50	1	09/29/2015 23:07
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
1-Fluoronaphthalene	92		30-130		09/29/2015 23:07
2-Fluorobiphenyl	87		30-130		09/29/2015 23:07
Analyst(s): HK			Analytical Com	ments: b1	

1509A62

# **Analytical Report**

Client: Essel Environmental Consulting WorkOrder:

Date Received: 9/25/15 19:30 Extraction Method:

Date Received:9/25/15 19:30Extraction Method:SW3510CDate Prepared:9/29/15Analytical Method:SW8270C-SIM

Project: 15166; EBALDC Unit: μg/L

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID
W-ECB7	1509A62-009C	Water	09/25/201	15 17:16 GC35	110857
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Acenaphthene	ND		0.50	1	09/29/2015 23:32
Acenaphthylene	ND		0.50	1	09/29/2015 23:32
Anthracene	ND		0.50	1	09/29/2015 23:32
Benzo (a) anthracene	ND		0.50	1	09/29/2015 23:32
Benzo (b) fluoranthene	ND		0.50	1	09/29/2015 23:32
Benzo (k) fluoranthene	ND		0.50	1	09/29/2015 23:32
Benzo (g,h,i) perylene	ND		0.50	1	09/29/2015 23:32
Benzo (a) pyrene	ND		0.50	1	09/29/2015 23:32
Chrysene	ND		0.50	1	09/29/2015 23:32
Dibenzo (a,h) anthracene	ND		0.50	1	09/29/2015 23:32
Fluoranthene	ND		0.50	1	09/29/2015 23:32
Fluorene	ND		0.50	1	09/29/2015 23:32
Indeno (1,2,3-cd) pyrene	ND		0.50	1	09/29/2015 23:32
1-Methylnaphthalene	ND		0.50	1	09/29/2015 23:32
2-Methylnaphthalene	ND		0.50	1	09/29/2015 23:32
Naphthalene	ND		0.50	1	09/29/2015 23:32
Phenanthrene	ND		0.50	1	09/29/2015 23:32
Pyrene	ND		0.50	1	09/29/2015 23:32
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
1-Fluoronaphthalene	91		30-130		09/29/2015 23:32
2-Fluorobiphenyl	83		30-130		09/29/2015 23:32
Analyst(s): HK			Analytical Comn	nents: b1	

# **Analytical Report**

Client: Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/29/15

**Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW3510C

**Analytical Method:** SW8270C-SIM

Unit:  $\mu g/L$ 

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID
W-ECB8	1509A62-010C	Water	09/25/20	15 16:50 GC35	110857
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Acenaphthene	ND		0.50	1	09/29/2015 23:57
Acenaphthylene	ND		0.50	1	09/29/2015 23:57
Anthracene	ND		0.50	1	09/29/2015 23:57
Benzo (a) anthracene	ND		0.50	1	09/29/2015 23:57
Benzo (b) fluoranthene	ND		0.50	1	09/29/2015 23:57
Benzo (k) fluoranthene	ND		0.50	1	09/29/2015 23:57
Benzo (g,h,i) perylene	ND		0.50	1	09/29/2015 23:57
Benzo (a) pyrene	ND		0.50	1	09/29/2015 23:57
Chrysene	ND		0.50	1	09/29/2015 23:57
Dibenzo (a,h) anthracene	ND		0.50	1	09/29/2015 23:57
Fluoranthene	ND		0.50	1	09/29/2015 23:57
Fluorene	ND		0.50	1	09/29/2015 23:57
Indeno (1,2,3-cd) pyrene	ND		0.50	1	09/29/2015 23:57
1-Methylnaphthalene	ND		0.50	1	09/29/2015 23:57
2-Methylnaphthalene	ND		0.50	1	09/29/2015 23:57
Naphthalene	ND		0.50	1	09/29/2015 23:57
Phenanthrene	ND		0.50	1	09/29/2015 23:57
Pyrene	ND		0.50	1	09/29/2015 23:57
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
1-Fluoronaphthalene	81		30-130		09/29/2015 23:57
2-Fluorobiphenyl	78		30-130		09/29/2015 23:57
Analyst(s): HK					

1509A62

# **Analytical Report**

Client: Essel Environmental Consulting WorkOrder:

**Project:** 15166; EBALDC Unit:  $\mu g/L$ 

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID
W-ECB10	1509A62-0120	Water	09/25/20	15 16:17 GC35	110857
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Acenaphthene	ND		0.50	1	09/30/2015 00:22
Acenaphthylene	ND		0.50	1	09/30/2015 00:22
Anthracene	ND		0.50	1	09/30/2015 00:22
Benzo (a) anthracene	ND		0.50	1	09/30/2015 00:22
Benzo (b) fluoranthene	ND		0.50	1	09/30/2015 00:22
Benzo (k) fluoranthene	ND		0.50	1	09/30/2015 00:22
Benzo (g,h,i) perylene	ND		0.50	1	09/30/2015 00:22
Benzo (a) pyrene	ND		0.50	1	09/30/2015 00:22
Chrysene	ND		0.50	1	09/30/2015 00:22
Dibenzo (a,h) anthracene	ND		0.50	1	09/30/2015 00:22
Fluoranthene	ND		0.50	1	09/30/2015 00:22
Fluorene	ND		0.50	1	09/30/2015 00:22
Indeno (1,2,3-cd) pyrene	ND		0.50	1	09/30/2015 00:22
1-Methylnaphthalene	0.57		0.50	1	09/30/2015 00:22
2-Methylnaphthalene	ND		0.50	1	09/30/2015 00:22
Naphthalene	ND		0.50	1	09/30/2015 00:22
Phenanthrene	ND		0.50	1	09/30/2015 00:22
Pyrene	ND		0.50	1	09/30/2015 00:22
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
1-Fluoronaphthalene	85		30-130		09/30/2015 00:22
2-Fluorobiphenyl	71		30-130		09/30/2015 00:22
Analyst(s): HK			Analytical Com	ments: b1	

# **Analytical Report**

Client: Essel Environmental Consulting WorkOrder: 1509A62

Date Received: 9/25/15 19:30 Extraction Method: SW3510C

**Date Prepared:** 9/29/15 **Analytical Method:** SW8270C-SIM

Project: 15166; EBALDC Unit: μg/L

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID
W-ECB12	1509A62-014C	Water	09/25/20	15 15:54 GC35	110857
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
Acenaphthene	ND		0.50	1	09/30/2015 00:46
Acenaphthylene	ND		0.50	1	09/30/2015 00:46
Anthracene	ND		0.50	1	09/30/2015 00:46
Benzo (a) anthracene	ND		0.50	1	09/30/2015 00:46
Benzo (b) fluoranthene	ND		0.50	1	09/30/2015 00:46
Benzo (k) fluoranthene	ND		0.50	1	09/30/2015 00:46
Benzo (g,h,i) perylene	ND		0.50	1	09/30/2015 00:46
Benzo (a) pyrene	ND		0.50	1	09/30/2015 00:46
Chrysene	ND		0.50	1	09/30/2015 00:46
Dibenzo (a,h) anthracene	ND		0.50	1	09/30/2015 00:46
Fluoranthene	ND		0.50	1	09/30/2015 00:46
Fluorene	ND		0.50	1	09/30/2015 00:46
Indeno (1,2,3-cd) pyrene	ND		0.50	1	09/30/2015 00:46
1-Methylnaphthalene	ND		0.50	1	09/30/2015 00:46
2-Methylnaphthalene	ND		0.50	1	09/30/2015 00:46
Naphthalene	ND		0.50	1	09/30/2015 00:46
Phenanthrene	ND		0.50	1	09/30/2015 00:46
Pyrene	ND		0.50	1	09/30/2015 00:46
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
1-Fluoronaphthalene	85		30-130		09/30/2015 00:46
2-Fluorobiphenyl	74		30-130		09/30/2015 00:46
Analyst(s): HK					

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## **Analytical Report**

Client: Essel Environmental Consulting WorkOrder:

Project: 15166; EBALDC Unit: μg/L

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

Client ID	Lab ID Ma	trix Date	Collected Instrument	Batch ID
W-ECB3	1509A62-001A Wat	er 09/24/	2015 16:35 GC3	111041
<u>Analytes</u>	Result	<u>RL</u>	<u>DF</u>	Date Analyzed
TPH(g)	710	100	2	10/02/2015 00:52
MTBE		10	2	10/02/2015 00:52
Benzene		1.0	2	10/02/2015 00:52
Toluene		1.0	2	10/02/2015 00:52
Ethylbenzene		1.0	2	10/02/2015 00:52
Xylenes		1.0	2	10/02/2015 00:52
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
aaa-TFT	111	70-130	)	10/02/2015 00:52
Analyst(s). IA		Analytical Co	mmonto, d7 d0 b4	

Analyst(s): IA Analytical Comments: d7,d9,b1

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID
W-ECB4	1509A62-002A	Water	09/24/20	15 16:51 GC3	110909
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
TPH(g)	1200		50	1	09/29/2015 23:26
MTBE			5.0	1	09/29/2015 23:26
Benzene			0.50	1	09/29/2015 23:26
Toluene			0.50	1	09/29/2015 23:26
Ethylbenzene			0.50	1	09/29/2015 23:26
Xylenes			0.50	1	09/29/2015 23:26
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
aaa-TFT	131	S	70-130		09/29/2015 23:26
Analyst(s): IA			Analytical Comm	nents: d9,c4,b1	

## **Analytical Report**

Client: Essel Environmental Consulting WorkOrder: 1509A62

Date Received: 9/25/15 19:30 Extraction Method: SW5030B

**Date Prepared:** 9/29/15-10/2/15 **Analytical Method:** SW8021B/8015Bm

Project: 15166; EBALDC Unit: μg/L

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

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID
W-ECB13	1509A62-003A Water	09/24/2015 17:13 GC3	110909
Analytes	Result	<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	ND	50 1	09/29/2015 23:56
MTBE		5.0 1	09/29/2015 23:56
Benzene		0.50 1	09/29/2015 23:56
Toluene		0.50 1	09/29/2015 23:56
Ethylbenzene		0.50 1	09/29/2015 23:56
Xylenes		0.50 1	09/29/2015 23:56
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
aaa-TFT	98	70-130	09/29/2015 23:56
Analyst(s): IA			

Analyst(s): IA

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID			
W-ECB14	1509A62-004A Water	09/24/2015 17:01 GC3	110909			
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed			
TPH(g)	ND	50 1	09/30/2015 00:56			
MTBE		5.0 1	09/30/2015 00:56			
Benzene		0.50 1	09/30/2015 00:56			
Toluene		0.50 1	09/30/2015 00:56			
Ethylbenzene		0.50 1	09/30/2015 00:56			
Xylenes		0.50 1	09/30/2015 00:56			
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>				
aaa-TFT	97	70-130	09/30/2015 00:56			
Analyst(s): IA	Analytical Comments: b1					

## **Analytical Report**

Client: Essel Environmental Consulting

**Date Received:** 9/25/15 19:30

**Date Prepared:** 9/29/15-10/2/15

**Project:** 15166; EBALDC

WorkOrder: 1509A62

**Extraction Method:** SW5030B

**Analytical Method:** SW8021B/8015Bm

**Unit:** μg/L

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

Client ID	Lab ID Mar	trix Date (	Collected Instrument	Batch ID
W-ECB1	1509A62-005A Wat	er 09/25/2	2015 14:08 GC3	110909
<u>Analytes</u>	Result	<u>RL</u>	<u>DF</u>	Date Analyzed
TPH(g)	ND	50	1	09/30/2015 01:56
MTBE		5.0	1	09/30/2015 01:56
Benzene		0.50	1	09/30/2015 01:56
Toluene		0.50	1	09/30/2015 01:56
Ethylbenzene		0.50	1	09/30/2015 01:56
Xylenes		0.50	1	09/30/2015 01:56
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
aaa-TFT	105	70-130		09/30/2015 01:56

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID	
W-ECB2	1509A62-006A	Water	09/25/2015 15:15 GC3		110909	
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed	
TPH(g)	330		50	1	09/30/2015 02:25	
MTBE			5.0	1	09/30/2015 02:25	
Benzene			0.50	1	09/30/2015 02:25	
Toluene			0.50	1	09/30/2015 02:25	
Ethylbenzene			0.50	1	09/30/2015 02:25	
Xylenes			0.50	1	09/30/2015 02:25	
Surrogates	REC (%)		<u>Limits</u>			
aaa-TFT	89		70-130		09/30/2015 02:25	
Analyst(s): IA	Analytical Comments: d7,b1					

### **Analytical Report**

Client: Essel Environmental Consulting WorkOrder: 1509A62

Date Received: 9/25/15 19:30 Extraction Method: SW5030B

**Date Prepared:** 9/29/15-10/2/15 **Analytical Method:** SW8021B/8015Bm

Project: 15166; EBALDC Unit: μg/L

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

Client ID	Lab ID Matri	<b>Date Collected Instrument</b>	Batch ID
W-ECB5	1509A62-007A Water	09/25/2015 17:02 GC3	110909
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	430	50 1	09/30/2015 02:55
MTBE		5.0 1	09/30/2015 02:55
Benzene		0.50 1	09/30/2015 02:55
Toluene		0.50 1	09/30/2015 02:55
Ethylbenzene		0.50 1	09/30/2015 02:55
Xylenes		0.50 1	09/30/2015 02:55
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
aaa-TFT	97	70-130	09/30/2015 02:55
Analyst(s): IA		Analytical Comments: d9,b1	

Client ID Lab ID Matrix Date Collected Instrument Batch ID

W-ECB6	1509A62-008A Water	09/25/2015 15:34 GC3	110979
Analytes	Result	<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	ND	50 1	09/30/2015 22:02
MTBE		5.0 1	09/30/2015 22:02
Benzene		0.50 1	09/30/2015 22:02
Toluene		0.50 1	09/30/2015 22:02
Ethylbenzene		0.50 1	09/30/2015 22:02
Xylenes		0.50 1	09/30/2015 22:02
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
aaa-TFT	95	70-130	09/30/2015 22:02
Analyst(s): IA		Analytical Comments: b1	

### **Analytical Report**

Client: Essel Environmental Consulting WorkOrder: 1509A62

Date Received: 9/25/15 19:30 Extraction Method: SW5030B

Date Prepared: 9/29/15-10/2/15 Analytical Method: SW8021B/8015Bm

Project: 15166; EBALDC Unit: μg/L

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

Client ID	Lab ID Mat	rix Date Collected Instrument	Batch ID	
W-ECB7	1509A62-009A Wate	er 09/25/2015 17:16 GC3	110979	
Analytes	Result	<u>RL</u> <u>DF</u>	Date Analyzed	
TPH(g)	ND	50 1	09/30/2015 22:31	
MTBE		5.0 1	09/30/2015 22:31	
Benzene		0.50 1	09/30/2015 22:31	
Toluene		0.50 1	09/30/2015 22:31	
Ethylbenzene		0.50 1	09/30/2015 22:31	
Xylenes		0.50 1	09/30/2015 22:31	
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
aaa-TFT	88	70-130	09/30/2015 22:31	
Analyst(s). IA		Analytical Comments, 14		

Analyst(s): IA Analytical Comments: b1

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID	
W-ECB8	1509A62-010A Water	09/25/2015 16:50 GC3	110979	
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed	
TPH(g)	ND	50 1	09/30/2015 23:31	
MTBE		5.0 1	09/30/2015 23:31	
Benzene		0.50 1	09/30/2015 23:31	
Toluene		0.50 1	09/30/2015 23:31	
Ethylbenzene		0.50 1	09/30/2015 23:31	
Xylenes		0.50 1	09/30/2015 23:31	
<u>Surrogates</u>	REC (%)	<u>Limits</u>		
aaa-TFT	101	70-130	09/30/2015 23:31	
Analyst(s): IA				

### **Analytical Report**

Client: Essel Environmental Consulting WorkOrder: 1509A62

Date Received: 9/25/15 19:30 Extraction Method: SW5030B

**Date Prepared:** 9/29/15-10/2/15 **Analytical Method:** SW8021B/8015Bm

Project: 15166; EBALDC Unit: μg/L

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

Client ID	Lab ID Matrix	<b>Date Collected Instrument</b>	Batch ID
W-ECB9	1509A62-011A Water	09/25/2015 16:40 GC3	110979
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed
TPH(g)	ND	50 1	10/01/2015 00:01
MTBE		5.0 1	10/01/2015 00:01
Benzene		0.50 1	10/01/2015 00:01
Toluene		0.50 1	10/01/2015 00:01
Ethylbenzene		0.50 1	10/01/2015 00:01
Xylenes		0.50 1	10/01/2015 00:01
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
aaa-TFT	106	70-130	10/01/2015 00:01
Analyat(a): IA			

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID	
W-ECB10	1509A62-012A Water		09/25/2015 16:17 GC3		110979	
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed	
TPH(g)	98		50	1	10/01/2015 23:21	
MTBE			5.0	1	10/01/2015 23:21	
Benzene			0.50	1	10/01/2015 23:21	
Toluene			0.50	1	10/01/2015 23:21	
Ethylbenzene			0.50	1	10/01/2015 23:21	
Xylenes			0.50	1	10/01/2015 23:21	
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
aaa-TFT	103		70-130		10/01/2015 23:21	
Analyst(s): IA			Analytical Com	ments: d9,b1		

### **Analytical Report**

**Client: Essel Environmental Consulting** WorkOrder:

1509A62 **Extraction Method:** SW5030B **Date Received:** 9/25/15 19:30 **Date Prepared:** 9/29/15-10/2/15 Analytical Method: SW8021B/8015Bm

**Project:** 15166; EBALDC Unit: μg/L

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

Client ID	Lab ID Matrix	Date Collected Instrument	Batch ID	
W-ECB11	1509A62-013A Water	09/25/2015 16:02 GC3	110979	
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed	
TPH(g)	ND	50 1	10/01/2015 01:01	
MTBE		5.0 1	10/01/2015 01:01	
Benzene		0.50 1	10/01/2015 01:01	
Toluene		0.50 1	10/01/2015 01:01	
Ethylbenzene		0.50 1	10/01/2015 01:01	
Xylenes		0.50 1	10/01/2015 01:01	
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
aaa-TFT	97	70-130	10/01/2015 01:01	
A not (a). IA				

Analyst(s): IA

Client ID	Lab ID Matrix	Date Collected Instrument	Batch ID	
W-ECB12	1509A62-014A Water	09/25/2015 15:54 GC3	110979	
<u>Analytes</u>	Result	<u>RL</u> <u>DF</u>	Date Analyzed	
TPH(g)	ND	50 1	10/01/2015 01:31	
MTBE		5.0 1	10/01/2015 01:31	
Benzene		0.50 1	10/01/2015 01:31	
Toluene		0.50 1	10/01/2015 01:31	
Ethylbenzene		0.50 1	10/01/2015 01:31	
Xylenes		0.50 1	10/01/2015 01:31	
Surrogates	<u>REC (%)</u>	<u>Limits</u>		
aaa-TFT	96	70-130	10/01/2015 01:31	
Analyst(s): IA				

# **Analytical Report**

Client: Essel Environmental Consulting WorkOrder: 1509A62

**Date Received:** 9/25/15 19:30 **Extraction Method:** SW3510C/3630C

**Date Prepared:** 9/28/15 **Analytical Method:** SW8015B

**Project:** 15166; EBALDC **Unit:** μg/L

Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
W-ECB3	1509A62-001A	Water	09/24/20	015 16:35 GC2A	110792
<u>Analytes</u>	Result		<u>RL</u>	DF	Date Analyzed
TPH-Diesel (C10-C23)	24,000		500	10	09/29/2015 17:21
TPH-Motor Oil (C18-C36)	7300		2500	10	09/29/2015 17:21
<u>Surrogates</u>	REC (%)		<u>Limits</u>		
C9	102		70-130		09/29/2015 17:21
Analyot(a): TV			Analytical Com	monto: 02 09 h1	

Analyst(s): TK Analytical Comments: e3,e8,b1

Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
W-ECB4	1509A62-002A	Water	09/24/20	015 16:51 GC2B	110792
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
TPH-Diesel (C10-C23)	3100		50	1	09/28/2015 21:22
TPH-Motor Oil (C18-C36)	780		250	1	09/28/2015 21:22
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
C9	107		70-130		09/28/2015 21:22

Analyst(s): TK Analytical Comments: e3,e8,e4,b1

Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
W-ECB13	1509A62-003A	Water	09/24/20	015 17:13 GC2B	110792
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
TPH-Diesel (C10-C23)	ND		50	1	09/29/2015 01:06
TPH-Motor Oil (C18-C36)	ND		250	1	09/29/2015 01:06
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
C9	105		70-130		09/29/2015 01:06
Analyst(s): TK					

# **Analytical Report**

Client: Essel Environmental Consulting WorkOrder: 1509A62

**Date Received:** 9/25/15 19:30 **Extraction Method:** SW3510C/3630C

**Date Prepared:** 9/28/15 **Analytical Method:** SW8015B

Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
W-ECB14	1509A62-004A	Water	09/24/20	015 17:01 GC2B	110792
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
TPH-Diesel (C10-C23)	56		50	1	09/29/2015 02:21
TPH-Motor Oil (C18-C36)	ND		250	1	09/29/2015 02:21
<u>Surrogates</u>	REC (%)		<u>Limits</u>		
C9	105		70-130		09/29/2015 02:21
Analyst(s): TK			Analytical Com	ments: a2 h1	

Analyst(s): TK Analytical Comments: e2,b1

Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
W-ECB1	1509A62-005A	Water	09/25/20	15 14:08 GC2B	110792
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
TPH-Diesel (C10-C23)	ND		50	1	09/29/2015 04:50
TPH-Motor Oil (C18-C36)	ND		250	1	09/29/2015 04:50
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
C9	104		70-130		09/29/2015 04:50
Analyst(s): TK					

Analyst(s): TK

Client ID	Lab ID	Matrix	Date C	collected Instrument	Batch ID
W-ECB2	1509A62-006A	Water	09/25/20	015 15:15 GC2B	110792
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
TPH-Diesel (C10-C23)	4900		50	1	09/29/2015 06:05
TPH-Motor Oil (C18-C36)	1700		250	1	09/29/2015 06:05
Surrogates	REC (%)		<u>Limits</u>		
C9	105		70-130		09/29/2015 06:05
Analyst(s): TK			Analytical Com	ments: e3,e8,b1	

1509A62

# **Analytical Report**

Client: Essel Environmental Consulting WorkOrder:

**Date Received:** 9/25/15 19:30 **Extraction Method:** SW3510C/3630C

**Date Prepared:** 9/28/15 **Analytical Method:** SW8015B

**Project:** 15166; EBALDC Unit:  $\mu g/L$ 

Client ID	Lab ID	Matrix	Date C	Collected Instrument	Batch ID
W-ECB5	1509A62-007A Water 09/25/2015 17:02 GC2B		015 17:02 GC2B	110792	
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
TPH-Diesel (C10-C23)	100		50	1	09/29/2015 09:49
TPH-Motor Oil (C18-C36)	ND		250	1	09/29/2015 09:49
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
C9	106		70-130		09/29/2015 09:49
Analystic). TV			Analytical Com	monto, o11 h1	

Analyst(s): TK Analytical Comments: e11,b1

Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
W-ECB6	1509A62-008A	Water	09/25/20	015 15:34 GC2B	110792
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
TPH-Diesel (C10-C23)	ND		50	1	09/29/2015 08:34
TPH-Motor Oil (C18-C36)	ND		250	1	09/29/2015 08:34
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
C9	105		70-130		09/29/2015 08:34
Analyst(s): TK			Analytical Com	ments: b1	

Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
W-ECB7	1509A62-009A	Water	09/25/20	015 17:16 GC2A	110792
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
TPH-Diesel (C10-C23)	ND		50	1	09/29/2015 01:06
TPH-Motor Oil (C18-C36)	ND		250	1	09/29/2015 01:06
<u>Surrogates</u>	REC (%)		<u>Limits</u>		
C9	103		70-130		09/29/2015 01:06
Analyst(s): TK			Analytical Com	ments: b1	

# **Analytical Report**

Client: Essel Environmental Consulting WorkOrder: 1509A62

**Date Received:** 9/25/15 19:30 **Extraction Method:** SW3510C/3630C

**Date Prepared:** 9/28/15 **Analytical Method:** SW8015B

Project: 15166; EBALDC Unit: μg/L

Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
W-ECB8	1509A62-010A	Water	09/25/20	015 16:50 GC2A	110792
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
TPH-Diesel (C10-C23)	ND		50	1	09/29/2015 02:21
TPH-Motor Oil (C18-C36)	ND		250	1	09/29/2015 02:21
Surrogates	REC (%)		<u>Limits</u>		
C9	102		70-130		09/29/2015 02:21
A == -1 == 1/= \ T1/					

Analyst(s): TK

Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
W-ECB9	1509A62-011A	Water	09/25/20	15 16:40 GC2A	110792
Analytes	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
TPH-Diesel (C10-C23)	ND		50	1	09/29/2015 04:50
TPH-Motor Oil (C18-C36)	ND		250	1	09/29/2015 04:50
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
C9	102		70-130		09/29/2015 04:50
Analyst(s). TV					

Analyst(s):	IK

Client ID	Lab ID	Matrix	Date Co	llected Instrument	Batch ID
W-ECB10	1509A62-012A	Water	09/25/201	I5 16:17 GC2A	110792
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
TPH-Diesel (C10-C23)	3100		2500	50	09/29/2015 06:05
TPH-Motor Oil (C18-C36)	17,000		12,000	50	09/29/2015 06:05
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
C9	105		70-130		09/29/2015 06:05
Analyst(s): TK			Analytical Comm	nents: e7,e11,b1	

1509A62

# **Analytical Report**

**Client: Essel Environmental Consulting** WorkOrder:

**Date Received:** 9/25/15 19:30 **Extraction Method:** SW3510C/3630C

**Date Prepared:** 9/28/15 **Analytical Method:** SW8015B

**Project:** 15166; EBALDC Unit: μg/L

### Total Extractable Petroleum Hydrocarbons w/ SG Clean-Up

Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
W-ECB11	1509A62-013A	Water	09/25/20	15 16:02 GC2A	110792
<u>Analytes</u>	Result		<u>RL</u>	<u>DF</u>	Date Analyzed
TPH-Diesel (C10-C23)	ND		50	1	09/29/2015 08:34
TPH-Motor Oil (C18-C36)	ND		250	1	09/29/2015 08:34
Surrogates	REC (%)		<u>Limits</u>		
C9	103		70-130		09/29/2015 08:34
Analyst(s): TK					

Analyst(s):

Client ID	Lab ID Matı	rix Date Collected Instrument	Batch ID
W-ECB12	1509A62-014A Wate	09/25/2015 15:54 GC2A	110792
Analytes	Result	<u>RL</u> <u>DF</u>	Date Analyzed
TPH-Diesel (C10-C23)	ND	50 1	09/29/2015 09:49
TPH-Motor Oil (C18-C36)	ND	250 1	09/29/2015 09:49
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	
C9	102	70-130	09/29/2015 09:49
Analyst(s): TK			

# **Quality Control Report**

**Client:** Essel Environmental Consulting

**Date Prepared:** 10/1/15 **Date Analyzed:** 10/1/15 **Instrument:** GC28

Matrix: Water

**Project:** 15166; EBALDC

WorkOrder: 1509A62

**BatchID:** 111001 **Extraction Method:** SW5030B

**Analytical Method:** SW8260B

Unit:  $\mu g/L$ 

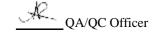
Sample ID: MB/LCS-111001

1509A43-001AMS/MSD

QC Summary	Report for	SW8260B
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Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	9.68	0.50	10	-	97	54-140
Benzene	ND	10.3	0.50	10	-	103	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	36.5	2.0	40	-	91	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	9.41	0.50	10	-	94	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	9.09	0.50	10	-	91	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	10.2	0.50	10	-	102	66-125
1,1-Dichloroethene	ND	10.2	0.50	10	-	102	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				_

(Cont.)



### **Quality Control Report**

Client: Essel Environmental Consulting WorkOrder: 1509A62

Date Prepared: 10/1/15

BatchID: 111001

Date Analyzed:10/1/15Extraction Method:SW5030BInstrument:GC28Analytical Method:SW8260B

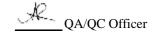
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Project: 15166; EBALDC Sample ID: MB/LCS-111001

1509A43-001AMS/MSD

#### **QC Summary Report for SW8260B**

		<b>7</b> I					
Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
Diisopropyl ether (DIPE)	ND	9.92	0.50	10	-	99	57-136
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	9.42	0.50	10	-	94	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	9.48	0.50	10	-	95	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	9.80	0.50	10	-	98	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	10.2	0.50	10	-	102	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	-	-	-	-



### **Quality Control Report**

**Client: Essel Environmental Consulting** 

**Date Prepared:** 10/1/15 **Date Analyzed:** 10/1/15 **Instrument:** GC28

**Matrix:** Water

**Project:** 15166; EBALDC WorkOrder: 1509A62

**BatchID:** 111001

**Extraction Method: SW5030B** Analytical Method: SW8260B

Unit: μg/L

Sample ID: MB/LCS-111001

1509A43-001AMS/MSD

107

104

LCS Limits

70-130

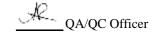
<u> </u>					
···-		RL			LCS %REC

2.60

2.67

**Surrogate Recovery** Dibromofluoromethane 27.9 25 28.0 112 112 70-130 Toluene-d8 25.5 26.2 25 102 105 70-130 4-BFB 2.5

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	11.3	11.0	10	ND	113	111	69-139	2.13	20
Benzene	11.1	10.8	10	ND	111	108	69-141	2.27	20
t-Butyl alcohol (TBA)	49.6	50.1	40	2.8	117	118	41-152	1.01	20
Chlorobenzene	9.88	9.61	10	ND	99	96	77-120	2.75	20
1,2-Dibromoethane (EDB)	10.3	9.98	10	ND	103	100	76-135	2.96	20
1,2-Dichloroethane (1,2-DCA)	11.6	11.3	10	ND	116	113	73-139	2.56	20
1,1-Dichloroethene	10.8	10.7	10	ND	108	107	59-140	1.48	20
Diisopropyl ether (DIPE)	11.2	10.9	10	ND	112	109	72-140	3.12	20
Ethyl tert-butyl ether (ETBE)	10.8	10.5	10	ND	108	105	71-140	3.40	20
Methyl-t-butyl ether (MTBE)	11.4	11.1	10	ND	113	111	73-139	2.35	20
Toluene	10.4	10.2	10	ND	103	101	71-128	2.20	20
Trichloroethene	16.8	16.8	10	6.8	100	100	64-132	0	20
Surrogate Recovery									
Dibromofluoromethane	29.1	28.7	25		116	115	70-130	1.25	20
Toluene-d8	26.4	26.2	25		106	105	70-130	0.685	20
4-BFB	2.83	2.81	2.5		113	112	70-130	0.883	20



**Extraction Method: SW3510C** 

**Analytical Method:** SW8270C-SIM

1509A62

110857

 $\mu g \! / \! L$ 

# **Quality Control Report**

**Client: Essel Environmental Consulting** 

**Date Prepared:** 9/29/15 Date Analyzed: 9/29/15 **Instrument:** 

GC35

**Matrix: Project:** 15166; EBALDC

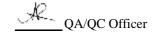
Water Unit:

**Sample ID:** MB/LCS-110857

WorkOrder:

**BatchID:** 

	QC Sumr	nary Report fo	or SW8270C	l ,			
Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acenaphthene	ND	-	0.50	-	-	-	-
Acenaphthylene	ND	-	0.50	-	-	-	-
Anthracene	ND	-	0.50	-	-	-	-
Benzo (a) anthracene	ND	-	0.50	=	-	-	-
Benzo (b) fluoranthene	ND	-	0.50	=	-	-	-
Benzo (k) fluoranthene	ND	-	0.50	=	-	-	-
Benzo (g,h,i) perylene	ND	-	0.50	-	-	-	-
Benzo (a) pyrene	ND	5.82	0.50	10	-	58	30-130
Chrysene	ND	6.76	0.50	10	-	68	30-130
Dibenzo (a,h) anthracene	ND	-	0.50	=	-	-	-
Fluoranthene	ND	-	0.50	-	-	-	-
Fluorene	ND	-	0.50	-	-	-	-
Indeno (1,2,3-cd) pyrene	ND	-	0.50	-	-	-	-
1-Methylnaphthalene	ND	7.61	0.50	10	-	76	30-130
2-Methylnaphthalene	ND	7.58	0.50	10	-	76	30-130
Naphthalene	ND	-	0.50	-	-	-	-
Phenanthrene	ND	7.57	0.50	10	-	76	30-130
Pyrene	ND	6.71	0.50	10	-	67	30-130
Surrogate Recovery							
1-Fluoronaphthalene	21.0	21.4		25	84	85	30-130
2-Fluorobiphenyl	20.7	20.2		25	83	81	30-130



### **Quality Control Report**

Client:Essel Environmental ConsultingWorkOrder:1509A62Date Prepared:9/29/15BatchID:110909

**Date Analyzed:** 9/29/15 **Extraction Method:** SW5030B

Project: 15166; EBALDC Sample ID: MB/LCS-110909

1509A52-001AMS/MSD

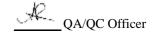
#### QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	55.7	40	60	-	93	70-130
MTBE	ND	11.0	5.0	10	-	110	70-130
Benzene	ND	9.78	0.50	10	-	98	70-130
Toluene	ND	11.0	0.50	10	-	110	70-130
Ethylbenzene	ND	11.1	0.50	10	-	111	70-130
Xylenes	ND	34.2	0.50	30	-	114	70-130

**Surrogate Recovery** 

aaa-TFT 10.2 8.70 10 102 87 70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	53.6	53.8	60	ND	89	90	70-130	0.359	20
MTBE	9.19	9.45	10	ND	92	95	70-130	2.81	20
Benzene	9.27	8.96	10	ND	92	89	70-130	3.36	20
Toluene	11.5	10.6	10	ND	115	106	70-130	7.44	20
Ethylbenzene	11.8	12.0	10	ND	117	119	70-130	2.05	20
Xylenes	35.8	34.6	30	ND	120	115	70-130	3.67	20
Surrogate Recovery									
aaa-TFT	8.29	8.11	10		83	81	70-130	2.13	20



Analytical Method: SW8021B/8015Bm

### **Quality Control Report**

Client:Essel Environmental ConsultingWorkOrder:1509A62Date Prepared:9/30/15BatchID:110979

**Date Analyzed:** 9/30/15 **Extraction Method:** SW5030B

Matrix: Water Unit: μg/L

**Project:** 15166; EBALDC Sample ID: MB/LCS-110979

1509B61-001AMS/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	55.3	40	60	-	92	70-130
MTBE	ND	11.8	5.0	10	-	118	70-130
Benzene	ND	10.3	0.50	10	-	103	70-130
Toluene	ND	11.7	0.50	10	-	117	70-130
Ethylbenzene	ND	11.7	0.50	10	-	117	70-130
Xylenes	ND	35.3	0.50	30	-	118	70-130

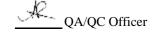
**Surrogate Recovery** 

**Instrument:** 

GC3

aaa-TFT 9.25 8.61 10 92 86 70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	51.9	52.7	60	ND	86	88	70-130	1.54	20
MTBE	10.0	9.19	10	ND	100	92	70-130	8.57	20
Benzene	9.45	9.33	10	ND	94	93	70-130	1.24	20
Toluene	11.1	10.8	10	ND	111	108	70-130	2.99	20
Ethylbenzene	12.2	11.6	10	ND	121	116	70-130	4.35	20
Xylenes	36.2	35.2	30	ND	121	117	70-130	3.01	20
Surrogate Recovery									
aaa-TFT	8.44	8.73	10		84	87	70-130	3.36	20



1509A62

111041

### **Quality Control Report**

Client: Essel Environmental Consulting WorkOrder:

Date Prepared: 10/1/15 BatchID:

Date Analyzed: 10/1/15 Extraction Method: SW5030B

**Project:** 15166; EBALDC Sample ID: MB/LCS-111041

1509A36-008AMS/MSD

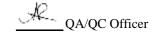
#### QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	61.5	40	60	-	102	70-130
MTBE	ND	12.2	5.0	10	-	118	70-130
Benzene	ND	10.8	0.50	10	-	108	70-130
Toluene	ND	11.0	0.50	10	-	110	70-130
Ethylbenzene	ND	11.0	0.50	10	-	110	70-130
Xylenes	ND	33.3	0.50	30	=	110	70-130

#### **Surrogate Recovery**

aaa-TFT 10.0 9.80 10 100 98 70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	52.4	52.8	60	ND	87	88	70-130	0.699	20
MTBE	8.14	8.33	10	ND	81	83	70-130	2.28	20
Benzene	8.59	8.67	10	ND	86	87	70-130	0.941	20
Toluene	9.49	9.59	10	ND	95	96	70-130	1.02	20
Ethylbenzene	9.85	9.96	10	ND	98	100	70-130	1.16	20
Xylenes	29.9	30.3	30	ND	100	101	70-130	1.18	20
Surrogate Recovery									
aaa-TFT	9.72	9.63	10		97	96	70-130	0.929	20



# **Quality Control Report**

**Client:** Essel Environmental Consulting

**Date Prepared:** 9/28/15

**Date Analyzed:** 9/28/15 - 9/29/15

**Instrument:** GC9a **Matrix:** Water

**Project:** 15166; EBALDC

WorkOrder: 1509A62

**BatchID:** 110792

**Extraction Method:** SW3510C/3630C

**Analytical Method:** SW8015B

Unit:  $\mu g/L$ 

**Sample ID:** MB/LCS-110792

QC Report for SW8015B w/ SG Clean-Up									
Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits		
TPH-Diesel (C10-C23)	ND	881	50	1000	_	88	59-151		
TPH-Motor Oil (C18-C36)	ND	-	250	-	-	-	-		
Surrogate Recovery									
C9	637	643		625	102	103	65-122		

□WaterTrax

WriteOn

□ EDF

# **CHAIN-OF-CUSTODY RECORD**

**✓** Email

HardCopy

Page	1	of	

☐ J-flag

☐ ThirdParty

1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262

WorkOrder: 1509A62 ClientCode: ESL

**EQuIS** 

Report to: Nik Lahiri											Reques	ted TAT:	5	days;			
Essel Environm 564 Market Stre San Francisco, 925-413-5511		cc/3rd Party: PO: ProjectNo:	15166; EBALD	С			564 M San F	Environ arket St rancisco @essel	treet o, CA 9	4104	Iting		Date R Date P	Received: Printed:		09/25/2 09/28/2	
									Re	auested	d Tests (	See led	end bel	ow)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1509A62-001	W-ECB3		Water	9/24/2015 16:35		В	С	Α	Α								
1509A62-002	W-ECB4		Water	9/24/2015 16:51		В		Α	Α								
1509A62-003	W-ECB13		Water	9/24/2015 17:13		В		Α	Α								
1509A62-004	W-ECB14		Water	9/24/2015 17:01		В		Α	Α								
1509A62-005	W-ECB1		Water	9/25/2015 14:08		В		Α	Α						-		
1509A62-006	W-ECB2		Water	9/25/2015 15:15		В	С	Α	Α							1	
1509A62-007	W-ECB5		Water	9/25/2015 17:02		В	С	Α	Α								
1509A62-008	W-ECB6		Water	9/25/2015 15:34		В		Α	Α								
1509A62-009	W-ECB7		Water	9/25/2015 17:16		В	С	Α	Α								
1509A62-010	W-ECB8		Water	9/25/2015 16:50		В	С	Α	Α								
1509A62-011	W-ECB9		Water	9/25/2015 16:40		В		Α	Α								
1509A62-012	W-ECB10		Water	9/25/2015 16:17		В	С	Α	Α								
1509A62-013	W-ECB11		Water	9/25/2015 16:02		В		Α	Α								
1509A62-014	W-ECB12		Water	9/25/2015 15:54		В	С	Α	Α								
Test Legend:													1				
1 8	3260B_W	2	8270_PN	A_W	_ ;	3		G-MBT	EX_W			4	]	TPH(DI	10)W	3G_W	
5		6				7						R					

□ Excel

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

10

Prepared by: Maria Venegas

12

#### **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.

11



"When Quality Counts"

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

#### **WORK ORDER SUMMARY**

Client Name: ESSEL ENVIRONMENTAL CONSULTING QC Level: LEVEL 2 Work Order: 1509A62

Project: 15166; EBALDC Client Contact: Nik Lahiri Date Received: 9/25/2015

Project: 15166; EBALDC Client Contact: Nik Lahiri

Comments: Contact's Email: nlahiri@esseltek.com

		☐ WaterTrax	☐ WriteOn ☐ EDF	Excel	Fax <b>√</b> Email	HardC	opy ThirdPar	ty 🗀 .	J-flag	
Lab ID	Client ID	Matrix	Test Name	Containers /Composites		De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold SubOut
1509A62-001A	W-ECB3	Water	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	6	2 VOAs w/HCL + 2-aVOAs (multi-range)		9/24/2015 16:35	5 days	50%+	
1509A62-001B	W-ECB3	Water	SW8260B (VOCs)	6	VOA w/ HCl		9/24/2015 16:35	5 days	50%+	
1509A62-001C	W-ECB3	Water	SW8270C (PAHs/PNAs)	1	1LA		9/24/2015 16:35	5 days	50%+	
1509A62-002A	W-ECB4	Water	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	6	2 VOAs w/HCL + 2-aVOAs (multi-range)		9/24/2015 16:51	5 days	25%+	
1509A62-002B	W-ECB4	Water	SW8260B (VOCs)	6	VOA w/ HCl		9/24/2015 16:51	5 days	25%+	
1509A62-003A	W-ECB13	Water	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	6	2 VOAs w/HCL + 2-aVOAs (multi-range)		9/24/2015 17:13	5 days	Present	
1509A62-003B	W-ECB13	Water	SW8260B (VOCs)	6	VOA w/ HCl		9/24/2015 17:13	5 days	Present	
1509A62-004A	W-ECB14	Water	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	6	2 VOAs w/HCL + 2-aVOAs (multi-range)		9/24/2015 17:01	5 days	25%+	
1509A62-004B	W-ECB14	Water	SW8260B (VOCs)	6	VOA w/ HCl		9/24/2015 17:01	5 days	25%+	
1509A62-005A	W-ECB1	Water	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	6	2 VOAs w/HCL + 2-aVOAs (multi-range)		9/25/2015 14:08	5 days	Present	
1509A62-005B	W-ECB1	Water	SW8260B (VOCs)	6	VOA w/ HCl		9/25/2015 14:08	5 days	Present	
1509A62-006A	W-ECB2	Water	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	6	2 VOAs w/HCL + 2-aVOAs (multi-range)		9/25/2015 15:15	5 days	25%+	
1509A62-006B	W-ECB2	Water	SW8260B (VOCs)	6	VOA w/ HCl		9/25/2015 15:15	5 days	25%+	
1509A62-006C	W-ECB2	Water	SW8270C (PAHs/PNAs)	1	1LA		9/25/2015 15:15	5 days	25%+	

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.



"When Quality Counts"

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#### **WORK ORDER SUMMARY**

Client Name: ESSEL ENVIRONMENTAL CONSULTING QC Level: LEVEL 2 Work Order: 1509A62

Project: 15166; EBALDC Client Contact: Nik Lahiri Date Received: 9/25/2015

Comments: Contact's Email: nlahiri@esseltek.com

		☐ WaterTrax	☐WriteOn ☐EDF	Excel	Fax <b>⊌</b> Email	HardC	opy ThirdPar	ty 🗀 🤇	I-flag	
Lab ID	Client ID	Matrix	Test Name	Containers /Composites		De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold SubOut
1509A62-007A	W-ECB5	Water	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	. 6	2 VOAs w/HCL + 2-aVOAs (multi-range)		9/25/2015 17:02	5 days	50%+	
1509A62-007B	W-ECB5	Water	SW8260B (VOCs)	6	VOA w/ HCl		9/25/2015 17:02	5 days	50%+	
1509A62-007C	W-ECB5	Water	SW8270C (PAHs/PNAs)	1	1LA		9/25/2015 17:02	5 days	50%+	
1509A62-008A	W-ECB6	Water	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	. 6	2 VOAs w/HCL + 2-aVOAs (multi-range)		9/25/2015 15:34	5 days	25%+	
1509A62-008B	W-ECB6	Water	SW8260B (VOCs)	6	VOA w/ HCl		9/25/2015 15:34	5 days	25%+	
1509A62-009A	W-ECB7	Water	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	. 6	2 VOAs w/HCL + 2-aVOAs (multi-range)		9/25/2015 17:16	5 days	5%+	
1509A62-009B	W-ECB7	Water	SW8260B (VOCs)	6	VOA w/ HCl		9/25/2015 17:16	5 days	5%+	
1509A62-009C	W-ECB7	Water	SW8270C (PAHs/PNAs)	1	1LA		9/25/2015 17:16	5 days	5%+	
1509A62-010A	W-ECB8	Water	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	. 6	2 VOAs w/HCL + 2-aVOAs (multi-range)		9/25/2015 16:50	5 days	Present	
1509A62-010B	W-ECB8	Water	SW8260B (VOCs)	6	VOA w/ HCl		9/25/2015 16:50	5 days	Present	
1509A62-010C	W-ECB8	Water	SW8270C (PAHs/PNAs)	1	1LA		9/25/2015 16:50	5 days	Present	
1509A62-011A	W-ECB9	Water	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	. 6	2 VOAs w/HCL + 2-aVOAs (multi-range)		9/25/2015 16:40	5 days	Present	
1509A62-011B	W-ECB9	Water	SW8260B (VOCs)	6	VOA w/ HCl		9/25/2015 16:40	5 days	Present	
1509A62-012A	W-ECB10	Water	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	. 6	2 VOAs w/HCL + 2-aVOAs (multi-range)		9/25/2015 16:17	5 days	10%+	

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).

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#### **WORK ORDER SUMMARY**

Client Name:ESSEL ENVIRONMENTAL CONSULTINGQC Level:LEVEL 2Work Order:1509A62Project:15166; EBALDCClient Contact:Nik LahiriDate Received:9/25/2015

Comments: Contact's Email: nlahiri@esseltek.com

		☐WaterTrax	WriteOnEDF	Excel	]Fax <b>☑</b> Email	HardC	opyThirdPar	ty 🗀 、	J-flag	
Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold SubOut
1509A62-012B	W-ECB10	Water	SW8260B (VOCs)	6	VOA w/ HCl		9/25/2015 16:17	5 days	10%+	
1509A62-012C	W-ECB10	Water	SW8270C (PAHs/PNAs)	1	1LA		9/25/2015 16:17	5 days	10%+	
1509A62-013A	W-ECB11	Water	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	6	2 VOAs w/HCL + 2-aVOAs (multi-range)		9/25/2015 16:02	5 days	None	
1509A62-013B	W-ECB11	Water	SW8260B (VOCs)	6	VOA w/ HCl		9/25/2015 16:02	5 days	None	
1509A62-014A	W-ECB12	Water	Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up	6	2 VOAs w/HCL + 2-aVOAs (multi-range)		9/25/2015 15:54	5 days	None	
1509A62-014B	W-ECB12	Water	SW8260B (VOCs)	6	VOA w/ HCl		9/25/2015 15:54	5 days	None	
1509A62-014C	W-ECB12	Water	SW8270C (PAHs/PNAs)	1	1LA		9/25/2015 15:54	5 days	None	

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.

#### McCAMPBELL ANALYTICAL, INC. CHAIN OF CUSTODY RECORD 1534 WILLOW PASS ROAD PITTSBURG, CA 94565-1701 150 9 A62 TURN AROUND TIME RUSH 24 HR 48 HR Website: www.mccampbell.com Email: main@mccampbell.com Write On (DW) GeoTracker EDF **PDF** Excel Fax: (925) 252-9269 Telephone: (877) 252-9262 Check if sample is effluent and "J" flag is required Report To: Nik Lahiri Bill To: Samhita Lahiri **Analysis Request** Other Comments Company: Essel Technology Services, Inc \*\*Indicate 564 Market Street Total Petroleum Oil & Grease (1664 / 5520 E/B&F) 8015) / MTBE here if these San Francisco, California 94104 E-Mail: nlahiri@esseltek.com samples are Filter sample for DISSOLVED metals analysis Tele: (925) 413-5511 Fax: ( potentially TPH as Gasoline, Diesel, Motor Oil (8015) dangerous to Project Name: EBALDC EPA 502.2 / 601 / 8010 / 8021 (HVOCs) Project #: 15166 handle: Project Location: West Grand Avenue and Brush Street, Oakland, California 94612 EPA 505/ 608 / 8081 (CI Pesticides) Sampler Signature: Without 507 / 8141 (NP Pesticides) BTEX & TPH as Gas (602 / METHOD SAMPLING MATRIX PRESERVED Type Containers LOCATION/ SAMPLE ID **Field Point** Sludge Name Date Time Water HNO3 Other Other HCL ICE Silica gul cleanyz before dusel and motor oil G \*\*MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely. COMMENTS: ICE/to Date; Time: Received By: GOOD CONDITION 6:26 pies. HEAD SPACE ABSENT Relinquished By: Time: Received By: DECHLORINATED IN LAB 25/15 APPROPRIATE CONTAINERS

PRESERVED IN LAB

PRESERVATION

VOAS O&G METALS OTHER

pH<2

Relinquished By:

Date:

Time:

Received By:

McCAMPBELL ANALYTICAL, INC CHAIN OF CUSTODY RECORD 1534 WILLOW PASS ROAD TURN AROUND TIME PITTSBURG, CA 94565-1701 RUSH 24 HR 48 HR 72 HR Website: www.mccampbell.com Email: main@mccampbell.com Write On (DW) GeoTracker EDF PDF Excel Fax: (925) 252-9269 Telephone: (877) 252-9262 Check if sample is effluent and "J" flag is required Bill To: Samhita Lahiri Report To: Nik Lahiri **Analysis Request** Other Comments Company: Essel Technology Services, Inc \*\*Indicate 564 Market Street Total Petroleum Oil & Grease (1664 / 5520 E/B&F) here if these 8015) / MTBE San Francisco, California 94104 E-Mail: nlahiri@esseltek.com samples are Filter sample for DISSOLVED metals analysis Tele: (925) 413-5511 Fax: ( LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020) potentially dangerous to **Project Name: EBALDC** Project #: 15166 handle: Project Location: West Grand Avenue and Brush Street, Oakland, California 94612 BTEX & TPH as Gas (602 / 8021 + Wohn C. Wolfe Sampler Signature: METHOD **SAMPLING** MATRIX PRESERVED LOCATION/ SAMPLE ID Field Point Sludge Time Name Date Water Other ICE Soil Silica 94 W-EGB1 W- ECB2 before W-ECBS W-ECB 6 diesel and motoroil W- ECB 7 analysis W- ECB8 W-EEB9 125/15 4:17p.m. 13 G W-ECB10 9/25/15 4:02 pm. 12 W-ECB 11 9/28/15 3354/0,10,13 W-ECB1Z \*\*MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

COMMENTS: Time: Received By: ICE/to Relinguished By: GOOD CONDITION 6:260m HEAD SPACE ABSENT Relinquished By: Date: Time: Received By: DECHLORINATED IN LAB APPROPRIATE CONTAINERS PRESERVED IN LAB Relinquished By: Date: Time: Received By: VOAS O&G METALS OTHER PRESERVATION pH<2

### **Sample Receipt Checklist**

Client Name:	lient Name: Essel Environmental Consulting					Time Received:	9/25/2015 7:30:00 PM
Project Name:	15166; EBALDC				LogIn Revi	iewed by:	Maria Venegas
WorkOrder №:	1509A62	Matrix: Water			Carrier:	Client Drop-In	
		Chain of C	ustody	/ (COC) I	nformation		
Chain of custody	present?		Yes	<b>✓</b>	No 🗌		
Chain of custody	signed when relinqui	shed and received?	Yes	<b>✓</b>	No 🗌		
Chain of custody	agrees with sample I	abels?	Yes	<b>✓</b>	No $\square$		
Sample IDs noted	d by Client on COC?		Yes	•	No 🗌		
Date and Time of	f collection noted by 0	Client on COC?	Yes	<b>✓</b>	No $\square$		
Sampler's name	noted on COC?		Yes	<b>✓</b>	No 🗌		
		<u>Sampl</u>	e Rece	eipt Infori	mation		
Custody seals int	tact on shipping conta	-	Yes		No 🗌		NA 🗹
Shipping containe	er/cooler in good cond	dition?	Yes	•	No 🗌		
Samples in prope	er containers/bottles?		Yes	<b>✓</b>	No $\square$		
Sample containe	rs intact?		Yes	<b>✓</b>	No 🗌		
Sufficient sample	volume for indicated	test?	Yes	<b>✓</b>	No 🗆		
		Sample Preservation	on and	Hold Tin	ne (HT) Info	rmation	
All samples recei	ived within holding tim	ne?	Yes	<b>✓</b>	No 🗆		
Sample/Temp Bla	ank temperature			Temp:	1.3°C		NA 🗌
Water - VOA vial	s have zero headspa	ce / no bubbles?	Yes	<b>✓</b>	No 🗌		NA 🗆
Sample labels ch	necked for correct pre	servation?	Yes	•	No 🗌		
pH acceptable up	oon receipt (Metal: <2	; 522: <4; 218.7: >8)?	Yes		No 🗌		NA 🗹
Samples Receive	ed on Ice?		Yes	✓	No 🗆		
		(Ice Type	e: WE	TICE )	)		
UCMR3 Samples		e upon receipt for EPA 522?	Yes		No 🗌		NA 🗹
	ested and acceptable	upon receipt for EPA 218.7,			No 🗆		NA 🗹
* NOTE: If the "N	lo" box is checked, se	ee comments below.					
Comments:	======	======:					========



10/22/2015
Jaime Warren
Essel Environmental Consultants
564 Market St.

San Francisco CA 94104

Project Name: W.Grand & Brush Subsurface Investigation

Project #: 15166

Workorder #: 1510198A

Dear Jaime Warren

The following report includes the data for the above referenced project for sample(s) received on 10/9/2015 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 Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free 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** 

Kya Vych



#### WORK ORDER #: 1510198A

Work Order Summary

CLIENT: Jaime Warren BILL TO: Jaime Warren

Essel Environmental Consultants Essel Environmental Consultants

564 Market St. 564 Market St.

San Francisco, CA 94104 San Francisco, CA 94104

**PHONE:** 510-878-0389 **P.O.** # 15166

FAX: PROJECT # 15166 W.Grand & Brush Subsurface

**DATE RECEIVED:** 10/09/2015 CONTACT: Investigation Kyle Vagadori 10/22/2015

			RECEIPT	FINAL
FRACTION #	NAME	<u>TEST</u>	VAC./PRES.	<b>PRESSURE</b>
01A	SV-1	TO-15	3.9 "Hg	14.7 psi
02A	SV-2	TO-15	3.7 "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

	The	ide flages		
CERTIFIED BY:			DATE: 10/22/15	

Technical Director

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.



#### LABORATORY NARRATIVE EPA Method TO-15 Essel Environmental Consultants Workorder# 1510198A

Two 1 Liter Summa Canister samples were received on October 09, 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 SV-1 due to matrix interference.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

#### **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 FULL SCAN**

Client Sample ID: SV-1 Lab ID#: 1510198A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	2.3	12	5.9	31
Methyl tert-butyl ether	2.3	31	8.3	110
Hexane	2.3	130	8.1	460
cis-1,2-Dichloroethene	2.3	29	9.1	110
Cyclohexane	2.3	71	7.9	240
2,2,4-Trimethylpentane	2.3	310	11	1400
Benzene	2.3	8.7	7.3	28
Heptane	2.3	62	9.4	260
Ethyl Benzene	2.3	8.9	10	39
m,p-Xylene	2.3	30	10	130
o-Xylene	2.3	16	10	68
Cumene	2.3	4.5	11	22
Propylbenzene	2.3	17	11	83
4-Ethyltoluene	2.3	50	11	240
1,3,5-Trimethylbenzene	2.3	16	11	79
1,2,4-Trimethylbenzene	2.3	56	11	280
·,=, · · · · · · · · · · · · · · · · · ·				

Client Sample ID: SV-2 Lab ID#: 1510198A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Carbon Disulfide	4.6	4.8	14	15
Chloroform	1.2	6.9	5.6	34
Tetrachloroethene	1.2	22	7.8	150



### Client Sample ID: SV-1 Lab ID#: 1510198A-01A

### EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a101419	Date of Collection: 10/8/15 1:19:00 PM
Dil. Factor:	4.60	Date of Analysis: 10/14/15 11:27 PM

Dil. Factor:	4.60	Date of Analysis: 10/14/15 11:27 F		4/15 11:27 PM
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(ug/m3)
Freon 12	2.3	Not Detected	11	Not Detected
Freon 114	2.3	Not Detected	16	Not Detected
Chloromethane	23	Not Detected	47	Not Detected
Vinyl Chloride	2.3	12	5.9	31
1,3-Butadiene	2.3	Not Detected	5.1	Not Detected
Bromomethane	23	Not Detected	89	Not Detected
Chloroethane	9.2	Not Detected	24	Not Detected
Freon 11	2.3	Not Detected	13	Not Detected
Ethanol	9.2	Not Detected	17	Not Detected
Freon 113	2.3	Not Detected	18	Not Detected
1,1-Dichloroethene	2.3	Not Detected	9.1	Not Detected
Acetone	23	Not Detected	55	Not Detected
2-Propanol	9.2	Not Detected	23	Not Detected
Carbon Disulfide	9.2	Not Detected	29	Not Detected
3-Chloropropene	9.2	Not Detected	29	Not Detected
Methylene Chloride	23	Not Detected	80	Not Detected
Methyl tert-butyl ether	2.3	31	8.3	110
trans-1,2-Dichloroethene	2.3	Not Detected	9.1	Not Detected
Hexane	2.3	130	8.1	460
1,1-Dichloroethane	2.3	Not Detected	9.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	9.2	Not Detected	27	Not Detected
cis-1,2-Dichloroethene	2.3	29	9.1	110
Tetrahydrofuran	2.3	Not Detected	6.8	Not Detected
Chloroform	2.3	Not Detected	11	Not Detected
1,1,1-Trichloroethane	2.3	Not Detected	12	Not Detected
Cyclohexane	2.3	71	7.9	240
Carbon Tetrachloride	2.3	Not Detected	14	Not Detected
2,2,4-Trimethylpentane	2.3	310	11	1400
Benzene	2.3	8.7	7.3	28
1,2-Dichloroethane	2.3	Not Detected	9.3	Not Detected
Heptane	2.3	62	9.4	260
Trichloroethene	2.3	Not Detected	12	Not Detected
1,2-Dichloropropane	2.3	Not Detected	11	Not Detected
1,4-Dioxane	9.2	Not Detected	33	Not Detected
Bromodichloromethane	2.3	Not Detected	15	Not Detected
cis-1,3-Dichloropropene	2.3	Not Detected	10	Not Detected
4-Methyl-2-pentanone	2.3	Not Detected	9.4	Not Detected
Toluene	2.3	Not Detected	8.7	Not Detected
trans-1,3-Dichloropropene	2.3	Not Detected	10	Not Detected
1,1,2-Trichloroethane	2.3	Not Detected	12	Not Detected
Tetrachloroethene	2.3	Not Detected	16	Not Detected
2-Hexanone	9.2	Not Detected	38	Not Detected



#### Client Sample ID: SV-1 Lab ID#: 1510198A-01A

#### EPA METHOD TO-15 GC/MS FULL SCAN

File Name: a101419 Date of Collection: 10/8/15 1:19:00 PM
Dil. Factor: 4.60 Date of Analysis: 10/14/15 11:27 PM

Dili i dotoi:	7.00	Date	OI Allalysis. Tori	7/13 11.27 1 10
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	2.3	Not Detected	20	Not Detected
1,2-Dibromoethane (EDB)	2.3	Not Detected	18	Not Detected
Chlorobenzene	2.3	Not Detected	10	Not Detected
Ethyl Benzene	2.3	8.9	10	39
m,p-Xylene	2.3	30	10	130
o-Xylene	2.3	16	10	68
Styrene	2.3	Not Detected	9.8	Not Detected
Bromoform	2.3	Not Detected	24	Not Detected
Cumene	2.3	4.5	11	22
1,1,2,2-Tetrachloroethane	2.3	Not Detected	16	Not Detected
Propylbenzene	2.3	17	11	83
4-Ethyltoluene	2.3	50	11	240
1,3,5-Trimethylbenzene	2.3	16	11	79
1,2,4-Trimethylbenzene	2.3	56	11	280
1,3-Dichlorobenzene	2.3	Not Detected	14	Not Detected
1,4-Dichlorobenzene	2.3	Not Detected	14	Not Detected
alpha-Chlorotoluene	2.3	Not Detected	12	Not Detected
1,2-Dichlorobenzene	2.3	Not Detected	14	Not Detected
1,2,4-Trichlorobenzene	9.2	Not Detected UJ	68	Not Detected UJ
Hexachlorobutadiene	9.2	Not Detected	98	Not Detected
Naphthalene	4.6	Not Detected	24	Not Detected

UJ = Analyte associated with low bias in the CCV and/or LCS.

Container Type: 1 Liter Summa Canister

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	105	70-130	
1,2-Dichloroethane-d4	100	70-130	
4-Bromofluorobenzene	99	70-130	



### Client Sample ID: SV-2 Lab ID#: 1510198A-02A

### EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a101420	Date of Collection: 10/8/15 2:02:00 PM
Dil. Factor:	2.30	Date of Analysis: 10/14/15 11:54 PM

Dil. Factor:	2.30	Date of Analysis: 10/14/15 11:54		4/15 11:54 PM
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(ug/m3)
Freon 12	1.2	Not Detected	5.7	Not Detected
Freon 114	1.2	Not Detected	8.0	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	2.9	Not Detected
1,3-Butadiene	1.2	Not Detected	2.5	Not Detected
Bromomethane	12	Not Detected	45	Not Detected
Chloroethane	4.6	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.5	Not Detected
Ethanol	4.6	Not Detected	8.7	Not Detected
Freon 113	1.2	Not Detected	8.8	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	12	Not Detected	27	Not Detected
2-Propanol	4.6	Not Detected	11	Not Detected
Carbon Disulfide	4.6	4.8	14	15
3-Chloropropene	4.6	Not Detected	14	Not Detected
Methylene Chloride	12	Not Detected	40	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.1	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	Not Detected	4.0	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.6	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.4	Not Detected
Chloroform	1.2	6.9	5.6	34
1,1,1-Trichloroethane	1.2	Not Detected	6.3	Not Detected
Cyclohexane	1.2	Not Detected	4.0	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.2	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.4	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.6	Not Detected
Heptane	1.2	Not Detected	4.7	Not Detected
Trichloroethene	1.2	Not Detected	6.2	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.3	Not Detected
1,4-Dioxane	4.6	Not Detected	16	Not Detected
Bromodichloromethane	1.2	Not Detected	7.7	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.7	Not Detected
Toluene	1.2	Not Detected	4.3	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.2	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.3	Not Detected
Tetrachloroethene	1.2	22	7.8	150
2-Hexanone	4.6	Not Detected	19	Not Detected



#### Client Sample ID: SV-2 Lab ID#: 1510198A-02A

#### EPA METHOD TO-15 GC/MS FULL SCAN

 File Name:
 a101420
 Date of Collection:
 10/8/15 2:02:00 PM

 Dil. Factor:
 2.30
 Date of Analysis:
 10/14/15 11:54 PM

J 1 (101011	2.00	Date	or milaryolo: 10/1	7, 10 11.0 T I III
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	9.8	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	8.8	Not Detected
Chlorobenzene	1.2	Not Detected	5.3	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected
Styrene	1.2	Not Detected	4.9	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	7.9	Not Detected
Propylbenzene	1.2	Not Detected	5.6	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.6	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	6.9	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	6.9	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	6.9	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected UJ	34	Not Detected UJ
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected
Naphthalene	2.3	Not Detected	12	Not Detected

UJ = Analyte associated with low bias in the CCV and/or LCS.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	102	70-130



4-Methyl-2-pentanone

1,1,2-Trichloroethane

Tetrachloroethene

2-Hexanone

trans-1,3-Dichloropropene

Toluene

#### Client Sample ID: Lab Blank Lab ID#: 1510198A-03A

#### EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	a101408c 1.00	Date of Collection: NA Date of Analysis: 10/14/15 01:22 P		4/15 01:22 PM
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
	0.50			

Not Detected

Not Detected

Not Detected

Not Detected

Not Detected

Not Detected

2.0

1.9

2.3

2.7

3.4

8.2

Not Detected

Not Detected

Not Detected

Not Detected

Not Detected

Not Detected

0.50

0.50

0.50

0.50

0.50

2.0



#### Client Sample ID: Lab Blank Lab ID#: 1510198A-03A

#### EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a101408c	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/14/15 01:22 PM

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Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected UJ	15	Not Detected UJ
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Naphthalene	1.0	Not Detected	5.2	Not Detected

UJ = Analyte associated with low bias in the CCV and/or LCS.

**Container Type: NA - Not Applicable** 

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	92	70-130	
1,2-Dichloroethane-d4	99	70-130	
4-Bromofluorobenzene	102	70-130	



### Client Sample ID: CCV Lab ID#: 1510198A-04A

#### EPA METHOD TO-15 GC/MS FULL SCAN

File Name: a101403 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 10/14/15 10:36 AM

Compound	%Recovery
Freon 12	88
Freon 114	89
Chloromethane	88
Vinyl Chloride	90
1,3-Butadiene	86
Bromomethane	87
Chloroethane	89
Freon 11	88
Ethanol	83
Freon 113	90
1,1-Dichloroethene	90
Acetone	91
2-Propanol	97
Carbon Disulfide	91
3-Chloropropene	91
Methylene Chloride	94
Methyl tert-butyl ether	92
trans-1,2-Dichloroethene	93
Hexane	93
1,1-Dichloroethane	91
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	98
Tetrahydrofuran	92
Chloroform	94
1,1,1-Trichloroethane	89
Cyclohexane	89
Carbon Tetrachloride	90
2,2,4-Trimethylpentane	96
Benzene	91
1,2-Dichloroethane	92
Heptane	96
Trichloroethene	93
1,2-Dichloropropane	87
1,4-Dioxane	98
Bromodichloromethane	91
cis-1,3-Dichloropropene	96
4-Methyl-2-pentanone	92
Toluene	94
trans-1,3-Dichloropropene	95
1,1,2-Trichloroethane	92
Tetrachloroethene	92
2-Hexanone	99



#### Client Sample ID: CCV Lab ID#: 1510198A-04A

#### EPA METHOD TO-15 GC/MS FULL SCAN

File Name: a101403 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 10/14/15 10:36 AM

Compound	%Recovery	
Dibromochloromethane	95	
1,2-Dibromoethane (EDB)	99	
Chlorobenzene	95	
Ethyl Benzene	98	
m,p-Xylene	99	
o-Xylene	97	<del></del>
Styrene	104	
Bromoform	93	
Cumene	96	
1,1,2,2-Tetrachloroethane	94	
Propylbenzene	95	
4-Ethyltoluene	98	
1,3,5-Trimethylbenzene	101	
1,2,4-Trimethylbenzene	105	
1,3-Dichlorobenzene	96	
1,4-Dichlorobenzene	92	
alpha-Chlorotoluene	88	
1,2-Dichlorobenzene	78	
1,2,4-Trichlorobenzene	67 Q	
Hexachlorobutadiene	70	
Naphthalene	74	

#### Q = Exceeds Quality Control limits.

**Container Type: NA - Not Applicable** 

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	93	70-130



#### Client Sample ID: LCS Lab ID#: 1510198A-05A

#### EPA METHOD TO-15 GC/MS FULL SCAN

File Name: a101405 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 10/14/15 11:40 AM

Commonad	9/ December	Method Limits
Compound	%Recovery	
Freon 12	108	70-130
Freon 114	112	70-130
Chloromethane	105	70-130
Vinyl Chloride	110	70-130
1,3-Butadiene	99	70-130
Bromomethane	98	70-130
Chloroethane	104	70-130
Freon 11	101	70-130
Ethanol	104	70-130
Freon 113	106	70-130
1,1-Dichloroethene	112	70-130
Acetone	109	70-130
2-Propanol	115	70-130
Carbon Disulfide	94	70-130
3-Chloropropene	105	70-130
Methylene Chloride	110	70-130
Methyl tert-butyl ether	108	70-130
trans-1,2-Dichloroethene	94	70-130
Hexane	111	70-130
1,1-Dichloroethane	111	70-130
2-Butanone (Methyl Ethyl Ketone)	114	70-130
cis-1,2-Dichloroethene	127	70-130
Tetrahydrofuran	107	70-130
Chloroform	111	70-130
1,1,1-Trichloroethane	107	70-130
Cyclohexane	106	70-130
Carbon Tetrachloride	109	70-130
2,2,4-Trimethylpentane	116	70-130
Benzene	115	70-130
1,2-Dichloroethane	117	70-130
Heptane	117	70-130
Trichloroethene	113	70-130
1,2-Dichloropropane	102	70-130
1,4-Dioxane	102	70-130
Bromodichloromethane	110	70-130
cis-1,3-Dichloropropene	98	70-130
4-Methyl-2-pentanone	104	70-130
Toluene	111	70-130
trans-1,3-Dichloropropene	107	70-130
1,1,2-Trichloroethane	107	70-130
Tetrachloroethene	103	70-130
2-Hexanone	110	70-130 70-130
Z-I IEXALIULIE	110	70-130



#### Client Sample ID: LCS Lab ID#: 1510198A-05A

#### EPA METHOD TO-15 GC/MS FULL SCAN

File Name: a101405 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 10/14/15 11:40 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	112	70-130
1,2-Dibromoethane (EDB)	114	70-130
Chlorobenzene	111	70-130
Ethyl Benzene	114	70-130
m,p-Xylene	115	70-130
o-Xylene	117	70-130
Styrene	115	70-130
Bromoform	110	70-130
Cumene	112	70-130
1,1,2,2-Tetrachloroethane	111	70-130
Propylbenzene	114	70-130
4-Ethyltoluene	112	70-130
1,3,5-Trimethylbenzene	109	70-130
1,2,4-Trimethylbenzene	116	70-130
1,3-Dichlorobenzene	108	70-130
1,4-Dichlorobenzene	110	70-130
alpha-Chlorotoluene	118	70-130
1,2-Dichlorobenzene	114	70-130
1,2,4-Trichlorobenzene	97	70-130
Hexachlorobutadiene	96	70-130
Naphthalene	68	60-140

		Method		
Surrogates	%Recovery	Limits		
Toluene-d8	99	70-130		
1,2-Dichloroethane-d4	94	70-130		
4-Bromofluorobenzene	94	70-130		



#### Client Sample ID: LCSD Lab ID#: 1510198A-05AA

#### EPA METHOD TO-15 GC/MS FULL SCAN

File Name: a101406 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 10/14/15 12:17 PM

%Recovery  107 112 102 110 100	70-130 70-130 70-130
112 102 110 100	70-130 70-130
102 110 100	70-130
110 100	
100	70.400
	70-130
400	70-130
100	70-130
107	70-130
102	70-130
100	70-130
98	70-130
107	70-130
111	70-130
112	70-130
89	70-130
94	70-130
112	70-130
107	70-130
95	70-130
109	70-130
112	70-130
119	70-130
124	70-130
108	70-130
112	70-130
108	70-130
105	70-130
106	70-130
117	70-130
114	70-130
114	70-130
114	70-130
112	70-130
105	70-130
118	70-130
116	70-130
113	70-130
112	70-130
113	70-130
114	70-130
111	70-130
114	70-130
	70-130
	100 107 102 100 98 107 111 112 89 94 112 107 95 109 112 119 124 108 112 108 105 106 117 114 114 114 114 114 115 117 114 1114 1



#### Client Sample ID: LCSD Lab ID#: 1510198A-05AA

#### EPA METHOD TO-15 GC/MS FULL SCAN

File Name: a101406 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 10/14/15 12:17 PM

Compound	%Recovery	Method Limits
Dibromochloromethane	118	70-130
1,2-Dibromoethane (EDB)	119	70-130
Chlorobenzene	111	70-130
Ethyl Benzene	114	70-130
m,p-Xylene	114	70-130
o-Xylene	117	70-130
Styrene	118	70-130
Bromoform	115	70-130
Cumene	117	70-130
1,1,2,2-Tetrachloroethane	110	70-130
Propylbenzene	118	70-130
4-Ethyltoluene	118	70-130
1,3,5-Trimethylbenzene	114	70-130
1,2,4-Trimethylbenzene	125	70-130
1,3-Dichlorobenzene	119	70-130
1,4-Dichlorobenzene	122	70-130
alpha-Chlorotoluene	129	70-130
1,2-Dichlorobenzene	124	70-130
1,2,4-Trichlorobenzene	107	70-130
Hexachlorobutadiene	105	70-130
Naphthalene	74	60-140

		Method		
Surrogates	%Recovery	Limits		
Toluene-d8	102	70-130		
1,2-Dichloroethane-d4	94	70-130		
4-Bromofluorobenzene	98	70-130		



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10/22/2015
Jaime Warren
Essel Environmental Consultants
564 Market St.

San Francisco CA 94104

Project Name: W.Grand & Brush Subsurface Investigation

Project #: 15166

Workorder #: 1510198B

Dear Jaime Warren

The following report includes the data for the above referenced project for sample(s) received on 10/9/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-3 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 Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free 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** 

Kya Vych



#### WORK ORDER #: 1510198B

Work Order Summary

CLIENT: Jaime Warren BILL TO: Jaime Warren

Essel Environmental Consultants Essel Environmental Consultants

564 Market St. 564 Market St.

San Francisco, CA 94104 San Francisco, CA 94104

PHONE: 510-878-0389 P.O. # 15166

FAX: PROJECT # 15166 W.Grand & Brush Subsurface

**DATE RECEIVED:** 10/09/2015 CONTACT: Investigation Kyle Vagadori 10/22/2015

			RECEIPT	FINAL
FRACTION #	<u>NAME</u>	<u>TEST</u>	VAC./PRES.	<b>PRESSURE</b>
01A	SV-1	Modified TO-3	3.9 "Hg	14.7 psi
02A	SV-2	Modified TO-3	3.7 "Hg	15 psi
03A	Lab Blank	Modified TO-3	NA	NA
04A	LCS	Modified TO-3	NA	NA

annamen n.,	Ju	erai pragio	D.A.DE	10/22/15	
CERTIFIED BY:			DATE:	10/22/13	

Technical Director

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

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## LABORATORY NARRATIVE Modified TO-3 Essel Environmental Consultants Workorder# 1510198B

Two 1 Liter Summa Canister samples were received on October 09, 2015. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The TPH results are calculated using the response of Gasoline. A molecular weight of 100 is used to convert the TPH ppmv result to ug/L. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	TO-3	ATL Modifications
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch = 20 samples.</td
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation DL = A+3.3S, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

#### **Receiving Notes**

There were no receiving discrepancies.

#### **Analytical Notes**

The recovery of surrogate Fluorobenzene in sample SV-1 was outside control limits due to high level hydrocarbon matrix interference. Data is reported as qualified.

#### **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 EPA METHOD TO-3 GC/FID**

Client Sample ID: SV-1 Lab ID#: 1510198B-01A

	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ppmv)	(ug/L)	(ppmv)	(ug/L)
TPH (Gasoline Range)	0.058	0.24	16	64

Client Sample ID: SV-2 Lab ID#: 1510198B-02A

	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ppmv)	(ug/L)	(ppmv)	(ug/L)
TPH (Gasoline Range)	0.058	0.24	0.11	0.45



#### Client Sample ID: SV-1 Lab ID#: 1510198B-01A

#### MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d102205	Date of Collection: 10/8/15 1:19:00 PM
Dil. Factor:	2.30	Date of Analysis: 10/22/15 11:18 AM

	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ppmv)	(ug/L)	(ppmv)	(ug/L)
TPH (Gasoline Range)	0.058	0.24	16	64

Q = Exceeds Quality Control limits, possibly due to matrix effects.

Container Type: 1 Liter Summa Canister

		Wethod
Surrogates	%Recovery	Limits
Fluorobenzene (FID)	169 Q	75-150



#### Client Sample ID: SV-2 Lab ID#: 1510198B-02A

#### MODIFIED EPA METHOD TO-3 GC/FID

File Name: Dil. Factor:	d102204 2.30		of Collection: 10/8 of Analysis: 10/22	
Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.058	0.24	0.11	0.45
Container Type: 1 Liter Summ	a Canister			Method
Surrogates		%Recovery		Limits
Fluorobenzene (FID)		92		75-150



#### Client Sample ID: Lab Blank Lab ID#: 1510198B-03A

#### MODIFIED EPA METHOD TO-3 GC/FID

File Name: Dil. Factor:	d102203 1.00	Date of Collection: NA Date of Analysis: 10/22/15 09:56 AM			
Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)	
TPH (Gasoline Range)	0.025	0.10	Not Detected	Not Detected	
Container Type: NA - Not App	licable				
Surrogates		%Recovery		Method Limits	
Fluorobenzene (FID)		92		75-150	



#### Client Sample ID: LCS Lab ID#: 1510198B-04A

#### MODIFIED EPA METHOD TO-3 GC/FID

File Name: Dil. Factor:	d102202 1.00	Date of Collection: NA Date of Analysis: 10/22	2/15 09:22 AM
			Method
Compound		%Recovery	Limits

80

75-125

Container Type: NA - Not Applicable

TPH (Gasoline Range)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	95	75-150



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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA 95630-4719 (916) 985-1000 FAX (916) 985-1020 Page \_\_\_\_\_\_ of \_\_\_\_\_

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10/22/2015
Jaime Warren
Essel Environmental Consultants
564 Market St.

San Francisco CA 94104

Project Name: W.Grand & Brush Subsurface Investigation

Project #: 15166

Workorder #: 1510198C

Dear Jaime Warren

The following report includes the data for the above referenced project for sample(s) received on 10/9/2015 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 Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free 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** 

Kya Vych



#### WORK ORDER #: 1510198C

Work Order Summary

CLIENT: Jaime Warren BILL TO: Jaime Warren

Essel Environmental Consultants Essel Environmental Consultants

564 Market St. 564 Market St.

San Francisco, CA 94104 San Francisco, CA 94104

PHONE: 510-878-0389 P.O. # 15166

FAX: PROJECT # 15166 W.Grand & Brush Subsurface

**DATE RECEIVED:** 10/09/2015 CONTACT: Investigation Kyle Vagadori 10/22/2015

			RECEIPT	FINAL
FRACTION #	<u>NAME</u>	<u>TEST</u>	VAC./PRES.	<b>PRESSURE</b>
01A	SV-1	Modified ASTM D-1946	3.9 "Hg	14.7 psi
02A	SV-2	Modified ASTM D-1946	3.7 "Hg	15 psi
03A	Lab Blank	Modified ASTM D-1946	NA	NA
04A	LCS	Modified ASTM D-1946	NA	NA
04AA	LCSD	Modified ASTM D-1946	NA	NA

annamen n.,	Ju	erai pragio	D.A.DE	10/22/15	
CERTIFIED BY:			DATE:	10/22/13	

Technical Director

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

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#### LABORATORY NARRATIVE Modified ASTM D-1946 Essel Environmental Consultants Workorder# 1510198C

Two 1 Liter Summa Canister samples were received on October 09, 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.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	ASTM D-1946	ATL Modifications
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 >/= 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 NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: SV-1 Lab ID#: 1510198C-01A

	Rpt. Limit	Amount
Compound	(%)	(%)
Oxygen	0.23	1.6
Nitrogen	0.23	92
Methane	0.00023	0.013
Carbon Dioxide	0.023	6.1

Client Sample ID: SV-2

Lab ID#: 1510198C-02A

	Rpt. Limit	Amount
Compound	(%)	(%)
Oxygen	0.23	14
Nitrogen	0.23	81
Carbon Dioxide	0.023	5.2



#### Client Sample ID: SV-1 Lab ID#: 1510198C-01A

#### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10101413	Date of Collection: 10/8/15 1:19:00 PM
Dil. Factor:	2.30	Date of Analysis: 10/14/15 02:04 PM

	Rpt. Limit	Amount
Compound	(%)	(%)
Oxygen	0.23	1.6
Nitrogen	0.23	92
Methane	0.00023	0.013
Carbon Dioxide	0.023	6.1

**Container Type: 1 Liter Summa Canister** 



#### Client Sample ID: SV-2 Lab ID#: 1510198C-02A

#### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

		Rpt. Limit	Amount
Dil. Factor:	2.30	Date of Analysis: 10/	14/15 02:30 PM
File Name:	10101414	Date of Collection: 1	0/8/15 2:02:00 PM

	Rpt. Limit	Amount
Compound	(%)	(%)
Oxygen	0.23	14
Nitrogen	0.23	81
Methane	0.00023	Not Detected
Carbon Dioxide	0.023	5.2

**Container Type: 1 Liter Summa Canister** 



#### Client Sample ID: Lab Blank Lab ID#: 1510198C-03A

#### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	10101404 1.00	Date of Colle Date of Analy	ction: NA ysis: 10/14/15 09:10 AM
Compound		Rpt. Limit (%)	Amount (%)
Oxygen		0.10	Not Detected
Nitrogen		0.10	Not Detected
Methane		0.00010	Not Detected
Carbon Dioxide		0.010	Not Detected



#### Client Sample ID: LCS Lab ID#: 1510198C-04A

#### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: 10101402 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 10/14/15 07:58 AM

		Method
Compound	%Recovery	Limits
Oxygen	99	85-115
Nitrogen	92	85-115
Methane	106	85-115
Carbon Dioxide	98	85-115



#### Client Sample ID: LCSD Lab ID#: 1510198C-04AA

#### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: 10101415 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 10/14/15 02:55 PM

		Method
Compound	%Recovery	Limits
Oxygen	99	85-115
Nitrogen	92	85-115
Methane	106	85-115
Carbon Dioxide	99	85-115



Air Toxics

**Sample Transportation Notice** 

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA 95630-4719 (916) 985-1000 FAX (916) 985-1020 Page \_\_\_\_\_\_ of \_\_\_\_\_

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## **APPENDIX E**

# CONCEPTUAL SITE MODEL AND DATA GAP TABLES

Table 5
Conceptual Site Model

		·	T	T
CSM Element	CSM Sub- Element	Description	Data Gap Item #	Resolution
Geology and Hydrogeology	Regional	The Site is located on the East Bay Plain, which consists of a series of alluvial fans and dune sands that were deposited on a westward sloping bedrock surface. This bedrock is presumed to consist of rocks of the Jurassic to Cretaceous-age Franciscan complex. The alluvial fan and dune sand deposits that overlie the Franciscan complex rocks are Pleistocene to Holocene in age and, from oldest to youngest, include the Santa Clara, Alameda, and Temescal Formations. The early Pleistocene-age Santa Clara Formation contains semi-consolidated units of conglomerate, sandstone, siltstone, and claystone. The Alameda Formation, of Pleistocene to Holocene age, comprises lower unnamed units and several upper members that include the Yerba Buena mud (black, organic-rich clay); a sequence of alluvial fan and eolian deposits (sand, gravel, silt) referred to as the San Antonio/Merritt/Posey member, and the Young Bay mud (black, organic-rich clay). The Temescal Formation is early Holocene in age and is an alluvial deposit consisting of silt and clay. The total thickness of these Pleistocene to Holocene sediments in the general area is reported to range from 450 to 500 feet (California Regional Water Quality Control Board, San Francisco Bay Region [RWQCB], 1999).  The RWQCB considers regional shallow ground-water-bearing units to be those that are above the Yerba Buena mud (i.e., San Antonio, Merritt, and Posey members of the Alameda Formation; Temescal Formation) and deeper regional ground water to be below the Yerba Buena mud (i.e., lower unnamed units of the Alameda Formation; Santa Clara Formation). The direction of ground-water flow in the area of the Site varies, but is generally westward, consistent with the surface topographic slope.	None	NA

Table 5
Conceptual Site Model (Continued)

CSM Element	CSM Sub- Element	Description	Data Gap Item #	Resolution
Geology and Hydrogeology	Site	Graymer (2000) shows surface sediments on the Site and to the south to be the Merritt sand, which is a fine-grained, very well sorted, well-drained eolian deposit, and surface sediments on adjacent West Grand Avenue and areas to the north to be Holocene-age alluvial fan and fluvial deposits, which are equivalent to the Temescal Formation. PES Environmental, Inc. (PES, 2005; 2011) describes the sediments encountered in borings drilled at the Site as:	None	NA
		<ul> <li>0 to 8 feet - black to dark greenish gray clay, sandy clay, silt</li> <li>8 to 12 feet - dark greenish gray to brown sand, clayey sand</li> <li>12 to 16 feet - dark greenish-gray to brown clay</li> <li>Sediments encountered during the current (Essel, 2015) investigation are described as:</li> </ul>		
		<ul> <li>Fill, consisting of brownish-black to dusky yellowish-brown clay, silt or silty fine-grained sand from the base of the concrete to depths of approximately 2½ to 6 feet below the ground surface.</li> <li>Silty clay from the base of the fill generally to depths of 9 to 12 feet below grade.</li> </ul>		
		<ul> <li>Units of silt, clayey sand, silty sand, and sand (some units containing gravel), with subordinate interbeds of clay from the bottom of the silty clay to depths of 17½ to 19 feet below grade.</li> <li>Silty clay was generally encountered in borings beneath the sand/silt zone to the maximum depth explored of 20.8 feet below the ground surface.</li> </ul>		
		The sediments were observed to be various shades of yellowish-brown (pale to dark) with varying degrees of reddish-brown and yellowish-orange oxidation staining. A zone of medium bluish-gray		

Table 5
Conceptual Site Model (Continued)

	CSM Sub-	· · · · · · · · · · · · · · · · · · ·		
<b>CSM Element</b>	Element	Description	Data Gap Item #	Resolution
		discolored sediments (with associated petroleum odor) was observed between 5 and 17 feet below grade in borings (ECB-1 through ECB-5) advanced near the former USTs and fuel dispenser. Bluish-gray discolored soil was observed in western borings ECB-9 and ECB-10 in the depth interval between approximately 13 and 16 feet below the ground surface, which is across the ground-water surface. Gray, discolored appearing soil was observed in off-site western boring ECB-14 (22 <sup>nd</sup> Street) at depths of 17½ to 18½ feet below grade (below the ground-water surface).		
		PES encountered ground water in borings at the Site in 2005 at 12 to 13 feet below the ground surface. During the current investigation, ground water was measured in temporary wells at depths of 12.41 to 20.19 feet below the ground surface.		
		Green Star Environmental (2011) reported a west-southwest to northwest direction of ground-water flow beneath the Oakland Bus Terminal, located approximately 600 feet southeast and upgradient of the Site. Broadbent & Associates, Inc. (2014) reported the direction of ground-water flow beneath an ARCO gasoline service station located approximately 900 feet west-northwest and downgradient from the site to be approximately toward the northwest. Ground-water flow beneath the Site is inferred to be between west-southwest and west-northwest.		
Surface Water Bodies		Lake Merritt is located approximately 3,900 feet east-southeast and Oakland Inner Harbor is located approximately 6,700 feet south of the Site.	None	NA
Nearby Wells		The State Water Resources Control Board's GeoTracker GAMA website provides the locations of ground-water-monitoring and ground-water-supply wells. The GAMA website shows that no ground-water-supply wells are located within ¼-mile (1,320 feet) of the Site. Three groups of environmental monitoring wells, related	1. Confirmation of GAMA data through well records search at applicable local	See data gaps table. Well records search.

Table 5
Conceptual Site Model (Continued)

CSM Element	CSM Sub- Element	Description	Data Gap Item #	Resolution
		to leaking underground storage tank properties, are located at distances of 600 feet south-southwest, 900 feet west-northwest, and 1,350 feet south of the Site. A request for records of wells located within 2,000 feet of the site was submitted to the California Department of Water Resources (DWR). The DWR indicated a reply to the request would be returned in approximately 1 year.	agency.	
Release Source and Volume		<ul> <li>One 7,000-gallon diesel underground storage tank (UST) formerly located in the northeastern corner of the Site;</li> <li>A fuel dispenser island located in the east-central portion of the Site; and</li> <li>One 2,000-gallon gasoline UST formerly located off-Site beneath the sidewalk adjacent to the diesel UST.</li> <li>The two USTs were removed in October 1986. No description of the conditions of the tanks or observations of the tank excavations is available. The volume of the release is not known.</li> </ul>	None	NA
LNAPL		An electronic oil-water interface probe was used to check the presence of LNAPL in on-site borings ECB-1 through ECB-12 and off-site borings ECB-13 and ECB-14. No LNAPL was detected in any boring using the interface probe and no LNAPL was observed during grab ground-water sampling of the 14 borings.	None	NA
Source Removal Activities		Primary sources: The USTs were removed in October 1986.  Secondary sources: No free-phase petroleum product was found on the ground water in borings ECB-1 through ECB-14.  Elevated concentrations of TPHg, TPHd, and TPHmo were found in soil in borings ECB-3 and ECB-4 in the vicinity of the former gasoline UST. A moderate concentration of TPHg was detected in boring ECB-5, located near the former fuel dispenser. These	2. The extent of potential secondary source soil at boring ECB-10 is not closely delineated.	Advance additional borings in the vicinity of ECB-10 with analysis of soil and ground-water samples for TPH and VOCs, and analysis of select samples for PAHs.

Table 5
Conceptual Site Model (Continued)

	CSM Sub-			
CSM Element	Element	Description	Data Gap Item #	Resolution
		higher concentrations are in the depth interval of 13 to 16 feet below grade, which is at the ground-water surface, and are laterally restricted in the vicinities of the former USTs and dispenser. Based on depth to this impacted soil, the local impact to ground water, and the lack of health-risk indicator constituents (benzene, naphthalene, PAHs), secondary source soil at the former USTs and dispenser is not considered to be of risk to human health or the environment.		
		Elevated concentrations of TPHg, TPHd, and particularly TPHmo were also found in the 13- to 16-foot-depth interval at west-central boring ECB-10, located near a possible UST. The extent of elevated TPH in soil at this boring is not fully delineated.		
Contaminants of Concern		Historical records indicate diesel and gasoline USTs were present at and adjacent to the site and that the present-day shop building was used for vehicle oil changes. Previous analyses of soil and ground-water samples were restricted to TPH, BTEX, and MTBE.	analytical results show that the primary contaminants of concern are petroleum based and that other compounds present are related to incidental releases.	NA
		Soil and ground-water samples from ECB-1 through ECB-14 were analyzed for the full range of petroleum hydrocarbons and VOCs. Selected soil and ground-water samples were also analyzed for PAHs. Elevated concentrations of TPHg, TPHd, and TPHmo were found in three of 31 soil samples and five of the 14 ground-water samples. No BTEX, MTBE or other fuel oxygenates and no PAHs (including naphthalene) were detected in any soil sample. A trace concentration (0.56 $\mu$ g/L) of total xylenes and a low concentration (3.9 $\mu$ g/L) of the fuel oxygenate tert-butyl alcohol (TBA) were each detected once in a water sample. The PAHs acenapthene, phenanthrene, and 1-methylnaphthalene were each detected one time at trace to low concentrations in a water sample. Naphthalene, MTBE, and other fuel oxygenates (except TBA) were not detected in any water sample and, other than trace xylenes in the ground-water sample from boring ECB-5, BTEX was not detected in any ground-water sample.		

Table 5
Conceptual Site Model (Continued)

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CSM Element	CSM Sub- Element	Description	Data Gap Item #	Resolution
		Other fuel constituents detected at trace (less than 1.0 µg/L) to low concentrations in water samples included n-butyl benzene, secbutyl benzene, tert-butyl benzene, isopropylbenzene, n-propyl benzene, and 1,2,4-trimethylbenzene.		
		Non-chlorinated hydrocarbon solvents acetone, methyl ethyl ketone (MEK), 2-hexanone, methyl isobutyl ketone (MIBK), and 4-isopropyl toluene; the chlorinated hydrocarbons <i>cis</i> -1,2-dichloroethene and vinyl chloride; and the insecticide bromomethane were also detected in water samples. Acetone was detected at the highest concentrations (11 to 92 µg/L) in nine of the 14 water samples and MEK was detected most frequently (10 water samples) at concentrations of 2.2 to 11 µg/L. Other compounds were sporadically detected in the water samples. Except for vinyl chloride, none of the compounds detected was at a concentration greater than applicable screening levels or maximum contaminant levels for drinking water.		
		In soil gas, TPH-gasoline range, BTEX, MTBE, and other fuel constituents were detected in soil-vapor sample SV-1 collected at 9½ feet below grade near the USTs and none was at a concentration greater than applicable screening levels for vapor intrusion risk. A very low concentration of TPH-gasoline range was detected in soil-vapor sample SV-2, collected at 9¼ feet below grade at the former fuel dispenser. No other petroleum constituents were detected in sample SV-2. The chlorinated hydrocarbons <i>cis</i> -1,2-dichloroethene and vinyl chloride were detected in SV-1 and tetrachloroethene was detected in SV-2. Vinyl chloride was at a concentration slightly greater than the corresponding vapor intrusion screening level.		
Petroleum Hydrocarbons in Soil		The results of subsurface investigations performed by PES in 2005 and 2011 found relatively localized concentrations of TPHg and TPHd in soil above the ground-water surface at levels greater than	2. The full extent of TPH in the vicinity of boring ECB-10 is	Advance additional borings in the vicinity of ECB-10

Table 5
Conceptual Site Model (Continued)

	ı	Conceptual Site Model (Continued)		T
CSM Element	CSM Sub- Element	Description	Data Gap Item #	Resolution
		applicable environmental screening levels (ESLs). The current investigation was performed to further delineate the extent of petroleum contaminants, particularly at and below the ground-water surface.	not defined.	with analysis of soil and ground-water samples for TPH and VOCs, and analysis of select
		TPHg: Detectable levels of TPHg were found in the two soil samples collected from the gasoline UST pit in 1986 and in three of 25 soil samples collected from borings advanced in 2005 and 2011. Soil collected at a depth of 8 feet below the ground surface in boring B-4, advanced next to the former fuel island, was the only sample containing TPHg at a concentration (190 mg/kg) greater than the applicable ESL. During the current investigation, elevated levels of TPHg (200 to 400 mg/kg) were detected at and just below the ground-water surface (depth interval of 13 to 16 feet) in borings ECB-3 and ECB-4, advanced in or very near the former gasoline UST, and ECB-10 at the western edge of the site. Concentrations of 130 and 95 mg/kg TPHg were detected at the 8 and 14½ feet below grade in boring ECB-5, located next to the former fuel dispenser and previous boring B-4. A low 2.1 mg/kg TPHg was detected at the 4-foot depth in boring ECB-5. No TPHg was detected in any other soil sample tested.		samples for PAHs.
		TPHd: Concentrations of 250 and 220 milligrams per kilogram (mg/kg) TPHd were found in 1986 at the northern end of the on-site 7,000-gallon diesel UST at respective depths of 12 and 13 feet below the ground surface and 80 mg/kg TPHd was detected at 12 feet below grade beneath the southern end of the former UST. A concentration of 230 ppm TPHd, associated with the elevated TPHg, was also detected in the soil sample collected at the 8-foot depth in boring B-4, advanced next to the former fuel dispenser. This concentration dropped to 23 ppm at the 12-foot depth in boring B-4. In 2015, elevated concentrations of TPHd (200 to 940 mg/kg) were found in borings ECB-3, ECB-4, and ECB-10 within the depth interval of 13 to 16 feet below the ground surface. Low		

Table 5
Conceptual Site Model (Continued)

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CSM Element	CSM Sub- Element	Description	Data Gap Item #	Resolution
		concentrations, ranging from 1.1 to 12 mg/kg, were detected at other depths in borings ECB-3, ECB-4, ECB-5, and off-site boring ECB-14, and TPHd was not detected in other soil samples tested.		
		TPHmo: TPHmo was not been detected in soil samples during previous investigations, including two samples collected from boring B-5, advanced in the former oil changing building. In 2015, elevated concentrations of 310 and 1,600 mg/kg TPHmo were detected within the 13- to 16-foot-depth interval in borings ECB-3, ECB-4, and ECB-10. No TPHmo was detected in the two samples collected at 4½ and 9½ feet below grade from slant boring ECB-7, advanced beneath the vehicle maintenance trench and none was detected in other soil samples tested.		
		The vertical extent of the three TPH ranges in the former UST and fuel dispenser areas is at 17½ feet below the ground surface. The lateral extent appears to be localized to the vicinities of the former USTs and dispenser. The vertical and lateral extent of TPHg, TPHd, and TPHmo is not defined at the location of boring ECB-10.		
		Individual Constituents: No BTEX has been detected in the total 56 soil samples and no MTBE has been detected in the total 39 soil samples collected during the previous and current investigations. During the current investigation, naphthalene was not detected in 31 soil samples analyzed for VOCs and eight soil samples analyzed for PAHs. Other fuel oxygenates and chlorinated volatile organic compounds also were not detected in the soil samples.		

Table 5
Conceptual Site Model (Continued)

CSM Element	CSM Sub- Element	Description	Data Gap Item #	Resolution
Petroleum Hydrocarbons in Groundwater		PES sampled ground water from borings B-1, B-2, B-5, and B-6 in 2005 and concentrations of TPHd and TPHmo were greater than current applicable ESLs. No TPHg or BTEX was detected in water samples and trace MTBE (0.61 ug/L) was found in one grab ground-water sample. Both TPHd and TPHmo were present across the site and, possibly may have migrated off-site to the northwest.	2. The full extent of TPH in the vicinity of boring ECB-10 is not defined.	Advance additional borings in the vicinity of ECB-10 with analysis of soil and ground-water samples for TPH and VOCs, and analysis of select samples for PAHs.
		Elevated levels of TPHg, TPHd, and TPHmo were detected in water samples collected from borings ECB-2 through ECB-5 (USTs and fuel dispenser) and west-central boring ECB-10. No TPHg, TPHd, or TPHmo was found in water samples from central boring ECB-7, perimeter borings ECB-6, ECB-8, ECB-9, ECB-11, and ECB-12, or off-site boring ECB-13. These results suggest the elevated levels detected in the areas of the former USTs and fuel dispenser have not migrated to the western edge of the site. Elevated TPHg, TPHd, and TPHmo in ground water at boring ECB10 have not been delineated. Trace to low and sporadic concentrations of petroleum fuel constituents and PAHs were detected in water samples and minor concentrations of non-chlorinated solvents and chlorinated solvents indicated incidental releases of these contaminants occurred.		
Vapor Intrusion to Indoor Air		Detectable concentrations of TPH-gasoline range hydrocarbons, benzene, ethylbenzene, xylenes, MTBE and other petroleum fuel constituents were found in vapor well SV-1 located near the former USTs. A very low level of TPH-gasoline-range hydrocarbons and none of the above fuel constituents was found in the vapor sample from well SV-2. Naphthalene was not detected in either soil vapor sample. Except for vinyl chloride, none of the detected concentrations was greater than applicable screening levels for potential vapor intrusion risk. Vinyl chloride was detected at a concentration slightly greater than the applicable screening level.	None. No vapor intrusion risk appears to be present.	NA

Table 5
Conceptual Site Model (Continued)

CSM Element	CSM Sub- Element	Description	Data Gap Item #	Resolution
Direct Contact and Outdoor Air		Soil samples collected within the 0- to 5-foot and 5- to 10-foot depth intervals have been analyzed for benzene. Benzene was not detected in 25 soil samples at a laboratory-reporting limit of 0.005 mg/kg.	None.	NA
		During the current investigation, soil samples collected within the above-described depth intervals in the UST, fuel dispenser, and vehicle maintenance trench areas were analyzed for benzene, naphthalene, and PAHs. Laboratory analytical results show no detectable concentrations of benzene, naphthalene, or any PAH analyte.		
Risk Evaluation		Essel (2014) evaluated risk at the site with respect to a future residential use. Potential exposed populations would include onsite future construction workers, future residents, and future visitors; and off-site current and future office workers and residents at adjacent properties. Complete exposure pathways were direct contact with soil (absorption, ingestion) by construction workers, inhalation of volatile gasoline compounds (from soil) by construction workers and residents, and direct contact (absorption and ingestion) with ground water by construction workers. Other exposure pathways, including ingestion of ground water, were found to be incomplete. Ground water that is impacted by petroleum contaminants at the site is not used.		
		Non-cancer risk was calculated for potential exposed populations, using applicable reference doses from the literature, default ingestion/inhalation rates from the United States Environmental Protection Agency, and the maximum historic concentrations detected in site soil and ground water. No health hazard is present for a future child resident (most sensitive receptor) or a future construction worker for the applicable exposure pathways. Potential cancer risk was not calculated because laboratory data were not available for carcinogenic indicator compounds.		

Table 6
Data Gaps Summary and Proposed Investigation

Item	Data Gap Item #	Proposed Investigation	Rationale	Analyses
1	1. Confirm presence or absence of water-supply wells (sensitive receptors) within ¼-mile of the site.	Request available well records from Alameda County Public Works Agency. The California Department of Water Resources has a 1-year backlog of well records requests.	Confirm presence, absence, and status of water-supply wells that might potentially be affected by site contaminants.	None.
2	2. The extent of potential secondary source soil at boring ECB-10 is not closely delineated.	Advance additional borings in the vicinity of ECB-10 with analysis of soil and ground-water samples for TPH and VOCs, and analysis of select samples for PAHs.	Assess the potential presence of a suspect UST, based on the results of a utility locator geophysical survey and the presence of a nearby vent pipe.	TPHg, d, mo by USEPA 8015, VOCs by USEPA 8260; PAHs by USEPA 8270 SIM

## **APPENDIX F**

**LIMITATIONS** 

#### **LIMITATIONS**

The environmental investigation described in this report has been conducted in accordance with current regulatory guidance and the standards of environmental and geological practice performed in the general project area. No warranty, expressed or implied, is made regarding the professional opinions presented in the report.

Essel Environmental Consulting's descriptions, conclusions, and recommendations in the report, with respect to environmental conditions, are based on a limited number of sampling points and chemical analyses. Field observations made during the investigation and the samples collected and submitted for testing are considered to be representative of the area evaluated. Subsurface soil and ground-water conditions; however, may vary between and beyond sampling or observation points. Additional work, including further subsurface investigation, can reduce the inherent uncertainties associated with this type of investigation.

The interpretations and opinions contained in this report are based on the results of laboratory tests and analyses intended to detect the presence and concentration of specific chemical or physical constituents in samples collected from the subject site. Chemical testing was conducted by an analytical laboratory that is certified by the state of California to perform the analyses requested for this investigation. Essel Environmental Consulting is not associated with the laboratory that performed the analyses and claims no responsibility for any inaccuracy in laboratory results.

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